

SECTION **DLK** DOOR & LOCK

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

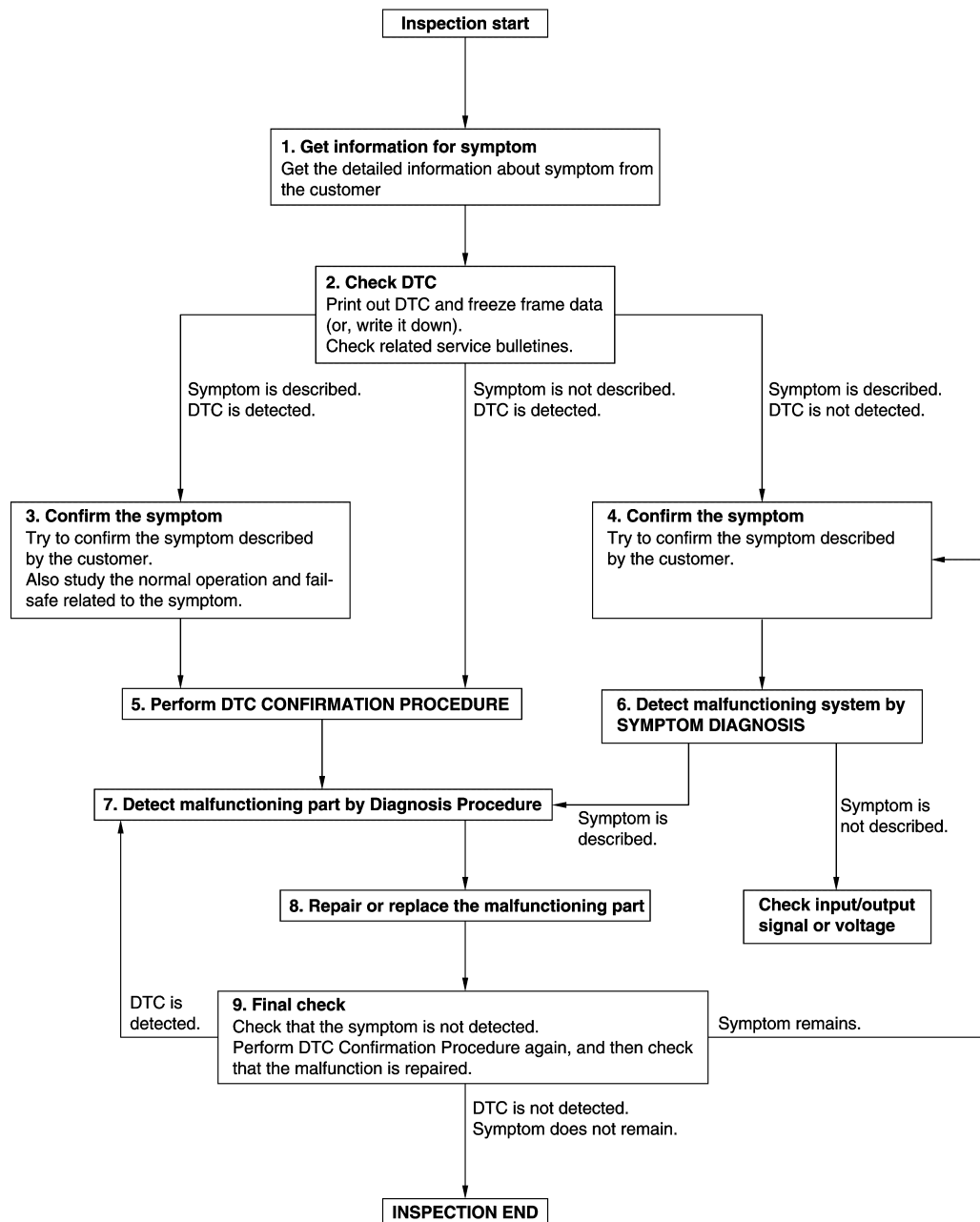
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000010577550

OVERALL SEQUENCE



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DETAILED FLOW

Revision: 2015 February

DLK-9

2015 QX70

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

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-87. "DTC Inspection Priority Chart"](#) 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-47. "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

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-47. "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.

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ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description

INFOID:0000000010577551

When the battery is disconnected from the negative terminal, it is necessary to perform initial setting to operate automatic back door control system normally. Refer to [DLK-12. "Work Procedure"](#).

Work Procedure

INFOID:0000000010577552

1. INITIALIZATION

1. Fully close the back door manually. (When back door is already fully closed, this operation is not necessary)
2. Perform automatic back door open/close operation of back door.
3. Check for noise or malfunctioning during operation.
4. Check that hazard lamp blinks and warning buzzer operates.

NOTE:

Never touch back door, or allow foreign materials to be pinched in back door, when performing automatic back door open/close operation of back door, until it is in the fully closed or fully open position.

>> WORK END

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

Description

INFOID:0000000010577553

When replacing automatic back door control unit, or removing connector terminal, it is necessary to perform initial setting to operate automatic back door system normally. Refer to [DLK-13, "Work Procedure"](#).

Work Procedure

INFOID:0000000010577554

1.STEP 1

Fully close the back door manually.

>> GO TO 2.

2.STEP 2

Operate back door opener switch and perform automatic back door open operation.

NOTE:

At this time, automatic operation of back door is performed at half speed.

>> GO TO 3.

3.STEP 3

1. The back door fully opens.

2. Check that hazard lamp blinks and automatic back door warning buzzer sounds normally.

Does hazard lamp blink and automatic back door warning buzzer sound normally?

YES >> GO TO 4.

NO >> GO TO 1.

4.STEP 4

Fully close the back door.

>> WORK END

DLK

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

Description

INFOID:0000000010577555

When the following work is performed, it is necessary to perform initial setting of automatic back door position information to operate automatic back door system. Refer to [DLK-14, "Work Procedure"](#).

- After removing and installing, or replacing back door assembly
- After removing and installing, or replacing spindle unit

Work Procedure

INFOID:0000000010577556

1.STEP 1

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "RESET AUTO BACK DOOR STATUS" of "WORK SUPPORT" mode.
3. Touch "NEXT" and "CLEAR" to erase automatic back door position information.

>> GO TO 2.

2.STEP 2

Fully close the back door manually.

>> GO TO 3.

3.STEP 3

Operate back door opener switch and perform automatic open operation.

NOTE:

At this time, automatic operation of back door is performed at half speed.

>> GO TO 4.

4.STEP 4

1. The back door fully opens.
2. Check that hazard warning lamp blinks and automatic back door warning buzzer sounds normally.

Does hazard warning lamp blink and automatic back door warning buzzer sound normally?

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

5.STEP 5

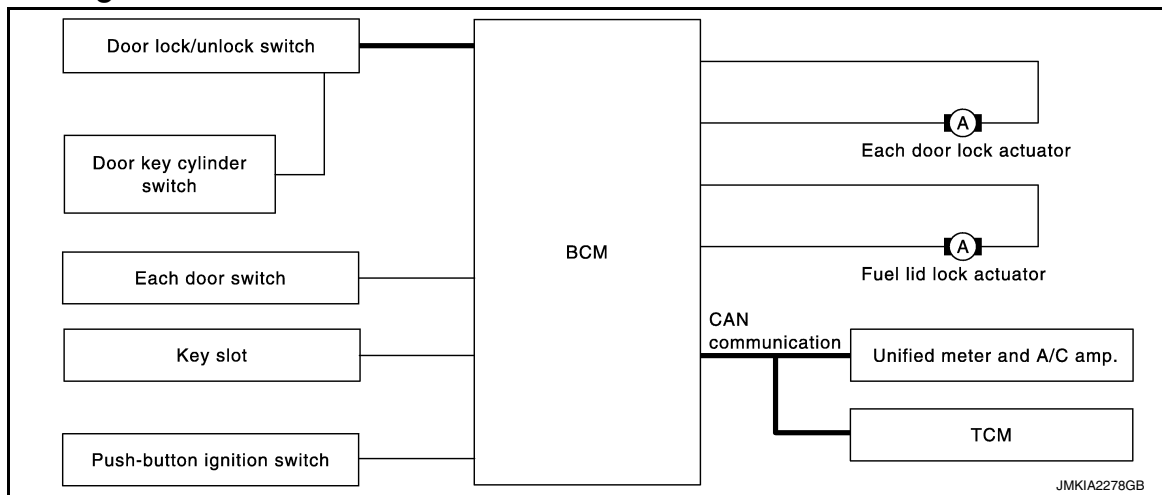
Fully close the back door.

>> WORK END

SYSTEM DESCRIPTION

POWER DOOR LOCK SYSTEM

System Diagram



System Description

INFOID:0000000010577558

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 and fuel lid lock actuator are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors and fuel lid lock actuator are unlocked.

Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to "LOCK", locks door lock actuators of all doors and fuel lid lock actuator.
- With the door key inserted in the door key cylinder on driver side, turning it to "UNLOCK" once, unlocks the driver side door lock actuator and fuel lid 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-59, "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 per the following.

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 15 MPH (24 km/h) 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 unified meter and A/C amp. 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 in CONSULT.

POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

⊗ 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 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 per the following.

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 in 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 lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

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

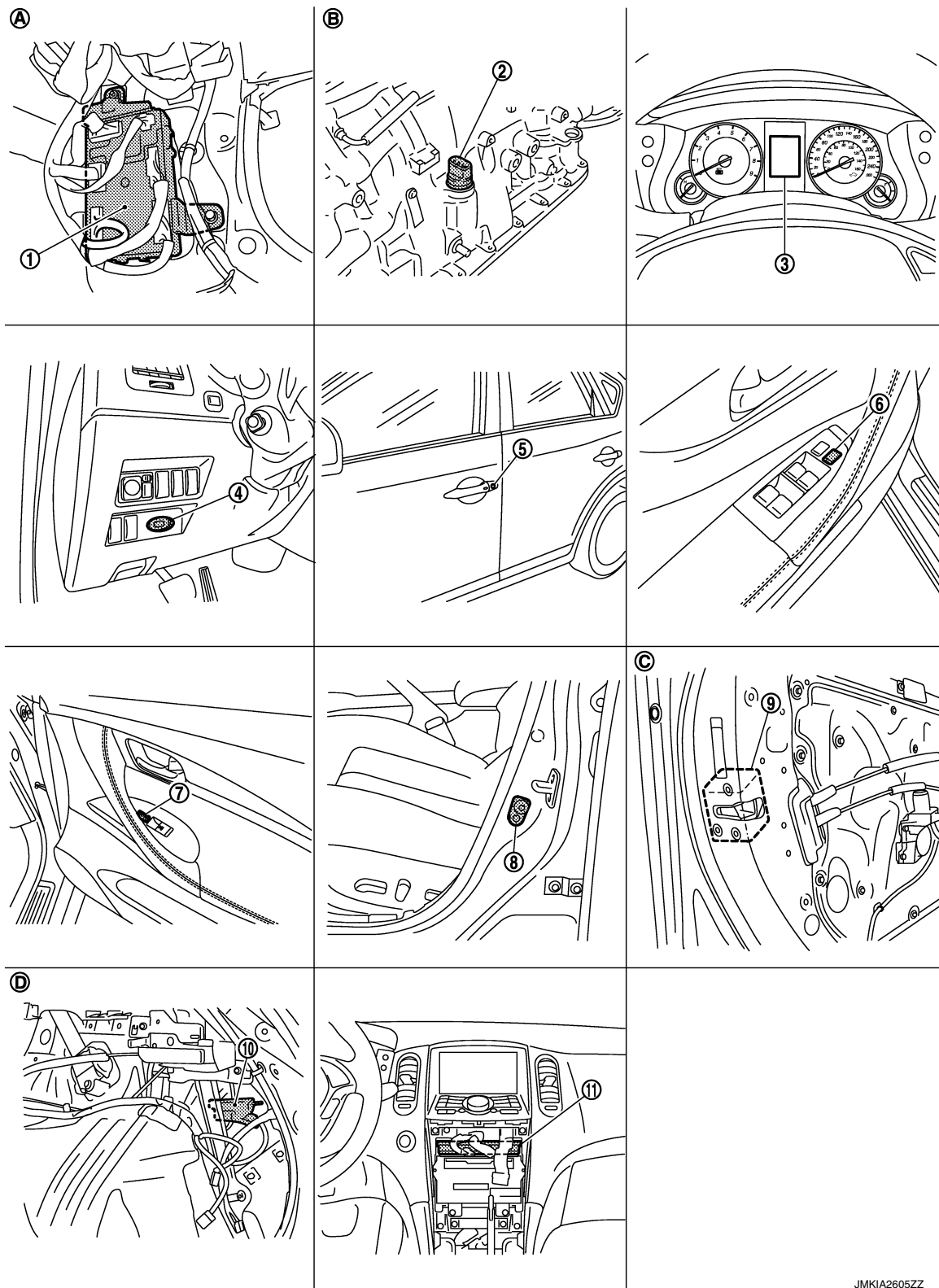
POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Component Parts Location

INFOID:0000000010577559



JMK1A2605ZZ

1. BCM M118, M119, M121, M122, M123
4. Key slot M22

2. A/T assembly connector F51
5. Door key cylinder switch [Front door lock assembly (driver side) D15]

3. Combination meter M53
6. Door lock and unlock switch (Power window main switch D8, D9)

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POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- | | | |
|---|--|---|
| 7. Door lock and unlock switch
[Front power window switch (passenger) D38] | 8. Front door switch (driver side) B16 | 9. Door lock actuator
[Front door lock assembly (driver side) D15] |
| 10. Fuel lid lock actuator B242 | 11. Unified meter and A/C amp.
M66, M67 | |
| A. Dash side lower (passenger side) | B. A/T assembly (TCM is built in A/T assembly) | C. View with front door finisher (LH) is removed |
| D. View with luggage side finisher lower (RH) is removed | | |

Component Description

INFOID:000000010577560

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
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	- 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.
Unified meter and A/C amp.	- Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. - Transmits vehicle speed signal to BCM via CAN communication line.
Combination meter	Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter.
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.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

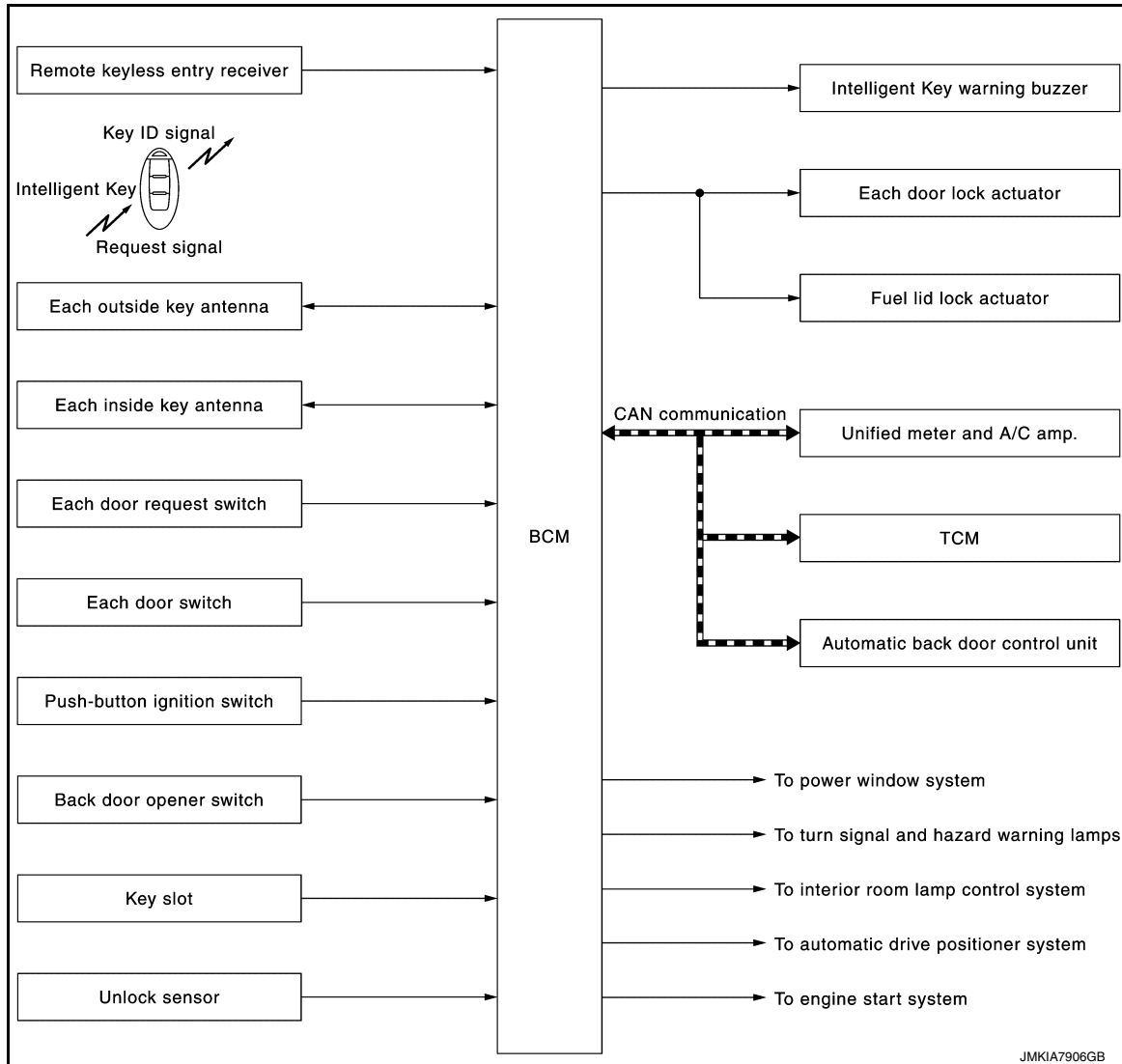
[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Diagram

INFOID:0000000010577561



INTELLIGENT KEY SYSTEM : System Description

INFOID:0000000010577562

- The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communication between the Intelligent Key and the vehicle (BCM).

CAUTION:

The driver should always carry the Intelligent Key

- The settings for each function can be changed using CONSULT.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered at one time.
- It is possible to perform a diagnosis on the system and register an Intelligent Key using CONSULT.

Function	Description	Refer
Door lock function	Lock/unlock can be performed by pressing the request switch.	DLK-23
Remote keyless entry function	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-32
Welcome light function	The puddle lamp and room lamp automatically turn ON, if the Intelligent Key is in the door outside key antenna detection area.	DLK-37

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Function	Description	Refer
Key reminder function	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-40
Warning function	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver.	DLK-42
Engine start function	The engine can turn on while carrying the Intelligent Key.	SEC-9

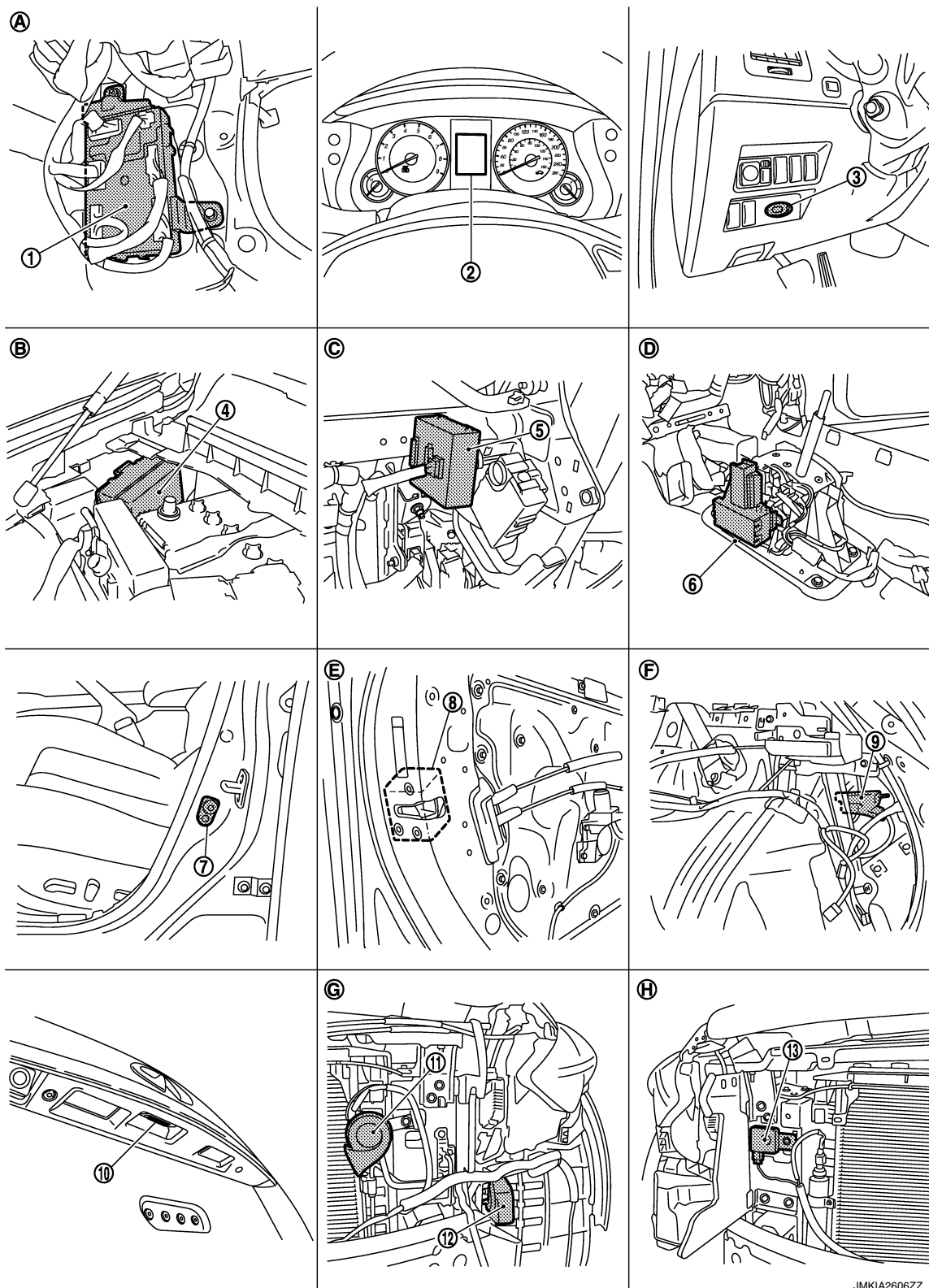
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:000000010577563



1. BCM
4. IPDM E/R
7. Front door switch (driver side)
10. Back door opener switch

2. Combination meter
5. Remote keyless entry receiver
8. Front door lock assembly (driver side)
11. Horn (low)

3. Key slot
6. A/T shift selector (detention switch)
9. Fuel lid lock actuator
12. Horn (high)

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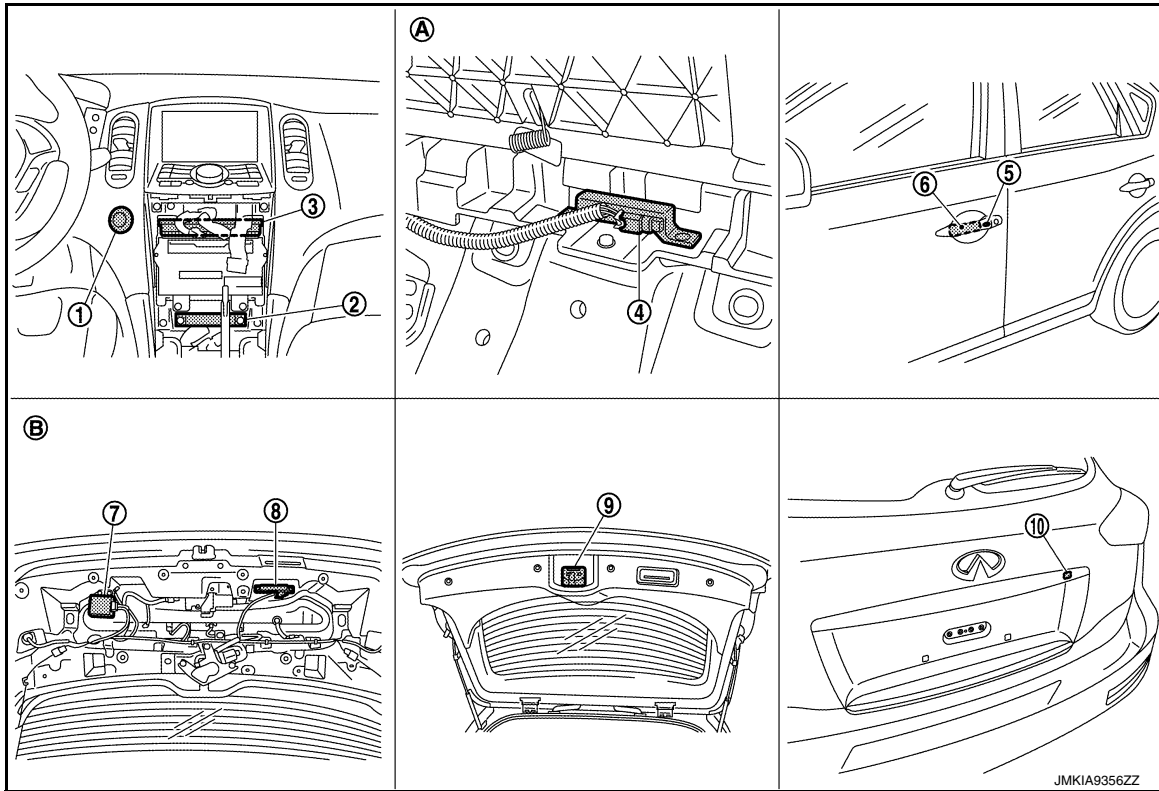
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

13. Intelligent Key warning buzzer

- | | | |
|--|---|---|
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



- | | | |
|---|---|--|
| 1. Push-button ignition switch (push switch) | 2. Inside key antenna (instrument center) | 3. Unified meter and A/C amp. |
| 4. Inside key antenna (luggage room) | 5. Front outside handle LH (request switch) | 6. Front outside handle LH (outside key antenna) |
| 7. Back door control unit | 8. Outside key antenna (back door) | 9. Back door lock assembly |
| 10. Back door opener request switch | | |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed | |

INTELLIGENT KEY SYSTEM : Component Description

INFOID:0000000010577564

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.
Unified meter and A/C amp.	- Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. - Transmits vehicle speed signal to BCM via CAN communication line.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

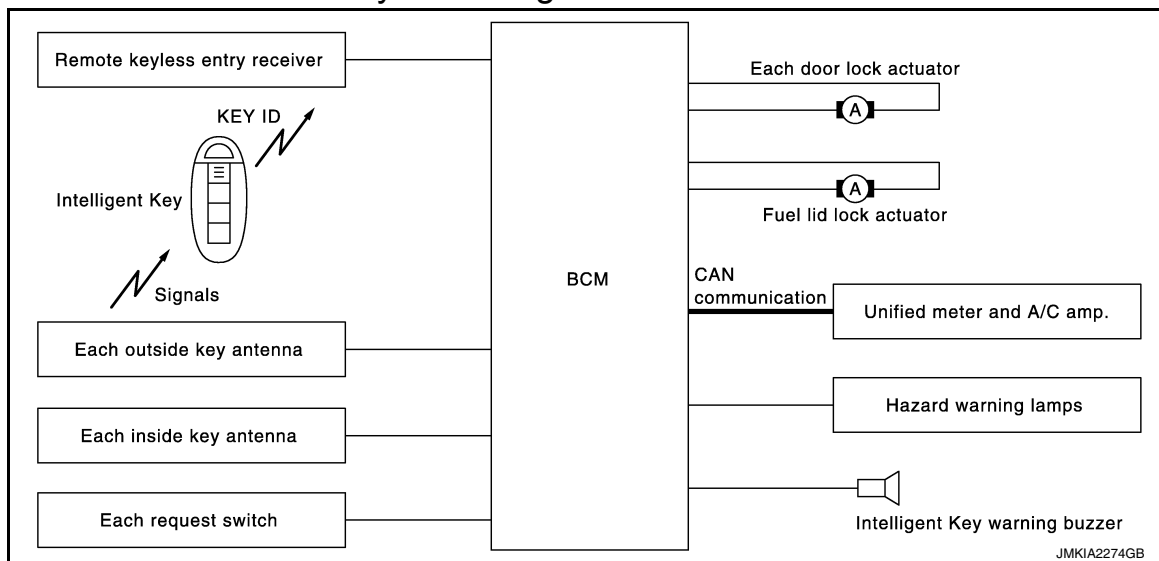
[WITH INTELLIGENT KEY SYSTEM]

Item	Function
Combination meter	Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram

INFOID:0000000010577565



DOOR LOCK FUNCTION : System Description

INFOID:0000000010577566

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

OPERATION CONDITION

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

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

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

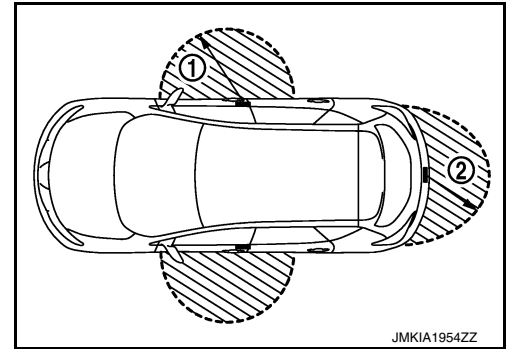
OUTSIDE KEY ANTENNA DETECTION AREA

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



SELECTIVE UNLOCK FUNCTION

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

When an UNLOCK signal is sent from door request switch (driver side or passenger side) once, driver's door and fuel lid are unlocked.

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

HAZARD AND BUZZER REMINDER FUNCTION

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

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

Operating Function of Hazard and Buzzer Reminder

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

How to Change Hazard and Buzzer Reminder Mode

Refer to [DLK-61, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

AUTO DOOR LOCK FUNCTION

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

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

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

Auto door lock mode can be changed in "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-61, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

INTERIOR ROOM LAMP CONTROL

Intelligent Key system turns on interior lamp by receiving UNLOCK signal from door request switch. For detailed description, refer to [INL-7, "System Description"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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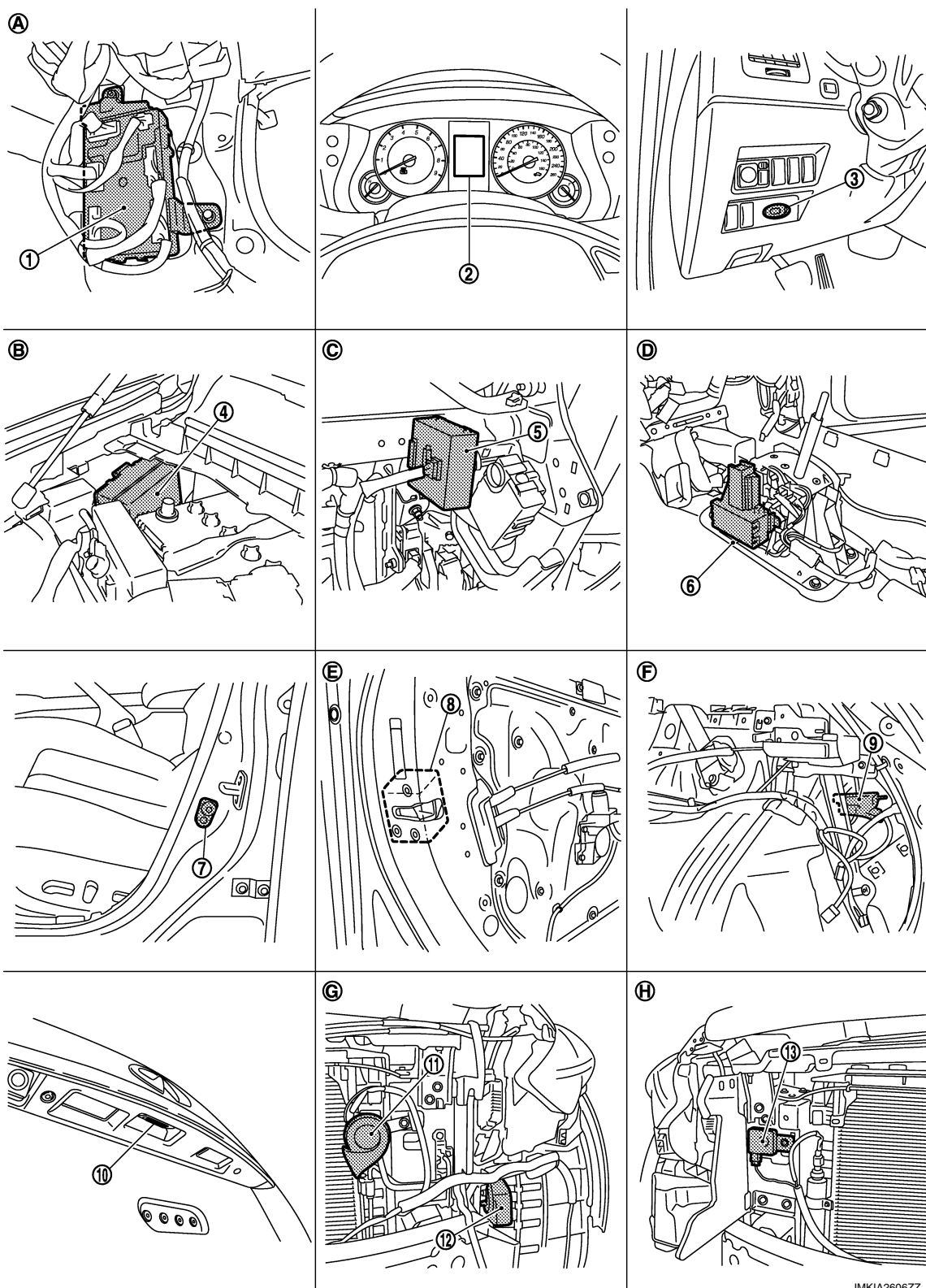
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK FUNCTION : Component Parts Location

INFOID:000000010577567



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|------------------------------------|---|--|
| 1. BCM | 2. Combination meter | 3. Key slot |
| 4. IPDM E/R | 5. Remote keyless entry receiver | 6. A/T shift selector (detention switch) |
| 7. Front door switch (driver side) | 8. Front door lock assembly (driver side) | 9. Fuel lid lock actuator |
| 10. Back door opener switch | 11. Horn (low) | 12. Horn (high) |

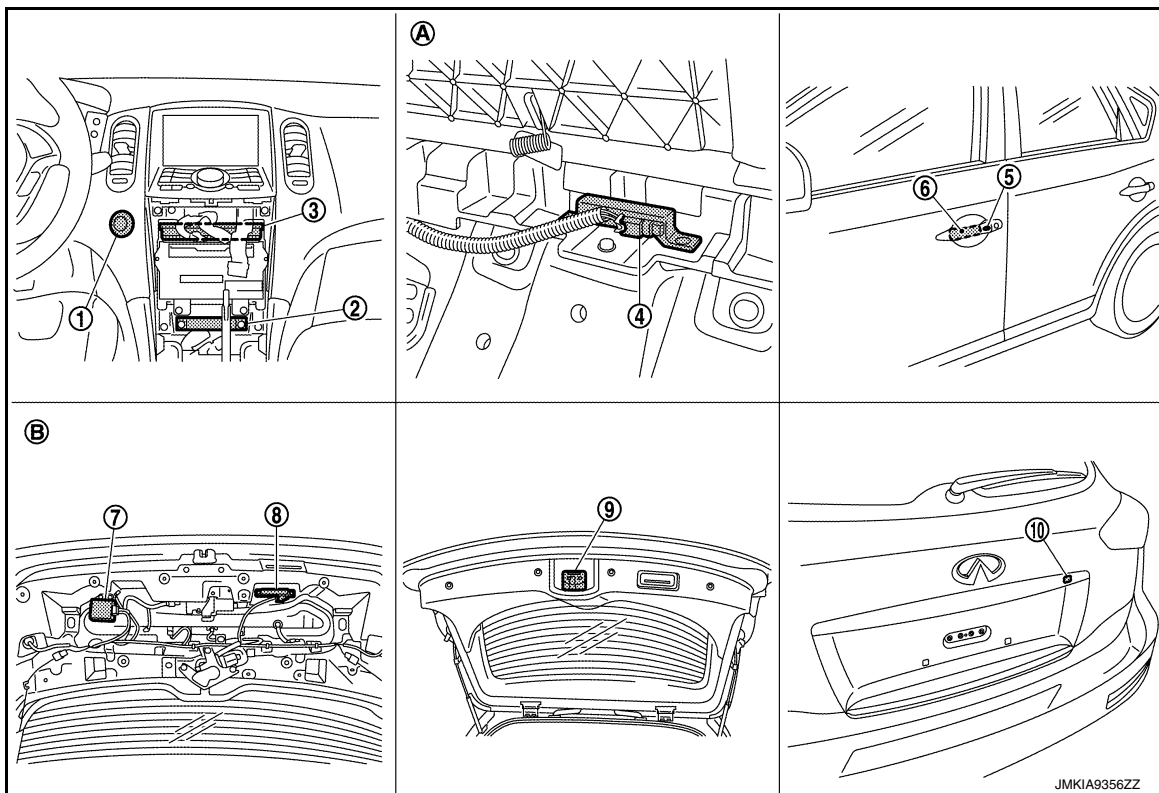
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

13. Intelligent Key warning buzzer

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|--|---|---|
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



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|---|---|--|
| 1. Push-button ignition switch (push switch) | 2. Inside key antenna (instrument center) | 3. Unified meter and A/C amp. |
| 4. Inside key antenna (luggage room) | 5. Front outside handle LH (request switch) | 6. Front outside handle LH (outside key antenna) |
| 7. Back door control unit | 8. Outside key antenna (back door) | 9. Back door lock assembly |
| 10. Back door opener request switch | | |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed | |

DOOR LOCK FUNCTION : Component Description

INFOID:0000000010577568

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.
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.
Unified meter and A/C amp.	- Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. - Transmits vehicle speed signal to BCM via CAN communication line.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

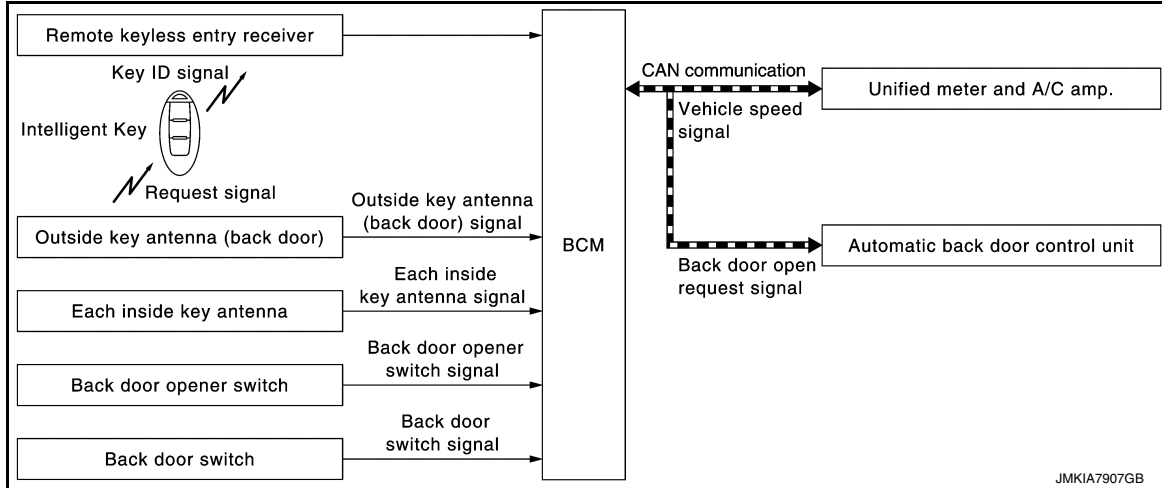
[WITH INTELLIGENT KEY SYSTEM]

Item	Function
Combination meter	Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter.
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

INFOID:0000000010577569



BACK DOOR OPEN FUNCTION : System Description

INFOID:0000000010577570

This section describes the operation of the back door opener switch.

- The back door open function can open the back door by pressing the back door opener switch while carrying the Intelligent Key and all doors (except back door) are locked.
- The back door open function enables the back door to be opened by pressing back door opener switch after BCM transmits UNLOCK signal to each door. Refer to [DLK-49. "System Description"](#).

BACK DOOR OPEN

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

- When the BCM detects that back door opener switch is pressed, it activates 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.
- If the verification result is OK, BCM transmits the back door open request signal to automatic back door control unit via CAN communication.
- When the back door open request signal is transmitted from BCM, closure motor is operated in the automatic back door control unit.

The operation of then back door open is the same as the automatic back door system, refer to [DLK-49. "System Description"](#).

OPERATION CONDITION

If the following conditions are not satisfied, back door open operation is not performed even if the back door opener switch is operated.

Back door opener switch operation	Operation condition
Back door open	• Vehicle speed is less than 5 km/h (3 MPH) • Intelligent Key is within outside key antenna (back door) detection area* • Back door is closed

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

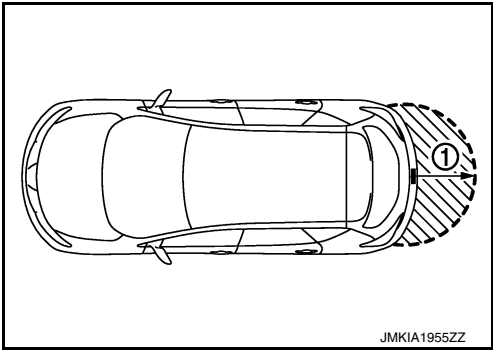
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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 outside key antenna (back door) (1). However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Door lock function	Intelligent Key	Remote keyless entry receiver	Back door opener switch	Back door lock assembly	Inside key antenna	Outside key antenna (back door)	CAN communication system	BCM	Automatic back door control unit
Back door open function (carrying Intelligent Key)	×	×	×	×	×	×	×	×	×

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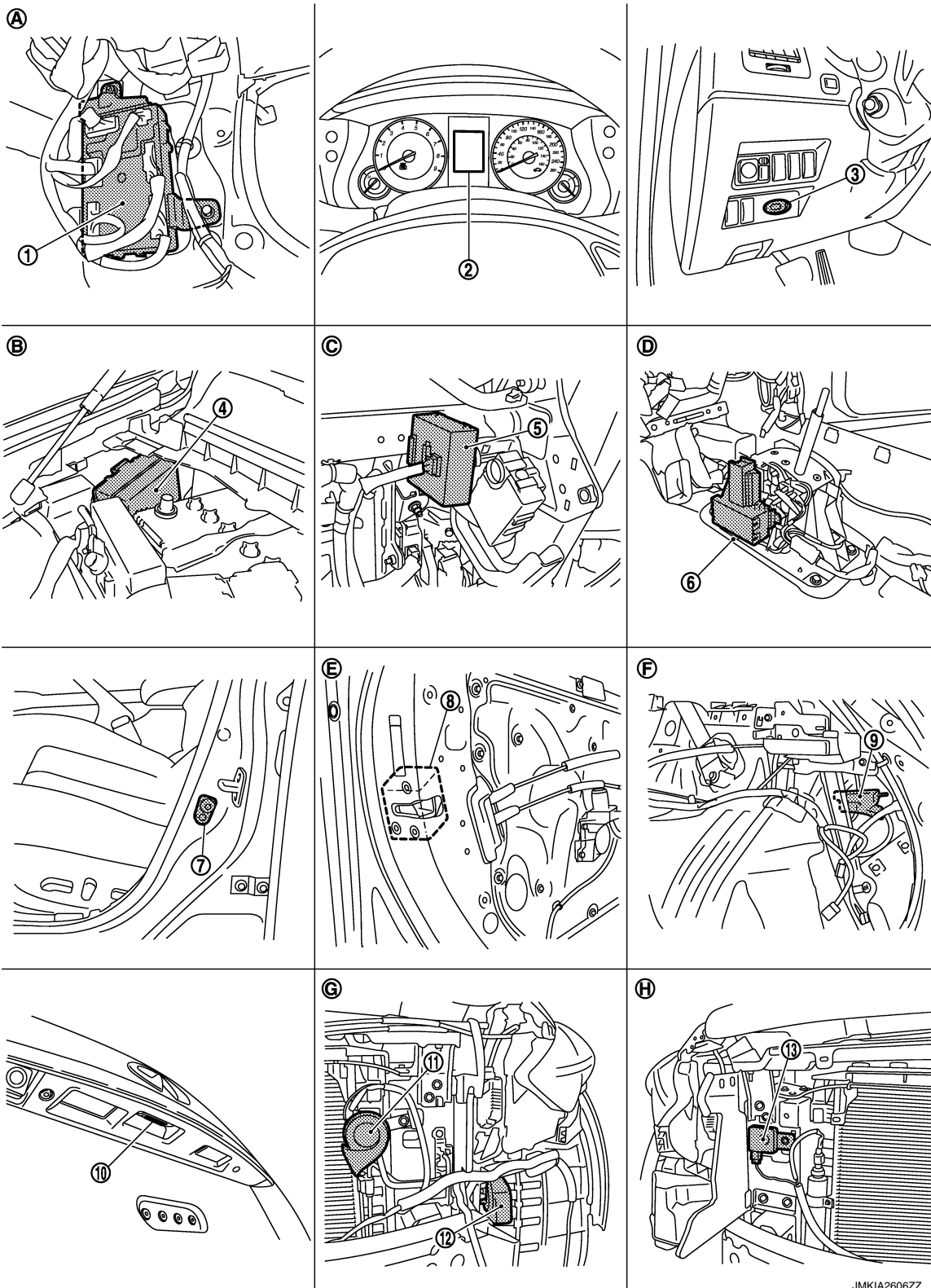
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPEN FUNCTION : Component Parts Location

INFOID:000000010577571



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|------------------------------------|---|--|
| 1. BCM | 2. Combination meter | 3. Key slot |
| 4. IPDM E/R | 5. Remote keyless entry receiver | 6. A/T shift selector (detention switch) |
| 7. Front door switch (driver side) | 8. Front door lock assembly (driver side) | 9. Fuel lid lock actuator |
| 10. Back door opener switch | 11. Horn (low) | 12. Horn (high) |

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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

13. Intelligent Key warning buzzer

- A. Dash side lower (passenger side)

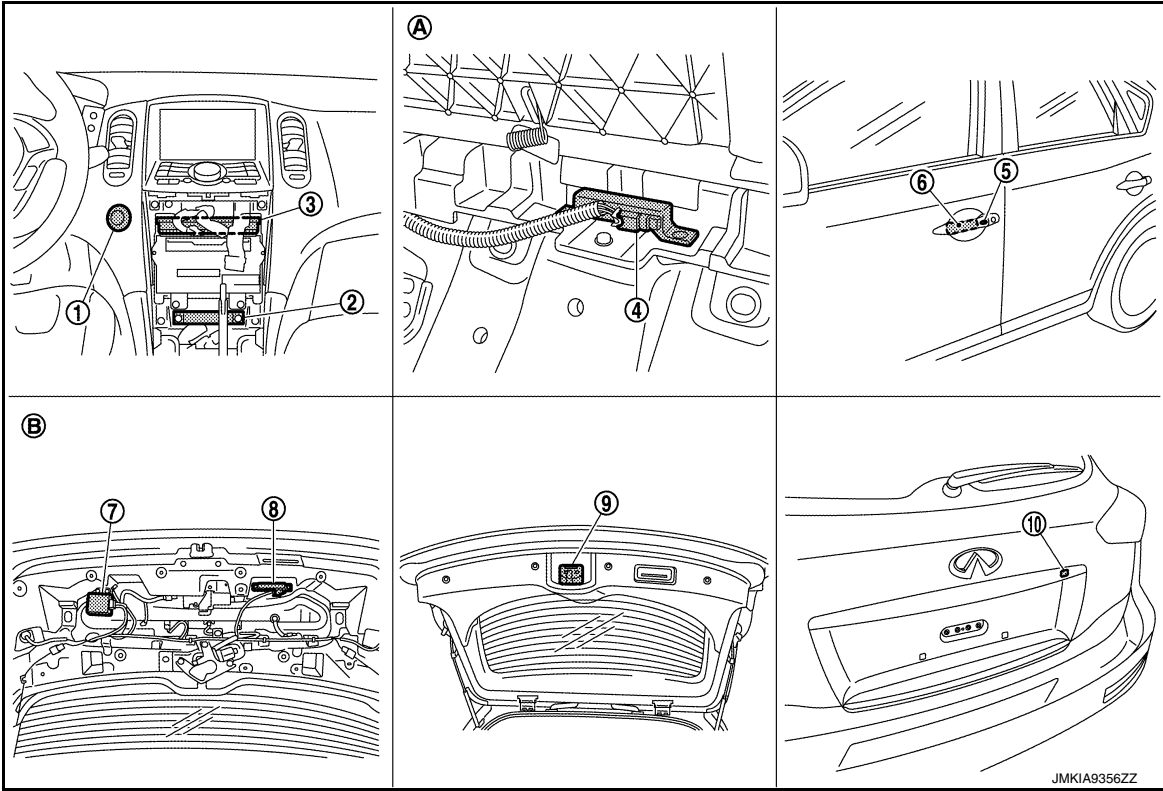
B. Engine room dash panel (RH)

C. Behind the instrument lower panel (driver side)
- D. View with center console assembly removed

E. View with front door finisher (LH) removed

F. View with luggage side finisher lower (RH) removed
- G. View with front bumper removed

H. View with front bumper removed



1. Push-button ignition switch (push switch)

2. Inside key antenna (instrument center)

3. Unified meter and A/C amp.
4. Inside key antenna (luggage room)

5. Front outside handle LH (request switch)

6. Front outside handle LH (outside key antenna)
7. Back door control unit

8. Outside key antenna (back door)

9. Back door lock assembly
10. Back door opener request switch

A. View with luggage floor finisher front removed

B. View with back door finisher inner removed

REMOTE KEYLESS ENTRY FUNCTION

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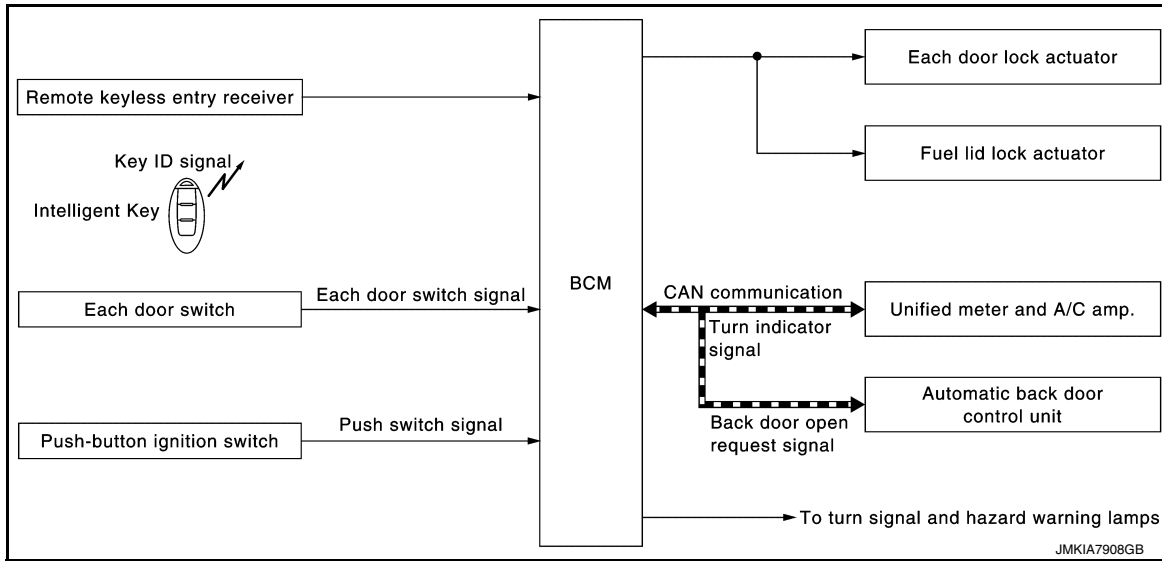
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY FUNCTION : System Diagram

INFOID:0000000010577572



REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:0000000010577573

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

OPERATION

Remote keyless entry system controls operation of the following functions

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

OPERATION AREA

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

DOOR LOCK/UNLOCK FUNCTION

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

OPERATION CONDITION

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

SELECTIVE UNLOCK FUNCTION

When a LOCK signal is transmitted from Intelligent Key, all doors and fuel lid are locked.

When an UNLOCK signal is transmitted from Intelligent Key once, driver's door and fuel lid are unlocked.

Then, if an UNLOCK signal is transmitted from Intelligent Key again within 60 seconds, all other doors are unlocked.

HAZARD AND HORN REMINDER FUNCTION

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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

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

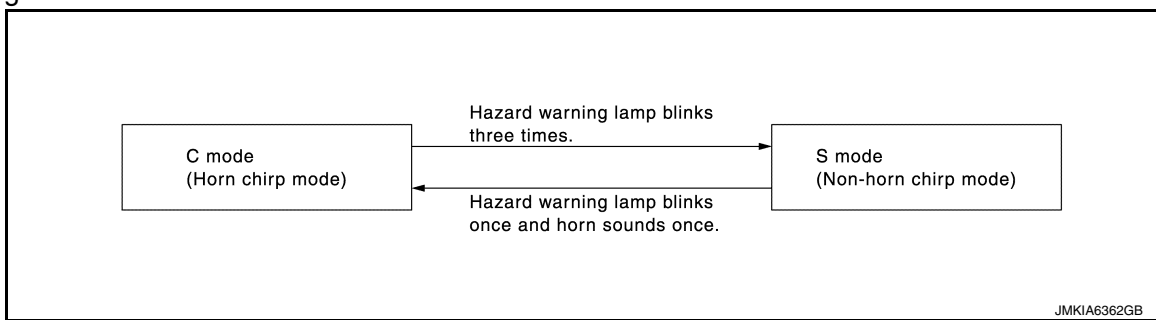
How to Change Hazard and Horn Reminder Mode

With CONSULT

Refer to [DLK-61, "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 flashes and horn sounds as per the following:



AUTO DOOR LOCK FUNCTION

When all doors and fuel lid are locked, ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), doors and fuel lid are unlocked with Intelligent Key button. When BCM does not receive the following signals within 30 seconds, all doors and fuel lid 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 using "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-61, "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-61, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

KEYLESS POWER WINDOW DOWN (OPEN) FUNCTION

All power windows open when the unlock button on Intelligent Key is activated and 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.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Keyless power window down operation mode can be changed by using "PW DOWN SET" mode in "WORK SUPPORT". Refer to [DLK-61, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

INTERIOR ROOM LAMP CONTROL

Intelligent Key system turns on interior lamp by receiving UNLOCK signal from Intelligent Key. For detailed description, refer to [INL-7, "System Description"](#).

AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

When back door button of Intelligent Key is pressed for 0.4 second or more, back door open automatically for detailed description, refer to [DLK-49, "System Description"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Remote keyless entry functions	Intelligent Key	Key slot	Door request switch	Door switch	Door lock actuator and fuel lid lock actuator	CAN communication system	BCM	Combination meter	Hazard warning lamp	Horn	IPDM E/R	Headlamp	Power window switch	Automatic back door control unit
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	×		×			×	×			×	×	×		
Automatic back door open/close function							×							×

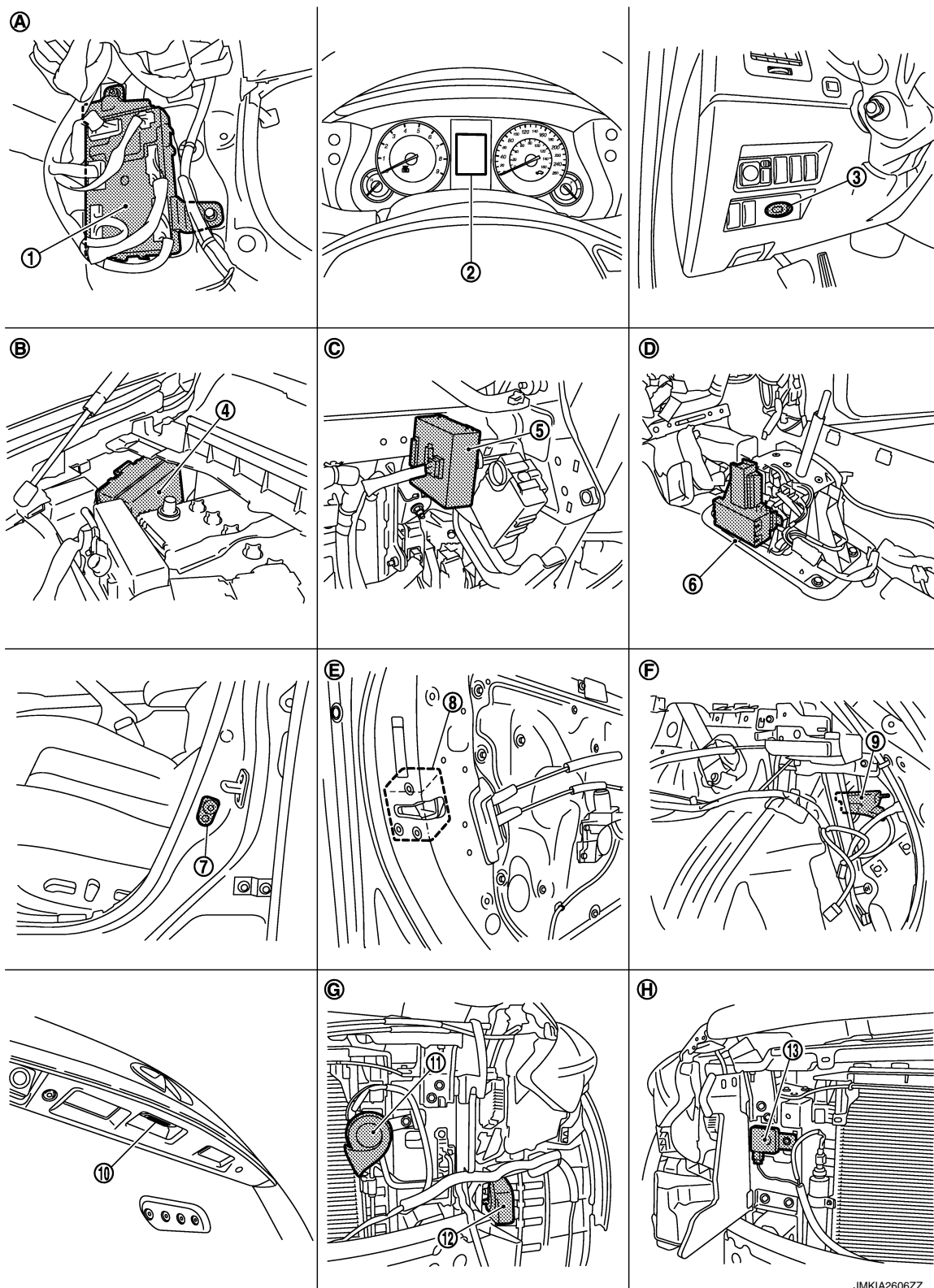
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY FUNCTION : Component Parts Location

INFOID:000000010577574



1. BCM
4. IPDM E/R
7. Front door switch (driver side)
10. Back door opener switch

2. Combination meter
5. Remote keyless entry receiver
8. Front door lock assembly (driver side)
11. Horn (low)

3. Key slot
6. A/T shift selector (detention switch)
9. Fuel lid lock actuator
12. Horn (high)

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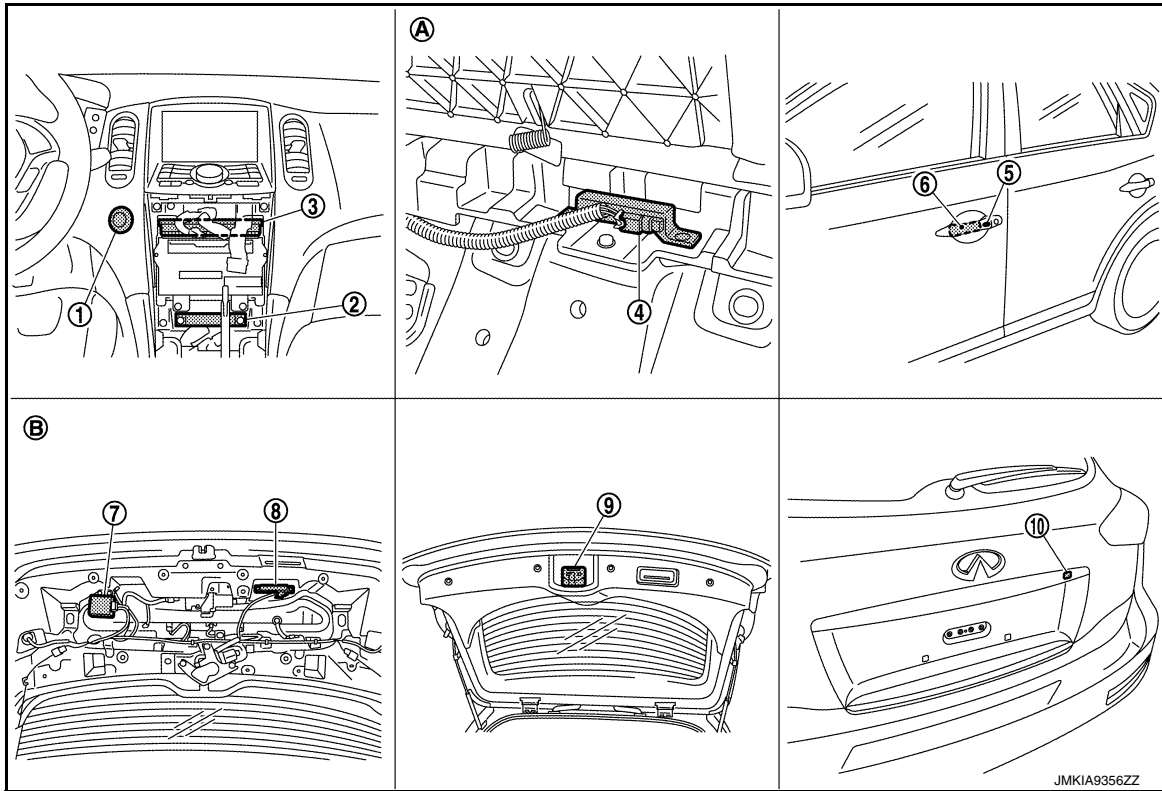
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

13. Intelligent Key warning buzzer

- | | | |
|--|---|---|
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



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|---|---|--|
| 1. Push-button ignition switch (push switch) | 2. Inside key antenna (instrument center) | 3. Unified meter and A/C amp. |
| 4. Inside key antenna (luggage room) | 5. Front outside handle LH (request switch) | 6. Front outside handle LH (outside key antenna) |
| 7. Back door control unit | 8. Outside key antenna (back door) | 9. Back door lock assembly |
| 10. Back door opener request switch | | |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed | |

REMOTE KEYLESS ENTRY FUNCTION : Component Description

INFOID:0000000010577575

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.
Unified meter and A/C amp.	- Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. - Transmits vehicle speed signal to BCM via CAN communication line.
Combination meter	Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter.
Intelligent Key	Transmits button operation to remote keyless entry receiver.

WELCOME LIGHT FUNCTION

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

WELCOME LIGHT FUNCTION : System Description

INFOID:0000000010577576

CONDITION OF SEARCHING

If all the following conditions are satisfied, BCM searches for Intelligent Key by using outside key antenna (front outside handle LH/RH and back door). BCM has timer to search for 14 days (every 0.3 sec.). If the engine is started, the timer is reset.

Function	Condition
Welcome light function	• System setting is active. • All doors are closed. • Ignition position is OFF. • There is no Intelligent Key inside vehicle. • Shift position is the P position. • All doors are closed and locked (or auto lock timer is running).

OPERATION PROCEDURE

BCM search outside key antenna (front outside handle LH/RH and back door) detection area. If registered Intelligent Key is detected, BCM turn ON the room lamp and puddle lamp.

For detailed description after turning ON the lamps, refer to [INL-7, "System Description"](#).

SYSTEM SETTING PROCEDURE

Setting of welcome light function can be changed by the following procedure. (For system setting by CONSULT: refer to [DLK-61, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).)

1. Check that Intelligent Key is removed from key slot.
2. Turn ignition switch ON and press and hold request switch (driver side) more than 5 seconds.
3. Confirm that buzzer sounds (combination meter).

Pi, Pi, Pi... (approx. 1.2 sec.): Welcome light function is OFF.

Pi, Pi, Pi... (approx. 2.4 sec.): Welcome light function is ON.

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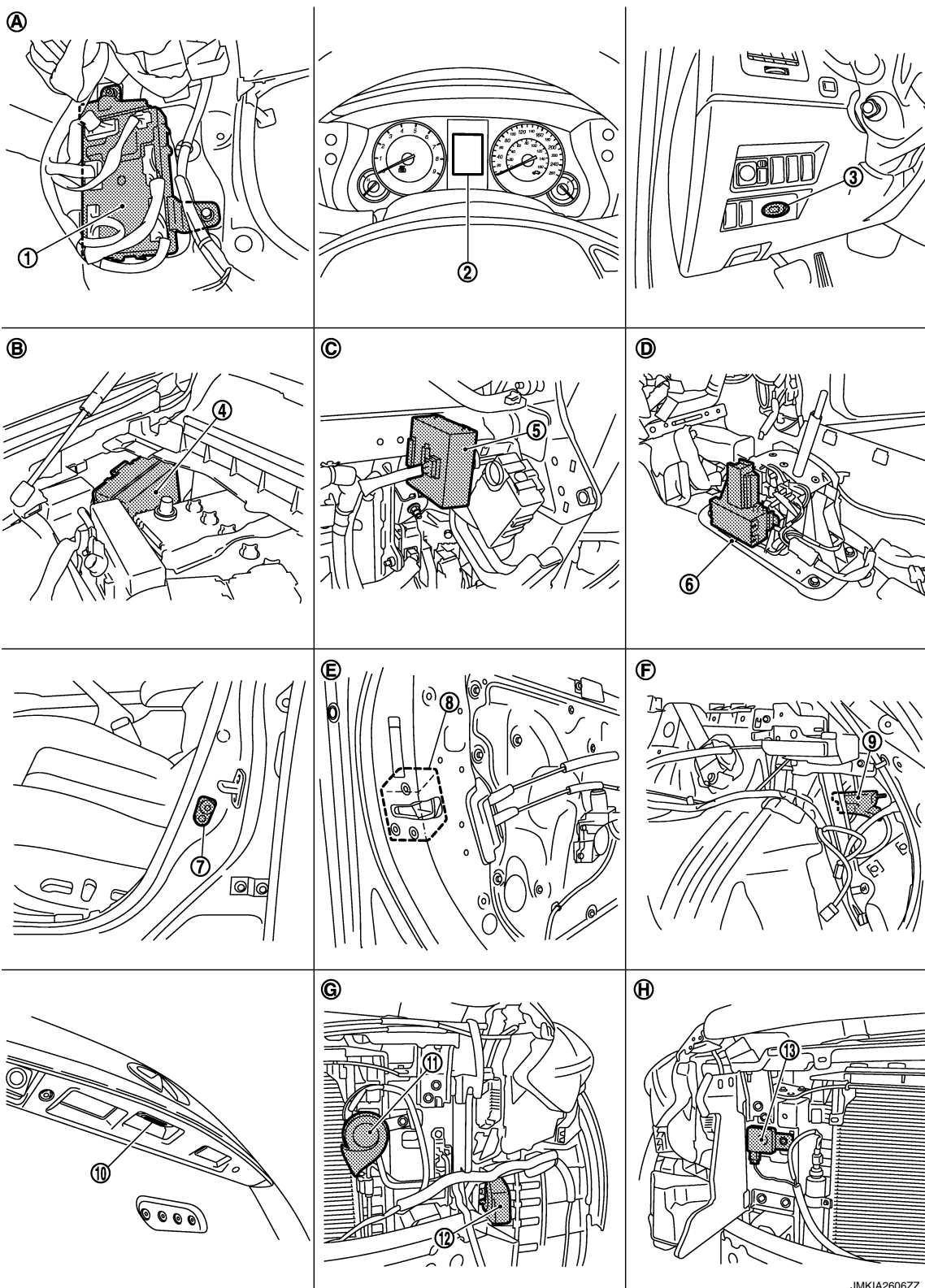
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

WELCOME LIGHT FUNCTION : Component Parts Location

INFOID:000000010577577



JMKIA2606ZZ

- | | | |
|------------------------------------|---|--|
| 1. BCM | 2. Combination meter | 3. Key slot |
| 4. IPDM E/R | 5. Remote keyless entry receiver | 6. A/T shift selector (detention switch) |
| 7. Front door switch (driver side) | 8. Front door lock assembly (driver side) | 9. Fuel lid lock actuator |
| 10. Back door opener switch | 11. Horn (low) | 12. Horn (high) |

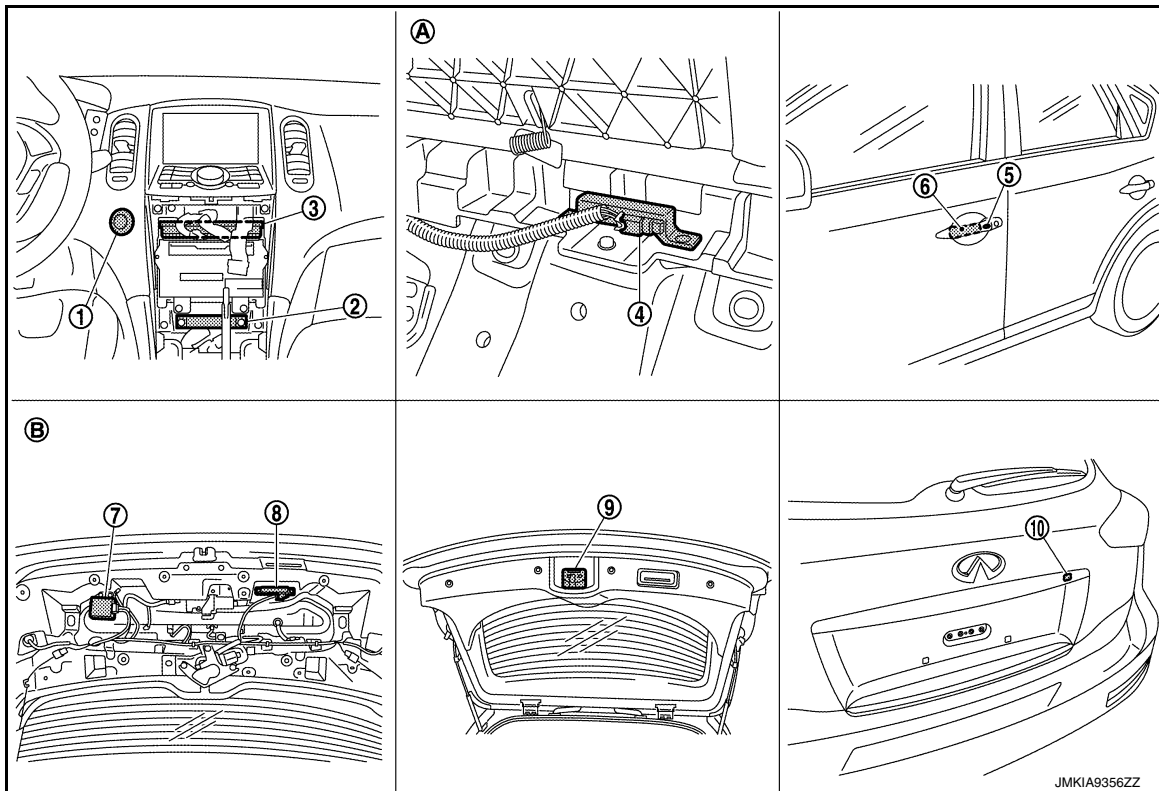
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

13. Intelligent Key warning buzzer

- | | | |
|--|---|---|
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



- | | | |
|---|---|--|
| 1. Push-button ignition switch (push switch) | 2. Inside key antenna (instrument center) | 3. Unified meter and A/C amp. |
| 4. Inside key antenna (luggage room) | 5. Front outside handle LH (request switch) | 6. Front outside handle LH (outside key antenna) |
| 7. Back door control unit | 8. Outside key antenna (back door) | 9. Back door lock assembly |
| 10. Back door opener request switch | | |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed | |

KEY REMINDER FUNCTION

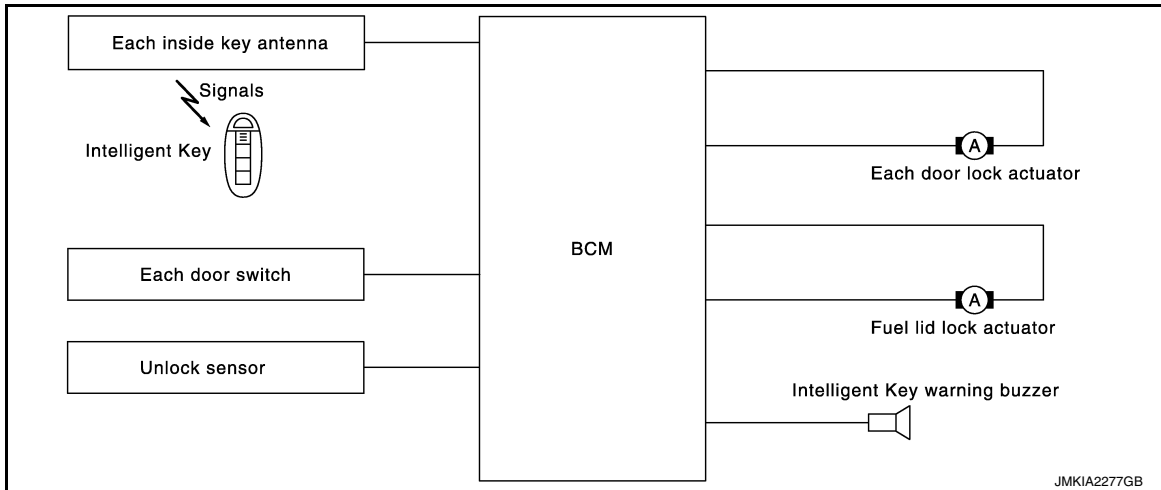
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

KEY REMINDER FUNCTION : System Description

INFOID:000000010577578



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

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

*:If the door lock knob is shocked by impact during door closing or contacts against baggage, the door lock knob might activate the door locks accidentally, but unlock operation is performed 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. 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 of 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 and the Intelligent Key is not inside the vehicle
 - When any door is open

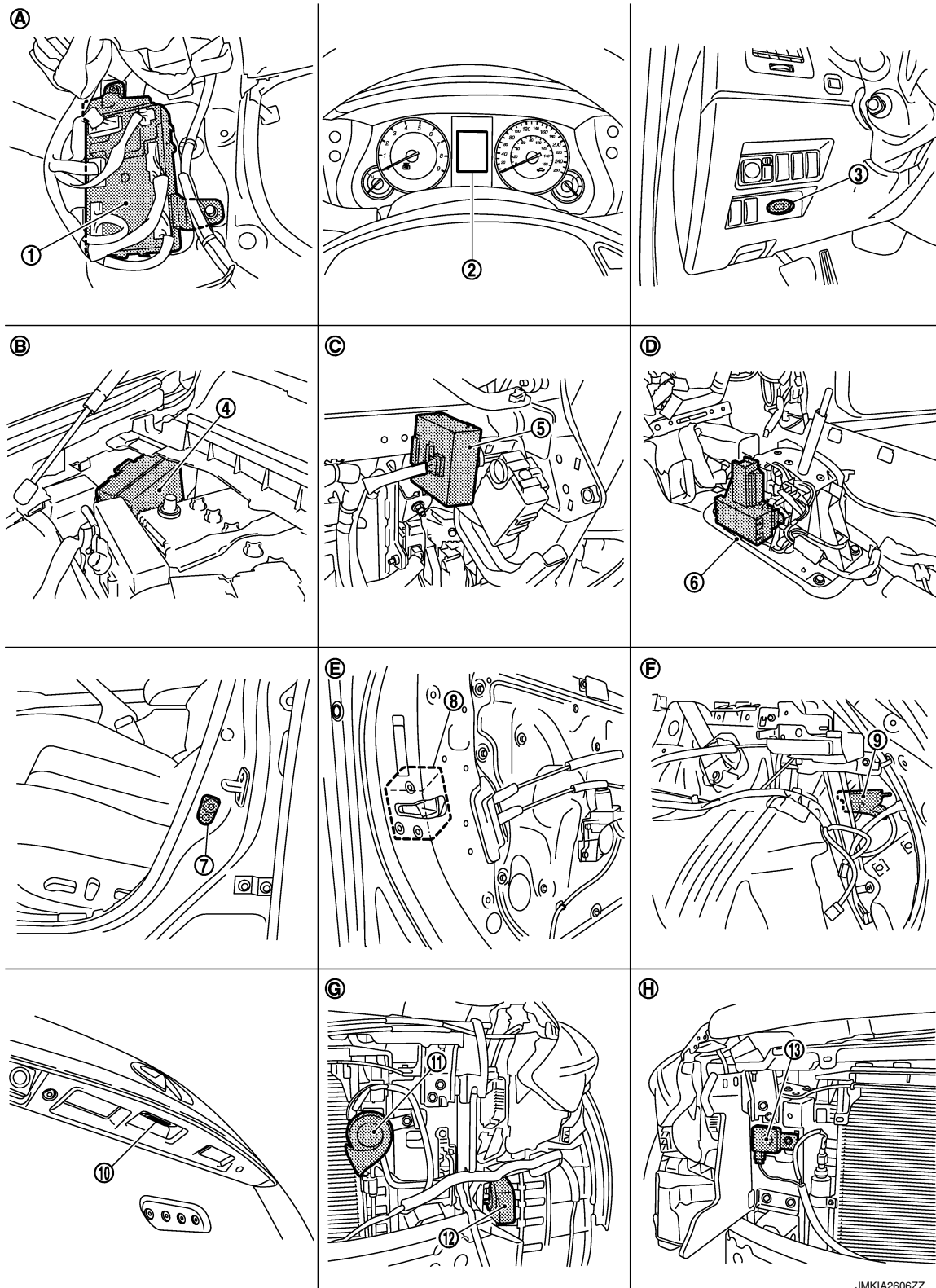
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

KEY REMINDER FUNCTION : Component Parts Location

INFOID:000000010577579



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|------------------------------------|---|--|
| 1. BCM | 2. Combination meter | 3. Key slot |
| 4. IPDM E/R | 5. Remote keyless entry receiver | 6. A/T shift selector (detention switch) |
| 7. Front door switch (driver side) | 8. Front door lock assembly (driver side) | 9. Fuel lid lock actuator |
| 10. Back door opener switch | 11. Horn (low) | 12. Horn (high) |

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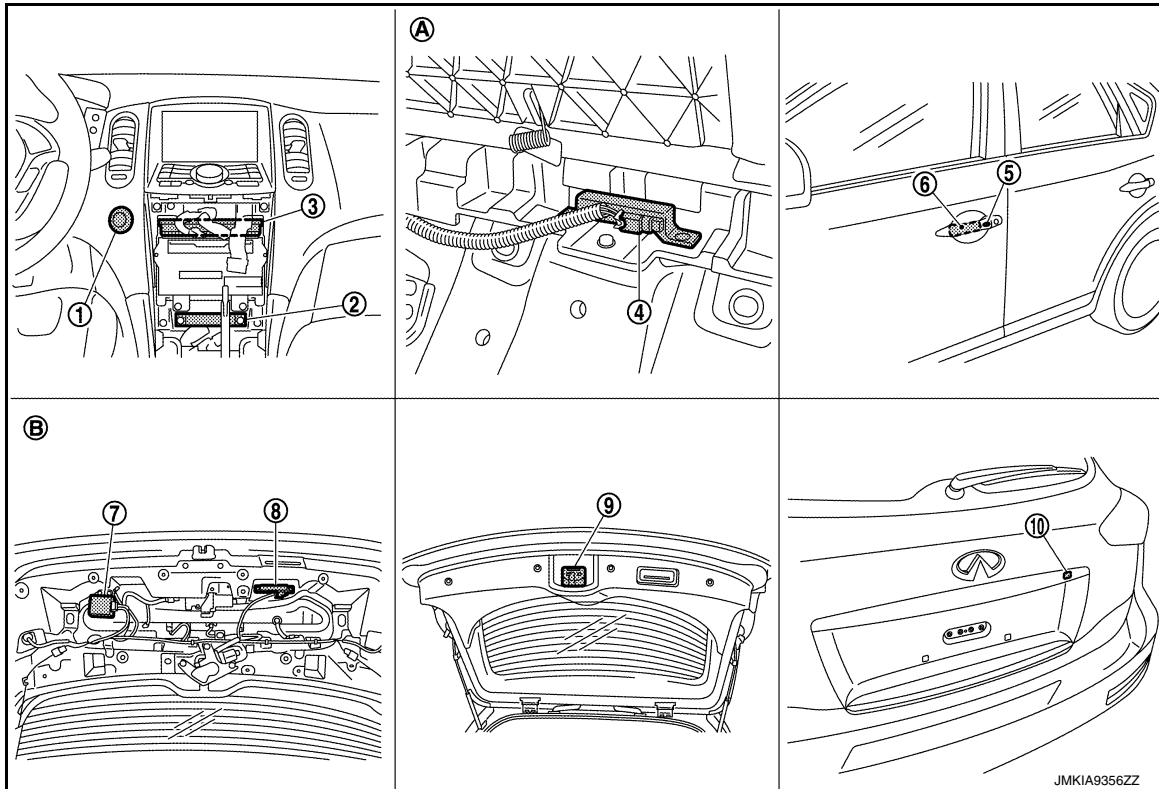
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

13. Intelligent Key warning buzzer

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|--|---|---|
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



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|---|---|--|
| 1. Push-button ignition switch (push switch) | 2. Inside key antenna (instrument center) | 3. Unified meter and A/C amp. |
| 4. Inside key antenna (luggage room) | 5. Front outside handle LH (request switch) | 6. Front outside handle LH (outside key antenna) |
| 7. Back door control unit | 8. Outside key antenna (back door) | 9. Back door lock assembly |
| 10. Back door opener request switch | | |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed | |

WARNING FUNCTION

WARNING FUNCTION : System Description

INFOID:0000000010577580

OPERATION DESCRIPTION

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

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- Intelligent key low battery warning
- Key ID warning

OPERATION CONDITION

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

Warning/Information functions		Operation procedure
Intelligent Key system malfunction		When a malfunction is detected on BCM, "KEY" warning lamp illuminates.
OFF position warning	For internal	When condition A, B or condition C is satisfied • Condition A - Ignition switch: ACC position - Door switch (driver side): ON (Door is open) • Condition B - Turn ignition switch from ON to OFF while door is open • Condition C - Intelligent Key is inserted in key slot - Door switch (driver side): ON (Door is open)
	For external	OFF position warning (For internal) is in active mode, driver side door has is closed. NOTE: OFF position (For external) active only when each of the sequence occurs as per the following: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
P position warning		• Shift position: Not the P position. • Engine is running to stopped (Ignition switch is ON to OFF).
ACC warning		• When the P position warning is in active mode, shift position is changed to P position. • Ignition switch: ACC position.
Take away warning	Door is open to close	• Ignition switch: Not the LOCK position. • Door switch: ON to OFF (Door is open to close). • Intelligent Key can not be detected inside the vehicle.
	Door is open	• Ignition switch: Not the LOCK position. • 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	• Ignition switch: Not the LOCK position. • Press push-button ignition switch. • Intelligent Key can not be detected inside the vehicle.
	Intelligent Key is removed from key slot	• 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. • All doors are 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. • Door switch: ON (Any door is open). • For 3 seconds after Intelligent Key is removed from key slot.
Key warning		• Ignition switch is in the OFF position. • Driver side door switch: ON (Driver side door is open). • Intelligent Key is inserted in key slot.
Intelligent Key insert information		• Door switch: ON to OFF (Door is open to close). • Ignition switch: OFF to ON position. • Intelligent Key is out of key slot. • Intelligent Key can not be detected inside the vehicle.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

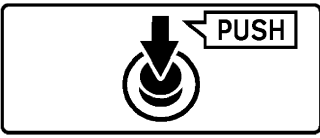
[WITH INTELLIGENT KEY SYSTEM]

Warning/Information functions		Operation procedure
Engine start information	Ignition switch is in the ON position	- Ignition switch: ON position. - Shift position: P position. - Engine is stopped.
	Ignition switch is not in the ON position	- Ignition switch: Not in the 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 is low, 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 by using the 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		—	 JMKIA0037GB	—	Activate	—
ACC warning		—	 JMKIA0047GB	—	—	—
Take away warning	Door is open to close	—	 JMKIA0036GB	Blink	Activate	Activate
	Door is open	—		Blink	—	—
	Push-ignition switch operation	—		Blink	Activate	—
	Intelligent Key is removed from key slot	—		Blink	—	—
Door lock operation warning	Request switch operation	—	—	—	—	Activate
	Intelligent Key operation	—	—	—	—	Activate

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	—	 JMKIA0036GB	—	—	—
Key warning	—	 JMKIA0035GB	Blink	Activate	—
Intelligent Key insert information	—	 JMKIA0034GB	Blink	—	—
Engine start information	—	 JMKIA0032GB	—	—	—
Intelligent Key low battery warning	—	 JMKIA0048GB	—	—	—

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											x	x				x
OFF position warning	For internal				x					x	x	x				
	For external				x				x			x				
P position warning				x						x	x	x	x		x	
ACC warning				x						x	x	x	x		x	
Take away warning	Door is open or close	x			x		x		x	x	x	x	x	x		
	Door is open	x			x		x				x	x	x	x		
	Push-ignition switch operation	x		x			x			x	x	x	x	x		
	Intelligent Key is removed from key slot	x	x				x				x	x	x	x		
Door lock operation warning		x	x		x	x	x	x	x			x				
Key ID warning		x	x	x			x				x	x	x			
Key warning		x	x		x					x	x	x	x	x		
Intelligent Key insert information		x	x	x	x		x				x	x	x	x		
Engine start information	Ignition switch is in the ON position	x	x	x			x				x	x	x		x	
	Ignition switch is not in the ON position	x	x	x			x				x	x	x			
Intelligent Key low battery warning		x					x				x	x	x			

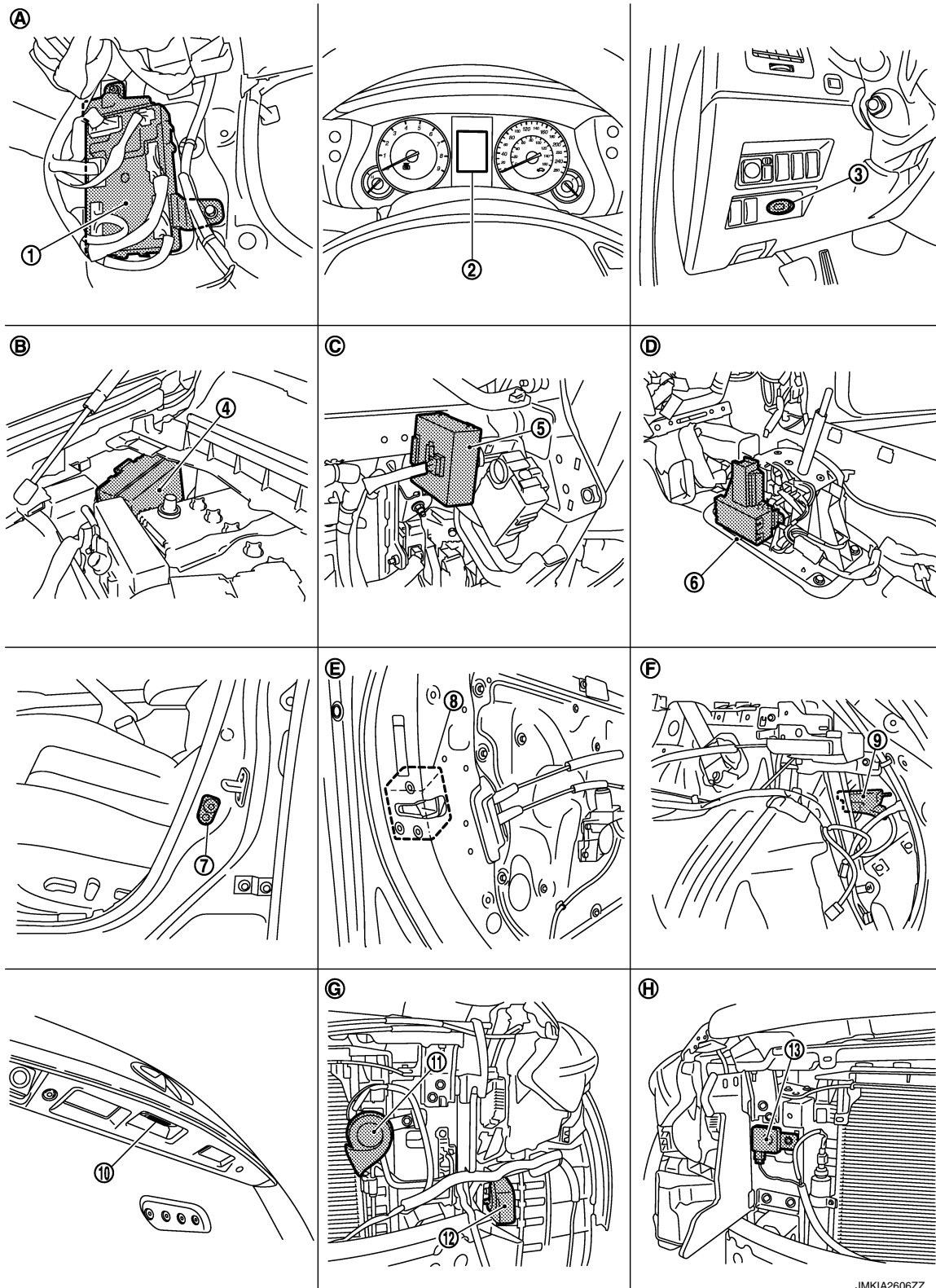
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

WARNING FUNCTION : Component Parts Location

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- | | | |
|------------------------------------|---|--|
| 1. BCM | 2. Combination meter | 3. Key slot |
| 4. IPDM E/R | 5. Remote keyless entry receiver | 6. A/T shift selector (detention switch) |
| 7. Front door switch (driver side) | 8. Front door lock assembly (driver side) | 9. Fuel lid lock actuator |
| 10. Back door opener switch | 11. Horn (low) | 12. Horn (high) |

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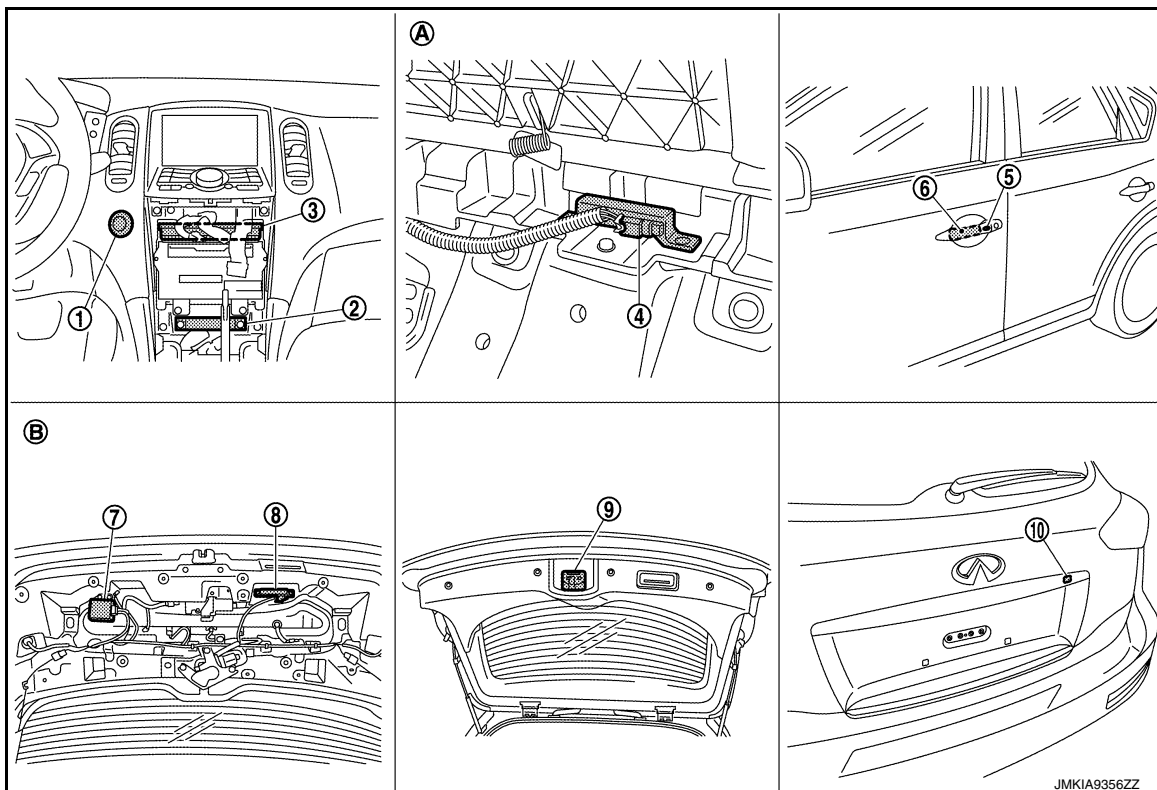
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

13. Intelligent Key warning buzzer

- | | | |
|--|---|---|
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



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|---|---|--|
| 1. Push-button ignition switch (push switch) | 2. Inside key antenna (instrument center) | 3. Unified meter and A/C amp. |
| 4. Inside key antenna (luggage room) | 5. Front outside handle LH (request switch) | 6. Front outside handle LH (outside key antenna) |
| 7. Back door control unit | 8. Outside key antenna (back door) | 9. Back door lock assembly |
| 10. Back door opener request switch | | |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed | |

AUTOMATIC BACK DOOR SYSTEM

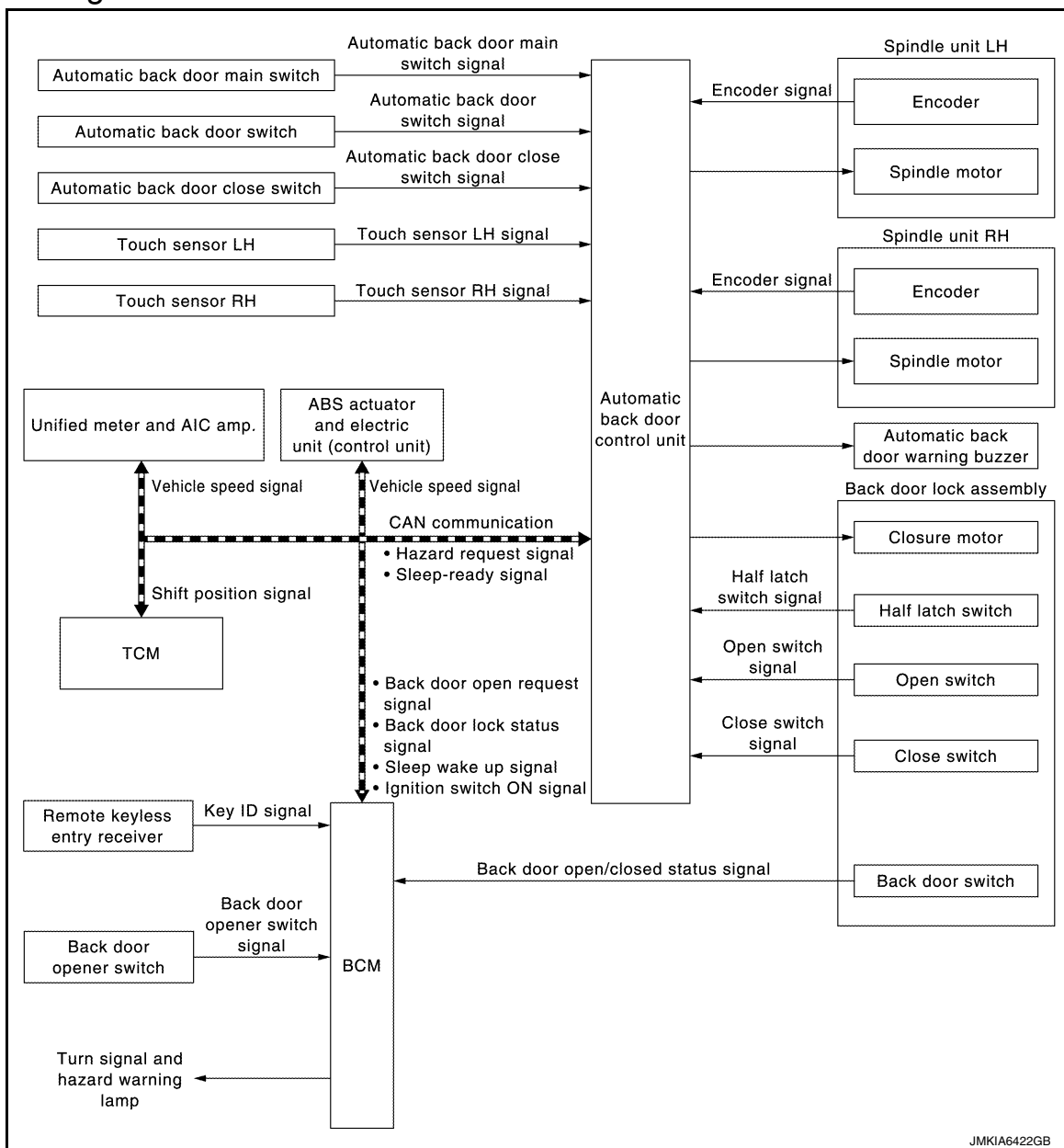
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[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

System Diagram

INFOID:0000000010577582



System Description

INFOID:0000000010577583

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 OPEN/CLOSE FUNCTION

- In the case of the back door fully closed, operate the automatic back door switch, Intelligent Key or back door opener switch with the back door unlock. The back door closure motor releases the latch, then the spindle motor opens the back door to the fully open position. The closure motor reverses to the neutral position simultaneously.
- In the case of the back door fully open, operate the automatic back door switch, Intelligent Key or automatic back door close switch. The spindle motor closes the back door to the half-latch position, then the back door closure motor to the full latch position. Then, the closure motor reverses to the neutral position.

AUTOMATIC OPEN/CLOSE TEMPORARY STOP FUNCTION

AUTOMATIC BACK DOOR SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Automatic open/close temporary stop function temporarily stops the open/close operation by operating back door opener switch during automatic open/close operation or by turning automatic back door main switch OFF.

Back Door Opener Switch Operation

- Automatic open/close operation stops when back door opener switch is operated during automatic open/close operation.
- Back door performs automatic open operation in an open direction when back door opener switch is operated again during automatic open/close temporary stop function operation.
- Back door performs automatic close operation in a close direction when automatic back door close switch is operated during automatic open/close temporary stop function operation.
- Automatic operation is performed again, in the direction that automatic back door switch operated before stopping, when automatic back door switch or Intelligent Key button is operated during automatic open/close temporary stop function operation.

Automatic Back Door Main Switch Operation

- While automatic back door main switch is ON, automatic open/close operation stops when automatic back door main switch is turned OFF during automatic open/close operation.
- While automatic back door main switch is OFF, automatic open/close operation stops when automatic back door main switch is turned ON then turned OFF during automatic open/close operation.
- Back door performs automatic open operation in an open direction when back door opener switch is operated again during auto open/close temporary stop function operation.
- Back door performs automatic close operation in a close direction when automatic back door close switch is operated during automatic open/close temporary stop function operation.
- Automatic operation is performed again, in the direction that automatic back door switch operated before stopping, when automatic back door switch or Intelligent Key button is operated during automatic open/close temporary stop function operation.

BACK DOOR OPEN POSITION SETTING FUNCTION

Back door open position setting function enables a user to set stop position for automatic open operation.

Setting Procedure

Stop position for back door open position setting function can be set by the following procedure.

1. Manually move the back door to a stop setting position.
2. Press and hold the automatic back door close switch for 3 seconds while maintaining the back door position.
3. The switching is complete when the buzzer sounds (pattern D).
4. Fully close the back door.

Cancellation Procedure

Setting of back door open position setting function can be cancelled by the following procedure.

1. Manually move the back door to a fully open position.
2. Press and hold the automatic back door close switch for 3 seconds.
3. The switching is complete when the buzzer sounds (pattern D).
4. Fully close the back door.

BACK DOOR AUTO CLOSURE FUNCTION

Open Function

When back door opener switch is pressed and automatic back door main switch in the OFF position, BCM transmits the back door open request signal to automatic back door control unit via CAN communication, and automatic back door control unit opens back door lock assembly.

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, the closure motor reverses to the neutral position.

WARNING FUNCTION

The warning function is as follows and gives the user warning information using automatic back door warning buzzer and hazard warning lamps.

Buzzer Operation Condition

AUTOMATIC BACK DOOR SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Pattern	Time	Description
	0.75 sec.	Operation start announcement
		Anti-pinch operation start announcement
B	Pi---	2.0 sec.
C	Pi-----.....	Back door fully closed or vehicle is stopped
	2.5 sec.	• Closure function operates when automatic back door main switch is in OFF position • During the closure operation, when touch sensor detects any trapped foreign material, the back door stops halfway
		• Calibration of automatic back door position information is complete • Back door open position setting procedure is complete

ANTI-PINCH FUNCTION

During auto open 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 and encoder pulse 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 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	• 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 automatic open/close temporary stop function after 2 reverse operations regardless of the operation direction	

AUTOMATIC BACK DOOR OPEN/CLOSE OPERATION CONDITION

AUTOMATIC BACK DOOR SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

	Automatic back door switch			Intelligent Key		Automatic back door close switch	Back door opener switch	
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	OFF	—	—		—	ON/ACC/ LOCK	OFF
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	
Vehicle stop condition (open operation) • IGN ON and shift P position → IGN ON and other than P 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 [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	The operation is continued (If the pinch is detected after that, the system switches to the automatic open/close temporary stop function)
	Close operation	Automatic open/close temporary stop 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. 180 sec.)	Inhibit automatic back door operation	
Back door opener switch (OFF → ON)	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	Automatic open/close temporary stop function
	Half latch switch	Operation is possible up to 3 times

TIME CHART FOR AUTOMATIC BACK DOOR SYSTEM

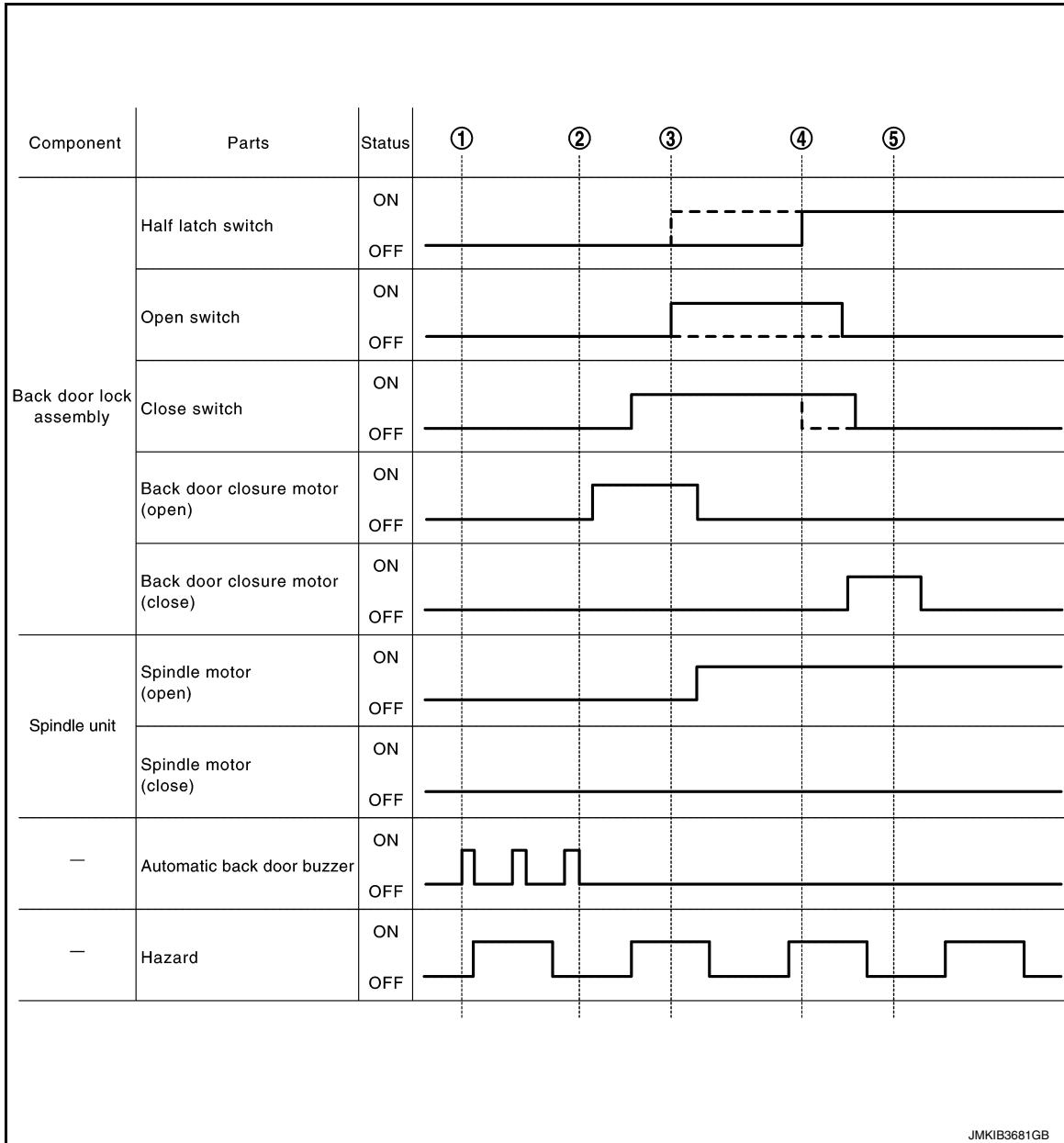
AUTOMATIC BACK DOOR SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

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.



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 spindle motor 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)

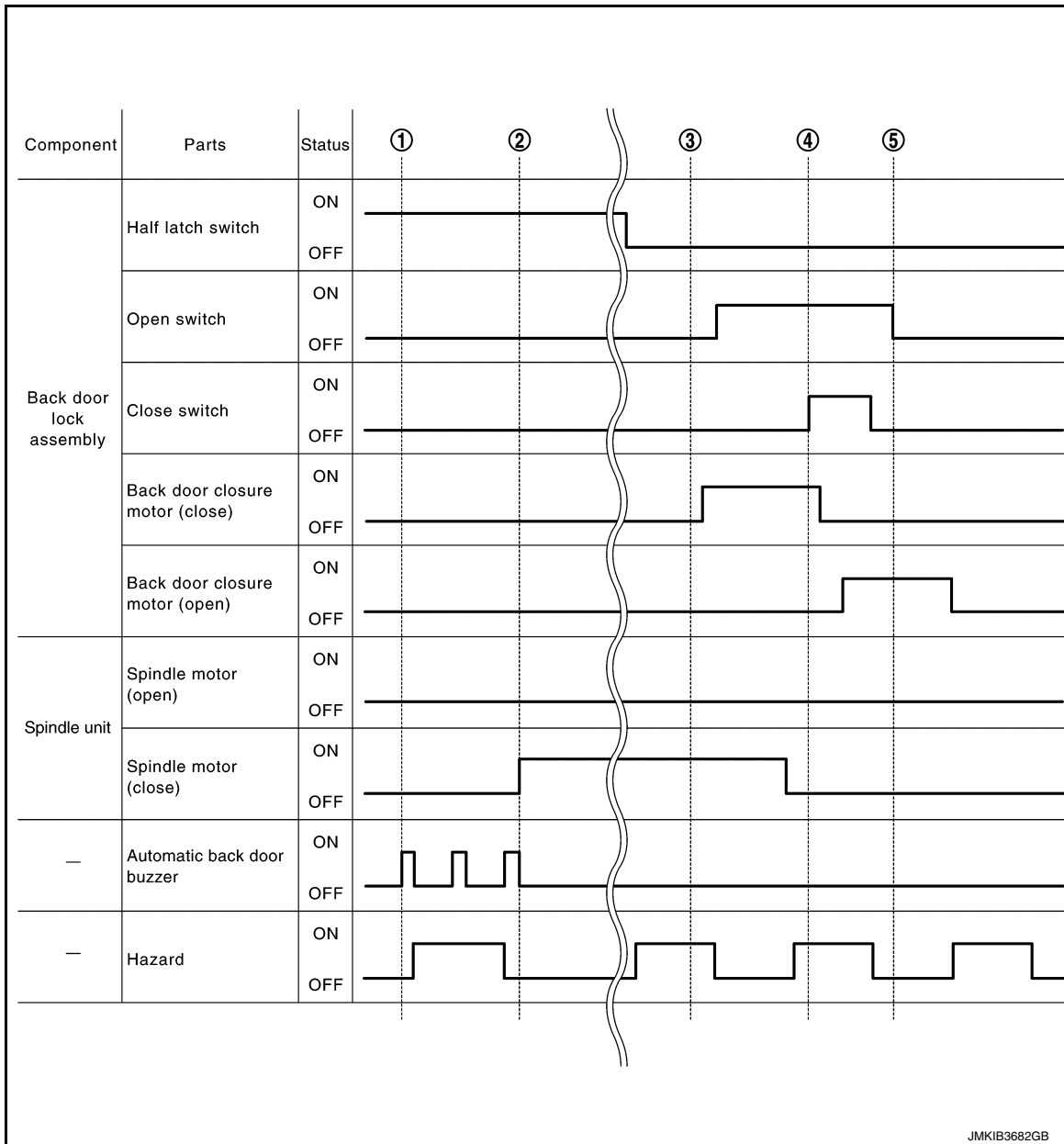
Fully Open to Fully Closed Operation

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

AUTOMATIC BACK DOOR SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]



1. Operates the buzzer and hazard after the operation enable conditions are established
2. After the buzzer (pattern A) stops sounding, operates the spindle motor to perform the back door close operation
3. The back door closure motor performs the close operation in 300 msec. or more after 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

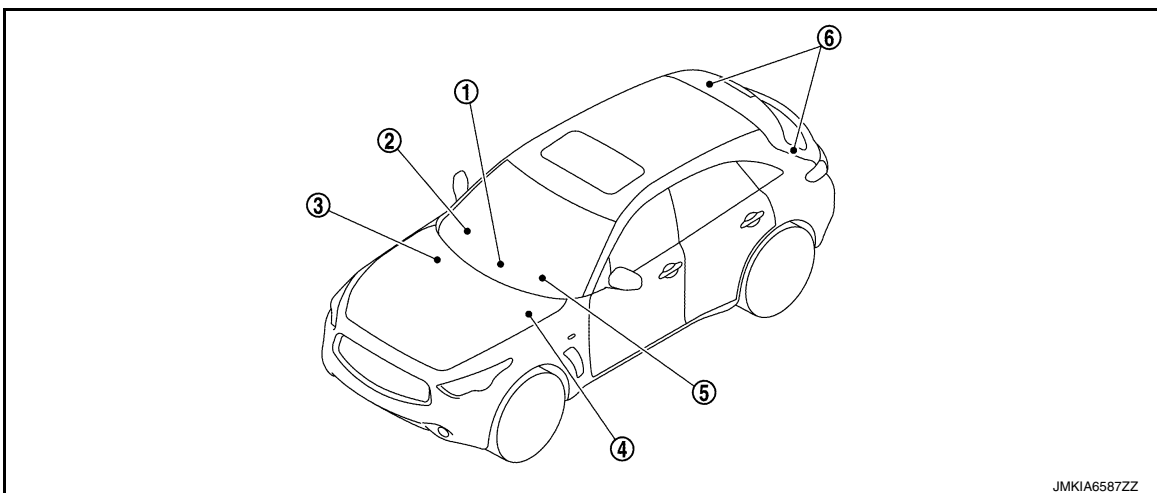
AUTOMATIC BACK DOOR SYSTEM

< SYSTEM DESCRIPTION >

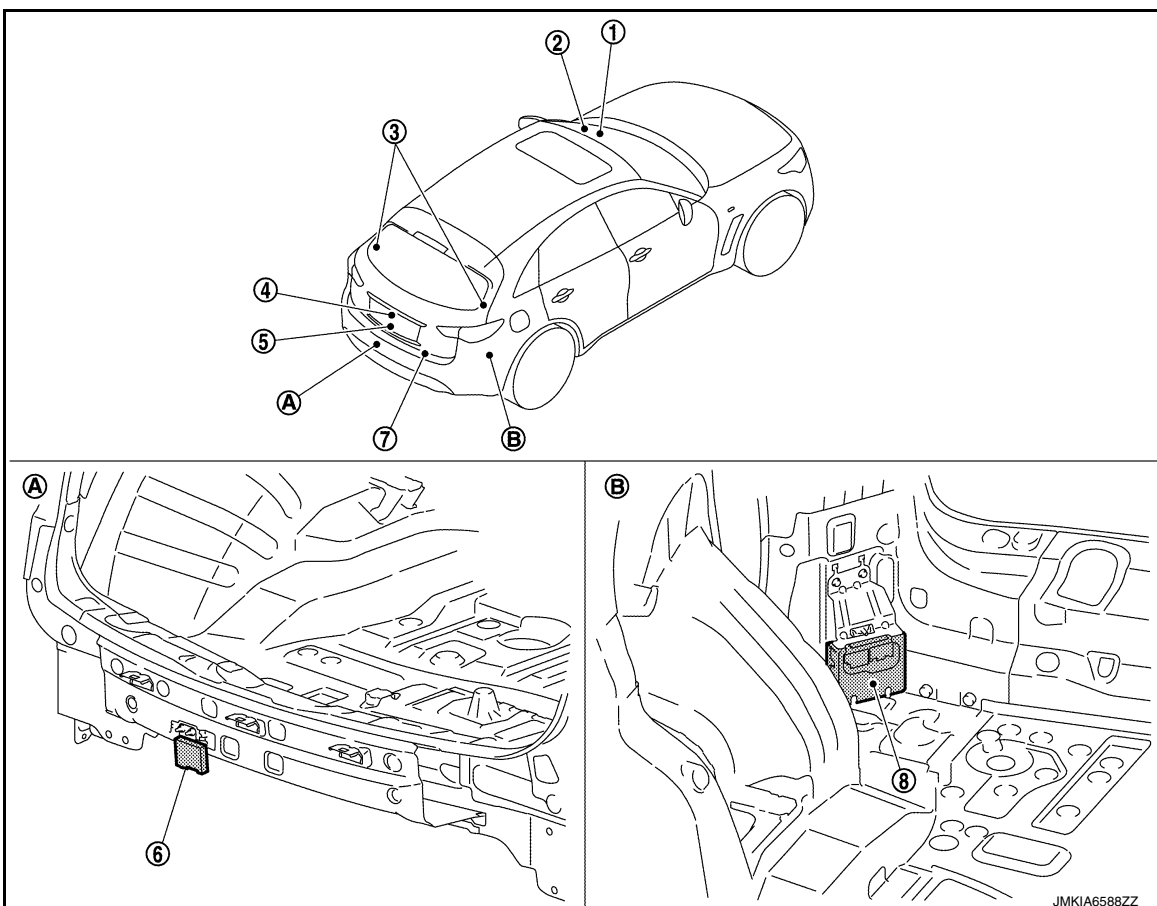
[WITH INTELLIGENT KEY SYSTEM]

Component Parts Location

INFOID:000000010577584



- | | | |
|---|--|---|
| 1. TCM
Refer to TM-13, "Component Parts Location" | 2. Unified meter and A/C amp. | 3. BCM
Refer to BCS-10, "Component Parts Location" |
| 4. ABS actuator and electric unit (control unit)
Refer to BRC-13, "Component Parts Location" | 5. Remote keyless entry receiver
Refer to DLK-21, "INTELLIGENT KEY SYSTEM : Component Parts Location" | 6. Touch sensor |



- | | | |
|-------------------------------|------------------------------------|---------------------------------------|
| 1. Automatic back door switch | 2. Automatic back door main switch | 3. Spindle unit |
| 4. Back door opener switch | 5. Back door lock assembly | 6. Automatic back door warning buzzer |

AUTOMATIC BACK DOOR SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

- | | |
|-------------------------------------|--|
| 7. Automatic back door close switch | 8. Automatic back door control unit |
| A. View with rear bumper removed | B. View with luggage floor spacer (RH) removed |

Component Description

INFOID:0000000010577585

Item	Function
Automatic back door control unit	Controls the automatic back door system
BCM	Transmits and receives signals to the automatic back door control unit
ABS actuator and electric unit	Transmits vehicle speed signal to CAN communication line
Unified meter and A/C amp.	Transmits vehicle speed signal to CAN communication line
Automatic back door warning buzzer	Warns the user of the automatic back door condition and inappropriate operations with the buzzer sounds
Touch sensor LH/RH	During back door close operation, the touch sensor detects any trapped foreign material
Back door opener switch	Detects if back door opener switch is press/release
Back door request switch	Detects if back door request switch is press/release
Automatic back door switch	Detects if automatic back door switch is press/release
Automatic back door main switch	Detects if automatic back door main switch is press/release
Automatic back door close switch	Detects if automatic back door close switch is press/release
Back door lock assembly	Back door closure motor, half latch switch, open switch, close switch and back door switch are installed • Closure motor: Inputs open/close signal from automatic back door control unit and activates the back door auto closure operation • Half latch switch: Starts the closure motor close operation • Open switch: Stops the closure motor open operation • Close switch: Stops the closure motor close operation • Back door switch: Inputs back door open/ close condition to BCM
Spindle unit	Encoder and spindle motor are installed • Encoder: 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 • Spindle motor: Inputs open/close signal from automatic back door control unit and activates the automatic back door open/close operation

INTEGRATED HOMELINK TRANSMITTER

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER

Component Description

INFOID:0000000010577586

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

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

DLK

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010577587

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

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

NOTE:

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

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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 • 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:0000000010577588

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. - 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. - MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF - MODE 2: All doors are unlocked when shifting the selector lever from any position other than the P to P position - MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF - MODE 4: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function mode can be selected from the following in this mode. - Off: non-operational - Unlock Only: door unlock operation only - Lock Only: door lock operation only - Lock/Unlock: lock/unlock operation

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)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation. • The all door lock actuators are locked when "ALL LCK" on CONSULT screen is touched. • The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched. • The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT screen is touched. • The door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT screen is touched. • 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:000000010577589

WORK SUPPORT

Monitor item	Description
REMO CONT ID CONFIR	It can be checked whether Intelligent Key ID code is registered or not in this mode.
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 min. • MODE 2: 5 min. • MODE 3: 30 sec. • MODE 4: 2 min.
WELCOME LIGHT OP SET	Welcome light function mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
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 (WITH) or not operate (WITHOUT) in this mode.
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by back door request switch can be changed to operate (ON) or not operate (OFF) in this mode.
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following in this mode. • MODE 1: 0.5 sec. • MODE 2: Non-operational • MODE 3: 1.5 sec.
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following in this mode. • MODE 1: 3 sec. • MODE 2: Non-operational • MODE 3: 5 sec.
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be supported.
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode.
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode.
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following in this mode. • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operational
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following in this mode. • Horn chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • OFF: Non-operational

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor item	Description
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) in this mode.
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. • 70 msec. • 100 msec. • 200 msec.
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) in this mode.
WELCOME LIGHT SELECT	Welcome light function mode can be selected from the following in this mode. • Puddle Lamp (ON/OFF) • Room Lamp (ON/OFF) • Head and Tail Lamps (This item is displayed, but cannot be supported.) • Outside Handle (This item is displayed, but cannot be supported.)

SELF-DIAG RESULT

Refer to [BCS-88, "DTC Index"](#).

DATA MONITOR

NOTE:

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

Monitor Item	Condition
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -BD/TR	Indicates [ON/OFF] condition of 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.
CLUCH SW	NOTE: This item is displayed, but cannot be monitored.
BRAKE SW 1	Indicates [ON/OFF] condition of brake switch.
DETE/CANCL SW	Indicates [ON/OFF] condition of the P position.
SFT PN/N SW	Indicates [ON/OFF] condition of the P or N position.
S/L -LOCK	NOTE: This item is displayed, but cannot be monitored.
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored.
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be monitored.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.
DETE SW -IPDM	Indicates [ON/OFF] condition of the P position.
SFT PN -IPDM	Indicates [ON/OFF] condition of the P or N position.
SFT P -MET	Indicates [ON/OFF] condition of the P position.
SFT N -MET	Indicates [ON/OFF] condition of the N position.
ENGINE STATE	Indicates [STOP/START/CRANK/RUN] condition of engine states.
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored.
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored.	A
VEH SPEED 1	Displays the vehicle speed signal received from unified meter and A/C amp. by numerical value [Km/h].	B
VEH SPEED 2	Displays the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h].	C
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.	
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status.	
ID OK FLAG	Indicates [SET/RESET] condition of key ID.	D
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.	
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored.	E
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.	
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored.	F
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.	
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.	G
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored.	
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.	H
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.	
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.	
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical values starts changing.	I
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.	J

ACTIVE TEST

Test item	Description	
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp is activated when "ON" on CONSULT screen is touched.	DLK
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down is activated when "ON" on CONSULT screen is touched.	L
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer is activated when "ON" on CONSULT screen is touched.	M
INSIDE BUZZER	This test is able to check warning chime in combination meter operation. • Takes away warning chime sounds when "TAKE OUT" on CONSULT screen is touched. • Key warning chime sounds when "KEY" on CONSULT screen is touched. • The P position warning chime sounds when "KNOB" on CONSULT screen is touched.	N
INDICATOR	This test is able to check warning lamp operation. • "KEY" Warning lamp illuminates when "RED ON" on CONSULT screen is touched. • The "KEY" Warning lamp blinks when "RED IND" on CONSULT screen is touched.	O
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp is activated when "ON" on CONSULT screen is touched.	P

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Test item	Description
LCD	This test is able to check meter display information • Engine start information displays when "BP N" on CONSULT screen is touched. • Engine start information displays when "BP I" on CONSULT screen is touched. • Key ID warning displays when "ID NG" on CONSULT screen is touched. • ROTAT: This item is displayed, but cannot be tasted. • The 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 displays when "OUTKY" on CONSULT screen is touched. • The OFF position warning displays when "LK WN" on CONSULT screen is touched.
TRUNK/GLASS HATCH	NOTE: This item is displayed, but cannot be used.
FLASHER	This test is able to check security hazard lamp operation. The hazard lamps is activated when "LH" or "RH" on CONSULT screen is touched.
HORN	This test is able to check horn operation. The horn will be activated when "ON" on CONSULT screen is touched.
P RANGE	This test is able to check A/T shift selector power supply A/T shift selector power is supplied when "ON" on CONSULT screen is touched.
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched.
LOCK INDICATOR	This test is able to check indicator in push-ignition switch operation. Indicator in push-ignition switch (LOCK) illuminates when "ON" on CONSULT screen is touched.
ACC INDICATOR	This test is able to check indicator in push-ignition switch operation. Indicator in push-ignition switch (ACC) 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-ignition switch (ON) illuminates when "ON" on CONSULT screen is touched.
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination blinks when "ON" on CONSULT screen is touched.

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:0000000010577590

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

NOTE:

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

Monitor Item	Contents
PUSH SW	Indicates [ON/OFF] condition of push-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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Contents
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	NOTE: This item is displayed, but cannot be used.

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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:0000000010577591

APPLICATION ITEM

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

Diagnosis mode	Function Description
Work Support	Changes the setting for system function
Self Diagnostic Result	Displays the diagnosis results judged by automatic back door control unit
CAN Diag Support Monitor	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	Description
SPINDLE SENSOR LH	Indicates [Pulse] condition of encoder LH
SPINDLE LH SPEED	Indicates [mm/s] condition of spindle motor LH operation speed
SPINDLE MOTOR LH DUTY	Indicates [%] condition of spindle motor LH duty
VHCL SPEED MTR	Display the vehicle speed signal received from unified meter and A/C amp. by numerical value [km/h]
VHCL SPEED ABS	Display the vehicle speed signal received from ABS actuator and electrical unit by numerical value [km/h]
MAIN SW	Indicates [ON/OFF] condition of automatic back door main switch
AUTO BD SW	Indicates [ON/OFF] condition of automatic back door switch
BK DOOR CL SW	Indicates [ON/OFF] condition of automatic back door close switch
BACK DOOR LOCK STATUS	Indicates [ON/OFF] condition of back door lock status
OPEN SW	Indicates [ON/OFF] condition of open switch
CLOSE SW	Indicates [ON/OFF] condition of close switch
HALF LATCH SW	Indicates [ON/OFF] condition of half latch switch
TOUCH SEN RH	Indicates [ON/OFF/OPEN] condition of touch sensor RH
TOUCH SEN LH	Indicates [ON/OFF/OPEN] condition of touch sensor LH
P RANGE IND	Indicates [ON/OFF] condition of P range signal from unified meter and A/C amp.
RKE REQ	Indicates [OFF/MOVE/REV] condition of remote keyless entry signal from BCM
IGN SW	Indicates [ON/OFF] condition of IGN power supply
SPINDLE LH ENCODER A	Indicates [LO/HI] condition of encoder signal A from encoder LH
SPINDLE LH ENCODER B	Indicates [LO/HI] condition of encoder signal B from encoder LH
UNLOCK SEN BD	NOTE: This item is displayed, but cannot be monitored
DESTINATION	Indicates [Type1/Type2/Type3/Type4] specification of destination of the automatic back door system
AUTO BCK DR POSI INITIAL	Indicates [YET/DONE] condition of [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]
AUTO BCK DR POSI LEARN	Indicates [YET/DONE] condition of [ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL]
SPINDLE SENSOR RH	Indicates [Pulse] condition of encoder RH

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Description
SPINDLE RH SPEED	Indicates [mm/s] condition of spindle motor RH operation speed
SPINDLE MOTOR RH DUTY	Indicates [%] condition of spindle motor RH duty
SPINDLE RH ENCODER A	Indicates [LO/HI] condition of encoder signal A from encoder RH
SPINDLE RH ENCODER B	Indicates [LO/HI] condition of encoder signal B from encoder RH
TRANSMISSION TYPE	Indicates [MT/AT/CVT] condition of transmission type

WORK SUPPORT

Monitor Item	Description
RESET AUTO BACK DOOR STATUS	This item is able to calibration of automatic back door position information

SELF-DIAG RESULT

Refer to [DLK-251, "DTC Index"](#).

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000010577592

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-35, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:0000000010577593

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000010577594

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-25, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-47, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000010577595

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000010577596

1. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

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

>> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

DLK

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2401 IGNITION POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000010577597

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2401	IGN OPEN	Automatic back door control unit cannot detect ignition switch ON signal via CAN communication with BCM	• BCM • Automatic back door control unit • CAN communication system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

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

Diagnosis Procedure

INFOID:0000000010577598

1.CHECK BCM OUTPUT SIGNAL

1. Select "IPDM E/R" using CONSULT.
2. Select "IGN RLY1-REQ" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
IGN RLY1-REQ	Ignition switch	ON	On
		OFF	Off

Is the inspection result normal?

- YES >> Replace automatic back door control unit.
NO >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2409 HALF LATCH SWITCH

DTC Logic

INFOID:0000000010577599

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2409	HALF LATCH SW	Automatic back door control unit detects a malfunction of half latch switch during automatic operation of back door	- Entry of foreign materials to back door lock assembly - Back door mechanism - Automatic back door control unit - Half latch switch - Harness or connectors

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate automatic back door.
- Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-71, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010577600

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

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

3.CHECK HALF LATCH SWITCH MONITOR ITEM

- Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
- Select "HALF LATCH SW" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

- YES >> GO TO 8.
NO >> GO TO 4.

4.CHECK HALF LATCH SWITCH INPUT SIGNAL

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

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+) Back door lock assembly		(-)	Voltage (Approx.)
Connector	Terminal		
D107	6	Ground	16 – 8 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.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.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B207	3	D107	6	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	3		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.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		
D107	8		Existed

Is the inspection result normal?

YES >> GO TO 7.

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

7.CHECK HALF LATCH SWITCH

Refer to [DLK-72, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly.

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577601

COMPONENT INSPECTION

1.CHECK SWITCH

1. Turn ignition switch OFF.

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. Disconnect back door lock assembly connector.
3. Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity
Terminal				
4	8	Back door lock	Open	Existed
			Fully closed/Half latch	Not existed
5			Fully close	Existed
			Open/Half latch	Not existed
6			Open	Existed
			Fully closed/Half latch	Not existed
7		Back door switch	On	Existed
			Off	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

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DLK

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2416 TOUCH SENSOR RH

DTC Logic

INFOID:0000000010577602

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2416	TOUCH SEN R OPEN	Automatic back door control unit detects a malfunction of touch sensor RH during automatic operation of back door	- Improper installation of touch sensor - Touch sensor RH - Harness or connectors - Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

YES >> Refer to [DLK-74. "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010577603

1.CHECK INSTALLATION OF TOUCH SENSOR RH

Check that touch sensor RH is installed normally.

Refer to [DLK-351, "TOUCH SENSOR : Removal and Installation"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-351, "TOUCH SENSOR : Removal and Installation"](#).

2.CHECK TOUCH SENSOR MONITOR ITEM

- Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
- Select "TOUCH SEN RH" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 3.

3.CHECK TOUCH SENSOR INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between touch sensor RH harness connector and automatic back door control unit harness connector.

(+) Touch sensor RH		(-) Automatic back door control unit		Condition	Voltage (Approx.)
Connector	Terminal	Connector	Terminal		
D126	1	B207	13	Touch sensor RH	Detect obstruction
					Other than above
					1.8 – 5 V
					2.72 – 7.27 V

B2416 TOUCH SENSOR RH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK TOUCH SENSOR RH CIRCUIT

1. Disconnect automatic back door control unit and touch sensor RH 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	
B207	1	D126	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	1		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR RH GROND CIRCUIT

1. Disconnect automatic back door control unit and touch sensor RH 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	
B207	13	D126	2	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	13		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK TOUCH SENSOR RH GROND CIRCUIT 2

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

Automatic back door control unit		Ground	Voltage (Approx.)
Connector	Terminal		
B207	13		0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

7.CHECK TOUCH SENSOR RH

Refer to [DLK-76, "Component Inspection"](#).

Is the inspection result normal?

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> GO TO 8.
NO >> Replace touch sensor RH.

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577604

1.CHECK TOUCH SENSOR RH

1. Turn ignition switch OFF.
2. Disconnect touch sensor RH connector.
3. Check resistance between touch sensor RH terminals.

Touch sensor RH		Condition		Resistance (Approx.)
Terminal				
1	2	Touch sensor RH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace touch sensor RH.

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2417 TOUCH SENSOR LH

DTC Logic

INFOID:0000000010577605

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2417	TOUCH SEN L OPEN	Automatic back door control unit detects a malfunction of touch sensor LH during automatic operation of back door	- Improper installation of touch sensor - Touch sensor LH - Harness or connectors - Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-77, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010577606

1.CHECK INSTALLATION OF TOUCH SENSOR LH

Check that touch sensor LH is installed normally.

Refer to [DLK-351, "TOUCH SENSOR : Removal and Installation"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [DLK-351, "TOUCH SENSOR : Removal and Installation"](#).

2.CHECK TOUCH SENSOR MONITOR ITEM

- Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
- Select "TOUCH SEN LH" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

- YES >> GO TO 8.
NO >> GO TO 3.

3.CHECK TOUCH SENSOR INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between touch sensor LH harness connector and automatic back door control unit harness connector.

(+)		(−)		Condition		Voltage (Approx.)
Touch sensor LH		Automatic back door control unit				
Connector	Terminal	Connector	Terminal			
D125	1	B207	13	Touch sensor LH	Detect obstruction	1.8 – 5 V
					Other than above	2.72 – 7.27 V

B2417 TOUCH SENSOR LH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK TOUCH SENSOR LH CIRCUIT

1. Disconnect automatic back door control unit and touch sensor LH connector.
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	
B207	2	D125	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	2		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR LH GROND CIRCUIT

1. Disconnect automatic back door control unit and touch sensor LH connector.
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	
B207	13	D125	2	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	13		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK TOUCH SENSOR LH GROND CIRCUIT 2

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

Automatic back door control unit		Ground	Voltage (Approx.)
Connector	Terminal		
B207	13		0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

7.CHECK TOUCH SENSOR LH

Refer to [DLK-76, "Component Inspection"](#).

Is the inspection result normal?

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> GO TO 8.
NO >> Replace touch sensor LH.

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577607

1.CHECK TOUCH SENSOR LH

1. Turn ignition switch OFF.
2. Disconnect touch sensor LH connector.
3. Check resistance between touch sensor LH terminals.

Touch sensor LH		Condition		Resistance (Approx.)
Terminal				
1	2	Touch sensor LH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace touch sensor LH.

DLK

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2419 OPEN SWITCH

DTC Logic

INFOID:0000000010577608

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2419	OPEN SW	Automatic back door control unit detects a malfunction of open switch during automatic operation of back door	• Entry of foreign materials to back door lock assembly • Back door mechanism • Automatic back door control unit • Open switch • Harness or connectors

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-80, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010577609

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

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

3.CHECK OPEN SWITCH SIGNAL

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "OPEN SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

- YES >> GO TO 8.
NO >> GO TO 4.

4.CHECK OPEN SWITCH INPUT 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.

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D107	4	Ground	16 – 8 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.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	
B207	11	D107	4	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	11		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK OPEN SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D107	8		Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK OPEN SWITCH

Refer to [DLK-72. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly.

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-47. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577610

COMPONENT INSPECTION

1.CHECK SWITCH

1. Turn ignition switch OFF.

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. Disconnect back door lock assembly connector.
3. Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity
Terminal				
4	8	Back door lock	Open	Existed
			Fully closed/Half latch	Not existed
5			Fully close	Existed
			Open/Half latch	Not existed
6			Open	Existed
			Fully closed/Half latch	Not existed
7		Back door switch	On	Existed
			Off	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2420 CLOSE SWITCH

DTC Logic

INFOID:0000000010577611

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2420	CLOSE SW	Automatic back door control unit detects a malfunction of close switch during automatic operation of back door	• Entry of foreign materials to back door lock assembly • Back door mechanism • Automatic back door control unit • Close switch • Harness or connectors

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

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

Diagnosis Procedure

INFOID:0000000010577612

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

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

3.CHECK CLOSE SWITCH SIGNAL

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "CLOSE SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

- YES >> GO TO 8.
NO >> GO TO 4.

4.CHECK CLOSE SWITCH INPUT 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.

B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D107	5	Ground	16 – 8 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.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	
B207	5	D107	5	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	5		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK CLOSE SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D107	8		Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK CLOSE SWITCH

Refer to [DLK-72, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly.

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577613

COMPONENT INSPECTION

1.CHECK SWITCH

1. Turn ignition switch OFF.

B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. Disconnect back door lock assembly.
3. Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity
Terminal				
4	8	Back door lock	Open	Existed
			Fully closed/Half latch	Not existed
5			Fully close	Existed
			Open/Half latch	Not existed
6			Open	Existed
			Fully closed/Half latch	Not existed
7		Back door switch	On	Existed
			Off	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

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DLK

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2422 BACK DOOR STATE

DTC Logic

INFOID:0000000010577614

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2422	BACK DOOR STATE	When the automatic back door control unit detects back door position malfunction according to the pulse signal	• Improper installation of back door assembly • [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete • Back door mechanism • Encoder • Automatic back door control unit • Harness or connectors

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

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

Diagnosis Procedure

INFOID:0000000010577615

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-14, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
NO >> INSPECTION END

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-330, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

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

3.CHECK ENCODER SIGNAL

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "SPINDLE SENSOR LH" and "SPINDLE SENSOR RH" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Status
SPINDLE SENSOR LH	0 – 65535
SPINDLE SENSOR RH	0 – 65535

Is the difference between the 2 monitor items 10 or more?

- YES >> GO TO 4.

B2422 BACK DOOR STATE

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).

4.CHECK ENCODER POWER SUPPLY

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

(+)		Terminal	(–)	Voltage (Approx.)
Spindle unit				
Connector				
LH	B95	3	Ground	16.75 – 6 V
RH	B262			

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK ENCODER CIRCUIT

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

Automatic back door control unit		Spindle unit		Continuity
Connector	Terminal	Connector	Terminal	
B207	19	LH	B95	Existed
	20	RH	B262	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	19		Not existed
	20		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

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

Automatic back door control unit		Spindle unit			Continuity
Connector	Terminal	Connector		Terminal	
B207	6	LH	B95	4	Existed
	7			5	
	8	RH	B262	4	
	9			5	

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

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	6		Not existed
	7		
	8		
	9		

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK ENCODER CIRCUIT 3

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

Automatic back door control unit		Ground	Voltage (Approx.)
Connector	Terminal		
B207	21		0 V

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

DTC Logic

INFOID:0000000010577616

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2423	ABD MTR TIME OUT	When the automatic back door control unit and spindle motor operate in the same direction for 180 seconds or more continuously	- Spindle motor - Automatic back door control unit - Harness or connector

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate automatic back door.
- Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-89, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010577617

1.ERASE DTC

- At least 180 seconds are passed after automatic back door operation is inhibited.
- Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
NO >> INSPECTION END

2.CHECK SPINDLE MOTOR CIRCUIT

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

DLK

Automatic back door control unit		Spindle unit		Continuity
Connector	Terminal	Connector	Terminal	
B208	27	LH	B94	1
	34			2
	29	RH	B261	1
	36			2

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B208	27		Not existed
	29		
	34		
	36		

Is the inspection result normal?

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).
NO >> Repair or replace harness.

B2426 ENCODER

DTC Logic

INFOID:0000000010577618

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2426	SPINDLE SENSOR LH	When the automatic back door control unit can not receive the pulse signal from the encoder just after starting the open/close operation	• Improper installation of back door assembly • [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete • Back door mechanism • Automatic back door control unit • Encoder • Harness or connectors

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-158, "RH : Diagnosis Procedure"](#).
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010577619

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-14, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
- NO >> INSPECTION END

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-330, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

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

3.CHECK ENCODER SIGNAL

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "SPINDLE LH ENCODER A" and "SPINDLE LH ENCODER B" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Monitor item	Condition		Status
SPINDLE LH ENCODER A	Back door	Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO
SPINDLE LH ENCODER B		Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

4.CHECK ENCODER POWER SUPPLY

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

(+) Spindle unit LH		(-)	Voltage (Approx.)
Connector	Terminal		
B95	3	Ground	16.75 – 6 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK ENCODER CIRCUIT

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

Automatic back door control unit		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B207	19	B95	3	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	19		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

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

Automatic back door control unit		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B207	6	B95	4	Existed
	7		5	

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

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	6		Not existed
	7		

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK ENCODER CIRCUIT 3

1. Connect automatic back door control unit and spindle unit LH connector.
2. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Voltage (Approx.)
Connector	Terminal		
B207	21		0 V

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

B2427 ENCODER

DTC Logic

INFOID:0000000010577620

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2427	SPINDLE SENSOR RH	When the automatic back door control unit can not receive the pulse signal from the encoder just after starting the open/close operation	• Improper installation of back door assembly • [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete • Back door mechanism • Automatic back door control unit • Encoder • Harness or connectors

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?YES >> Refer to [DLK-158. "RH : Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010577621

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-14. "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 2.

NO >> INSPECTION END

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-330. "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK ENCODER SIGNAL

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "SPINDLE RH ENCODER A" and "SPINDLE RH ENCODER B" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Monitor item	Condition		Status
SPINDLE RH ENCODER A	Back door	Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO
SPINDLE RH ENCODER B		Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

4.CHECK ENCODER POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect spindle unit RH connector.
- Check voltage between spindle unit RH harness connector and ground.

(+)		(-)	Voltage (Approx.)
Spindle unit RH			
Connector	Terminal		
B262	3	Ground	16.75 – 6 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK ENCODER CIRCUIT

- Disconnect automatic back door control unit connector.
- Check continuity between automatic back door control unit harness connector and spindle unit RH harness connector.

Automatic back door control unit		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B207	20	B262	3	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	20		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

- Disconnect automatic back door control unit connector.
- Check continuity between automatic back door control unit harness connector and spindle unit RH harness connector.

Automatic back door control unit		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B207	8	B262	4	Existed
	9		5	

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

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	8		Not existed
	9		

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK ENCODER CIRCUIT 3

1. Connect automatic back door control unit spindle unit RH connector.
2. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Voltage (Approx.)
Connector	Terminal		
B207	21		0 V

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

8. CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

DTC Logic

INFOID:0000000010577622

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2428	AUTO BACK DR CNT UNIT	Automatic back door control unit detected CPU malfunction	Automatic back door control unit

Diagnosis Procedure

INFOID:0000000010577623

1. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

When DTC [B2428] is detected, replace automatic back door control unit.

>> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

DLK

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B242A CLOSURE CONDITION

DTC Logic

INFOID:0000000010577624

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B242A	CLSR CONDITION	Automatic back door control unit detects malfunctions of open switch, close switch and half latch switch when auto closure of back door operates	• Entry of foreign materials to back door lock assembly • Back door mechanism • Automatic back door control unit • Open switch • Close switch • Half latch switch • Harness or connectors

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate back door auto closure operation.
3. Check "Self Diagnostic Result" mode of "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-158, "RH : Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010577625

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

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

3.CHECK MONITOR ITEM

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "HALF LATCH SW", "OPEN SW" and "CLOSE SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

- YES >> GO TO 8.
NO >> GO TO 4.

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

4.CHECK SWITCH INPUT 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 (Approx.)
Back door lock assembly			
Connector	Terminal		
D107	4	Ground	16 – 8 V
	5		
	6		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK 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	
B207	3	D107	6	Existed
	5		5	
	11		4	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	3		Not existed
	5		
	11		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D107	8		Existed

Is the inspection result normal?

YES >> GO TO 7.

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

7.CHECK SWITCH

Refer to [DLK-72. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 8.

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Replace back door lock assembly.

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577626

COMPONENT INSPECTION

1.CHECK SWITCH

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

Back door lock assembly		Condition		Continuity
Terminal				
4	8	Back door lock	Open	Existed
			Fully closed/Half latch	Not existed
5			Fully close	Existed
			Open/Half latch	Not existed
6			Open	Existed
			Fully closed/Half latch	Not existed
7		Back door switch	On	Existed
		Off	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2621 INSIDE ANTENNA

Description

INFOID:0000000010577627

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

DTC Logic

INFOID:0000000010577628

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

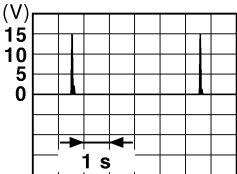
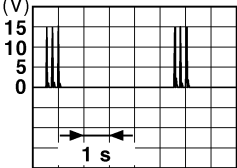
- YES >> Refer to [DLK-101, "Diagnosis Procedure"](#).
NO >> Inside key antenna (instrument center) is OK.

Diagnosis Procedure

INFOID:0000000010577629

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM			(-)	Condition	Signal (Reference value)
Connector		Terminal			
M122	Instrument center	78, 79	Ground	Place Intelligent Key inside the vehicle.	 JMKIA0062GB
				Place Intelligent Key outside the vehicle.	 JMKIA0063GB

Is the inspection result normal?

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

2.CHECK INSIDE KEY ANTENNA CIRCUIT

- Disconnect BCM and inside key antenna connector.

A
B
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DLK

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

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

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	Instrument center	78	Not existed
		79	

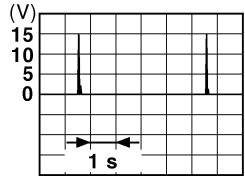
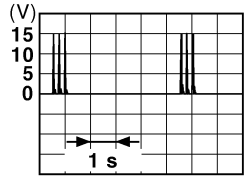
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (instrument center). (New antenna or another antenna)
- Connect BCM and inside key antenna (instrument center) connector.
- Check signal between BCM harness connector and ground using an oscilloscope.

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M122	Instrument center	78, 79	Ground	 JMKIA0062GB
			Place Intelligent Key outside the vehicle.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center). Refer to [DLK-357, "INSTRUMENT CENTER : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2623 INSIDE ANTENNA

Description

INFOID:0000000010577630

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

DTC Logic

INFOID:0000000010577631

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

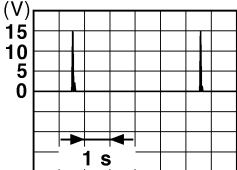
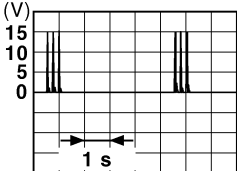
- YES >> Refer to [DLK-103, "Diagnosis Procedure"](#).
NO >> Inside key antenna (luggage room) is OK.

Diagnosis Procedure

INFOID:0000000010577632

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

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

Is the inspection result normal?

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

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

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	B228	2	Existed
	35		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	Luggage room		Not existed

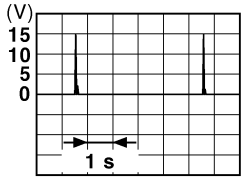
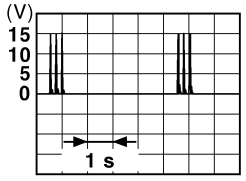
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

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

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room). Refer to [DLK-357, "LUGGAGE ROOM : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "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:0000000010577633

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		
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:0000000010577634

1.CHECK FUSE, FUSIBLE LINK AND CIRCUIT BREAKER

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

Fuse No.	Signal name
Q (30A)	Battery power supply

Is the fuse fusing?

A
B
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J
DLK
L
M
N
O
P

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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		(-)	Voltage (Approx.)
Connector	Terminal		
B208	25	Ground	16.75 – 8.5 V

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		
B208	32		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR SWITCH

Description

INFOID:0000000010577635

Detects door open/close condition.

Component Function Check

INFOID:0000000010577636

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 using CONSULT.

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

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-107, "Diagnosis Procedure"](#).

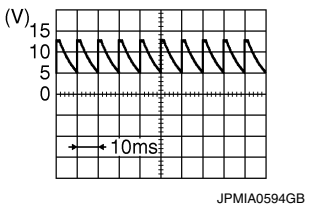
Diagnosis Procedure

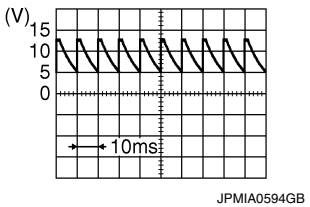
INFOID:0000000010577637

1.CHECK DOOR SWITCH INPUT SIGNAL

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

(+)Door switch		(-)	Signal (Reference value)
Connector	Terminal		
Driver side	B16	2	Ground
Passenger side	B216	2	Ground

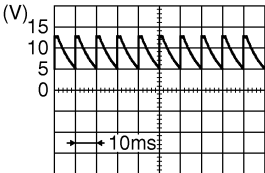
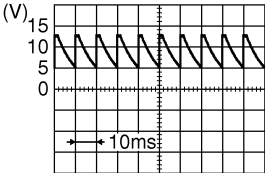




DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)			(-)	Signal (Reference value)
Door switch				
Connector	Terminal			
Rear LH	B23	2		 JPMIA0594GB
Rear RH	B223	2		 JPMIA0594GB

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	B16 (Driver side)	2	Existed
	124	B216 (Passenger side)		
M121	69	B23 (Rear LH)		
	68	B223 (Rear RH)		

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	150 (Driver side)		Not existed
	124 (Passenger side)		
M121	69 (Rear LH)		
	68 (Rear RH)		

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-93, "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		
D122	8		Existed

Is the inspection result normal?

DOOR SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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

4.CHECK DOOR SWITCH

Refer to [DLK-109. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace malfunctioning door switch.
• Door switch: Refer to [DLK-356. "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577638

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	2	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-356. "Removal and Installation"](#).
• Back door lock assembly (back door switch): Refer to [DLK-349. "BACK DOOR LOCK : Removal and Installation"](#).

DLK

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR SWITCH

Component Function Check

INFOID:0000000010577639

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR SW-BK", in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-BK	Back door	Open	On
		Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-110. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577640

1.CHECK BACK DOOR SWITCH INPUT 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.

(+) Back door lock assembly		(-)	Voltage (Approx.)
Connector	Terminal		
D107	7	Ground	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR SWITCH CIRCUIT

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

Back door lock assembly		BCM		Continuity
Connector	Terminal	Connector	Terminal	
D107	7	M121	66	Existed

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D107	7		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-93. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D107	8		Existed

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR SWITCH

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577641

1.CHECK BACK DOOR SWITCH

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

Back door lock assembly		Condition		Continuity
Terminal				
7	Ground part of door switch	Door switch	Pressed	Not existed
			Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

DLK

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000010577642

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000010577643

1.CHECK FUNCTION

With CONSULT

Check ("CDL LOCK SW ", "CDL UNLOCK SW") in Data Monitor mode using 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-112, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010577644

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 >> Refer to [PWC-103, "Diagnosis Procedure"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000010577645

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000010577646

1.CHECK FUNCTION

With CONSULT

Check ("CDL LOCK SW ", "CDL UNLOCK SW") in Data Monitor mode using 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-112, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000010577647

1.CHECK POWER WINDOW SWITCH

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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 >> Refer to [PWC-104, "WHEN POWER WINDOW MAIN SWITCH IS OPERATED : Diagnosis Procedure"](#).

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000010577648

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000010577649

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-114, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010577650

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			
D15	1	Ground	Lock	0 → Battery voltage → 0
	2		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side). Refer to [DLK-317, "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	D15	1	Existed
	9		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	8		Not existed
	9		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).

NO >> Repair or replace harness.

PASSENGER SIDE

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

PASSENGER SIDE : Description

INFOID:000000010577651

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000010577652

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-115. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010577653

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.

(+) Front door lock assembly (passenger side)		(-)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
Connector	Terminal			
D45	1	Ground	Unlock	0 → Battery voltage → 0
	2		Lock	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> Replace front door lock assembly (passenger side). Refer to [DLK-317. "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.

BCM		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M119	5	D45	1	Existed
	8		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	5		Not existed
	8		

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-93. "Removal and Installation"](#).
NO >> Repair or replace harness.

REAR LH

REAR LH : Description

INFOID:000000010577654

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:0000000010577655

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-116, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:0000000010577656

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.

(+)Rear door lock assembly LH		(-)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
Connector	Terminal			
D55	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	D55	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-93, "Removal and Installation"](#).

NO >> Repair or replace harness.

REAR RH

REAR RH : Description

INFOID:0000000010577657

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:0000000010577658

1.CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").

DOOR LOCK ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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-117, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:0000000010577659

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.

(+) Rear door lock assembly RH		(-)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
Connector	Terminal			
D75	1	Ground	Unlock	0 → Battery voltage → 0
	2		Lock	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	D75	2	Existed
	10		1	

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-93, "Removal and Installation"](#).
NO >> Repair or replace harness.

FUEL LID LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

FUEL LID LOCK ACTUATOR

Description

INFOID:0000000010577660

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

Component Function Check

INFOID:0000000010577661

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Fuel lid lock actuator is OK.
NO >> Refer to [DLK-118, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577662

1.CHECK FUEL LID LOCK ACTUATOR INPUT SIGNAL

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

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

Is the inspection result normal?

- YES >> Replace fuel lid lock actuator. Refer to [DLK-354, "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK FUEL LID LOCK ACTUATOR CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	8		Not existed
	9		

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).
NO >> Repair or replace harness.

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY CYLINDER SWITCH

Description

INFOID:0000000010577663

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:0000000010577664

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" using CONSULT. Refer to [DLK-59. "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-119. "Diagnosis Procedure".](#)

Diagnosis Procedure

INFOID:0000000010577665

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.

(+) Front door lock assembly (driver side)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D15	5	Ground	5
	6		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

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

Power window main switch		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D8	4	D15	6	Existed
	6		5	

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

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	4		Not existed
	6		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-117, "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		
D15	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side). Refer to [DLK-317, "DOOR ASSEMBLY : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577666

COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) (key cylinder switch) terminals.
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		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-317, "DOOR ASSEMBLY : Removal and Installation"](#).

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:0000000010577667

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:0000000010577668

1.CHECK FUNCTION

With CONSULT

Check remote keyless entry receiver ("RKE OPE COUN1") in Data Monitor mode using CONSULT.

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

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

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

Diagnosis Procedure

INFOID:0000000010577669

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.)
Remote keyless entry receiver			
Connector	Terminal		
M104	4	Ground	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY 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	103	M104	4	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	103		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).

NO >> Repair or replace harness.

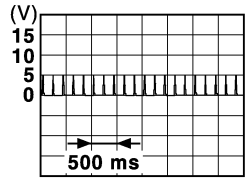
3.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

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

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)Remote keyless entry receiver		(-)	Signal (Reference value)
Connector	Terminal		
M104	4	Ground	(V) 15 10 5 0 

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace remote keyless entry receiver. Refer to [DLK-362. "Removal and Installation"](#).

4.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

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

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	137		Not existed

Is the inspection result normal?

YES >> GO TO 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		
M104	2	Ground	5

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

6.CHECK REMOTE KEYLESS ENTRY RECEIVER SIGNAL 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	M104	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		Not existed

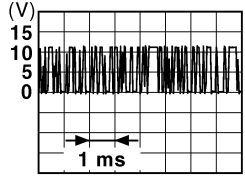
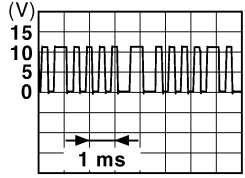
Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-93, "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.

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace remote keyless entry receiver. Refer to [DLK-362, "Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER SWITCH

Description

INFOID:0000000010577670

Output back door open signal to BCM.

Component Function Check

INFOID:0000000010577671

1.CHECK FUNCTION

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

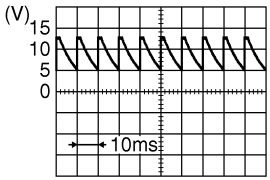
NO >> Refer to [DLK-124, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577672

1.CHECK BACK DOOR OPEN INPUT SIGNAL

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

(+)		(-)	Signal (Reference value)
Back door opener switch			
Connector	Terminal		
D114	1	Ground	 JPMIA0594GB

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM		Back door opener switch		Continuity
Connector	Terminal	Connector	Terminal	
M121	67	D114	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	67		Not existed

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).

NO >> Repair harness or connector.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door opener switch		Ground	Continuity
Connector	Terminal		
D114	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-125, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch. Refer to [EXT-50, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577673

1.CHECK BACK DOOR OPENER SWITCH

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

Terminal		Condition	Continuity
Back door opener switch			
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. Refer to [EXT-50, "Removal and Installation"](#).

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR REQUEST SWITCH

Description

INFOID:0000000010577674

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000010577675

1.CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Door request switch is OK.

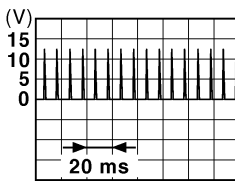
NO >> Refer to [DLK-126, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577676

1.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Signal (Reference value)
Front outside handle (request switch)			
Connector	Terminal		
Driver side	D13	Ground	
Passenger side	D43		

JMKIA0059GB

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

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

BCM		Front outside handle (request switch)		Continuity
Connector	Terminal	Connector	Terminal	
M122	101	LH (driver side)	D13	Existed
	100	RH (passenger side)	D43	

3. 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		Not existed
	100		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-93. "Removal and Installation"](#).

NO >> Repair or replace harness.

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	D13	2		Existed
Passenger side	D43			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-127. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front outside handle (request switch). Refer to [DLK-342. "OUTSIDE HAN-DLE : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577677

DLK

1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front outside handle (request switch) connector.
3. Check malfunctioning 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 malfunctioning front outside handle (request switch). Refer to [DLK-342. "OUTSIDE HAN-DLE : Removal and Installation"](#).

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR REQUEST SWITCH

Description

INFOID:0000000010577678

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000010577679

1.CHECK FUNCTION

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

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

Is the inspection result normal?

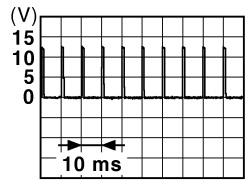
- YES >> Back door opener request switch is OK.
NO >> Refer to [DLK-128, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577680

1.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Signal (Reference value)
Connector	Terminal		
D116	1	Ground	 JPMA0016GB

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER REQUEST SWITCH CIRCUIT

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

BCM		Back door opener request switch		Continuity
Connector	Terminal	Connector	Terminal	
M121	61	D116	1	Existed

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	61		Not existed

Is the inspection result normal?

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Replace BCM. Refer to [BCS-93. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER REQUEST SWITCH GROUND CIRCUIT

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

Back door opener request switch assembly		Ground	Continuity
Connector	Terminal		
D116	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR OPENER REQUEST SWITCH

Refer to [DLK-129. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener request switch. Refer to [EXT-50. "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577681

1.CHECK BACK DOOR OPENER REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door opener.
3. Check back door opener request switch terminals.

Back door opener request switch		Back door opener request switch condition	Continuity
Terminal			
1	2	Pressed	Existed
		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener request switch. Refer to [EXT-50. "Removal and Installation"](#).

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

UNLOCK SENSOR

Description

INFOID:0000000010577682

Detects door lock condition of driver door.

Component Function Check

INFOID:0000000010577683

1.CHECK FUNCTION

Check unlock sensor ("UNLK SEN -DR") in "Data Monitor" mode.

Monitor item	Condition
UNLK SEN -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.

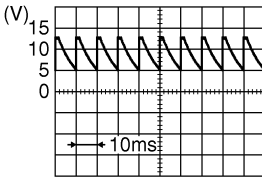
NO >> Refer to [DLK-130, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577684

1.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Signal (Reference value)
Front door lock assembly (driver side)			
Connector	Terminal		
D15	3	Ground	 JPMIA0594GB

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK UNLOCK SENSOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M123	119	D15	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	119		Not existed

UNLOCK SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

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

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D15	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK UNLOCK SENSOR

Refer to [DLK-131, "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-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577685

1.CHECK UNLOCK SENSOR

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

Front door lock assembly (driver side) (unlock sensor)		Front door lock assembly (driver side) (unlock sensor) 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) (unlock sensor). Refer to [DLK-340, "DOOR LOCK : Removal and Installation"](#).

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA

Description

INFOID:0000000010577686

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

Component Function Check

INFOID:0000000010577687

1.CHECK DOOR REQUEST SWITCH

Check door request switch. Refer to [DLK-126. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check door request switch. Refer to [DLK-126. "Diagnosis Procedure"](#).

2.CHECK FUNCTION

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

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

YES >> Outside key antenna is OK.

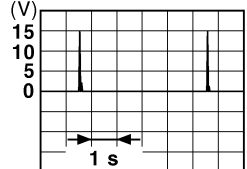
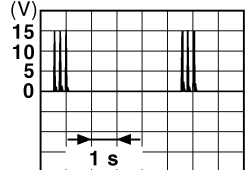
NO >> Refer to [DLK-132. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577688

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM			(-)	Condition		Signal (Reference value)
Connector	Terminal					
M122	Driver side	76, 77	Ground	Request switch is pushed	When Intelligent Key is in the antenna de- tection area.	
	Passenger side	74, 75				JMKIA0062GB
M121	Back door	38, 39			When Intelligent Key is not in the antenna detection area.	

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-93. "Removal and Installation"](#)

NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Outside key antenna		Continuity
Connector	Terminal	Connector	Terminal	
M122	76	D14 (driver side)	2	Existed
	77		1	
	74	D44 (passenger side)	2	
	75		1	
M121	38	D118 (back door)	2	
	39		1	

3. Check continuity between BCM harness connector and ground.

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

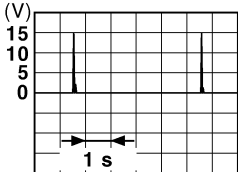
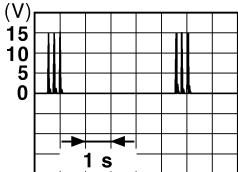
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM			(-)	Condition		Signal (Reference value)
Connector		Terminal				
M122	Driver side	76, 77	Ground	Door request switch is pushed	When Intelligent Key is in the antenna de- tection area.	 JMK1A0062GB
	Passenger side	74, 75			When Intelligent Key is not in the antenna de- tection area.	 JMK1A0063GB
M121	Rear bumper	38, 39				

Is the inspection result normal?

YES-1 >> Replace malfunctioning front outside handle (LH or RH). Refer to [DLK-342. "OUTSIDE HANDLE : Removal and Installation"](#).

YES-2 >> Replace outside key antenna (Back door). Refer to [DLK-359. "BACK DOOR : Removal and Installation"](#).

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Replace BCM. Refer to [BCS-93. "Removal and Installation"](#).

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:0000000010577689

Answers back and warns for an inappropriate operation.

Component Function Check

INFOID:0000000010577690

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-135, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577691

1.CHECK FUSE

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

Is fuse fusing?

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

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

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

(+)		(-)	Voltage (V) (Approx.)
Intelligent Key warning buzzer			
Connector	Terminal		
E80	1	Ground	Battery voltage

Is the inspection result normal?

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

3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

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

BCM		Intelligent Key warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
M121	64	E80	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	64		Not existed

Is the inspection result normal?

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

4.CHECK INTELLIGENT KEY WARNING BUZZER

Check [DLK-136, "Component Inspection"](#).

Is the inspection result normal?

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INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- YES >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).
NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-360, "Removal and Installation"](#).

Component Inspection

INFOID:0000000010577692

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-360, "Removal and Installation"](#).

INTELLIGENT KEY BATTERY

Component Inspection

INFOID:000000010577693

1.CHECK INTELLIGENT KEY BATTERY

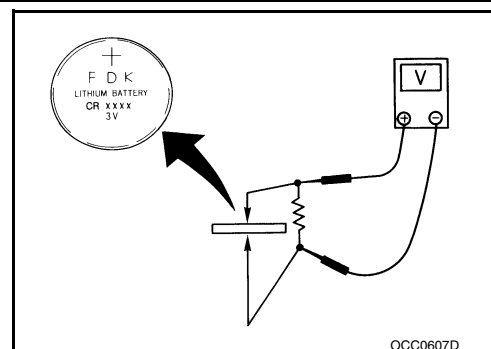
Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

YES >> INSPECTION END

NO >> Replace Intelligent Key battery.



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KEY SLOT

Description

INFOID:0000000010577694

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

Component Function Check

INFOID:0000000010577695

1.CHECK FUNCTION

Check key slot ("KEY SW -SLOT") in Data Monitor mode using 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-138, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577696

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		
M22	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key slot		Ground	Continuity
Connector	Terminal		
M22	7		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK KEY SLOT CIRCUIT

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

KEY SLOT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	121		Not existed

Is the inspection result normal?

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

5.CHECK KEY SLOT

Refer to [DLK-139, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Replace key slot. Refer to [DLK-361, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577697

1.CHECK KEY SLOT

- Turn ignition switch OFF.
- Disconnect key slot connector.
- 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-361, "Removal and Installation"](#).

KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY SLOT ILLUMINATION

Description

INFOID:0000000010577698

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:0000000010577699

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-140, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577700

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 harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 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	M22	6	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	92		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK KEY SLOT POWER SUPPLY CIRCUIT

1. Disconnect key slot connector.

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		
M22	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key slot		Ground	Continuity
Connector	Terminal		
M22	7		Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK KEY SLOT

Refer to [DLK-141, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace key slot. Refer to [DLK-361, "Removal and Installation"](#).

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577701

DLK

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-361, "Removal and Installation"](#).

HORN FUNCTION

Description

INFOID:0000000010577702

Perform answer-back for each operation using horn.

Component Function Check

INFOID:0000000010577703

1.CHECK FUNCTION

1. Select "HORN" in "ACTIVE TEST" mode using 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 >> Refer to [DLK-142, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577704

1.CHECK HORN SWITCH

Check horn function using horn switch

Do the horns sound?

YES >> GO TO 2.

NO >> Refer to [HRN-2, "Wiring Diagram - HORN -"](#).

2.CHECK HORN RELAY POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK HORN RELAY CIRCUIT

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

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

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

HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to [PCS-36. "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-47. "Intermittent Incident"](#).

Is the inspection result normal?

>> INSPECTION END

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COMBINATION METER DISPLAY FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

COMBINATION METER DISPLAY FUNCTION

Description

INFOID:0000000010577705

Displays each operation method guide and warning for system malfunction.

Component Function Check

INFOID:0000000010577706

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-144, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577707

1.CHECK COMBINATION METER

Refer to [MWI-95, "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-47, "Intermittent Incident"](#).

>> INSPECTION END

BUZZER (COMBINATION METER)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BUZZER (COMBINATION METER)

Description

INFOID:0000000010577708

Performs operation method guide and warning using buzzer.

Component Function Check

INFOID:0000000010577709

1.CHECK FUNCTION

1. Check the operation using "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-145. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577710

1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-23. "Component Function Check"](#).

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-47. "Intermittent Incident"](#).

>> INSPECTION END

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DLK

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY WARNING LAMP

Description

INFOID:0000000010577711

Performs operation method guide and warning together using buzzer.

Component Function Check

INFOID:0000000010577712

1.CHECK FUNCTION

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

Test item	Condition	
INDICATOR	RED ON	Key warning lamp (red) illuminates
	RED IND	Key warning lamp (red) blinks

Is the inspection result normal?

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

NO >> Refer to [DLK-146, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577713

1.CHECK KEY WARNING LAMP

Refer to [MWI-43, "Diagnosis Description"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

HAZARD FUNCTION

Description

INFOID:0000000010577714

Perform answer-back for each operation using the number of blinks.

Component Function Check

INFOID:0000000010577715

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-147, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577716

1.CHECK HAZARD SWITCH CIRCUIT

Refer to [EXL-119, "Wiring Diagram - TURN AND HAZARD WARNING LAMPS -"](#)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

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AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CLOSE SWITCH

Component Function Check

INFOID:0000000010577717

1.CHECK FUNCTION

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "BK DOOR CL SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

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-148, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577718

1.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH INPUT SIGNAL

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 (Approx.)
Automatic back door close switch			
Connector	Terminal		
D113	1	Ground	16 V

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 control unit 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	
B207	23	D113	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	23		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-364, "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.

AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door close switch		Ground	Continuity
Connector	Terminal		
D113	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-149, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door close switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577719

1.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

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

Automatic back door close switch		Condition		Continuity
Terminal				
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.

AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MAIN SWITCH

Component Function Check

INFOID:0000000010577720

1.CHECK FUNCTION

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "MAIN SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

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-150, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577721

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Automatic back door main switch			
Connector	Terminal		
M32	1	Ground	16 – 8 V

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	
B207	10	M32	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	10		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-364, "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.

AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door main switch		Ground	Continuity
Connector	Terminal		
M32	3		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Refer to [DLK-151, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door main switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577722

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

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

Automatic back door main switch		Condition		Continuity
Terminal				
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.

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SWITCH

Component Function Check

INFOID:0000000010577723

1.CHECK FUNCTION

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "AUTO BD SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

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-152, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010577724

1.CHECK AUTOMATIC BACK DOOR SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Automatic back door switch			
Connector	Terminal		
M34	1	Ground	16 V

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	
B207	22	M34	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	22	Ground	Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-364, "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.

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door switch		Ground	Continuity
Connector	Terminal		
M34	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR SWITCH

Refer to [DLK-153. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010577725

1.CHECK AUTOMATIC BACK DOOR SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door switch.

TOUCH SENSOR

RH

RH : Component Function Check

INFOID:000000001057726

1.CHECK FUNCTION

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "TOUCH SEN RH" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

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-154, "RH : Diagnosis Procedure"](#).

RH : Diagnosis Procedure

INFOID:000000001057727

1.CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between touch sensor RH harness connector and automatic back door control unit harness connector.

(+)		(-)		Condition		Voltage (Approx.)
Touch sensor RH		Automatic back door control unit				
Connector	Terminal	Connector	Terminal			
D126	1	B207	13	Touch sensor RH	Detect obstruc- tion	1.8 – 5 V
					Other than above	2.72 – 7.27 V

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 and touch sensor RH 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	
B207	1	D126	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	1		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR RH GROND CIRCUIT

TOUCH SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

1. Disconnect automatic back door control unit and touch sensor RH 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	
B207	13	D126	2	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	13		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR RH GROND CIRCUIT 2

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

Automatic back door control unit		Ground	Voltage (Approx.)
Connector	Terminal		
B207	13	Ground	0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR RH

Refer to [DLK-155, "RH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor RH.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

RH : Component Inspection

INFOID:0000000010577728

1.CHECK TOUCH SENSOR RH

1. Turn ignition switch OFF.
2. Disconnect touch sensor RH connector.
3. Check resistance between touch sensor RH terminals.

Touch sensor RH		Condition		Resistance (Approx.)
Terminal				
1	2	Touch sensor RH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor RH.

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

LH

LH : Component Function Check

INFOID:0000000010577729

1.CHECK FUNCTION

1. Select "AUTOMATIC BACK DOOR CONTROL UNIT" using CONSULT.
2. Select "TOUCH SEN LH" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

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-156, "LH : Diagnosis Procedure"](#).

LH : Diagnosis Procedure

INFOID:0000000010577730

1.CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between touch sensor LH harness connector and automatic back door control unit harness connector.

(+) Touch sensor LH		(-) Automatic back door control unit		Condition	Voltage (Approx.)
Connector	Terminal	Connector	Terminal		
D125	1	B207	13	Touch sensor LH	Detect obstruction
					Other than above
					1.8 – 5 V
					2.72 – 7.27 V

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 and touch sensor LH connector.
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	
B207	2	D125	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	2		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR LH GROND CIRCUIT

1. Disconnect automatic back door control unit and touch sensor LH connector.

TOUCH SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

- 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	
B207	13	D125	2	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B207	13		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR LH GROND CIRCUIT 2

- Connect automatic back door control unit and touch sensor LH connector.
- Check voltage between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Voltage (Approx.)
Connector	Terminal		
B207	13	Ground	0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR LH

Refer to [DLK-157, "LH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor LH.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

LH : Component Inspection

INFOID:0000000010577731

1.CHECK TOUCH SENSOR LH

- Turn ignition switch OFF.
- Disconnect touch sensor LH connector.
- Check resistance between touch sensor LH terminals.

Touch sensor LH		Condition		Resistance (Approx.)
Terminal				
1	2	Touch sensor LH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor LH.

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SPINDLE MOTOR

RH

RH : Diagnosis Procedure

INFOID:0000000010577732

1.CHECK SPINDLE MOTOR INPUT SIGNAL

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

(+) Spindle unit RH		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
B261	1	Ground	Back door	Auto open operation	16.75 – 8.5 V
	2			Auto close operation	

Is the inspection result normal?

YES >> Replace spindle unit RH.

NO >> GO TO 2.

2.CHECK SPINDLE MOTOR CIRCUIT

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

Automatic back door control unit		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B208	29	B261	1	Existed
	36		2	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
M208	29		Not existed
	36		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [BCS-93, "Removal and Installation"](#).

NO >> Repair or replace harness.

LH

LH : Diagnosis Procedure

INFOID:0000000010577733

1.CHECK SPINDLE MOTOR INPUT SIGNAL

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

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition		Voltage (Approx.)
Spindle unit LH					
Connector	Terminal				
B94	1	Ground	Back door	Auto open operation	16.75 – 8.5 V
	2			Auto close operation	

Is the inspection result normal?

YES >> Replace spindle unit LH.

NO >> GO TO 2.

2.CHECK SPINDLE MOTOR CIRCUIT

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

Automatic back door control unit		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B208	27	B94	1	Existed
	34		2	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
M208	27		Not existed
	34		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [BCS-93, "Removal and Installation"](#).

NO >> Repair or replace harness.

DLK

BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR CLOSURE MOTOR

Diagnosis Procedure

INFOID:0000000010577734

1.CHECK BACK DOOR CLOSURE MOTOR INPUT 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.

(+) Back door lock assembly		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
D107	1	Ground	Back door opener switch	Pressed	16 – 7.8 V
	2			Released	0 V

Is the inspection result normal?

YES >> Replace back door lock assembly.

NO >> GO TO 2.

2.CHECK BACK DOOR CLOSURE MOTOR 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	
B208	31	D107	1	Existed
	38		2	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B208	31		Not existed
	38		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING BUZZER

Diagnosis Procedure

INFOID:0000000010577735

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 (Approx.)
Automatic back door warning buzzer			
Connector	Terminal		
B86	1	Ground	16 – 7.5 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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	
B208	37	B86	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B208	37		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR WARNING BUZZER GROUND CIRCUIT

Check continuity between automatic back door warning buzzer harness connector and ground.

Automatic back door warning buzzer		Ground	Continuity
Connector	Terminal		
B86	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR WARNING BUZZER

Refer to [DLK-162, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door warning buzzer.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

>> INSPECTION END

Component Inspection

INFOID:0000000010577736

1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER

1. Turn ignition switch OFF.
2. Disconnect automatic back door warning buzzer connector.
3. Check battery power supply directly to automatic back door warning buzzer terminals and check the operation.

Automatic back door warning buzzer		Operation
Terminal		
(+)	(-)	
1	2	Buzzer sounds

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door warning buzzer.

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:0000000010577737

1.CHECK FUNCTION

Check automatic back door switch ("DESTINATION") in Data Monitor mode.

Monitor item	Condition	Status
DESTINATION	—	Type 4

Is the inspection result normal?

YES >> Automatic back door ground circuit is OK.

NO >> Refer to [DLK-163, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000010577738

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		
B207	4		Existed

Does continuity exist?

YES >> Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

NO >> Repair or replace harness.

DLK

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER

Description

INFOID:0000000010577739

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:0000000010577740

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-164, "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-74, "Removal and Installation"](#).

Diagnosis Procedure

INFOID:0000000010577741

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) connector	Terminal		Condition	Voltage (V) (Approx.)
R3	10	Ground	Ignition switch position: OFF	Battery voltage
	6		Ignition switch position: ON	

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Check the following items.
- 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

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

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Auto anti-dazzling inside mirror (Homelink universal transceiver) connector	Terminal	Ground	Continuity
R3	8		Existed

Is the inspection result normal?

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

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> INSPECTION END

DLK

POWER DOOR LOCK SYSTEM

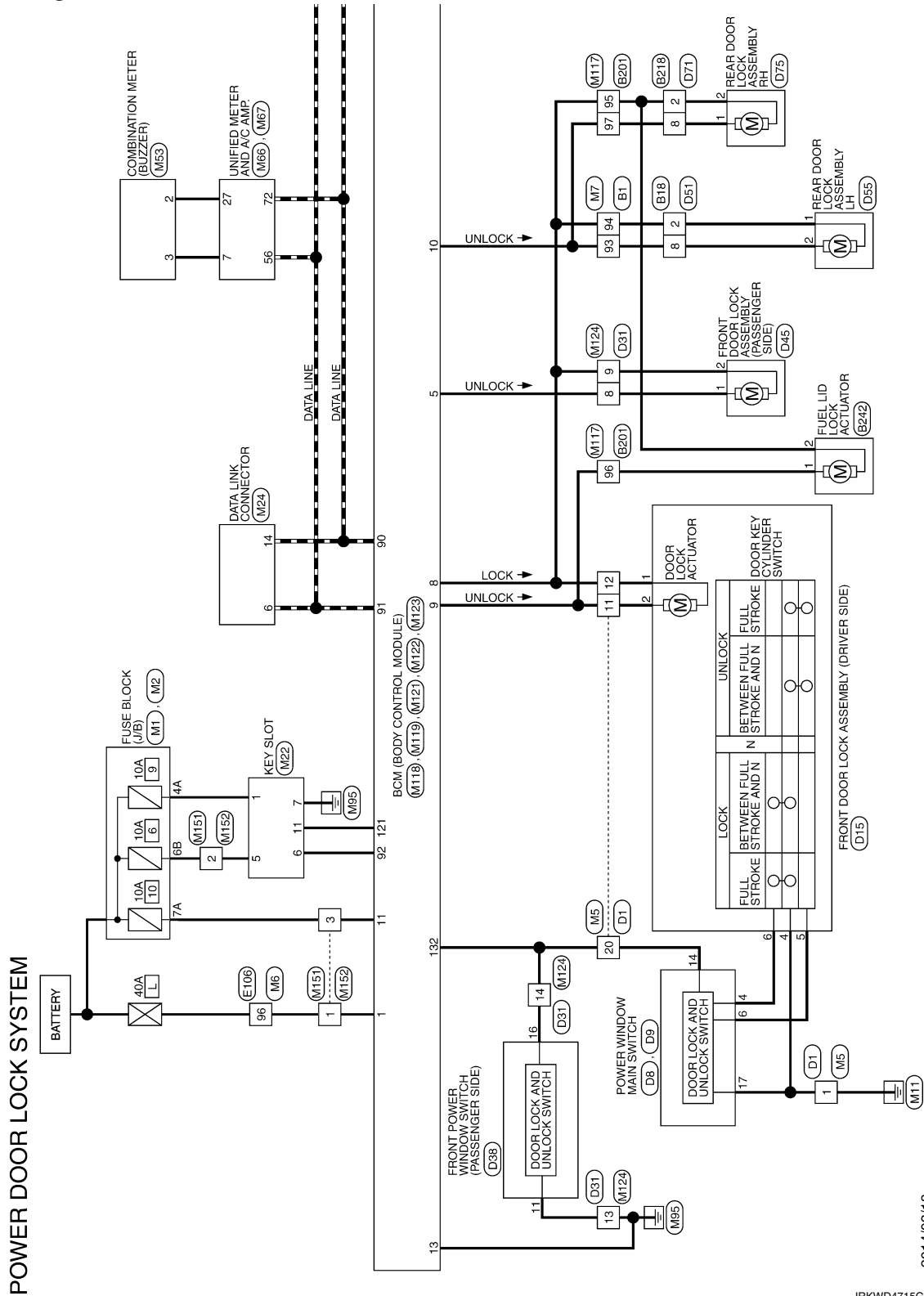
< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

Wiring Diagram - POWER DOOR LOCK SYSTEM -

INFOID:0000000010577742



2014/03/18

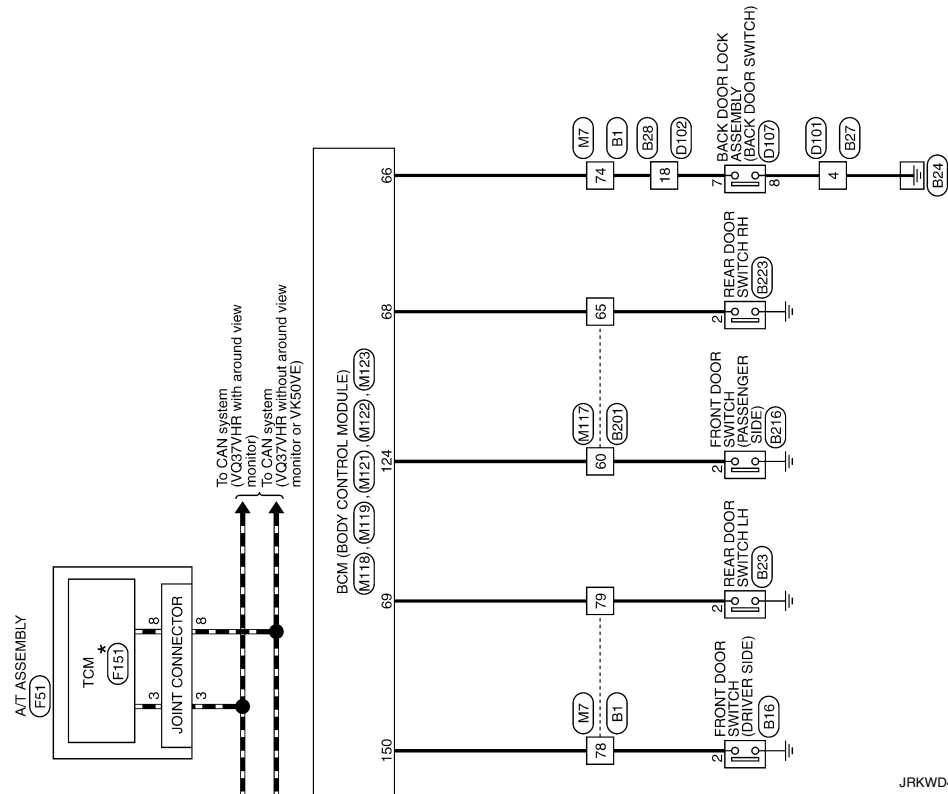
JRKWD4715GB

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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



JRKWD4716GB

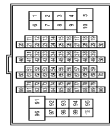
POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
5	P	-
6	B	-
7	GR	-
8	B	-
9	SB	-
10	SB	-
11	SB	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	Y	-
21	W	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	B	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	V	-
45	GR	-
51	V	-
52	SB	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-

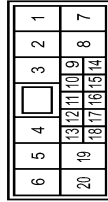
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	P	-
62	GR	-
63	G	-
64	B	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	GR	-
71	G	-
72	B	-
73	W	-
74	V	-
75	RG	-
76	LG	-
77	L	-
78	GR	-
79	W	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	R	-
86	Y	-
87	B	-
88	G	-
89	BR	-
91	R	-
92	B	-
93	BR	-
94	V	-
96	B	-
97	W	-
98	GR	-
99	W	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



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

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10FM-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	V	-
3	W	-
4	GR	-
5	Y	-
6	B	-
8	BR	-
12	LG	-
13	P	-
17	L	-
18	B	-
19	G	-
20	W	-

Connector No.	B23
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



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

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	N08MM-GY-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	W	-
4	B	-
6	BR	-
7	G	-
8	SHIELD	-

JRKWD4717GB

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-AH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	W	-
4	SHIELD	-
5	G	-
6	L	-
7	R	-
8	SHIELD	-
9	W	-
10	B	-
11	G	-
12	L	-
13	W	-
14	LG	-
15	BG	-
16	G	-
17	BG	-
18	V	-
19	W	-
20	B	-
21	G	-
22	LG	-
23	R	-
24	BG	-
25	BR	-
26	GR	-
27	L	-
32	BG	-

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	BR	-
4	SB	-
6	BG	-
7	GR	-
8	W	-
10	G	-
11	SHIELD	-
20	L	-
21	P	-
22	GR	-
23	LG	-
24	W	-
25	V	-
26	G	-
27	Y	-
28	SHIELD	-
31	W	-
32	GR	-
33	SB	-
36	L	-
37	P	-
38	L	-
39	P	-
40	LG	- [With ICC] - [Without ICC]
40	V	- [With ICC] - [Without ICC]
41	SB	- [With ICC] - [Without ICC]
41	Y	- [With ICC] - [Without ICC]
42	V	- [With ICC] - [Without ICC]
42	W	- [With ICC] - [Without ICC]
43	B	- [With ICC] - [Without ICC]
43	BR	- [With ICC] - [Without ICC]
44	R	-
45	G	-
46	BG	- [With ICC]

Connector No.	B216
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
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Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B216
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



6	5	4	3	2	1
20	19	18	17	16	15
14	13	12	11	10	9
8	7	6	5	4	3
2	1	0	9	8	7

Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	W	-
4	R	-
5	SB	-
6	B	-
8	G	-
12	LG	-
13	P	-
17	SB	-
18	BR	-
19	BR	-
20	LG	-

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

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



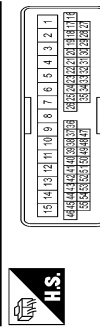
Terminal No.	2
Color Of Wire	BG
Signal Name [Specification]	-

Connector No.	B242
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	M04FWLC



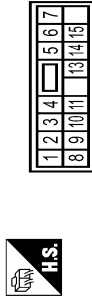
Terminal No.	1
Color Of Wire	W
Signal Name [Specification]	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	GR	-
3	W	-
4	SB	-
5	BR	-
6	O	-
7	R	-
8	LG	-
9	Y	-
10	P	-
11	L	-
12	V	-
13	GR	-
14	SB	-
15	BR	-
16	O	-
17	R	-
18	LG	-
19	Y	-
20	P	-
21	L	-
22	V	-
23	GR	-
24	SB	-
25	BR	-
26	O	-
27	R	-
28	LG	-
29	Y	-
30	P	-
31	L	-
32	V	-
33	GR	-
34	SB	-
35	BR	-
36	O	-
37	R	-
38	LG	-
39	Y	-
40	P	-
41	L	-
42	V	-
43	GR	-
44	SB	-
45	BR	-
46	O	-
47	R	-
48	LG	-
49	Y	-
50	P	-
51	L	-
52	V	-
53	GR	-
54	SB	-
55	BR	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	LG	-
3	GR	-
4	V	-
5	SB	-
6	Y	-
7	BR	-
8	L	-
9	W	-
10	O	-
11	G	-
13	P	-
14	V	-
15	W	-

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS



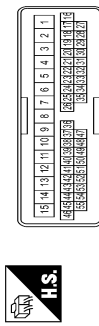
Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
18	Y	-

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGV-RS



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

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



Terminal No.	Color Of Wire	Signal Name (Specification)
3	P	-
4	L	-
5	W	-
6	P	-
7	G	-
8	R	-
9	LG	-
10	B	-
11	Y	-
12	G	-
13	LG	-
14	W	-
15	B	-
16	R	-

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

24	SHIELD	-
25	G	-
26	R	-
31	LG	-
32	R	-
33	SB	-
34	Y	-
35	GR	-
36	O	-
37	GR	-
38	G	-
39	O	-
40	Y	-
41	L	-
42	O	-
43	BR	-
44	V	-
45	P	-
46	W	-
47	R	-
48	G	-
49	SHIELD	-

Connector No.	D38
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	1N16FM-CS



		3	4			
8	9	10	11	12		15 16

Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	W	-
8	L	-
9	G	-
10	Y	-
11	B	-
12	P	-
15	R	-
16	V	-

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



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

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	1N10MW-CS10



1	2	3		4	5	6
7	8	9	10	11	12	13
		14	15	16	17	18
		19	20			

Terminal No.	Color Of Wire	Signal Name [Specification]
2	V	-
3	L	-
4	R	-
5	SB	-
6	B	-
8	G	-
12	L	-
13	Y	-
17	O	-
18	BR	-
19	V	-
20	W	-

Connector No.	D55
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	E06FGY-RS



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

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	1N10MW-CS10



1	2	3		4	5	6
7	8	9	10	11	12	13
		14	15	16	17	18
					19	20

Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
4	R	-
5	SB	-
6	B	-
8	G	-
12	L	-
13	Y	-
17	O	-
18	BR	-
19	V	-
20	W	-

Connector No.	D75
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	E06FGY-RS



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	1N06FW-GY-LC



4	3	2	1
8	7	6	5

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	R	-
4	GR	-
6	L/W	-
7	L/B	-
8	SHIELD	-

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	Y	-
4	SHIELD	-
5	R	-
6	G	-
7	Y	-
8	L	-
9	W	-
10	SHIELD	-
11	G	-
12	L	-
13	W	-
14	LG	-
15	BG	-
16	G	-
17	W	-
18	LG	-
19	BR	-
20	R	-
21	V	-
22	LG	-
23	P	-
24	BG	-
25	BG	-
26	GR	-
27	L	-
32	BG	-

Connector No.	D107
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-CS



1	2	3	4	5	6	7	8
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	LW	-
2	LB	-
4	G	-
5	L	-
6	W	-
7	LG	-
8	GR	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	SB	-
4	LG	-
5	Y	-
6	W	-
7	G	-
8	V	-
9	R	-
10	BR	-
11	B	-
12	G	-
13	R	-

71	G	-
72	G	-
73	R	-
74	BR	-
76	L	-
77	W	-
78	Y	-
80	SB	-
81	L	-
82	W	-
83	LG	-
84	GR	-
85	G	-
86	P	-
87	W	-
88	BG	-
89	LG	-
90	BR	-
91	GR	-
92	BR	-
93	SB	-
95	Y	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

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



5	4	3	2	1	10	9	8	7	6
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	R	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	CANH
4	V	K-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	P	CANL

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

9	GR	STARTER RELAY [With VQ engine]
9	LG	STARTER RELAY [With VK engine]
10	B	GROUND

Connector No.	F151
Connector Name	TCM
Connector Type	SP10FG



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

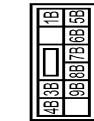
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-

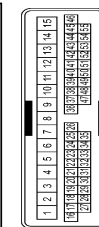
6A	Y	-
7A	R	-
8A	L	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	T-H40MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	SB	-
6	R	-
7	W	-
8	G	-
9	L	-
10	BG	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	T-H80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	- [Without Auto aircon seat]
3	SB	- [With Auto aircon seat]
4	LG	-
5	GR	-
6	W	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- [Without ICC]
20	W	- [With ICC]
21	BR	- [Without ICC]
21	R	- [With ICC]
22	L	- [Without ICC]
22	R	- [With ICC]
23	G	-
24	L	- [Without ICC]
24	P	- [With ICC]
25	W	- [Without ICC]
25	Y	- [With ICC]
26	SHIELD	-
28	GR	-
28	V	-
30	BG	-
32	W	-

11	G	-
12	V	-
13	P	-
14	P	-
15	L	-
20	BG	-
21	LG	-
22	V	-
23	Y	-
24	P	-
26	SB	-
27	V	-
28	LG	-
29	R	-
30	P	-
31	BG	-
32	SB	-
33	L	-
34	R	-
35	B	-
36	R	-
37	G	-
38	SHIELD	-
39	W	-
40	B	-
41	SHIELD	-
42	G	-
43	R	-
44	G	-
45	Y	-
46	GR	-
47	W	-
48	L	-
49	R	-
50	BG	-
51	SB	-
52	R	-
53	Y	-
54	LG	-
55	L	-

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

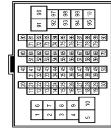
[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

33	Y	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
69	V	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
76	V	-
77	V	-
78	Y	-
80	BG	-
81	L	-
82	W	-
83	Y	-
84	L	-
85	P	-
86	BR	-
87	P	-
88	V	-
89	G	-
90	P	-
91	R	-
92	R	-
93	GR	-

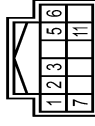
95	G	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

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



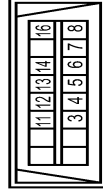
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With Auto aircon seat]
2	Y	- [Without Auto aircon seat]
3	W	-
6	P	-
7	V	-
8	BG	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	R	-
21	LG	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	W	-

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	BAT
2	GR	CLOCK
3	W	DATA
6	Y	ILL BAT
9	LG	ILL
7	B	GROUND
11	BR	KEY SWITCH SIGNAL

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



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	P	-
13	L	-
14	P	-
16	BG	-

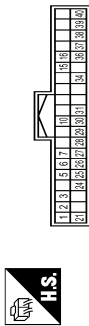
POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

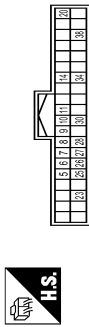
POWER DOOR LOCK SYSTEM

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	W	ALTERNATOR SIGNAL
7	P	AIR BAG SIGNAL
10	G	SECURITY INDICATOR SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
21	R	IGNITION SIGNAL
24	BR	COMMUNICATION SIGNAL (LCD->AMP)
25	Y	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	PASSENGER SEAT BELT WARNING SIGNAL
31	L	WASHER LEVEL SWITCH SIGNAL
34	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP AIR RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
5	L	MANUAL MODE SHIFT UP SIGNAL
6	BG	PADDLE SHIFTER UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	L	VEHICLE SPEED SIGNAL (2-PULSE)
9	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	BR	COMMUNICATION SIGNAL (LCD->AMP)
20	L	ION SENSOR SIGNAL
23	Y	AT SNOW SENSOR SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
26	G	PADDLE SHIFTER DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP)
28	R	VEHICLE SPEED SIGNAL (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL
34	L	BLOWER MOTOR CONTROL SIGNAL

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL

44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	ION MODE SIGNAL
65	BG	ECV SIGNAL
69	L	A/C CLAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BR	-
3	V	-
4	SB	-
6	Y	-
7	B	-
8	W	-
10	W	-
11	SHIELD	-
20	R	-
21	G	-
22	GR	-
23	V	-
24	W	-

25	R	-
26	P	-
27	L	-
28	SHIELD	-
31	W	-
32	W	-
33	SB	-
36	L	-
37	P	-
38	L	-
39	P	-
40	V	-
41	SB	- [With ICC]
41	Y	- [Without ICC]
42	V	- [With ICC]
42	W	- [Without ICC]
43	B	- [With ICC]
43	P	- [Without ICC]
44	R	- [With ICC]
45	G	- [Without ICC]
45	L	- [With ICC]
46	BG	- [Without ICC]
46	SHIELD	- [With ICC]
47	B	- [Without ICC]
47	L	- [With ICC]
48	P	- [Without ICC]
48	R	- [With ICC]
49	G	- [Without ICC]
49	W	- [With ICC]
50	SHIELD	-
51	BG	-
52	GR	-
53	G	-
54	L	-
55	P	-
60	LG	-
61	R	-
62	SB	-
63	V	-
64	Y	-
65	BR	-
66	BG	-
67	W	-
69	G	-
71	SB	-
72	V	-
73	V	-
74	LG	-
75	BR	-
76	V	-

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

77	LG	-
80	R	-
82	Y	-
83	BG	-
84	W	-
85	SB	-
86	B	-
87	P	-
91	L	-
92	L	-
93	G	-
94	BG	-
95	V	-
96	G	-
97	G	-
98	L	-
99	LG	-



4	5	7	8	9	10
11	13	15	17	18	19

Terminal No.	Color	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAME)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FBL-C



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



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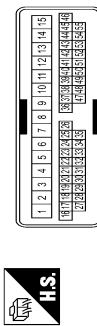
POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

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



49	SHIELD	-
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Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



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

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



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

Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	LG	-
5	SB	-
6	BR	-
7	G	-
8	V	-
9	LG	-
13	B	-
14	BG	-
15	W	-
19	G	-
20	LG	-
22	W	-
23	B	-
24	SHIELD	-
25	G	-
26	R	-
31	BG	-
32	Y	-
33	LG	-
34	SB	-
35	V	-
36	BG	-
37	GR	-
38	G	- [Without automatic drive positioner] - [With automatic drive positioner]
39	R	-
40	B	-
41	P	-
42	LG	-
43	L	-
44	Y	-
45	R	-
46	W	-
47	Y	-
48	BR	-

JRKWD4726GB

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INTELLIGENT KEY SYSTEM

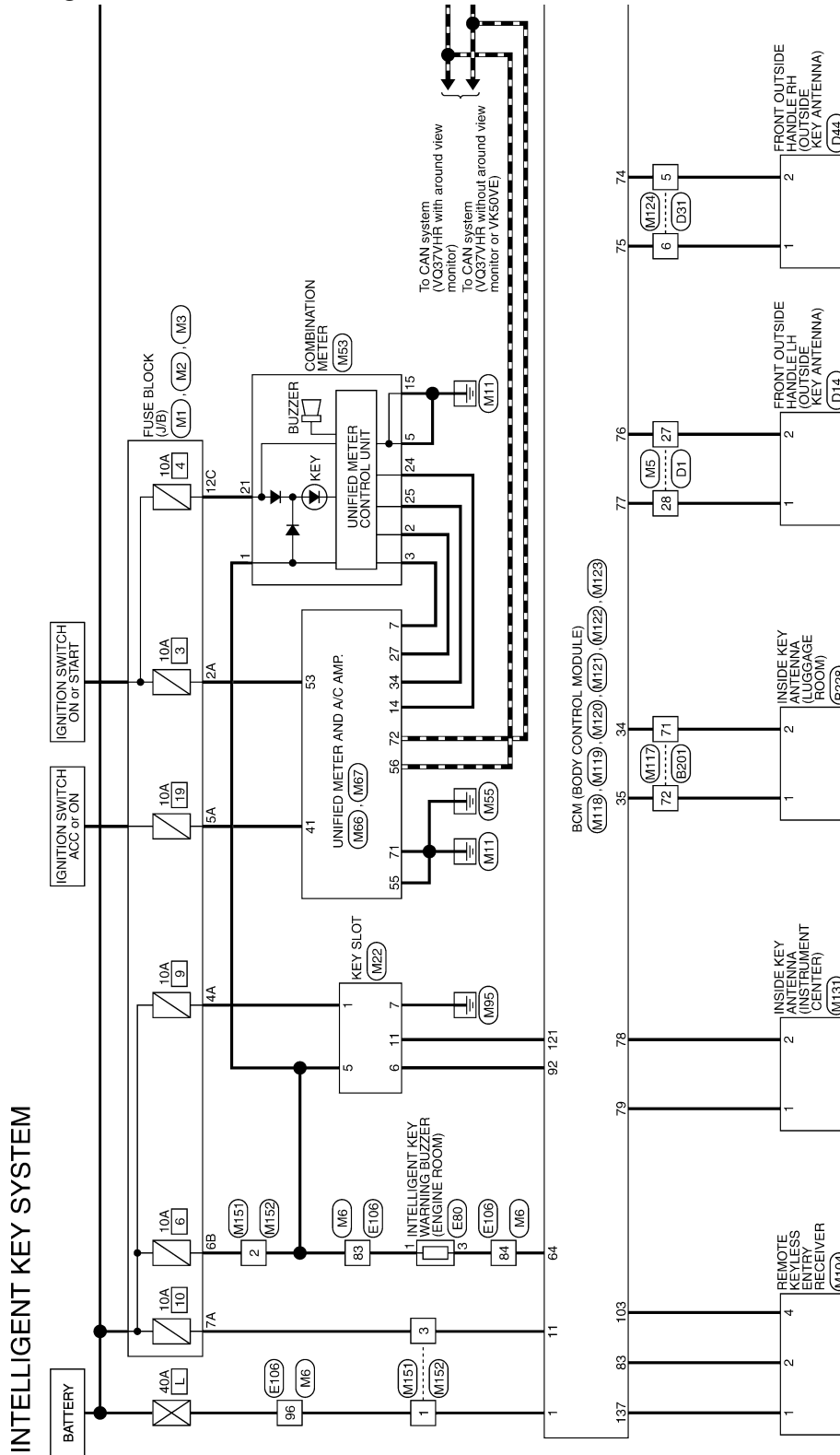
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[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

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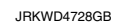


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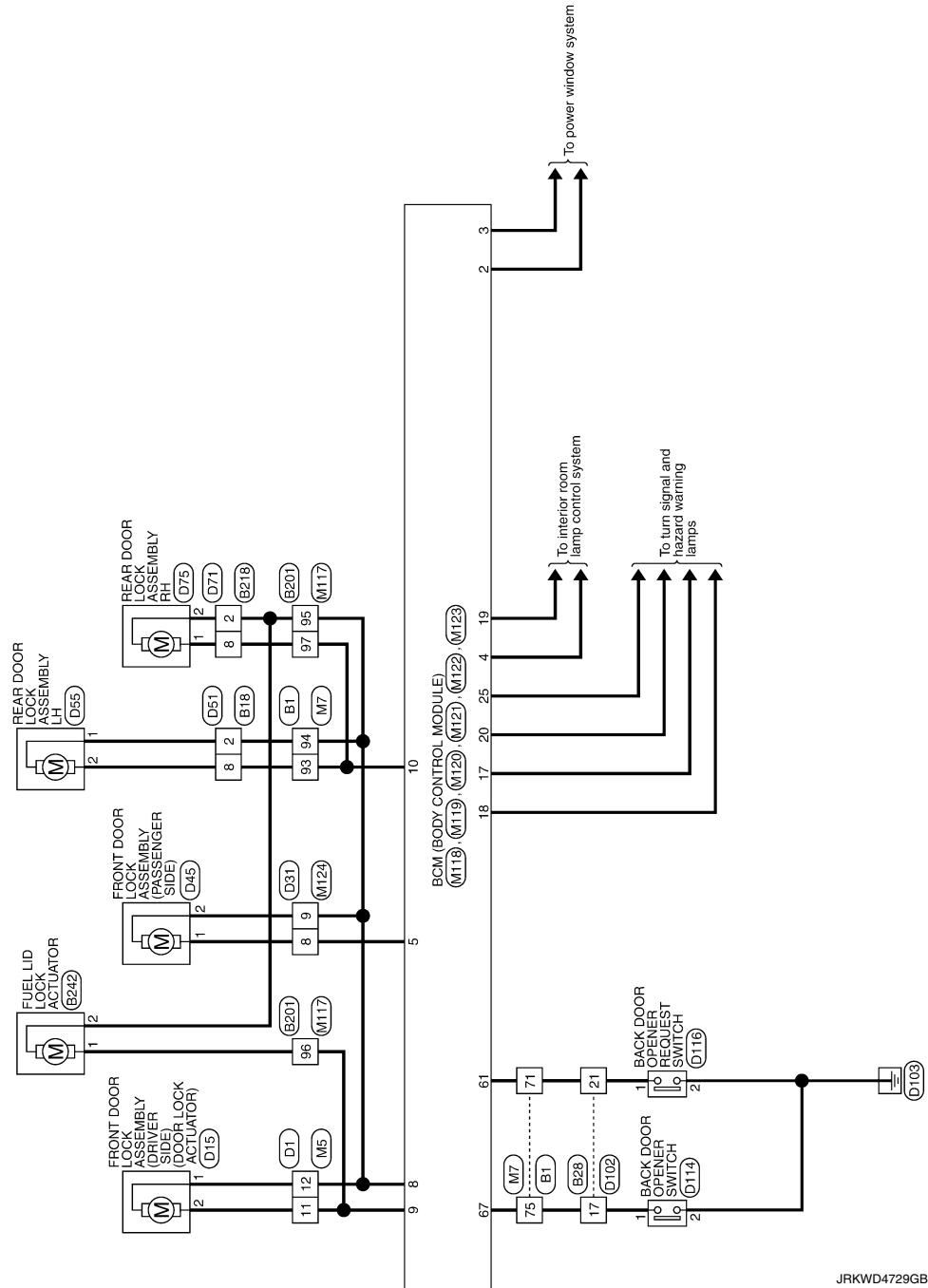
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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]



JRKWD4729GB

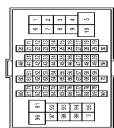
INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THH0FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
5	P	-
6	BG	-
7	P	-
8	BG	-
9	SB	-
10	SB	-
11	SB	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	Y	-
21	W	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	V	-
45	GR	-
51	V	-
52	SB	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-

57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	P	-
62	GR	-
63	G	-
64	BG	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	GR	-
71	G	-
72	B	-
73	W	-
74	V	-
75	BG	-
76	LG	-
77	L	-
78	GR	-
79	W	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	R	-
86	Y	-
87	B	-
88	G	-
89	BR	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	GR	-
99	W	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



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

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH0FW-CS10



6	5	4	3	2	1
20	19	18	17	16	15
14	13	12	11	10	9
8	7	6	5	4	3
2	1	0	9	8	7

Terminal No.	Color Of Wire	Signal Name [Specification]
2	V	-
3	W	-
4	GR	-
5	Y	-
6	B	-
8	BR	-
12	LG	-
13	P	-
17	L	-
18	BG	-
19	G	-
20	W	-

Connector No.	B23
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



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

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	N08MW-GY-LC



1	2	3	4
5	6	7	8

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	W	-
4	B	-
6	BR	-
7	G	-
8	SHIELD	-

JRKWD4730GB

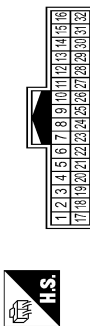
INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

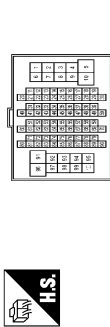
INTELLIGENT KEY SYSTEM

Connector No.	B238
Connector Name	WIPE TO WIRE
Connector Type	TH32MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	W	-
4	SHIELD	-
5	G	-
6	L	-
7	R	-
8	SHIELD	-
9	W	-
10	B	-
11	G	-
12	L	-
13	W	-
14	LG	-
15	BG	-
16	G	-
17	BG	-
18	V	-
19	W	-
20	B	-
21	G	-
22	LG	-
23	R	-
24	BG	-
25	BR	-
26	GR	-
27	L	-
32	BG	-

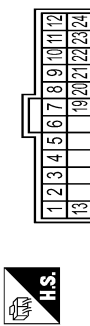
Connector No.	B201
Connector Name	WIPE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	BR	-
4	SB	-
5	BG	-
6	GR	-
7	W	-
8	W	-
9	G	-
10	SHIELD	-
11	L	-
12	P	-
13	GR	-
14	W	-
15	V	-
16	G	-
17	Y	-
18	SHIELD	-
19	W	-
20	B	-
21	G	-
22	LG	-
23	R	-
24	BG	-
25	BR	-
26	GR	-
27	L	-
28	V	-
29	Y	-
30	LG	-
31	SB	-
32	GR	-
33	SB	-
34	L	-
35	P	-
36	L	-
37	P	-
38	L	-
39	P	-
40	LG	-
41	V	-
42	Y	-
43	W	-
44	B	-
45	BR	-
46	G	-
47	BG	-

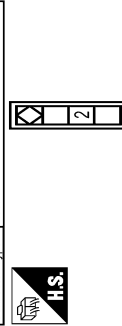
46	SHIELD	- [Without ICC]
47	B	- [Without ICC]
48	L	- [With ICC]
49	P	- [With ICC]
50	R	- [Without ICC]
51	G	- [With ICC]
52	SHIELD	- [Without ICC]
53	W	-
54	R	-
55	G	-
56	L	-
57	SB	-
58	GR	-
59	LG	-
60	SB	-
61	P	-
62	BR	-
63	BG	-
64	GR	-
65	Y	-
66	W	-
67	G	-
68	W	-
69	LG	-
70	V	-
71	BG	-
72	P	-
73	Y	-
74	W	-
75	BR	-
76	V	-
77	LG	-
78	BG	-
79	P	-
80	Y	-
81	W	-
82	R	-
83	LG	-
84	GR	-
85	SB	-
86	GR	-
87	L	-
88	V	-
89	W	-
90	R	-
91	G	-
92	LG	-
93	SB	-
94	GR	-
95	W	-
96	G	-
97	BG	-
98	L	-
99	L	-

Connector No.	B207
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	AA024FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	TOUCH SENS RH
2	G	TOUCH SENS LH
3	W	HAUF LATCH SW
4	B	AUT UNLK REG
5	L	CLOSE SW
6	W	A-SIGN LH
7	L	B-SIGN LH
8	LG	A-SIGN RH
9	SB	B-SIGN RH
10	BG	MAIN SW
11	G	OPEN SW
12	P	CAN-L
13	BG	TOUCH SENS GND
14	V	POWER LH
15	P	POWER RH
16	G	GROUND
17	Y	DRIVER SW
18	BG	INSIDE CLOSE SW
19	L	CAN-H

Connector No.	B216
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



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

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-GS10

6	5	4	3	2	1
13	12	11	10	9	8
20	19	18	17	16	15

Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	W	-
4	R	-
5	SB	-
6	B	-
8	G	-
12	LG	-
13	P	-
17	SB	-
18	BR	-
19	BR	-
20	LG	-

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW

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

Connector No.	B228
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02FGY

1	V
2	SB

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

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

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

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

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
29	28	27	26	25	24	23	22	21	20	19	18	17	16	15

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	G	-
6	GR	-
7	W	-
8	SB	-
9	BR	-
10	O	-
11	R	-
12	LG	-
13	Y	-
14	P	-
15	L	-
20	V	-
21	Y	-
22	GR	-
23	SB	-
24	LG	-
26	G	-
27	V	-
28	P	-
29	Y	-
30	LG	-
31	O	-
32	BR	-
33	L	-
34	GR	-
35	B	-
36	R	-
37	G	-
38	SHIELD	-
39	W	-
40	B	-
41	SHIELD	-
42	G	-
43	R	-
44	BR	-

45	V
46	P
47	W
48	GR
49	R
50	B
51	SB
52	L
53	G
54	O
55	GR

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

1	G
2	B

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

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

1	P
2	V

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

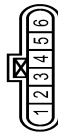
INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

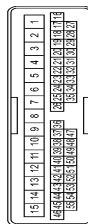
INTELLIGENT KEY SYSTEM

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ED6FGY-RS



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

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



Terminal No.	Color Of Wire	Signal Name [Specification]
3	P	-
4	L	-
5	W	-
6	P	-
7	G	-
8	R	-
9	LG	-
13	B	-
14	V	-
15	Y	-
19	G	-
20	LG	-
22	W	-
23	B	-

24	SHIELD	-
25	G	-
26	R	-
31	LG	-
32	R	-
33	SB	-
34	Y	-
35	GR	-
36	O	-
37	GR	-
38	G	-
39	O	-
40	Y	-
41	L	-
42	O	-
43	BR	-
44	V	-
45	P	-
46	W	-
47	R	-
48	G	-
49	SHIELD	-

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



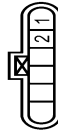
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-

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



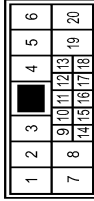
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-

Connector No.	D45
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	ED6FGY-RS



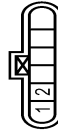
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	LG	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	V	-
3	L	-
4	R	-
5	SB	-
6	B	-
8	G	-
12	L	-
13	Y	-
17	O	-
18	BR	-
19	V	-
20	W	-

Connector No.	D55
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	ED6FGY-RS



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

INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

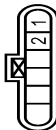
Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20				

Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
4	R	-
5	SB	-
6	B	-
8	G	-
12	L	-
13	Y	-
17	O	-
18	BR	-
19	V	-
20	W	-

Connector No.	D75
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	E08FGY-RS



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	M08FYV-GY-LC



4	3	2	1
8	7	6	5

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	R	-
4	GR	-
6	UV	-
7	LB	-
8	SHIELD	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH32FYV-NH



18	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
23	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7

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

14	LG	-
15	BG	-
16	G	-
17	W	-
18	LG	-
19	BR	-
20	R	-
21	V	-
22	LG	-
23	P	-
24	BG	-
25	BG	-
26	GR	-
27	L	-
32	BG	-

Connector No.	D107
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FYV-CS



1	2	3	4	5	6	7	8
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	-
2	L/B	-
4	G	-
5	L	-
6	W	-
7	LG	-
8	GR	-

Connector No.	D114
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	TK02MBR-P



1	2
---	---

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

Connector No.	D116
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	TK02MBR-P



1	2
---	---

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

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INTELLIGENT KEY SYSTEM

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[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Connector No.	D118
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RK02FGY



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

Connector No.	E5
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	T120FM-CS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
7	R	-
10	SB	-
12	B	-
13	Y	-
16	LG	-
19	W	-
25	G	-
26	R	-
27	Y	-
28	BG	-
30	GR	-
36	G	-

Connector No.	E6
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	T108FM-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B	-
42	Y	-
43	SB	-
44	W	-
45	G	-
46	BR	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	BR	-
3	G	-

Connector No.	E18
Connector Name	HORN RELAY 2
Connector Type	M03FM-RLC



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

Connector No.	E61
Connector Name	HORN (LOW)
Connector Type	P01FB-BR-A



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-

Connector No.	E62
Connector Name	HORN (LOW)
Connector Type	P01FB-A



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

Connector No.	E69
Connector Name	HORN (HIGH)
Connector Type	P01FB-BR-A



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

Connector No.	E70
Connector Name	HORN (HIGH)
Connector Type	P01FB-A



INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

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

Connector No.	E80
Connector Name	INTELLIGENT KEY MARKING BUZZER (ENGINE ROOM)
Connector Type	IRK03FBR



Terminal No.	1
Color Of Wire	LG
Signal Name [Specification]	+BATT (VOL. SMALL)
Terminal No.	3
Color Of Wire	GR
Signal Name [Specification]	BUZZER SIGNAL

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FWM-CS16-TM4

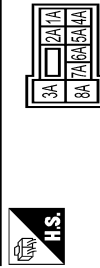


Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	SB	-
4	LG	-
5	Y	-
6	W	-
7	G	-
8	V	-
9	R	-
10	BR	-
11	B	-
12	G	-
13	R	-

14	W	-
15	SHIELD	-
16	SB	-
17	L	-
18	P	-
19	G	-
20	W	- [With ICC]
20	Y	- [Without ICC]
21	BR	-
22	R	-
22	V	- [With ICC]
22	V	- [Without ICC]
23	G	-
24	L	- [With ICC]
24	P	- [Without ICC]
25	L	- [With ICC]
25	Y	- [Without ICC]
26	SHIELD	-
28	G	-
29	LG	-
30	BG	-
32	W	-
33	Y	-
34	BG	-
37	Y	-
38	GR	-
39	LG	-
41	LG	-
42	V	-
43	R	-
44	G	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	SB	-
50	BR	-
51	B	-
52	Y	-
53	BG	-
54	R	-
55	SB	-
59	P	-
60	SB	-
61	V	-
62	P	-
63	LG	-
64	L	-
65	BG	-
69	L	-
70	SHIELD	-

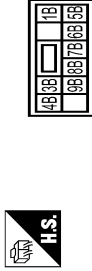
71	G	-
72	G	-
74	BR	-
76	L	-
77	W	-
78	Y	-
80	SB	-
81	L	-
82	W	-
83	LG	-
84	GR	-
85	G	-
86	P	-
87	W	-
88	BG	-
89	LG	-
90	BR	-
91	GR	-
92	SB	-
93	SB	-
95	Y	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FM-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	LG	-
12C	R	-
6C	P	-
7C	B	-
9C	BG	-

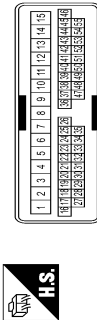
INTELLIGENT KEY SYSTEM

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[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	SB	-
6	R	-
7	W	-
8	G	-
9	L	-
10	BG	-
11	G	-
12	V	-
13	Y	-
14	P	-
15	L	-
20	BG	-
21	LG	-
22	V	-
23	Y	-
24	P	-
26	SB	-
27	V	-
28	LG	-
29	R	-
30	P	-
31	BG	-
32	SB	-
33	L	-
34	R	-
35	B	-
36	R	-
37	G	-
38	SHIELD	-
39	W	-
40	B	-
41	SHIELD	-
42	G	-
43	R	-
44	G	-

45	Y	-
46	GR	-
47	W	-
48	L	-
49	R	-
50	BG	-
51	SB	-
52	R	-
53	Y	-
54	LG	-
55	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	- [Without Auto aircon seat]
3	SB	- [With Auto aircon seat]
4	LG	-
5	GR	-
6	W	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- [Without ICC]
20	W	- [With ICC]
21	BR	- [With ICC]

21	R	- [Without ICC]
22	L	- [Without ICC]
22	R	- [With ICC]
23	G	-
24	L	- [With ICC]
24	P	- [Without ICC]
25	W	- [Without ICC]
25	Y	- [With ICC]
26	SHIELD	-
28	GR	-
29	V	-
30	BG	-
32	W	-
33	Y	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
65	V	-
69	V	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
76	V	-
77	V	-
78	Y	-
80	BG	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With Auto aircon seat]
1	Y	- [Without Auto aircon seat]
2	B	-
3	W	-
6	P	-
7	V	-
8	BG	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-

JRKWD4737GB

INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

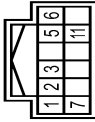
[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

19	G	-
20	R	-
21	LG	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	W	-
45	B	-
51	V	-
52	LG	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	BR	-
62	R	-
63	Y	-
64	L	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	V	-
71	W	-
72	B	-
73	W	-
74	LG	-
75	P	-
76	LG	-
77	SB	-
78	GR	-
79	R	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	W	-
86	Y	-

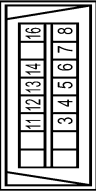
87	B	-
88	G	-
89	BG	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	R	-
99	BG	-

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH22FM-NH



Terminal No.	Wire	Signal Name [Specification]
1	R	BAT
2	GR	CLOCK
3	W	DATA
5	Y	ILL BAT
6	LG	ILL
7	B	GROUND
11	BR	KEY SWITCH SIGNAL

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



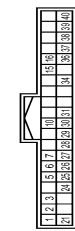
Terminal No.	Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	P	-
13	L	-
14	P	-
16	BG	-

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



Terminal No.	Wire	Signal Name [Specification]
1	B	-
2	R	-
3	BG	-
4	SB	-
5	GR	-
6	Y	-
7	V	-
8	P	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FM-NH



Terminal No.	Wire	Signal Name [Specification]
1	BG	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	W	ALTERNATOR SIGNAL
7	P	AIR BAG SIGNAL
10	G	SECURITY INDICATOR SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
21	R	IGNITION SIGNAL
24	BR	COMMUNICATION SIGNAL (LCD->AMP)
25	Y	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	PASSENGER SEAT BELT WARNING SIGNAL
31	L	WASHER LEVEL SWITCH SIGNAL
34	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP AIR RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

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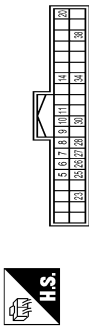
INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

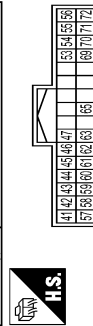
INTELLIGENT KEY SYSTEM

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH42FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
5	L	MANUAL MODE SHIFT UP SIGNAL
6	BG	PADDLE SHIFTER UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	L	VEHICLE SPEED SIGNAL (2-PULSE)
9	SB	SEAT BELT CATCHER SWITCH SIGNAL (OVER SPEED)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	BR	COMMUNICATION SIGNAL (LCD->AMP)
20	L	ION SENSOR SIGNAL
23	Y	AT SNOW SWITCH SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
26	G	PADDLE SHIFTER DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP)
28	R	VEHICLE SPEED SIGNAL (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL
34	Y	COMMUNICATION SIGNAL (AMP->LCD)
38	L	BLOWER MOTOR CONTROL SIGNAL

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH52FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL

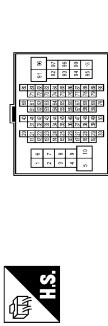
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	ION MODE SIGNAL
65	BG	ECV SIGNAL
69	L	A/C CLAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	GR	SIGNAL OUTPUT
4	BR	BATTERY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BR	-
3	V	-
4	SB	-
6	Y	-
7	B	-
8	W	-
10	W	-
11	SHIELD	-
20	R	-
21	G	-
22	GR	-
23	V	-
24	W	-
25	R	-
26	P	-
27	L	-
28	SHIELD	-
31	W	-
32	W	-
33	SB	-
36	L	-
37	P	-
38	L	-
39	P	-
40	V	-
41	SB	- [With ICC]
41	Y	- [Without ICC]
42	V	- [With ICC]
42	W	- [Without ICC]
43	B	- [With ICC]
43	P	- [Without ICC]
44	R	- [With ICC]
45	G	- [Without ICC]
45	L	- [With ICC]
46	BG	-

46	SHIELD	- [Without ICC]
47	B	- [Without ICC]
47	L	- [With ICC]
48	P	- [With ICC]
48	R	- [Without ICC]
49	G	- [With ICC]
49	W	- [Without ICC]
50	SHIELD	-
51	BG	-
52	GR	-
53	G	-
54	L	-
55	P	-
60	LG	-
61	R	-
62	SB	-
63	V	-
64	Y	-
65	BR	-
66	BG	-
67	W	-
69	G	-
71	SB	-
72	V	-
73	V	-
74	LG	-
75	BR	-
76	V	-
77	LG	-
80	R	-
82	Y	-
83	BG	-
84	W	-
85	SB	-
86	B	-
87	P	-
91	L	-
92	L	-
93	G	-
94	BG	-
95	V	-
96	G	-
97	G	-
98	L	-
99	LG	-

INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

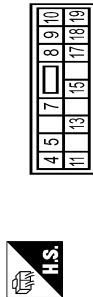
INTELLIGENT KEY SYSTEM

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FE-LC



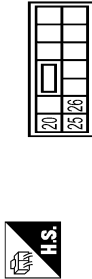
Terminal No.	Color	Wire	Signal Name [Specification]
1	W		BAT (B/L)
2	Y		POWER WINDOW POWER SUPPLY (BAT)
3	BG		POWER WINDOW POWER SUPPLY (RCP)

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



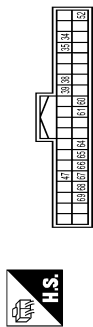
Terminal No.	Color	Wire	Signal Name [Specification]
4	P		INT ROOM LAMP PWR SUPPLY (BAT SAVE)
5	V		PASSENGER DOOR UNLOCK OUTPUT
7	Y		STEP LAMP OUTPUT
8	V		ALL DOOR FUEL LID LOCK OUTPUT
9	G		DRIVER DOOR FUEL LID LOCK OUTPUT
10	BR		REAR DOOR UNLOCK OUTPUT
11	R		BAT (FUSE)
13	B		GROUND
15	Y		ACC IND
17	W		TURN SIGNAL RH (FRONT)
18	BG		TURN SIGNAL LH (FRONT)
19	SB		ROOM LAMP TIMER

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



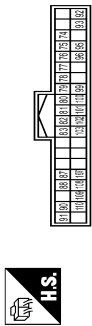
Terminal No.	Color	Wire	Signal Name [Specification]
20	V		TURN SIGNAL RH (REAR)
25	G		TURN SIGNAL LH (REAR)
26	P		REAR WIPER OUTPUT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



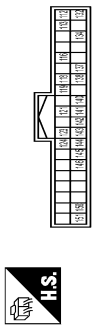
Terminal No.	Color	Wire	Signal Name [Specification]
34	SB		LUGGAGE ROOM ANT+
35	V		LUGGAGE ROOM ANT+
38	B		BACK DOOR ANT+
39	W		BACK DOOR ANT+
47	Y		IGN RELAY (IPDM E/R) CONT
52	LG		STARTER RELAY CONT
60	SB		ENG START SW
61	W		TRUNK REQUEST SW
64	L		I-KEY WARN BUZZER (ENG ROOM)
65	BG		REAR WIPER STOP POSITION
66	LG		BACK DOOR SW
67	P		BACK DOOR OPENER SW
68	BR		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	Wire	Signal Name [Specification]
74	SB		PASSENGER DOOR ANT+
75	BR		PASSENGER DOOR ANT+
76	V		DRIVER DOOR ANT+
77	LG		DRIVER DOOR ANT+
78	Y		ROOM ANT+
79	BR		ROOM ANT+
80	GR		NATS ANT AMP
81	W		NATS ANT AMP
82	P		IGN RELAY (P/B) CONT
83	GR		KEYLESS ENTRY RECEIVER SIGNAL
87	BR		COMBI SW INPUT 5
88	V		COMBI SW INPUT 3
89	P		CANL
90	L		CANH
91	LG		KEY SLOT ILL
92	LG		ON IND
93	V		ACC RELAY CONT
95	BG		AT SHIFT SELECTOR POWER SUPPLY
96	GR		SHIFT P
97	R		PASSENGER DOOR REQUEST SW
98	G		DRIVER DOOR REQUEST SW
99	SB		BLOWER FAN MOTOR RELAY CONT
100	BG		KEYLESS ENTRY RECEIVER POWER SUPPLY
101	BR		COMBI SW INPUT 1
102	LG		COMBI SW INPUT 4
103	R		COMBI SW INPUT 2
104	Y		HAZARD SW
105	G		

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



Terminal No.	Color	Wire	Signal Name [Specification]
112	GR		RAIN SENSOR SERIAL LINK
113	P		OPTICAL SENSOR
116	BR		STOP LAMP SW 1
118	P		STOP LAMP SW 2
119	SB		DR DOOR UNLOCK SENSOR
121	BR		KEY SLOT SW
123	W		IGN/B
124	LG		PASSENGER DOOR SW
132	BG		POWER WINDOW SW COMM
134	GR		LOCK IND
137	B		RECEIVER SENSOR GND
138	Y		SHIFT NP
140	R		SECURITY INDICATOR OUTPUT
141	G		COMBI SW OUTPUT 5
142	BG		COMBI SW OUTPUT 1
143	P		COMBI SW OUTPUT 2
144	G		COMBI SW OUTPUT 3
145	L		COMBI SW OUTPUT 4
146	SB		DRIVER DOOR SW
147	GR		REAR WINDOW DEFOGGER RELAY CONT
148	G		

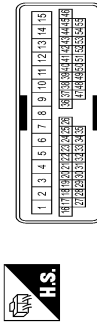
INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

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



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	LG	-
5	SB	-
6	BR	-
7	G	-
8	V	-
9	LG	-
13	B	-
14	BG	-
15	W	-
19	G	-
20	LG	-
22	W	-
23	B	-
24	SHIELD	-
25	G	-
26	R	-
31	BG	-
32	Y	-
33	LG	-
34	SB	-
35	V	-
36	BG	-
37	GR	-
38	G	- [Without automatic drive positioner] - [With automatic drive positioner]
39	R	-
40	B	-
41	P	-
42	LG	-
43	L	-
44	Y	-
45	R	-
46	W	-
47	Y	-
48	BR	-

49	SHIELD	-
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Connector No.	M131
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02MGY



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

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



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

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



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

INTEGRATED HOMELINK TRANSMITTER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

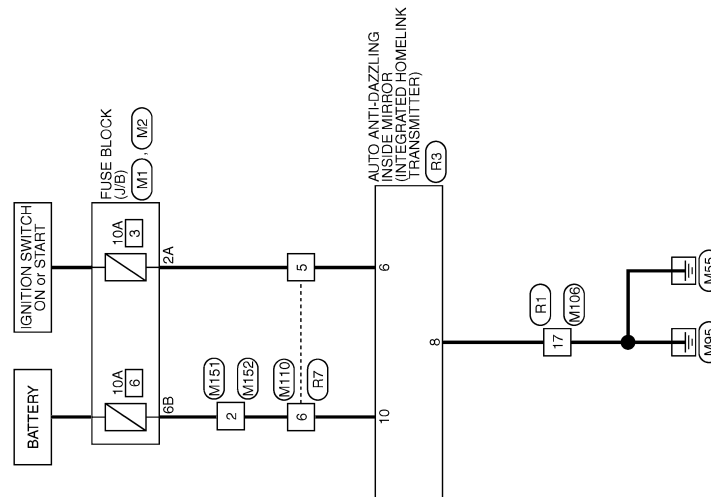
[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM -

INFOID:0000000010577744

INTEGRATED HOMELINK TRANSMITTER



2013/02/13

JRKWC3258GB

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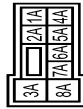
INTEGRATED HOMELINK TRANSMITTER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20				

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10

5	W	-
6	GR	-
7	SB	-
8	LG	-
9	SHIELD	-
10	R	-
11	G	-
15	R	-
16	V	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-



1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

Connector No.	M110
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



1	2
3	4

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

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



6	5	4	3	2	1
20	19	18	17	16	15
14	13	12	11	10	9
8	7				

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	GR	-
4	SHIELD	-
5	G	-
6	BR	-
8	P	-
9	G	-
10	Y	-
11	Y	-
12	BR	-
13	L	-
14	L	-
15	R	-
16	R	-
17	B	-
20	Y	-

Connector No.	R3
Connector Name	AUTO ANTICIZLING MIRROR
Connector Type	TH10FB-NH



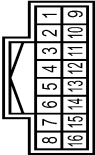
10	8	16
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Terminal No.	Color Of Wire	Signal Name [Specification]
6	BR	IGN
8	B	GROUND
10	GR	BAT

JRKWD4742GB

INTEGRATED HOMELINK TRANSMITTER

Connector No.	R7
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
3	B	-
4	BR	-
5	GR	-
6	SB	-
7	Y	-
8	SHIELD	-
9	R	-
10	G	-
11	R	-
12	V	-
13	-	-
14	-	-
15	-	-
16	-	-

DLK

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000011002913

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 volume dial is in a dial position 1 - 7	Wiper volume 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
	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	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
SFT PN -IPDM	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

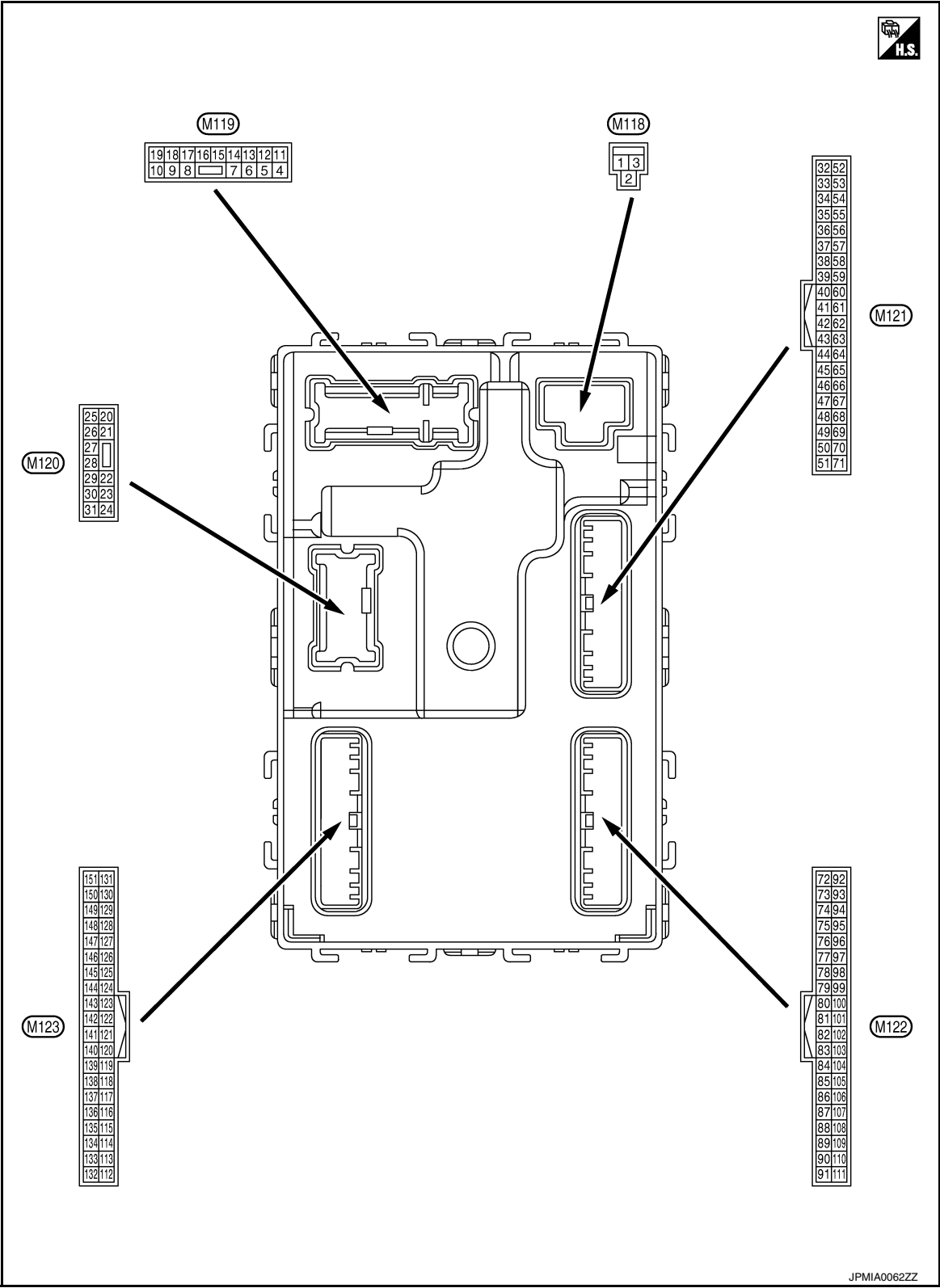
Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

TERMINAL LAYOUT



PHYSICAL VALUES

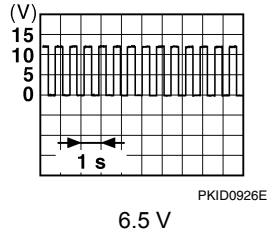
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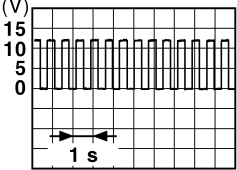
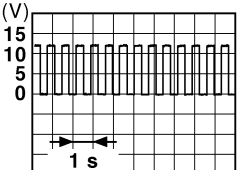
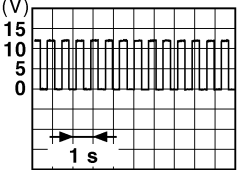
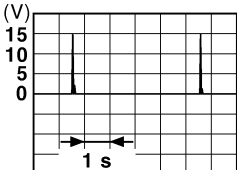
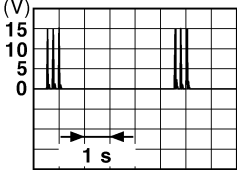
[WITH INTELLIGENT KEY SYSTEM]

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 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V
3 (BG)	Ground	P/W power supply (IGN)	Output	Ignition switch ON		12 V
4 (P)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V
5 (V)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
7 (Y)	Ground	Step lamp control	Output	Step lamp	ON	0 V
					OFF	12 V
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
10 (BR)	Ground	Rear RH door and rear LH door UN- LOCK	Output	Rear RH door and rear LH door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC or ON	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
19 (SB)	Ground	Interior room lamp control	Output	Other than under condition		5.0 V
				- Interior room lamp timer is activated. (Door is unlocked. etc...) - Welcome light function is activated.		0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
26 (P)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
					ON (Operated)	12 V
34 (SB)	Ground	Luggage room anten- na (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	
					When Intelligent Key is not in the passenger com- partment	

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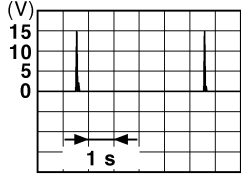
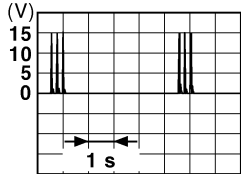
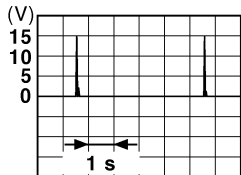
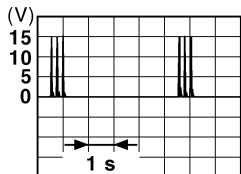
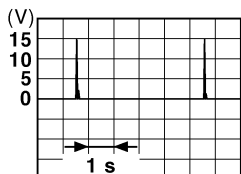
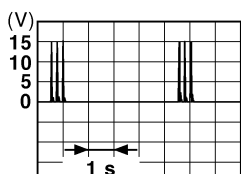
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BCM (BODY CONTROL MODULE)

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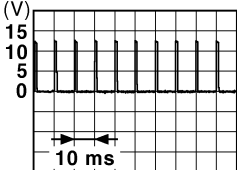
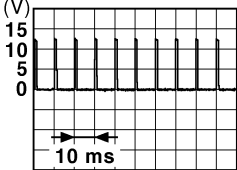
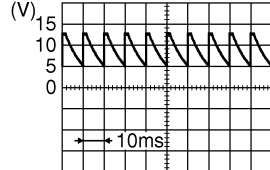
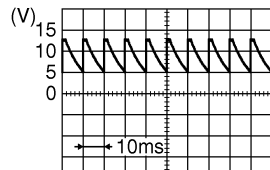
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
35 (V)	Ground	Luggage room antenna (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
38 (B)	Ground	Back door antenna (-)	Output	When the back door opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
39 (W)	Ground	Back door antenna (+)	Output	When the back door opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

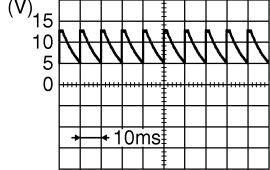
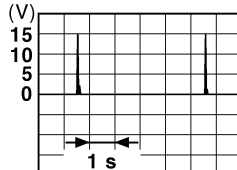
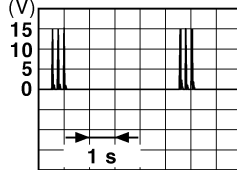
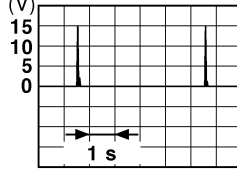
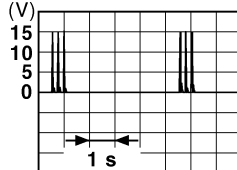
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
52 (LG)	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position	12 V
					When selector lever is not in P or N position	0 V
60 (SB)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ig- nition switch (Push switch)	Pressed	0 V
					Not pressed	12 V
61 (W)	Ground	Back door opener re- quest switch	Input	Back door re- quest switch	ON (Pressed)	0 V
					OFF (Not pressed)	 1.0 V
64 (L)	Ground	Intelligent Key warn- ing buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding	0 V
					Not sounding	12 V
65 (BG)	Ground	Rear wiper stop posi- tion	Input	Rear wiper	In stop position	 1.0 V
					Not in stop position	0 V
66 (LG)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	12 V
					ON (Door open)	0 V
67 (P)	Ground	Back door opener switch	Input	Back door open- er switch	Pressed	0 V
					Not pressed	 8.5 - 9.0 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	 8.5 - 9.0 V
					ON (Door open)	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

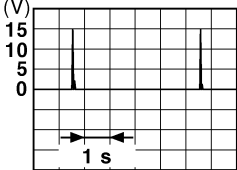
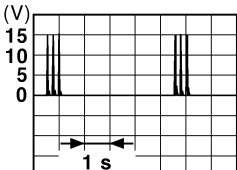
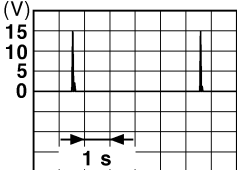
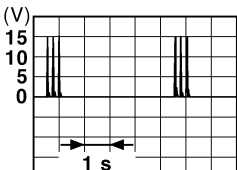
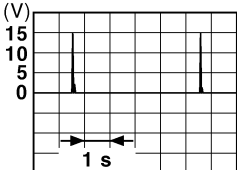
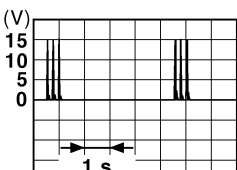
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
74 (SB)	Ground	Passenger door antenna (-)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
75 (BR)	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

BCM (BODY CONTROL MODULE)

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[WITH INTELLIGENT KEY SYSTEM]

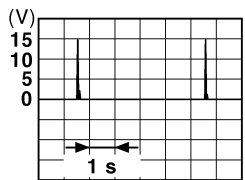
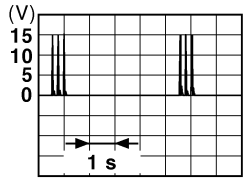
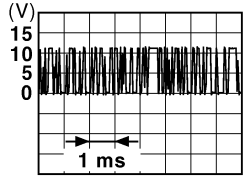
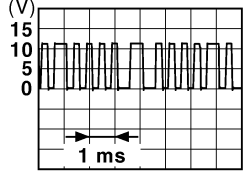
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
76 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detec- tion area	 JMKIA0063GB
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detec- tion area	 JMKIA0063GB
78 (Y)	Ground	Room antenna (-) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger com- partment	 JMKIA0063GB

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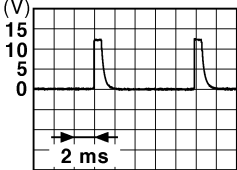
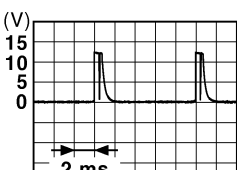
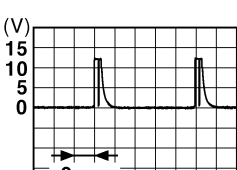
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
79 (BR)	Ground	Room antenna (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger com- partment	 JMKIA0063GB
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (P)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
83 (GR)	Ground	Remote keyless entry receiver communica- tion	Input/ Output		During waiting	 JMKIA0064GB
					When operating either button on the Intelli- gent Key	 JMKIA0065GB

BCM (BODY CONTROL MODULE)

[WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

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

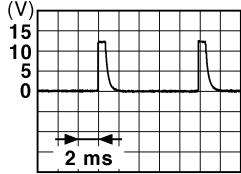
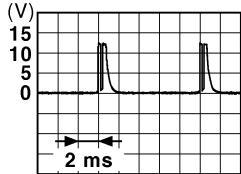
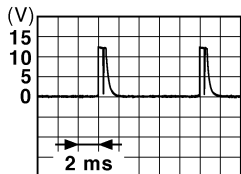
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BCM (BODY CONTROL MODULE)

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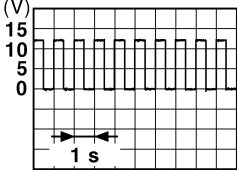
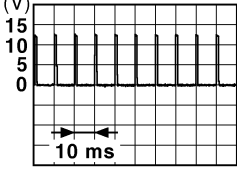
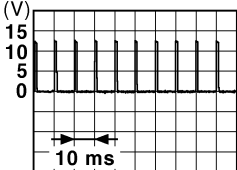
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper volume dial 4)  1.4 V
					Lighting switch HI (Wiper volume dial 4)  1.3 V
					Lighting switch 2ND (Wiper volume dial 4)  1.3 V
					Rear washer switch ON (Wiper volume dial 4)  1.3 V
					Any of the conditions be- low with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3  1.3 V
90 (P)	Ground	CAN-L	Input/ Output	—	—
91 (L)	Ground	CAN-H	Input/ Output	—	—

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

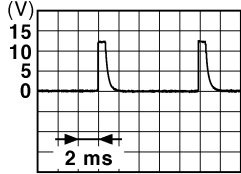
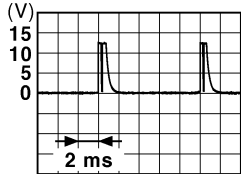
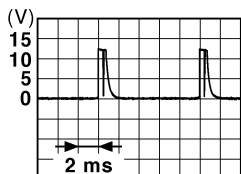
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
92 (LG)	Ground	Key slot illumination	Output	Key slot illumination	OFF	12 V
					Blinking	 JPMIA0015GB
					ON	0 V
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON or ACC	0 V
95 (BG)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	—	—	12 V
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
					Any position other than P	12 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB
102 (BG)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
103 (BR)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		12 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

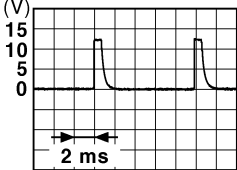
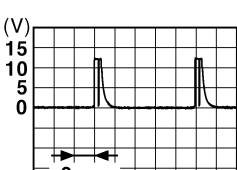
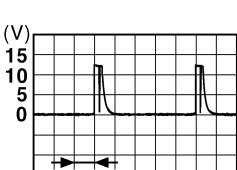
[WITH INTELLIGENT KEY SYSTEM]

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

BCM (BODY CONTROL MODULE)

[WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper volume dial 4)  JPMIA0041GB 1.4 V
					Lighting switch AUTO (Wiper volume dial 4)  JPMIA0038GB 1.3 V
					Lighting switch 1ST (Wiper volume dial 4)  JPMIA0036GB 1.3 V
					Rear wiper switch INT (Wiper volume dial 4)  JPMIA0040GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6  JPMIA0039GB 1.3 V

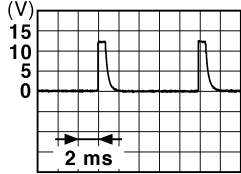
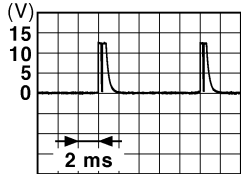
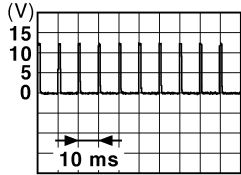
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

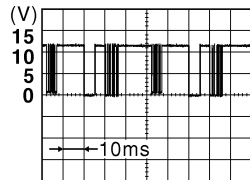
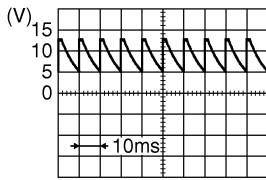
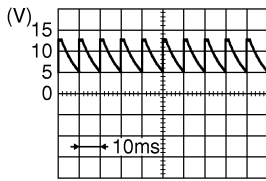
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	All switches OFF  JPMIA0041GB 1.4 V
					Lighting switch PASS  JPMIA0037GB 1.3 V
					Lighting switch 2ND  JPMIA0036GB 1.3 V
					Front wiper switch INT/ AUTO  JPMIA0038GB 1.3 V
					Front wiper switch HI  JPMIA0040GB 1.3 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	ON 0 V
					OFF  JPMIA0012GB 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 (GR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		 8.7 V
113 (P)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
116 (BR)	Ground	Stop lamp switch 1	Input	—		Battery voltage
118 (P)	Ground	Stop lamp switch 2 (Without ICC)	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is depressed)	Battery voltage
		Stop lamp switch 2 (With ICC)		Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF		0 V
				Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON		Battery voltage
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 8.5 - 9.0 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121 (BR)	Ground	Key slot switch	Input	When the Intelligent Key is inserted into key slot		12 V
				When the Intelligent Key is not inserted into key slot		0 V
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 8.5 - 9.0 V
					ON (Door open)	0 V

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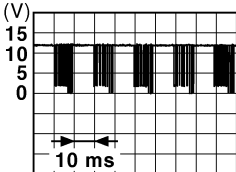
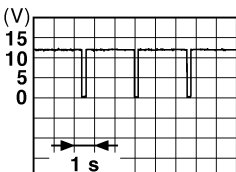
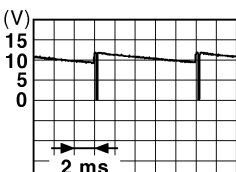
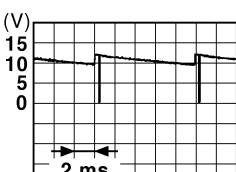
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BCM (BODY CONTROL MODULE)

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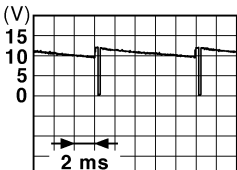
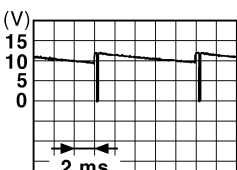
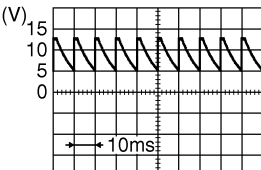
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
132 (BG)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		 10.2 V
				Ignition switch OFF or ACC		12 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
					ON	0 V
137 (B)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V
140 (R)	Ground	Selector lever P/N position	Input	Selector lever	P or N position	12 V
					Except P and N positions	0 V
141 (G)	Ground	Security indicator lamp	Output		ON	0 V
				Security indica- tor lamp	Blinking	 11.3 V
					OFF	12 V
142 (BG)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Lighting switch 1ST	
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	
					Rear wiper switch INT (Wiper volume dial 4)	
					Any of the conditions be- low with all switches OFF	
					• Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3 • Wiper volume dial 6 • Wiper volume dial 7	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	
				All switches OFF (Wiper volume dial 4)	0 V
				Front washer switch ON (Wiper volume dial 4)	 JPMIA0033GB
				Rear wiper switch ON (Wiper volume dial 4)	
				Rear washer switch ON (Wiper volume dial 4)	
				Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6	10.7 V
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper volume dial 4)	
				All switches OFF	0 V
				Front wiper switch INT/ AUTO	 JPMIA0034GB
				Front wiper switch LO	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper volume dial 4)	
				All switches OFF	0 V
				Front fog lamp switch ON	 JPMIA0035GB
				Lighting switch 2ND	
				Lighting switch PASS	
				Turn signal switch LH	
150 (GR)	Ground	Driver door switch	Input	Driver door switch	
				OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
151 (G)	Ground	Rear window defog- ger relay control	Output	Rear window de- fogger	
				ON (Door open)	0 V
				Active	0 V
				Not activated	Battery voltage

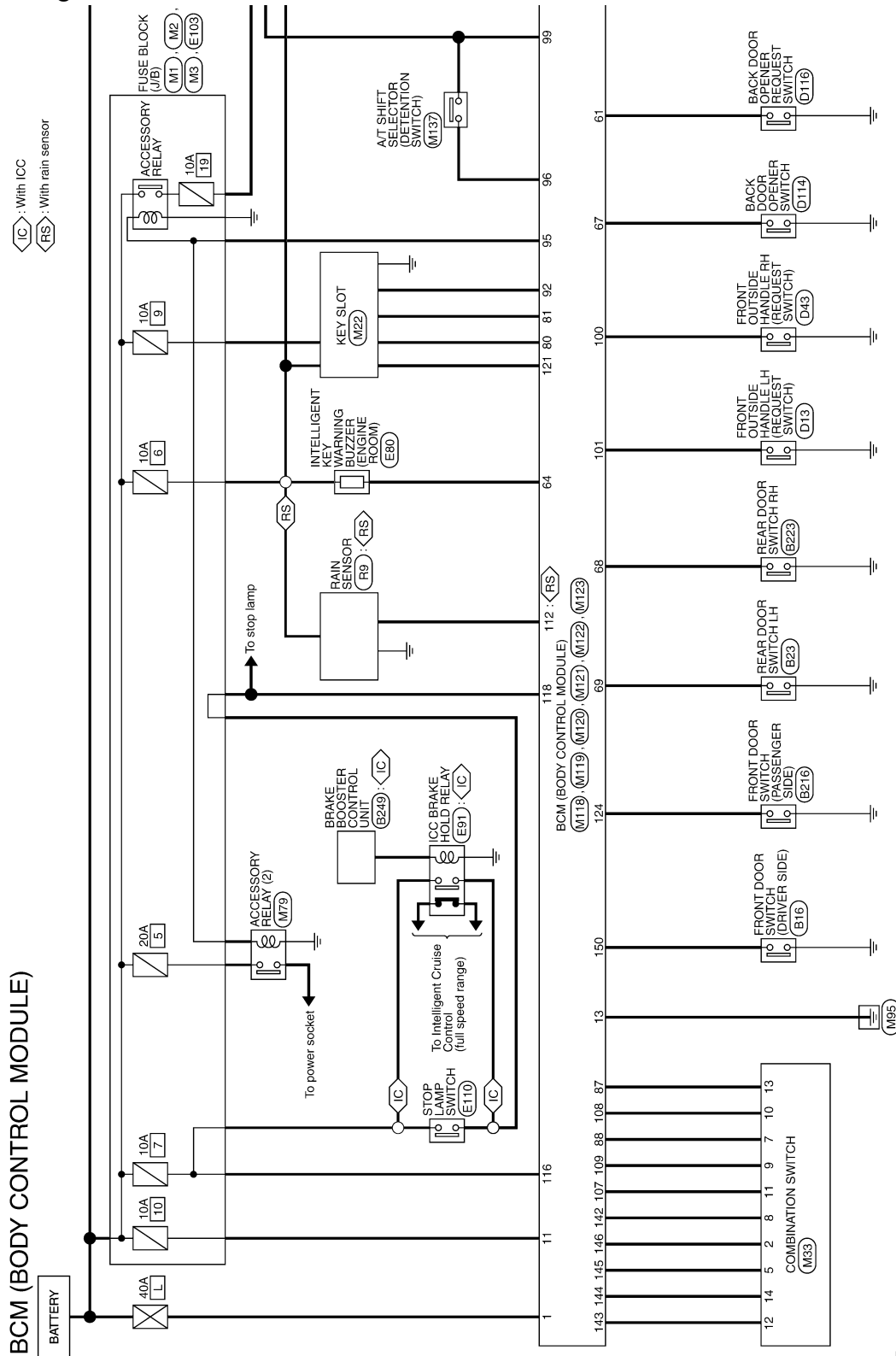
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Wiring Diagram - BCM -

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JRMWF4484GB

2014/03/18

[WITH INTELLIGENT KEY SYSTEM]

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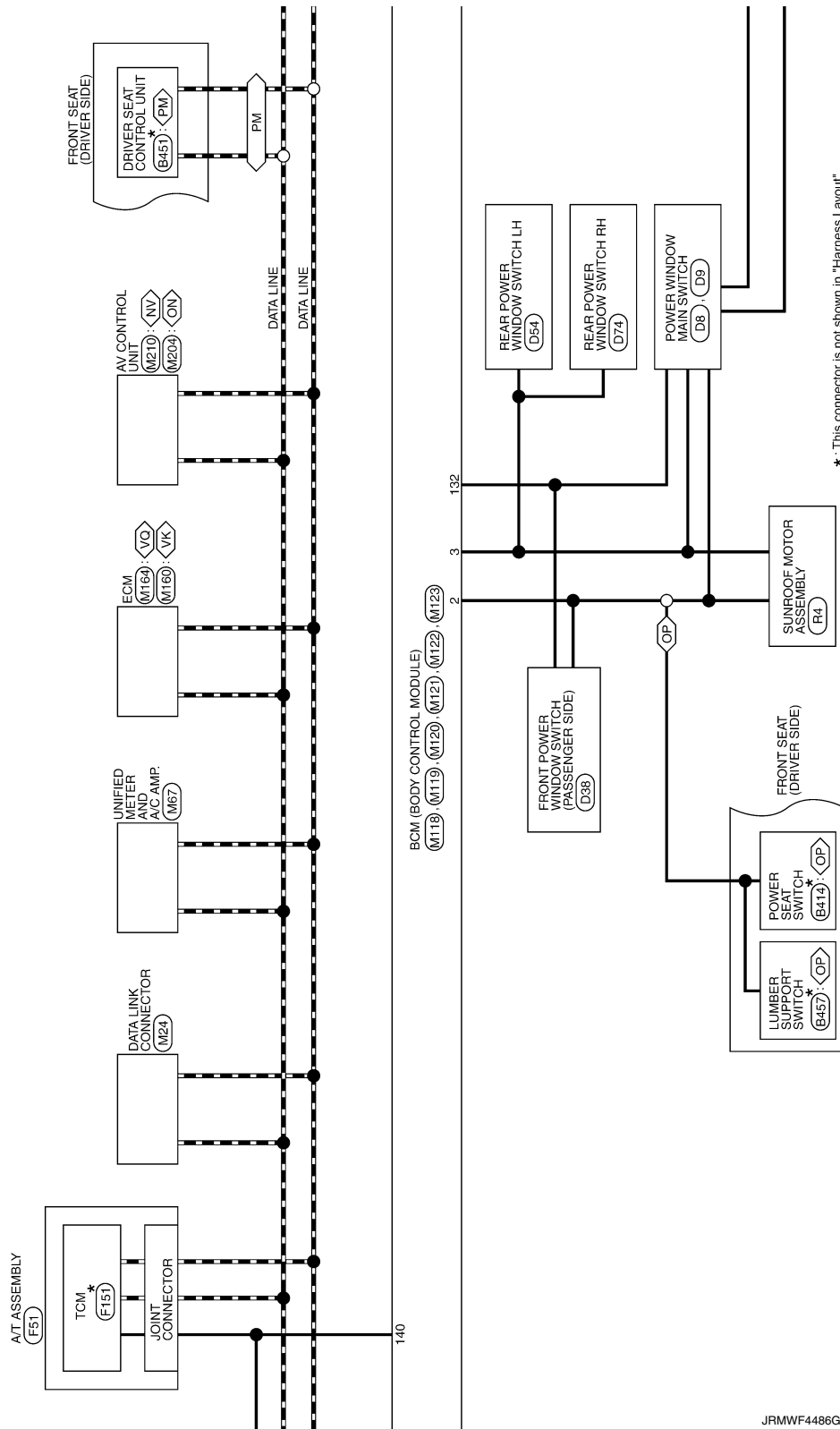


BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

- ◊VQ◊ : With VQ engine
- ◊VK◊ : With VK engine
- ◊NV◊ : With NAVI
- ◊ON◊ : Without NAVI
- ◊PM◊ : With automatic drive positioner
- ◊OP◊ : Without automatic drive positioner



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

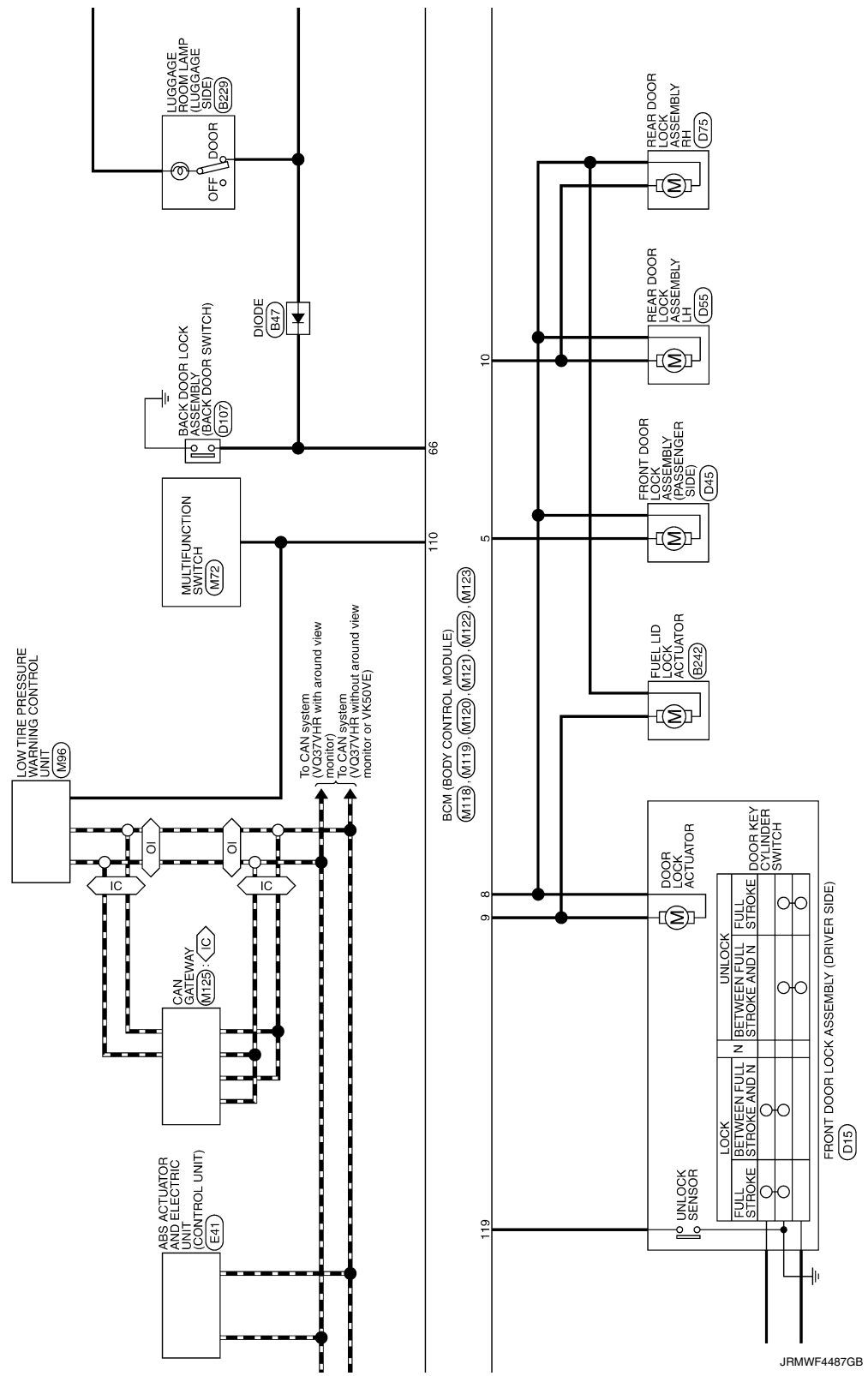
JRMWF4486GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

IC : With ICC
OI : Without ICC

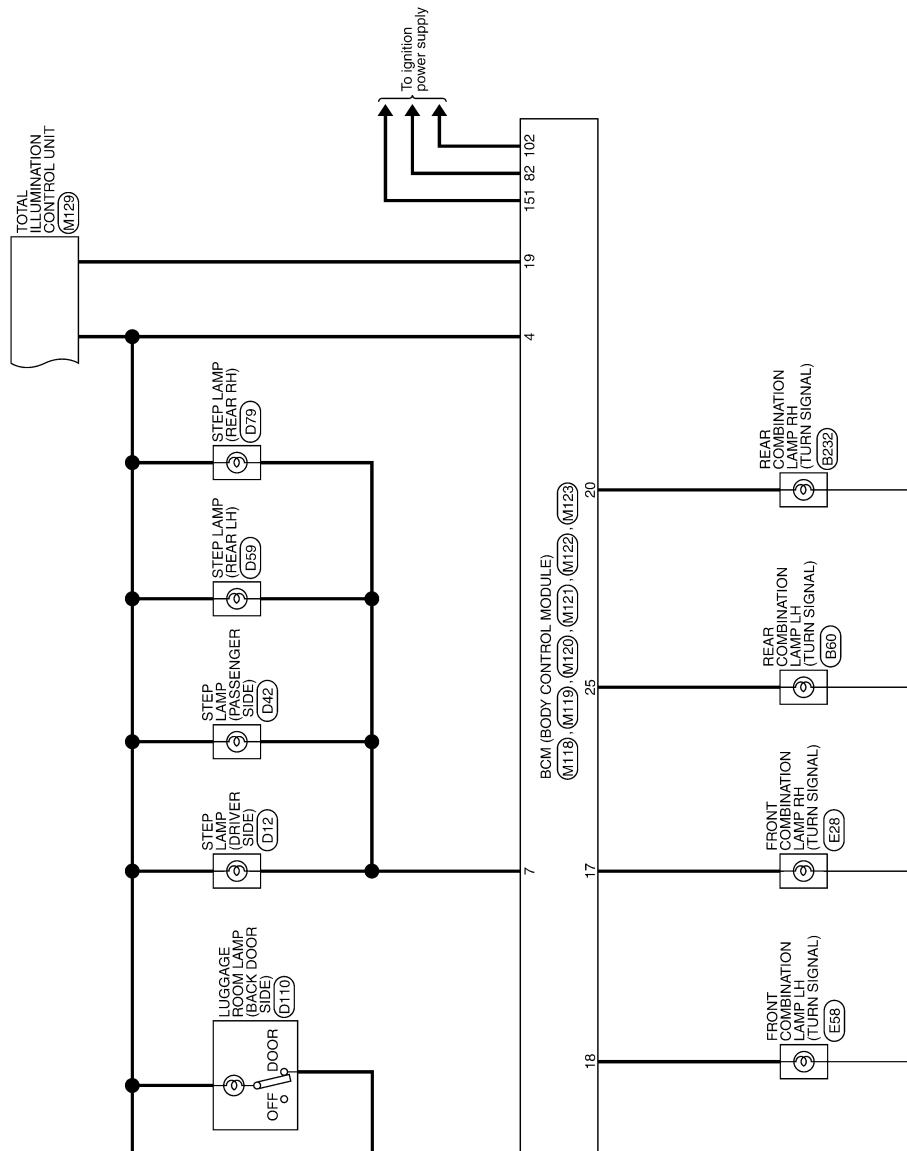


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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]



JRMWF4488GB

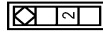
BCM (BODY CONTROL MODULE)

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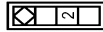
BCM (BODY CONTROL MODULE)

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



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

Connector No.	B23
Connector Name	REAR DOOR SWITCH-LH
Connector Type	A03FW



Terminal No.	Wire	Signal Name [Specification]
2	W	-

Connector No.	B47
Connector Name	DIODE
Connector Type	24135, C9000



Terminal No.	Wire	Signal Name [Specification]
1	GR	-
2	V	-

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	TH04MW-NH



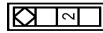
Terminal No.	Wire	Signal Name [Specification]
1	R	-
2	LG	-
3	G	-
4	B	-

Connector No.	B216
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



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

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



Terminal No.	Wire	Signal Name [Specification]
2	BG	-

Connector No.	B228
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02EGY



Terminal No.	Wire	Signal Name [Specification]
1	V	-
2	SB	-

Connector No.	B229
Connector Name	LUGGAGE ROOM LAMP (LUGGAGE SIDE)
Connector Type	TK03FW



Terminal No.	Wire	Signal Name [Specification]
1	W	-
2	L	-

Connector No.	B232
Connector Name	REAR COMBINATION LAMP RH
Connector Type	TH04MW-NH



Terminal No.	Wire	Signal Name [Specification]
1	P	-
2	LG	-
3	V	-
4	B	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

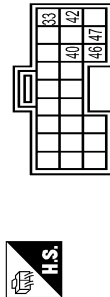
BCM (BODY CONTROL MODULE)

Connector No.	B242
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	MS4FW-LC



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

Connector No.	B249
Connector Name	BRAKE BOOSTER CONTROL UNIT
Connector Type	TK24FGY



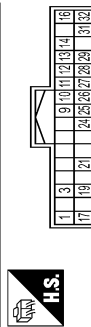
Terminal No.	Color Of Wire	Signal Name [Specification]
33	G	IGNITION
40	SB	IBA OFF SW
42	G	IGNITION
46	B	GROUND
47	LG	BRAKE HOLD RLY DRIVE SIGNAL

Connector No.	B414
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	GY	-
4	P	-
5	W	-
6	V	-
7	LY	-
8	L	-
9	L/R	-
10	GW	-
33	R	-
48	B	-

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	RX
3	R/Y	CAN-H
9	W/G	PULSE (RECLINING)
10	P/B	PULSE (RR LIFTING)
11	BR	SLIDING SW (BACKWARD)
12	SB	RECLINING SW (BACKWARD)
13	LG/R	FRONT LIFTING SW (DOWNWARD)
14	G/B	REAR LIFTING SW (DOWNWARD)
16	O	VCC
17	Y/R	TX

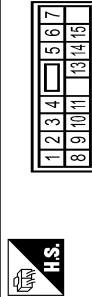
19	V	CAN-L
21	L/Y	P RANGE SW
24	R	PULSE (SLIDING)
25	Y/B	PULSE (RR LIFTING)
26	Y	SLIDING SW (FORWARD)
27	R/G	RECLINING SW (FORWARD)
28	W/B	FRONT LIFTING SW (UPWARD)
29	P/L	REAR LIFTING SW (UPWARD)
31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

Connector No.	B457
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
48	B	-
57	W	-
58	L	-

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



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

5	SB	-
6	Y	-
7	BR	-
8	L	-
9	W	-
10	O	-
11	G	-
13	P	-
14	V	-
15	W	-

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
19	Y	-

Connector No.	D12
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TB02FW



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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

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



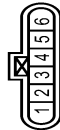
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-

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



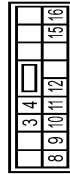
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	V	-

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



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

Connector No.	D38
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	W	-
8	L	-
9	G	-
10	Y	-
11	B	-
12	P	-
15	R	-
16	V	-

Connector No.	D42
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TB02FW



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

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



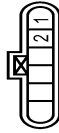
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-

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



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

Connector No.	D45
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	E08FGY-RS



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

JRMWF4491GB

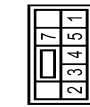
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

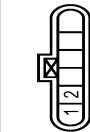
BCM (BODY CONTROL MODULE)

Connector No.	D54
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS



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

Connector No.	D55
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	E06FGY-RS



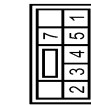
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	D59
Connector Name	STEP LAMP (REAR LH)
Connector Type	TB02FW



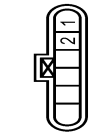
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	O	-

Connector No.	D74
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS



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

Connector No.	D75
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	E06FGY-RS



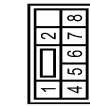
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-

Connector No.	D79
Connector Name	STEP LAMP (REAR RH)
Connector Type	TB02FW



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

Connector No.	D107
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LW	-
2	LB	-
3	G	-
4	L	-
5	W	-
6	LG	-
7	LG	-
8	GR	-

Connector No.	D110
Connector Name	LUGGAGE ROOM LAMP (BACK DOOR SIDE)
Connector Type	TK03FW



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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

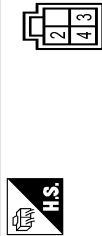
BCM (BODY CONTROL MODULE)

Connector No.	D114
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	TK02MBR-P



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

Connector No.	D115
Connector Name	REAR WIPER MOTOR
Connector Type	CJ04FW-1V



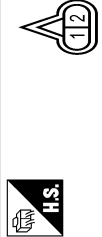
Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
3	BG	-
4	B	-

Connector No.	D116
Connector Name	BACK DOOR OPENER REQUEST SWITCH
Connector Type	TK02MBR-P



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

Connector No.	D118
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RK02FGY



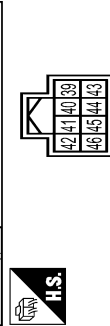
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	E5
Connector Name	IPDM/ER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH02FW-CS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
7	R	-
10	SB	-
12	B	-
13	Y	-
16	LG	-
19	W	-
25	G	-
26	R	-
27	Y	-
28	BG	-
30	GR	-
36	G	-

Connector No.	E6
Connector Name	IPDM/ER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH08FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B	-
42	Y	-
43	SB	-
44	W	-

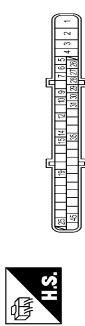
45	G
46	BR

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS04FB-PR



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

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA42FB-AH24-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	LBWR
3	R	LBVR
4	B	GROUND
5	Y	DS FL
6	BG	DP RL
7	BR	DP RL
8	B	DP FR
10	W	DS FR
12	L	VAC
14	P	CAN-L
15	SHIELD	AGND

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	Signal Name [Specification]
19 P	UST
25 Y	BUS-L
26 R	DP FL
27 GR	DS RL
28 G	UZ
29 LG	DS RR
30 SB	BLS
31 R	VDC OFF SW
35 L	CANH
45 B	BUS-H

Connector No.	Signal Name [Specification]
E58	FRONT COMBINATION LAMP LH
Connector Name	RS04EB-PR
Connector Type	



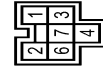
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	G	-
3	B	-
4	BG	-

Connector No.	Signal Name [Specification]
E80	INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM)
Connector Name	FK03FBR
Connector Type	



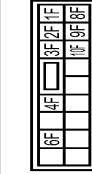
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	+BAT (VOL SMALL)
3	GR	BUZZER SIGNAL

Connector No.	Signal Name [Specification]
E91	ICC BRAKE HOLD RELAY
Connector Name	M06FGY-R-US
Connector Type	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-
3	G	-
4	G	-
6	W	-
7	L	-

Connector No.	Signal Name [Specification]
E103	FUSE BLOCK (J/B)
Connector Name	NS16FW-CS
Connector Type	



Terminal No.	Color Of Wire	Signal Name [Specification]
10F	L	-
1F	SB	-
2F	W	-
3F	Y	-
4F	G	-
6F	BG	-
8F	L	-
9F	R	-

Connector No.	Signal Name [Specification]
E110	STOP LAMP SWITCH
Connector Name	M04FW-LC
Connector Type	



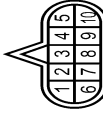
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	G	-
4	BR	-

Connector No.	Signal Name [Specification]
F51	A/T ASSEMBLY
Connector Name	RK0FG-DGY
Connector Type	



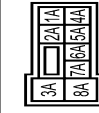
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	R	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	CANH
4	V	K-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	P	CAN-L
9	GR	STARTER RELAY (With VQ engine)
9	LG	STARTER RELAY (With VK engine)
10	B	GROUND

Connector No.	Signal Name [Specification]
F151	TCM
Connector Name	SP10FG
Connector Type	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	IGNITION POWER SUPPLY
2	B	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	R	CANH
4	O	K-LINE
5	G	GROUND
6	GR	IGNITION POWER SUPPLY
7	L	BACK-UP LAMP RELAY
8	BR	CAN-L
9	Y	STARTER RELAY
10	WB	GROUND

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

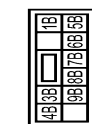
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

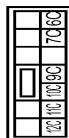
BCM (BODY CONTROL MODULE)

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



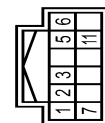
Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

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



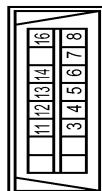
Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	LG	-
12C	R	-
6C	P	-
7C	B	-
9C	BG	-

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



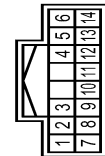
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	BAT
2	GR	CLOCK
3	W	DATA
4	Y	ILL BAT
5	L	ILL BAT
6	LG	ILL BAT
7	B	GROUND
11	BR	KEY SWITCH SIGNAL

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



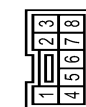
Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	P	-
13	L	-
14	P	-
16	BG	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	FR WASHER (-)
2	SB	OUTPUT 4
3	BG	FR WASHER (+)
4	G	IG
5	L	OUTPUT 3
6	B	GROUND
7	V	INPUT 3
8	BG	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

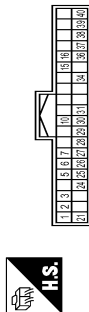
Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	BG	-
4	SB	-
5	GR	-
6	Y	-

7	V
8	P

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	W	ALTERNATOR SIGNAL
7	P	AIR BAG SIGNAL
10	G	SECURITY INDICATOR SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
21	R	IGNITION SIGNAL
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
25	Y	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	PASSENGER SEAT BELT WARNING SIGNAL
31	L	WASHER LEVEL SWITCH SIGNAL
34	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP AIR RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

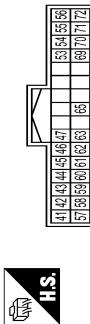
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

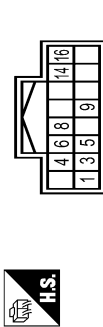
BCM (BODY CONTROL MODULE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FM-NH



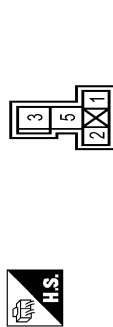
Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CANH
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	ION MODE SIGNAL
65	BG	ECV SIGNAL
69	L	A/C LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CANH

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	V	ACC
4	R	ILL
5	R	ILL CONT
8	SB	AV COM1 (H)
8	LG	AV COM1 (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL
16	G	HAZARD ON

Connector No.	M79
Connector Name	ACCESSORY RELAY (2)
Connector Type	MS02FL-M2-LC



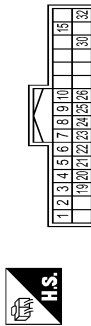
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	LG	-
5	L	-

Connector No.	M94
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	POWER
2	P	OUTPUT
3	B	GROUND

Connector No.	M95
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Type	TH32FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CAN- (L)
2	L	CAN+ (H)
3	BG	RR TUNER (SIG)
4	L	RL TUNER (SIG)
5	R	FR TUNER (SIG)
6	P	FL TUNER (SIG)
7	SB	RR TUNER (VCC)
8	R	RL TUNER (VCC)
9	GR	FR TUNER (VCC)
10	G	FL TUNER (VCC)
15	Y	IGN
19	W	RR TUNER (RSSI)
20	BR	RL TUNER (RSSI)
21	LG	FR TUNER (RSSI)
22	V	FL TUNER (RSSI)
23	B	RR TUNER (GND)
24	Y	RL TUNER (GND)

25	W	FR TUNER (GND)
26	P	FL TUNER (GND)
30	LG	BCM FLASHER
32	B	GROUND

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	GR	SIGNAL OUTPUT
4	BR	BATTERY

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	IM03FB-LC



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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

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



4	5	7	8	9	10
11	13	15	17	18	19

Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAME)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

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



20	25	26
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Terminal No.	Color Of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
25	G	TURN SIGNAL LH (REAR)
26	P	REAR WIPER OUTPUT

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



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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	M129
Connector Name	TOTAL ILLUMINATION CONTROL UNIT
Connector Type	TH40FW-NH



Terminal No.	Wire	Signal Name [Specification]
3	V	DDL2
4	L	TAIL LAMP SIGNAL
5	V	ACC SIGNAL
6	P	BAT SAVING SIGNAL
7	W	IGN SIGNAL
8	G	DOOR SW (AS)
9	B	DOOR SW (RL)
10	B	MOOD LAMP (FR ARMREST RH)
11	Y	MOOD LAMP (RR ARMREST RH)
12	P	MAP LAMP (AS)
13	G	PERSONAL LAMP (LH)
14	R	PERSONAL LAMP (RH)
16	GR	FOOT LAMP (RH)
17	LG	HSPL ILLUMINATIONS
18	L	MAP LAMP (DR)
19	R	PUSH ENG START SW LED
20	Y	AMBIENCE LAMP
21	R	BAT POWER SUPPLY
23	B	GROUND
24	B	ILL CONT INPUT
25	BR	DOOR SW (RR)
26	BR	MAP LAMP SW (DOOR)
27	R	MAP LAMP SW (ALL ON)
28	SB	ROOM LAMP TIMER
29	GR	DOOR SW (DR)
30	LG	MOOD LAMP (FR ARMREST LH)
31	B	MOOD LAMP (RR ARMREST LH)
33	W	HSPL POWER SUPPLY 3
34	R	HSPL POWER SUPPLY 2
35	V	HSPL POWER SUPPLY 1
36	L	FOOT LAMP (LH)
39	B	FIDDLE LAMP (RH)
40	B	PUDDLE LAMP (LH)

Connector No.	M131
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02MGY

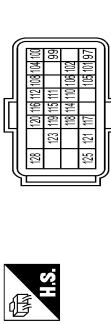


Terminal No.	Wire	Signal Name [Specification]
1	BR	-
2	Y	-



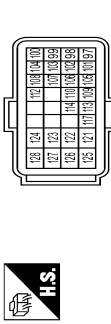
Terminal No.	Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
7	B	-
8	SB	-
9	B	-
10	GR	-
11	R	-

Connector No.	M160
Connector Name	ECM
Connector Type	RH24FGY-R28-LH-Z



Terminal No.	Wire	Signal Name [Specification]
97	R	ENGINE SPEED SIGNAL OUTPUT
99	G	SENSOR POWER SUPPLY
100	L	SENSOR POWER SUPPLY
101	P	CAN COMMUNICATION LINE
102	SB	ASCD/CC STEERING SWITCH
104	R	ACCELERATOR PEDAL POSITION SENSOR 1
105	L	CAN COMMUNICATION LINE
108	P	ACCELERATOR PEDAL POSITION SENSOR 2
110	P	STOP LAMP SWITCH
111	V	SENSOR GROUND
112	LG	FUEL PUMP CONTROL MODULE (FFCM) CHECK
114	GR	DATA LINK CONNECTOR
115	GR	SENSOR GROUND
116	G	TRANSMISSION RANGE SWITCH
117	BR	ASCD/CC BRAKE SWITCH
118	R	POWER SUPPLY FOR ECM (BACK-UP)
119	W	SENSOR GROUND
120	W	FUEL TANK TEMPERATURE SENSOR
121	GR	POWER SUPPLY FOR ECM
123	B	ECM GROUND
125	R	FUEL PUMP CONTROL MODULE (FFCM)
128	B	ECM GROUND

Connector No.	M164
Connector Name	ECM
Connector Type	RH24FGY-R28-LH-Z



Terminal No.	Wire	Signal Name [Specification]
97	R	ACCELERATOR PEDAL POSITION SENSOR 1
98	P	ACCELERATOR PEDAL POSITION SENSOR 2 (WITH NAVI)
99	Y	ACCELERATOR PEDAL POSITION SENSOR 2 (WITH NAVI)
99	G	SENSOR POWER SUPPLY (WITH NAVI)
100	L	SENSOR POWER SUPPLY (Without NAVI)
100	W	SENSOR GROUND
101	SB	ASCD/CC STEERING SWITCH
102	LG	EVAP CONTROL SYSTEM PRESSURE SENSOR
103	G	SENSOR POWER SUPPLY (Without NAVI)
103	L	SENSOR POWER SUPPLY (With NAVI)
104	BR	SENSOR GROUND (With NAVI)
104	GR	SENSOR GROUND (Without NAVI)
105	L	REFRIGERANT PRESSURE SENSOR
106	W	FUEL TANK TEMPERATURE SENSOR
107	B	SENSOR POWER SUPPLY
108	V	SENSOR GROUND
109	G	PNP SIGNAL
110	R	ENGINE SPEED OUTPUT SIGNAL
112	V	SENSOR GROUND (With NAVI)
112	W	SENSOR GROUND (Without NAVI)
113	P	CAN COMMUNICATION LINE
114	L	CAN COMMUNICATION LINE
117	GR	DATA LINK CONNECTOR
121	LG	EVAP CANISTER VENT CONTROL VALVE
122	P	STOP LAMP SWITCH
123	B	ECM GROUND
124	B	ECM GROUND
125	GR	POWER SUPPLY FOR ECM
126	BR	ASCD/CC BRAKE SWITCH
127	B	ECM GROUND
128	B	ECM GROUND

JRMWF4498GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	M204
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
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Terminal No.	Color	Wire	Signal Name [Specification]
76	LG		AV COMM (L)
77	SB		AV COMM (H)
78	LG		AV COMM (L)
79	SB		AV COMM (H)
80	P		CAN-L
81	L		CAN-H
82	BR		SW GND
86	SHIELD		SHIELD
87	L		TEL VOICE SIGNAL (+)
88	P		TEL VOICE SIGNAL (-)
92	R		VEHICLE SPEED SIGNAL (8-PULSE)
93	V		PARKING BRAKE SIGNAL
94	BG		REVERSE SIGNAL
95	G		IGNITION SIGNAL
96	SB		DISK EJECT SIGNAL
102	B		AUX AUDIO LH+
103	W		AUX AUDIO LH+
104	R		AUX AUDIO RH+

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
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Terminal No.	Color	Wire	Signal Name [Specification]
65	V		PARKING BRAKE SIGNAL
67	B		COMPOSITE IMAGE SIGNAL GND
68	R		COMPOSITE IMAGE SIGNAL
71	SHIELD		MICROPHONE SHIELD
72	G		MICROPHONE VCC
73	R		COMM (CONT->DISP)
74	P		CAN-L
75	LG		AV COMM (L)
76	LG		AV COMM (L)
79	R		ILLUMINATION
80	G		IGNITION SIGNAL
81	BG		REVERSE SIGNAL
82	R		VEHICLE SPEED SIGNAL (8-PULSE)
87	R		MICROPHONE SIGNAL
88	B		SHIELD
89	G		COMM (DISP->CONT)
90	L		CAN-H
91	SB		AV COMM (H)
92	SB		AV COMM (H)

Connector No.	R4
Connector Name	SUNROOF MOTOR ASSEMBLY
Connector Type	YEA10FGY

1	2	3	4	5	6	7	8	9	10
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Terminal No.	Color	Wire	Signal Name [Specification]
1	GR		SW-BIT1
5	P		SW-BIT0
7	BR		+B
8	L		SPEED SENSOR (2P)
9	Y		TIMER (+IGN)
10	G		GROUND

Connector No.	R9
Connector Name	RAIN SENSOR
Connector Type	AA803FB

1	2	3
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Terminal No.	Color	Wire	Signal Name [Specification]
1	BR		+B
2	GR		S/G
3	B		GROUND

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

JRMWF4499GB

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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 • Starter control relay signal • Starter relay status signal
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter 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

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

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

NOTE:

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

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 stops.
2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:0000000011002916

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	• U1000: CAN COMM • U1010: CONTROL UNIT(CAN)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Priority	DTC
3	- B2190: NATS ANTENNA AMP - B2191: DIFFERENCE OF KEY - B2192: ID DISCORD BCM-ECM - B2193: CHAIN OF BCM-ECM - B2195: ANTI SCANNING
4	- B2553: IGNITION RELAY - B2555: STOP LAMP - B2556: PUSH-BTN IGN SW - B2557: VEHICLE SPEED - B2560: STARTER CONT RELAY - B2601: SHIFT POSITION - B2602: SHIFT POSITION - B2603: SHIFT POSI STATUS - B2604: PNP/CLUTCH SW - B2605: PNP/CLUTCH SW - B2608: STARTER RELAY - B260A: IGNITION RELAY - B260F: ENG STATE SIG LOST - B2614: BCM - B2615: BCM - B2616: BCM - B2617: BCM - B2618: BCM - B261A: PUSH-BTN IGN SW - B261E: VEHICLE TYPE - B26EA: KEY REGISTRATION - U0415: VEHICLE SPEED SIG
5	- B2621: INSIDE ANTENNA - B2623: INSIDE ANTENNA
6	B26E7: TPMS CAN COMM

DTC Index

INFOID:0000000011002917

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-20, "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference
No DTC is detected. Further testing may be required.	—	—	—	—
U1000: CAN COMM	—	—	—	BCS-39
U1010: CONTROL UNIT(CAN)	—	—	—	BCS-40
U0415: VEHICLE SPEED SIG	—	—	—	BCS-41
B2190: NATS ANTENNA AMP	×	—	—	SEC-47
B2191: DIFFERENCE OF KEY	×	—	—	SEC-50
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-51
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-53
B2195: ANTI SCANNING	×	—	—	SEC-54
B2553: IGNITION RELAY	—	×	—	PCS-53
B2555: STOP LAMP	—	×	—	SEC-55

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 warn- ing lamp ON	Reference
B2556: PUSH-BTN IGN SW	—	×	×	SEC-57
B2557: VEHICLE SPEED	×	×	×	SEC-59
B2560: STARTER CONT RELAY	×	×	×	SEC-60
B2562: LOW VOLTAGE	—	×	—	BCS-42
B2601: SHIFT POSITION	×	×	×	SEC-61
B2602: SHIFT POSITION	×	×	×	SEC-64
B2603: SHIFT POSI STATUS	×	×	×	SEC-66
B2604: PNP/CLUTCH SW	×	×	×	SEC-69
B2605: PNP/CLUTCH SW	×	×	×	SEC-71
B2608: STARTER RELAY	×	×	×	SEC-73
B260A: IGNITION RELAY	×	×	×	PCS-55
B260F: ENG STATE SIG LOST	×	×	×	SEC-75
B2614: BCM	—	×	×	PCS-57
B2615: BCM	—	×	×	PCS-59
B2616: BCM	—	×	×	PCS-61
B2617: BCM	×	×	×	SEC-77
B2618: BCM	×	×	×	PCS-63
B261A: PUSH-BTN IGN SW	—	×	×	SEC-79
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-82
B2621: INSIDE ANTENNA	—	×	—	DLK-101
B2623: INSIDE ANTENNA	—	×	—	DLK-103
B26E7: TPMS CAN COMM	—	—	—	BCS-43
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	SEC-76

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CONTROL UNIT

Reference Value

INFOID:0000000010577750

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
SPINDLE SENSOR LH	Back door: Moving		0 – 65535
SPINDLE LH SPEED	Back door: Moving		0 – 6553.5
SPINDLE MOTOR LH DUTY	Back door: Moving		0 – 255
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
BACK DOOR LOCK STATUS	Back door lock	Lock	OFF
		Unlock	ON
OPEN SW	Back door	Half latch/fully closed	OFF
		Open	ON
CLOSE SW	Back door	Open/half latch	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
SPINDLE LH ENCODER A	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
SPINDLE LH ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO

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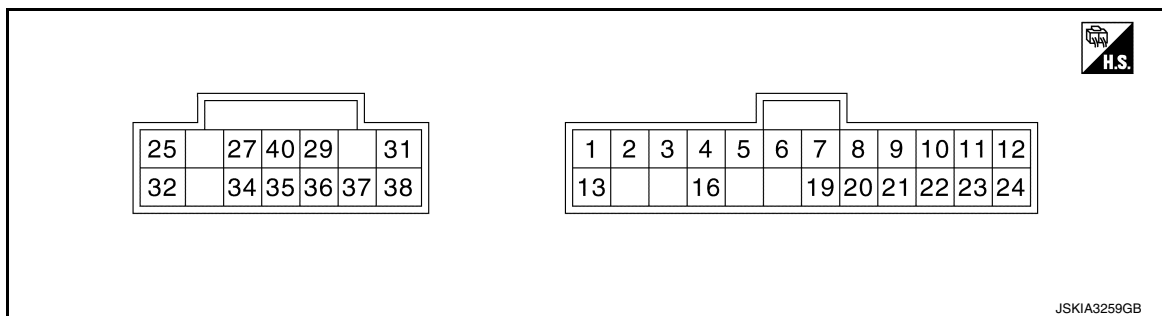
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition		Value/Status
UNLOCK SEN BD	NOTE: The item is indicated, but not monitored		OFF
DESTINATION	—		Type 4
AUTO BCK DR POS INITIAL	Calibration of automatic back door position information	Not complete	YET
		Complete	DONE
AUTO BCK DR POS LEARN	Additional service when removing battery negative terminal	Not complete	YET
		Complete	DONE
SPINDLE SENSOR RH	Back door: Moving		0 – 65535
SPINDLE RH SPEED	Back door: Moving		0 – 6553.5
SPINDLE MOTOR RH DUTY	Back door: Moving		0 – 255
SPINDLE RH ENCODER A	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
SPINDLE RH ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
TRANSMISSION TYPE	—		AT/CVT

TERMINAL LAYOUT



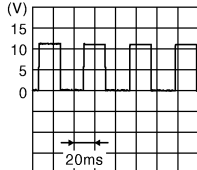
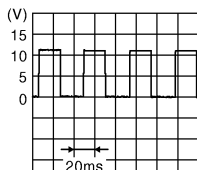
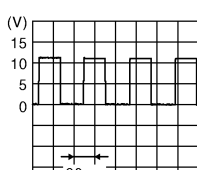
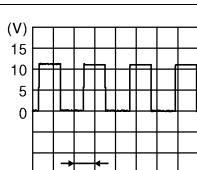
PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
1 (LG)	13 (BG)	Touch sensor RH signal	Input	Touch sensor RH	Detect obstruction	1.8 – 5 V
					Other than above	2.72 – 7.27 V
2 (G)	13 (BG)	Touch sensor LH signal	Input	Touch sensor LH	Detect obstruction	1.8 – 2.72 V
					Other than above	5.0 – 7.27 V
3 (W)	Ground	Half latch switch signal	Input	Back door	Open	0 V
					Fully closed/half latch	16 – 8 V
4 (B)	Ground	Ground	—	—	—	0 V
5 (L)	Ground	Close switch signal	Input	Back door	Fully closed	0 V
					Open/half latch	16 – 8 V

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(-)	Signal name	Input/ Output			
6 (W)	Ground	Encoder LH A signal	Input	Back door	Moving (auto or manual)	 NOTE: Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
7 (L)	Ground	Encoder LH B signal	Input	Back door	Moving (auto or manual)	 NOTE: Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
8 (LG)	Ground	Encoder RH A signal	Input	Back door	Moving (auto or manual)	 NOTE: Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
9 (SB)	Ground	Encoder RH B signal	Input	Back door	Moving (auto or manual)	 NOTE: Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
10 (BG)	Ground	Automatic back door main switch	Input	Automatic back door main switch	ON	16 – 8 V
					OFF	0 V
11 (G)	Ground	Open switch signal	Input	Back door	Open	0 V
					Half latch/fully closed	16 – 8 V
12 (P)	Ground	CAN - L	Input/ Output	—	—	—

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DLK

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(-)	Signal name	Input/ Output			
13 (BG)	Ground	Touch sensor ground	Input	—		0.01 – 0 V
19 (V)	Ground	Encoder LH power supply	Output	—		16.75 – 6 V
20 (P)	Ground	Encoder RH power supply	Output	—		16.75 – 6 V
21 (G)	Ground	Encoder ground	—	—		0 V
22 (Y)	Ground	Automatic back door switch	Input	Automatic back door switch	Pressed	16 V
					Released	0 V
23 (BG)	Ground	Automatic back door close switch	Input	Automatic back door close switch	Pressed	16 V
					Released	0 V
24 (L)	Ground	CAN - H	Input/ Output	—		—
25 (W)	Ground	Power supply (BAT)	Input	—		16.75 – 8.5 V
27 (BR)	Ground	Spindle motor LH (open)	Output	Back door	Auto open operation	16.75 – 8.5 V
29 (W)	Ground	Spindle motor RH (open)	Output	Back door	Auto open operation	16.75 – 8.5 V
31 (L/Y)	Ground	Back door closure motor (open)	Output	Back door	Open operation	16 – 7.8 V
					Other than above	0 V
32 (B)	Ground	Ground	—	—		0 V
34 (G)	Ground	Spindle motor LH (close)	Output	Back door	Auto close operation	16 – 8 V
35 (—)	Ground	Ground (noise shield)	—	—		0.01 – 0 V
36 (B)	Ground	Spindle motor RH (close)	Output	Back door	Auto close operation	16 – 8 V
37 (L)	Ground	Automatic back door warning buzzer	Output	Automatic back door warning buzzer	Sounding	0 V
					Not sounding	16.0 – 7.5 V
38 (L/B)	Ground	Back door closure motor (close)	Output	Back door	Close operation	16 – 7.8 V
					Other than above	0 V
40 (—)	Ground	Ground (noise shield)	—	—		0.01 – 0 V

AUTOMATIC BACK DOOR CONTROL UNIT

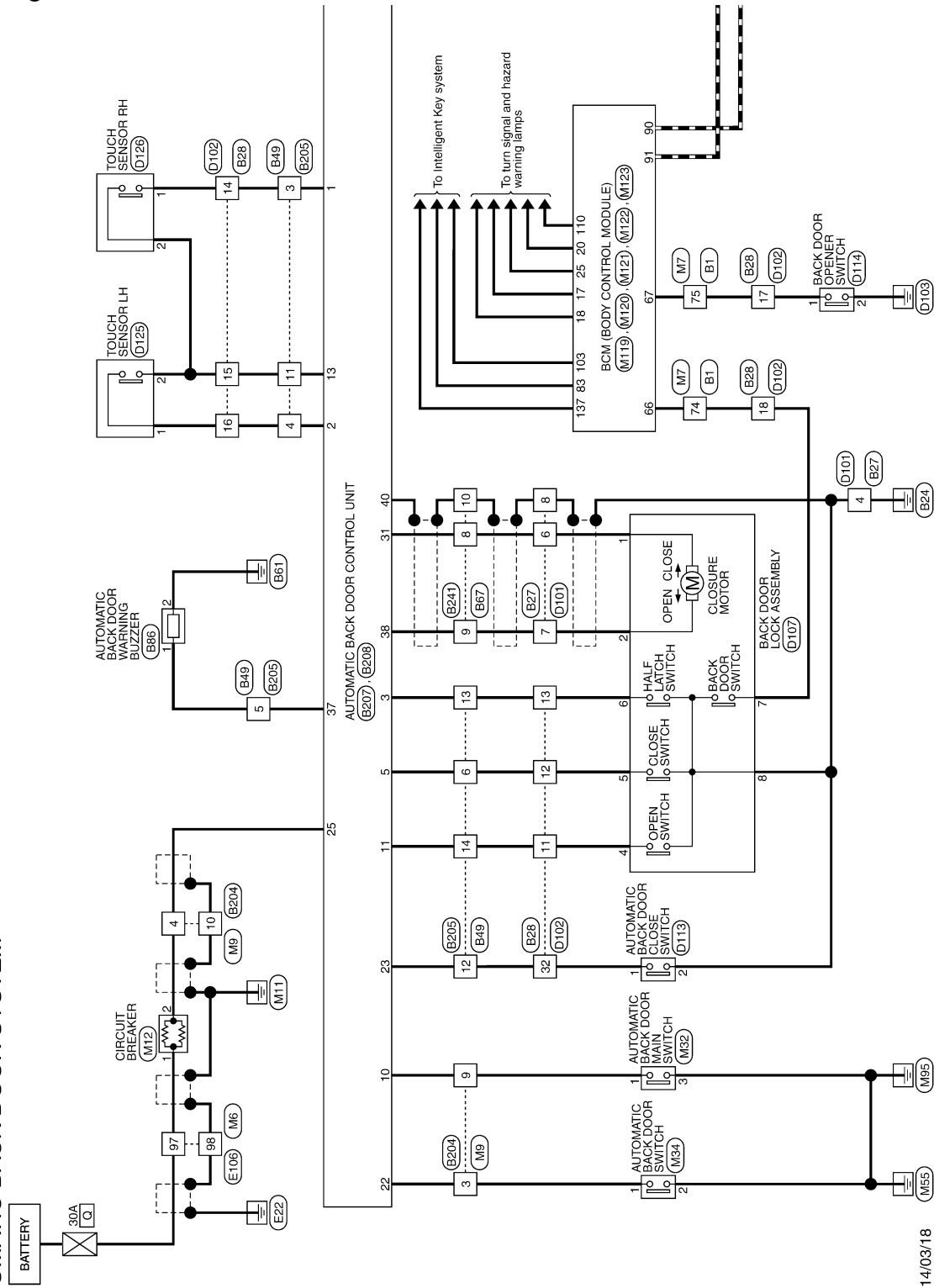
< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Wiring Diagram - AUTOMATIC BACK DOOR SYSTEM -

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AUTOMATIC BACK DOOR SYSTEM



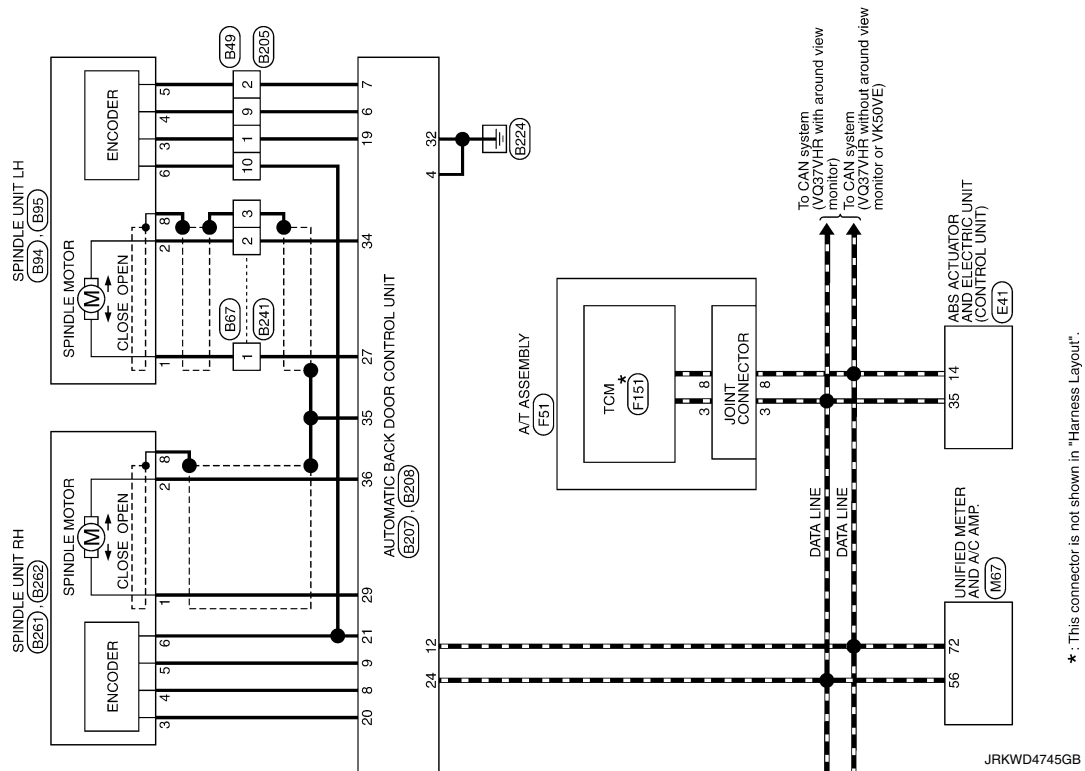
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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]



AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
5	P	-
6	BG	-
7	SB	-
8	SB	-
9	SB	-
10	SB	-
11	SB	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	Y	-
21	W	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	V	-
45	GR	-
51	V	-
52	SB	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-

57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	P	-
62	GR	-
63	G	-
64	BG	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	GR	-
71	G	-
72	B	-
73	W	-
74	V	-
75	BG	-
76	LG	-
77	L	-
78	GR	-
79	W	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	R	-
86	Y	-
87	B	-
88	G	-
89	BR	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	GR	-
99	W	-

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	MO8MMW-GY-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	W	-
4	B	-
6	BR	-
7	G	-
8	SHIELD	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH32MMW-NH



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

13	W	-
14	LG	-
15	BG	-
16	G	-
17	BG	-
18	V	-
19	W	-
20	B	-
21	G	-
22	LG	-
23	R	-
24	BG	-
25	BR	-
26	GR	-
27	L	-
32	BG	-

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	TH16MMW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	L	-
3	LG	-
4	G	-
5	L	-
6	L	-
9	W	-
10	G	-
11	BG	-
12	BG	-
13	W	-
14	G	-

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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	B67
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	G	-
3	SHIELD	-
5	G	-
8	BR	-
9	G	-
10	SHIELD	-
11	L	-
12	GR	-
13	R	-
14	R	-

Connector No.	B66
Connector Name	AUTOMATIC BACK DOOR WARNING BUZZER
Connector Type	RK02FBR-DGY



2	1
---	---

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

Connector No.	B94
Connector Name	SPINDLE UNIT LH
Connector Type	NS04MW-CS



1	2	8
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	G	-
8	SHIELD	-

Connector No.	B95
Connector Name	SPINDLE UNIT LH
Connector Type	TH04MW-AH



3	4	6	5
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Terminal No.	Color Of Wire	Signal Name [Specification]
3	V	-
4	W	-
5	L	-
6	G	-

Connector No.	B204
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



4	3		2	1	
10	9	8	7	6	5

Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	W	-
9	BG	-
10	SHIELD	-

Connector No.	B205
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-AH



8	7	6	5	4	3	2	1
16	15	14	13	12	11	10	9

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	L	-
3	LG	-
4	G	-
5	L	-
6	L	-
9	W	-
10	G	-
11	BG	-
12	BG	-
13	W	-
14	G	-

Connector No.	B207
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	AA024FB



1	2	3	4	5	6	7	8	9	10	11	12
13							19	20	21	22	23
										24	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	TOUCH SENS RH
2	G	TOUCH SENS LH
3	W	HALF LATCH SW
4	B	AUT UNLK REG
5	L	CLOSE SW
6	W	A-SIGN LH
7	L	B-SIGN LH
8	LG	A-SIGN RH
9	SB	B-SIGN RH
10	BG	MAIN SW
11	G	OPEN SW
12	P	CANL
13	BG	TOUCH SENS GND
19	V	POWER LH
20	P	POWER RH
21	G	GROUND
22	Y	DRIVER SW
23	BG	INSIDE CLOSE SW
24	L	CAN-H

Connector No.	B208
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	YEA10FGY-YH4



25	27	40	29	31	
32	34	35	36	37	38

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
25	W	BAT
27	BR	P. BID. LH. MTR. OPEN
29	W	P. BID. RH. MTR. OPEN
31	L/Y	LATCH. MTR. OPEN
32	B	GROUND
34	G	P. BID. LH. MTR. CLOSE
35	SHIELD	SPINDLE NOISE
36	B	P. BID. RH. MTR. CLOSE
37	L	BUZZER
38	L/B	LATCH. MTR. CLOSE
40	SHIELD	NOISE. SHILD

Connector No.	B241
Connector Name	WIRE TO WIRE
Connector Type	NS 6FBR-CS



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8	7	6	5	4	3
2	1	0	9	8	7	6

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	G	-
3	SHIELD	-
5	G	-
8	L/Y	-
9	L/B	-
10	SHIELD	-
11	L	-
12	W	-
13	P	-
14	R	-

Connector No.	B261
Connector Name	SPINDLE UNIT RH
Connector Type	NS 4MMW-CS



1	2	8
---	---	---

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

Connector No.	B262
Connector Name	SPINDLE UNIT RH
Connector Type	TH 4MMW-NH



3	4	6	5
---	---	---	---

Terminal No.	Color Of Wire	Signal Name [Specification]
3	P	-
4	LG	-
5	SB	-
6	G	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	M08FW-GY-LC



4	3	2	1
8	7	6	5

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	R	-
4	GR	-
6	L/W	-
7	L/B	-
8	SHIELD	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH 32FW-NH



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

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

14	LG	-
15	BG	-
16	G	-
17	W	-
18	LG	-
19	BR	-
20	R	-
21	V	-
22	LG	-
23	P	-
24	BG	-
25	BG	-
26	GR	-
27	L	-
32	BG	-

Connector No.	D107
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS 8FW-CS



1	2
4	5
6	7
8	8

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	-
2	L/B	-
4	G	-
5	L	-
6	W	-
7	LG	-
8	GR	-

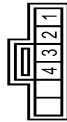
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	D113
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type	TK08FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	R	-
4	LG	-

Connector No.	D114
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	TK02MBR+P



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

Connector No.	D125
Connector Name	TOUCH SENSOR LH
Connector Type	TK02MW



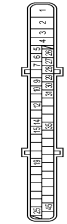
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-

Connector No.	D126
Connector Name	TOUCH SENSOR RH
Connector Type	TK02MGY



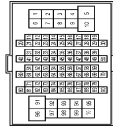
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	BG	-

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA42FB-AH2-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	LBVR
3	R	LBVR
4	B	GROUND
5	Y	DS FL
6	BG	DP RL
7	BR	DP RR
8	B	DP FR
9	W	DS FR
10	L	VAC
11	P	CAN-L
12	SHIELD	AGND
13	Y	BUS-L
14	Y	UST
15	R	DP FL
16	GR	DS RL
17	G	LZ
18	LG	DS RR
19	SB	BLS
20	R	VDC OFF SW
21	L	CAN-H
22	B	BUS-H

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH09FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	SB	-
4	LG	-
5	Y	-
6	W	-
7	G	-
8	V	-
9	R	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	SB	-
17	L	-
18	P	-
19	G	-
20	W	- [With ICC]
21	Y	- [Without ICC]
22	BR	-
23	R	- [With ICC]
24	V	- [Without ICC]
25	G	-
26	L	- [With ICC]
27	P	- [Without ICC]
28	L	- [With ICC]
29	Y	- [Without ICC]
30	SHIELD	-
31	G	-
32	LG	-
33	BG	-
34	W	-
35	Y	-
36	BG	-

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

37	Y	-
38	GR	-
39	LG	-
41	LG	-
42	V	-
43	R	-
44	G	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	SB	-
50	BR	-
51	B	-
52	Y	-
53	BG	-
54	R	-
55	SB	-
59	P	-
60	SB	-
61	V	-
62	P	-
63	LG	-
64	L	-
65	BG	-
69	L	-
70	SHIELD	-
71	G	-
72	G	-
73	R	-
74	BR	-
76	L	-
77	W	-
78	Y	-
80	SB	-
81	L	-
82	W	-
83	LG	-
84	GR	-
85	G	-
86	P	-
87	W	-
88	BG	-
89	LG	-
90	BR	-
91	GR	-
92	BR	-
93	SB	-
95	Y	-
96	W	-

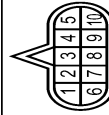
97	W	-
98	SHIELD	-
100	Y	-

Connector No.	F51
Connector Name	AT ASSEMBLY
Connector Type	RK10FG-DGY



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

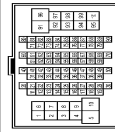
Connector No.	F151
Connector Name	TCM
Connector Type	SP10FG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	IGNITION POWER SUPPLY
2	B	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	R	CAN-H
4	O	K-LINE

5	G	GROUND
6	GR	IGNITION POWER SUPPLY
7	L	BACK-UP LAMP RELAY
8	BR	CAN-L
9	Y	STARTER RELAY
10	W/B	GROUND

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	- [Without Auto aircon seat]
3	SB	- [With Auto aircon seat]
4	LG	-
5	GR	-
6	W	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- [Without ICC]
20	W	- [With ICC]
21	BR	- [Without ICC]
21	R	- [With ICC]
22	L	- [Without ICC]
22	R	- [With ICC]
23	G	-
24	L	- [With ICC]

24	P	- [Without ICC]
25	W	- [Without ICC]
25	Y	- [With ICC]
26	SHIELD	-
28	GR	-
29	V	-
30	BG	-
32	W	-
33	Y	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
69	V	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
76	V	-
77	V	-
78	Y	-
80	BG	-
81	L	-
82	W	-
83	Y	-
84	L	-
85	P	-

AUTOMATIC BACK DOOR CONTROL UNIT

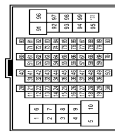
< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
86	BR	-
87	P	-
88	V	-
89	G	-
90	P	-
91	R	-
92	GR	-
93	G	-
94	W	-
95	W	-
96	W	-
97	W	-
98	SHIELD	-
99	Y	-

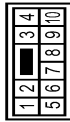
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH62MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [Win Auto aircon seat]
2	Y	- [Without Auto aircon seat]
3	B	-
4	W	-
5	P	-
6	P	-
7	V	-
8	BG	-
9	W	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	R	-
21	LG	-
22	V	-
23	P	-

Terminal No.	Color Of Wire	Signal Name [Specification]
93	BR	-
94	V	-
96	BG	-
97	W	-
98	R	-
99	BG	-

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



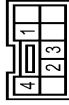
Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	W	-
9	BG	-
10	SHIELD	-

Connector No.	M12
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-LC



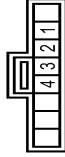
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-

Connector No.	M32
Connector Name	AUTOMATIC BACK DOOR MAIN SWITCH
Connector Type	TK08FW



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

Connector No.	M34
Connector Name	AUTOMATIC BACK DOOR SWITCH
Connector Type	TK08FGY



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

JRKWD4751GB

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

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

																													
	41	42	43	44	45	46	47																						
	57	58	59	60	61	62	63	65																					



Terminal No.	Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
48	G	IGNITION POWER SUPPLY
49	BG	BATTERY POWER SUPPLY
50	B	GROUND
51	L	CAN-H
52	W	BRAKE FLUID LEVEL SWITCH SIGNAL
53	B	FUEL LEVEL SENSOR GROUND
54	GR	INTAKE SENSOR GROUND
55	L	IN-VEHICLE SENSOR GROUND
56	BR	AMBIENT SENSOR GROUND
57	62	SUNLOAD SENSOR GROUND
58	63	ION MODE SIGNAL
59	R	ECV SIGNAL
60	BG	A/C LAM SIGNAL
61	L	EACH DOOR MOTOR POWER SUPPLY
62	R	GROUND
63	B	CAN-L

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

4	5	7		8	9	10
11	13	15	17	18	19	



Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAME)
5	Y	PASSENGER DOOR UNLOCK OUTPUT
6	Y	STEER LAMP OUTPUT
7	Y	ALL DOOR FUEL LID LOCK OUTPUT
8	C	DRIVER DOOR FUEL LID LOCK OUTPUT
9	BR	REAR DOOR UNLOCK OUTPUT
10	BR	BAT (FUSE)
11	R	ACC IND
12	Y	TURN SIGNAL RH (FRONT)
13	W	TURN SIGNAL LH (FRONT)
14	BG	ROOM LAMP LH (FRONT)
15	SS	ROOM LAMP TIMER

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

Terminal No.	20	25	26
Signal Name [Specification]	TURN SIGNAL RH (REAR)	TURN SIGNAL LH (REAR)	REAR WIPER OUTPUT



Terminal No.	20	25	26
Signal Name [Specification]	TURN SIGNAL RH (REAR)	TURN SIGNAL LH (REAR)	REAR WIPER OUTPUT

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

Terminal No.	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69
Signal Name [Specification]	LUGGAGE ROOM ANT+	LUGGAGE ROOM ANT-	BACK DOOR ANT+	BACK DOOR ANT-	IGN RELAT (PDR/FB) CONT	STARTER RELAY CONT	TRUNK REQUEST SW	I-KEY WARN BUZZER (ENG ROOM)	REAR WIPER STOP POSITION	BACK DOOR SW	BACK DOOR OPENER SW	REAR RH DOOR SW	REAR LH DOOR SW																							



Terminal No.	Wire	Color Of	Signal Name [Specification]
34	SB		LUGGAGE ROOM ANT-
35	V		LUGGAGE ROOM ANT+
36	B		BACK DOOR ANT-
37	W		BACK DOOR ANT+
41	Y		IGN RELAY (PDR/FB) CONT
52	LG		STARTER RELAY CONT
60	SB		ENG START SW
61	W		TRUNK REQUEST SW
64	L		I-KEY WARN BUZZER (ENG ROOM)
65	BG		REAR WIPER STOP POSITION
66	LG		BACK DOOR SW
67	P		BACK DOOR OPENER SW
68	BR		REAR RH DOOR SW
69	P		REAR LH DOOR SW

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

										
	91-92	88-87								
	100-105	103-100								
						</				



Terminal No.	Color Of Wire	Signal Name [Specification]
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT-
79	BD	ROOM ANT+

Terminal No.	80	81	82	83	87	88	90	91	92	93	95	96	99	100	101	102	103	107	108	109	110
Signal Name [Specification]	NATS ANT AMP.	NATS ANT AMP.	IGN RELAY (F/B) CONT	KEYLESS ENTRY RECEIVER SIGNAL	COMBI SW INPUT 5	COMBI SW INPUT 3	CAN-L	CAN-H	KEY SLOT ILL	ON IND	ACC RELAY CONT	AT SHIFT SELECTOR POWER SUPPLY	SHIFT P	PASSENGER DOOR REQUEST SW	DRIVER DOOR REQUEST SW	BLOWER FAN MOTOR RELAY CONT	KEYLESS ENTRY RECEIVER POWER SUPPLY	COMBI SW INPUT 1	COMBI SW INPUT 4	COMBI SW INPUT 2	HAZARD SW

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



Terminal No.	112	113	116	118	119	121	123	124	132	134	137	138	140
Signal Name [Specification]	RAIN SENSOR SERIAL LINK	OPTICAL SENSOR	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	POWER WINDOW SW COMM	LOCK IND	RECEIVER SENSOR GND	SENSOR POWER SUPPLY	SHIFT INP

Terminal No.	112	113	116	118	119	121	123	124	132	134	137	138	140
Signal Name [Specification]	RAIN SENSOR SERIAL LINK	OPTICAL SENSOR	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	POWER WINDOW SW COMM	LOCK IND	RECEIVER SENSOR GND	SENSOR POWER SUPPLY	SHIFT INP

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

141	G	SECURITY INDICATOR OUTPUT
142	BG	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFROSTER RELAY CONT

JRKWD4753GB

Fail-safe

INFOID:0000000010577752

Display contents of CONSULT	Fail-safe	Cancellation
U1000 CAN COMM	Inhibit automatic back door operation	Return to normal status
U1010 CONTROL UNIT (CAN)	Inhibit automatic back door operation	Return to normal status

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Display contents of CONSULT	Fail-safe	Cancellation
B2401 IGN OPEN	Inhibit automatic back door operation	Automatic back door control unit detects ignition switch ON signal via CAN communication
B2409 HALF LATCH SW	Inhibit automatic back door operation	Automatic back door control unit detects that half latch switch changes from ON to OFF when back door fully closes
B2416 TOUCH SEN R OPEN	Inhibit automatic back door operation	Return to normal status
B2417 TOUCH SEN L OPEN	Inhibit automatic back door operation	Return to normal status
B2419 OPEN SW	Inhibit automatic back door operation	Reconnect battery
B2420 CLOSE SW	Inhibit automatic back door operation	Reconnect battery
B2422 BACK DOOR STATE	Inhibit automatic back door operation	Half latch switch is ON from OFF
B2423 ABD MTR TIME OUT	Inhibit automatic back door operation	At least 180 seconds are passed after automatic back door operation is inhibited
B2426 SPINDLE SENSOR LH	Inhibit automatic back door operation	Return to normal status
B2427 SPINDLE SENSOR RH	Inhibit automatic back door operation	Return to normal status
B2428 AUTO BACK DR CNT UNIT	Inhibit automatic back door operation	Return to normal status
B242A CLSR CONDITION	Inhibit automatic back door operation	Reconnect battery

DTC Inspection Priority Chart

INFOID:0000000010577753

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

Priority	DTC
1	- B2428 AUTO BK DR CNT UNIT - U1000 CAN COMM - U1010 CONTROL UNIT (CAN) - B2401 IGN OPEN
2	- B2409 HALF LATCH SW - B2416 TOUCH SEN R OPEN - B2417 TOUCH SEN L OPEN - B2419 OPEN SW - B2420 CLOSE SW - B2422 BACK DOOR STATE - B2423 ABD MTR TIME OUT - B2426 SPINDLE SENSOR LH - B2427 SPINDLE SENSOR RH - B242A CLSR CONDITION

DLK

DTC Index

INFOID:0000000010577754

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.

CONSULT display	Fail-safe	Reference page
U1000: CAN COMM	×	DLK-68
U1010: CONTROL UNIT(CAN)	×	DLK-69
B2401: IGN OPEN	×	DLK-70
B2409: HALF LATCH SW	×	DLK-71

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Reference page
B2416: TOUCH SEN R OPEN	×	DLK-74
B2417: TOUCH SEN L OPEN	×	DLK-77
B2419: OPEN SW	×	DLK-80
B2420: CLOSE SW	×	DLK-83
B2422: BACK DOOR STATE	×	DLK-86
B2423: ABD MTR TIME OUT	×	DLK-89
B2426: SPINDLE SENSOR LH	×	DLK-91
B2427: SPINDLE SENSOR RH	×	DLK-94
B2428: AUTO BACK DR CNT UNIT	×	DLK-97
B242A: CLSR CONDITION	×	DLK-98

SYMPTOM DIAGNOSIS

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

ALL DOOR

ALL DOOR : Diagnosis Procedure

INFOID:0000000010577755

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-105. "BCM \(BODY CONTROL MODULE\) : 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-112. "DRIVER SIDE : Component Function Check"](#) (driver side).

Refer to [DLK-112. "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-114. "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-47. "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010577756

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).

Refer to [DLK-114. "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-47. "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000010577757

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).

Refer to [DLK-115, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH

REAR LH : Diagnosis Procedure

INFOID:0000000010577758

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (rear LH).

Refer to [DLK-116, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH

REAR RH : Diagnosis Procedure

INFOID:0000000010577759

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (rear RH).

Refer to [DLK-116, "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-47, "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:0000000010577760

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-253, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to [DLK-119, "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-47, "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:0000000010577761

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-9, "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 the OFF position.
- No Intelligent Keys are inside the vehicle.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010577762

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-259, "Description"](#).

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

Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.

Refer to [DLK-61, "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-126, "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-132, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000010577763

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-9, "Work Flow"](#).

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 the OFF position.
- No Intelligent Keys are inside the vehicle.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000010577764

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-259, "Description"](#).

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

Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.

Refer to [DLK-61, "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-126, "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-132, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR

BACK DOOR : Description

INFOID:0000000010577765

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-9, "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 the OFF position.
- No Intelligent Keys are inside the vehicle.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR : Diagnosis Procedure

INFOID:0000000010577766

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-259, "Description"](#).

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

Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".

Refer to [DLK-61, "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 BACK DOOR OPENER REQUEST SWITCH

Check back door opener request switch (back door).

Refer to [DLK-128, "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 (back door).

Refer to [DLK-132, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:0000000010577767

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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:0000000010577768

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-137, "Component Inspection"](#).

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-253, "ALL DOOR : Diagnosis Procedure"](#).

8. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-121, "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-107, "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-93, "Removal and Installation"](#).

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:0000000010577769

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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 the OFF position.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:0000000010577770

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-256, "DRIVER SIDE : Description"](#) (driver side).
• Go to [DLK-256, "PASSENGER SIDE : Description"](#) (passenger side).
• Go to [DLK-257, "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-59, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

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:0000000010577771

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-9, "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:0000000010577772

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-253, "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-59, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

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:0000000010577773

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.

NO >> Go to [DLK-253, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK VEHICLE SPEED SIGNAL

Check combination meter.

Refer to [SEC-59, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010577774

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.

NO >> Go to [DLK-253, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK BCM

Check DTC for BCM.

Refer to [BCS-88, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

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:0000000010577775

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.

NO >> Go to [DLK-253, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK TCM

Check DTC for TCM.

Refer to [TM-455, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

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AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description

INFOID:0000000010577776

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "Work Flow"](#).

Diagnosis Procedure

INFOID:0000000010577777

1. CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT"

Check "AUTO LOCK SET" setting in "WORK SUPPORT".

Refer to [DLK-61, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

WELCOME LIGHT FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

WELCOME LIGHT FUNCTION DOES NOT OPERATE

Description

INFOID:0000000010577778

NOTE:

- Before performing the diagnosis following procedure, check "Work Flow". Refer to [DLK-9, "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)

- Intelligent Key system (door lock function) is normal.
- All operation conditions are satisfied. Refer to [DLK-37, "WELCOME LIGHT FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:0000000010577779

1.CHECK WELCOME LIGHT FUNCTION SETTING

Check "WELCOME LIGHT OP SET" and "WELCOME LIGHT SELECT" setting in "WORK SUPPORT". Refer to [DLK-61, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the function active?

YES >> GO TO 2.

NO >> Set "WELCOME LIGHT OP SET" and "WELCOME LIGHT SELECT" setting in "WORK SUPPORT".

2.CHECK DOOR LOCK FUNCTION

Check Intelligent Key system (door lock function).

Does the door lock/unlock using door request switch (driver side)?

YES >> GO TO 3.

NO >> Go to [DLK-256, "DRIVER SIDE : Description"](#).

3.CHECK INTERIOR ROOM LAMP CONTROL SYSTEM

Check interior room lamp control system. Refer to [INL-7, "System Description"](#).

Does the room lamp and puddle lamp turn ON?

YES >> GO TO 4.

NO >> Go to [INL-186, "Symptom Table"](#).

4.REPLACE BCM

Replace BCM. Refer to [BCS-93, "Removal and Installation"](#).

>> GO TO 5.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> INSPECTION END

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:0000000010577780

NOTE:

- Before performing the diagnosis following procedure, check “Work Flow”. Refer to [DLK-9, "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 the OFF or LOCK position.
- Intelligent Key is removed from key slot.

Diagnosis Procedure

INFOID:0000000010577781

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-259, "Description"](#).

2.CHECK VEHICLE SECURITY ALARM OPERATION

Check vehicle security alarm operation.

Does alarm (headlamp and horn) activate?

YES >> GO TO 3.

NO >> Go to [DLK-259, "Description"](#).

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

Check “PANIC ALARM SET” setting in “WORK SUPPORT”.

Refer to [DLK-61, "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-47, "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:0000000010577782

NOTE:

- Before performing the diagnosis following procedure, check "Work Flow". Refer to [DLK-9, "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 the OFF or LOCK position.
- Intelligent Key is removed from key slot.

Diagnosis Procedure

INFOID:0000000010577783

1.CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"

Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

Refer to [DLK-61, "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-61, "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-147, "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-142, "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-47, "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:0000000010577784

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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 the OFF position.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:0000000010577785

1. CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"

Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

Refer to [DLK-59, "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-59, "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-59, "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-147, "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-135, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY REMINDER FUNCTION DOES NOT OPERATE

Description

INFOID:0000000010577786

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-9, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-40, "KEY REMINDER FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:0000000010577787

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

Check “ANTI KEY LOCK IN FUNCTI” setting in “WORK SUPPORT”.

Refer to [DLK-61, "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-107, "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-101, "DTC Logic"](#) (instrument center).

Refer to [DLK-103, "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-130, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

KEY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY WARNING DOES NOT OPERATE

Description

INFOID:0000000010577788

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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-42, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000010577789

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-145, "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-107, "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-138, "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-144, "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-140, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OFF POSITION WARNING DOES NOT OPERATE

Description

INFOID:0000000010577790

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9. "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-42. "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000010577791

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-88. "DTC Index"](#).

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-145. "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-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-107. "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-47. "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:0000000010577792

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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-42, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000010577793

1.CHECK TRANSMISSION RANGE SWITCH

Check DTC for BCM.

Refer to [BCS-88, "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-135, "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-145, "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-107, "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-101, "DTC Logic"](#) (instrument center).

Refer to [DLK-103, "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-144, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7.CONFIRM THE OPERATION

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-47, "Intermittent Incident"](#).
- NO >> GO TO 1.

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ACC WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

ACC WARNING DOES NOT OPERATE

Description

INFOID:0000000010577794

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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-42, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000010577795

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-88, "DTC Index"](#).

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-145, "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-144, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

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:000000001057796

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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-42, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

DOOR IS OPEN : Diagnosis Procedure

INFOID:000000001057797

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-88, "DTC Index"](#).

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-145, "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-144, "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-107, "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-135, "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-101, "DTC Logic"](#) (instrument center).

Refer to [DLK-103, "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

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

7. CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to [DLK-140, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

ANY DOOR OPEN TO ALL DOORS CLOSED

ANY DOOR OPEN TO ALL DOORS CLOSED : Description

INFOID:0000000010577798

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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-42, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

ANY DOOR OPEN TO ALL DOORS CLOSED : Diagnosis Procedure

INFOID:0000000010577798

1. CHECK DOOR SWITCH

Check door switch (driver side).

Refer to [DLK-107, "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-144, "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-101, "DTC Logic"](#) (instrument center).

Refer to [DLK-103, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

PUSH-BUTTON IGNITION SWITCH OPERATION

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

PUSH-BUTTON IGNITION SWITCH OPERATION : Description

INFOID:0000000010577801

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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-42, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

PUSH-BUTTON IGNITION SWITCH OPERATION : Diagnosis Procedure

INFOID:0000000010577801

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-88, "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-145, "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-144, "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-101, "DTC Logic"](#) (instrument center).

Refer to [DLK-103, "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-47, "Intermittent Incident"](#).

NO >> GO TO 1.

INTELLIGENT KEY IS REMOVED FROM KEY SLOT

INTELLIGENT KEY IS REMOVED FROM KEY SLOT : Description

INFOID:0000000010577802

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-9. "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-42. "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

INTELLIGENT KEY IS REMOVED FROM KEY SLOT : Diagnosis Procedure

INFOID:0000000010577803

1.CHECK KEY SLOT

Check key slot.

Refer to [DLK-138. "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-144. "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-101. "DTC Logic"](#) (instrument center).

Refer to [DLK-103. "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-140. "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-47. "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:0000000010577804

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9. "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-42. "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:0000000010577805

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-61. "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-137. "Component Inspection"](#).

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-144. "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-101. "DTC Logic"](#) (instrument center).

Refer to [DLK-103. "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-47. "Intermittent Incident"](#).

NO >> GO TO 1.

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:0000000010577806

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9, "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-42, "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:0000000010577807

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-256, "DRIVER SIDE : Description"](#) (driver side).
• Go to [DLK-256, "PASSENGER SIDE : Description"](#) (passenger side).
• Go to [DLK-257, "BACK DOOR : Description"](#) (back door).

2.CHECK DOOR SWITCH

Check door switch (driver side).

Refer to [DLK-107, "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-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-101, "DTC Logic"](#) (instrument center).

Refer to [DLK-103, "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-47, "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:0000000010577808

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9. "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-42. "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:0000000010577809

1.CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-137. "Component Inspection"](#).

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-144. "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-47. "Intermittent Incident"](#).

NO >> GO TO 1.

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INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Description

INFOID:0000000010577810

NOTE:

Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-9. "Work Flow"](#).

Diagnosis Procedure

INFOID:0000000010577811

1.CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter.

Refer to [DLK-164. "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-47. "Intermittent Incident"](#).

NO >> GO TO 1.

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

ALL SWITCHES

ALL SWITCHES : Description

INFOID:0000000010577812

Automatic back door open/close function does not operate using all switches.

NOTE:

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-49, "System Description"](#).

ALL SWITCHES : Diagnosis Procedure

INFOID:0000000010577813

1.CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK BACK DOOR AUTO CLOSURE FUNCTION

Check back door auto closure function.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [DLK-288, "OPEN/CLOSURE FUNCTION : Diagnosis Procedure"](#).

3.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check automatic back door control unit power supply and ground circuit.

Refer to [DLK-105, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK TOUCH SENSOR

Check touch sensor.

Refer to [DLK-156, "LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK SPINDLE MOTOR

Check spindle motor.

Refer to [DLK-158, "RH : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR SWITCH

AUTOMATIC BACK DOOR SWITCH : Description

INFOID:0000000010577814

Automatic back door open/close function does not operate using automatic back door switch.

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-49, "System Description"](#).

AUTOMATIC BACK DOOR SWITCH : Diagnosis Procedure

INFOID:0000000010577815

1. CHECK AUTOMATIC BACK DOOR SWITCH

Check automatic back door switch.

Refer to [DLK-152, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR CLOSE SWITCH

AUTOMATIC BACK DOOR CLOSE SWITCH : Description

INFOID:0000000010577816

Automatic back door open/close function does not operate using automatic back door close switch.

NOTE:

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-49, "System Description"](#).

AUTOMATIC BACK DOOR CLOSE SWITCH : Diagnosis Procedure

INFOID:0000000010577817

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-148, "Component Function Check"](#).

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.

Refer to [DLK-150, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

INTELLIGENT KEY

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY : Description

INFOID:0000000010577818

Automatic back door open/close function does not operate using Intelligent Key.

NOTE:

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-49, "System Description"](#).

INTELLIGENT KEY : Diagnosis Procedure

INFOID:0000000010577819

1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2. CHECK DTC WITH BCM

Check that DTC is not detected with BCM

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3. CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 4.

NO >> Refer to [DLK-259, "Diagnosis Procedure"](#).

4. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Description

INFOID:0000000010577820

Automatic back door open/close function does not operate using back door opener switch.

NOTE:

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-49, "System Description"](#).

BACK DOOR OPENER SWITCH : Diagnosis Procedure

INFOID:0000000010577821

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 MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-150, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-124, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

OPEN/CLOSURE FUNCTION

OPEN/CLOSURE FUNCTION : Description

INFOID:0000000010577822

Back door auto closure function does not operate when back door opening and closing operations are performed.

OPEN/CLOSURE FUNCTION : Diagnosis Procedure

INFOID:0000000010577823

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 DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-150, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-124, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK BACK DOOR CLOSURE MOTOR

Check back door closure motor.

Refer to [DLK-160, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

6.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47. "Intermittent Incident"](#).

OPEN FUNCTION

OPEN FUNCTION : Description

INFOID:0000000010577824

Back door auto closure function does not operate when back door opening operations are performed.

OPEN FUNCTION : Diagnosis Procedure

INFOID:0000000010577825

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 MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-150. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-124. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47. "Intermittent Incident"](#).

CLOSURE FUNCTION

CLOSURE FUNCTION : Description

INFOID:0000000010577826

Back door auto closure function does not operate when back door closing operations are performed.

CLOSURE FUNCTION : Diagnosis Procedure

INFOID:0000000010577827

1.CHECK BACK DOOR CLOSURE MOTOR

Check back door closure motor.

Refer to [DLK-160. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE BUZZER

BUZZER : Description

INFOID:0000000010577828

Automatic back door warning buzzer does not operate when automatic back door warning function are performed.

BUZZER : Diagnosis Procedure

INFOID:0000000010577829

1.CHECK DTC WITCH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.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 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47. "Intermittent Incident"](#).

HAZARD WARNING LAMP

HAZARD WARNING LAMP : Description

INFOID:0000000010577830

Hazard warning lamp does not operate when automatic back door warning function are performed.

HAZARD WARNING LAMP : Diagnosis Procedure

INFOID:0000000010577831

1.CHECK DTC WITCH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK DTC WITCH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK HAZARD AND HORN REMINDER FUNCTION

Check hazard and horn reminder function.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Refer to [DLK-269. "Diagnosis Procedure"](#).

4.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).

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AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

Diagnosis Procedure

INFOID:0000000010577832

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-150. "Component Function Check"](#).

Is the inspection result normal?

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

3.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-364. "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-47. "Intermittent Incident"](#).

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AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010577833

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check automatic back door control unit power supply and ground circuit.

Refer to [DLK-105, "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 TOUCH SENSOR

Check touch sensor.

Refer to [DLK-154, "RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-105, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

SQUEAK AND RATTLE TROUBLE DIAGNOSES

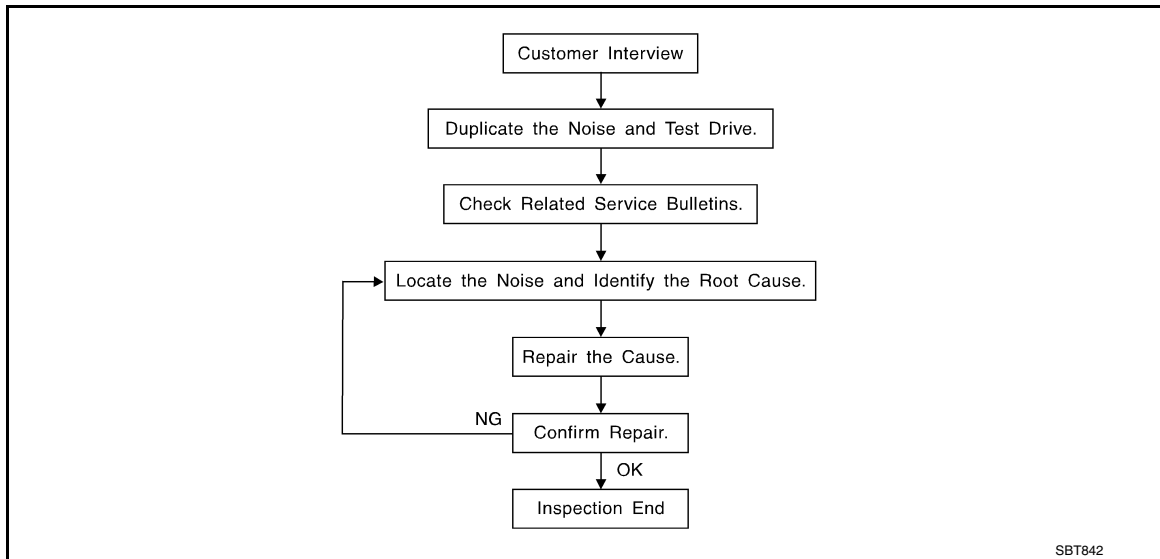
< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000010577834



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-299, "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

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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-297, "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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used in place of UHMW tape that is be visible or does not fit. Will only last a few months.

SILICONE SPRAY

Used when grease cannot be applied.

DUCT TAPE

Used to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000010577835

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer.

In addition look for the following:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

4. A loose license plate or bracket

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

SUNROOF/HEADLINING

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

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

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

SEATS

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Diagnostic Worksheet

INFOID:000000010577836



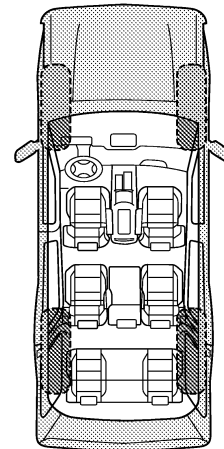
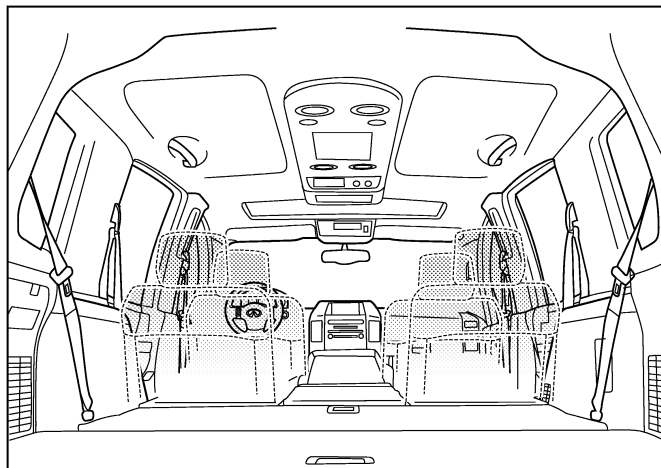
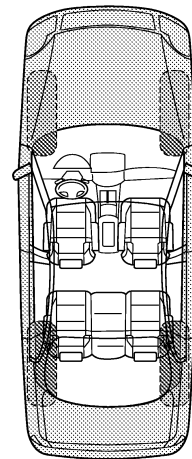
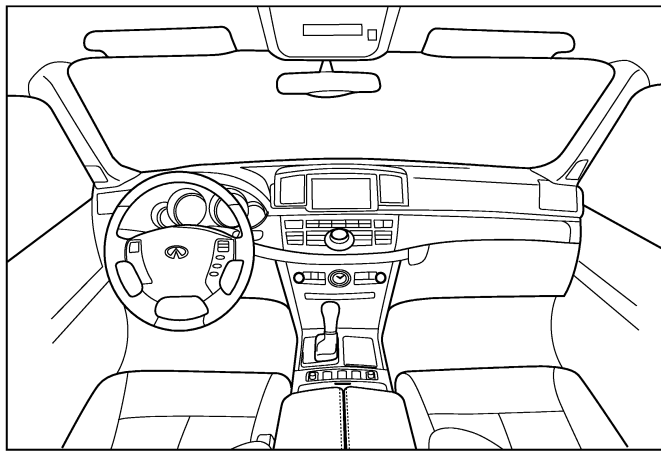
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service consultant or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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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)

- | | |
|---|--|
| ☐ anytime | ☐ after sitting out in the rain |
| ☐ 1st time in the morning | ☐ when it is raining or wet |
| ☐ only when it is cold outside | ☐ dry or dusty conditions |
| ☐ only when it is hot outside | ☐ other: |

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000010577837

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

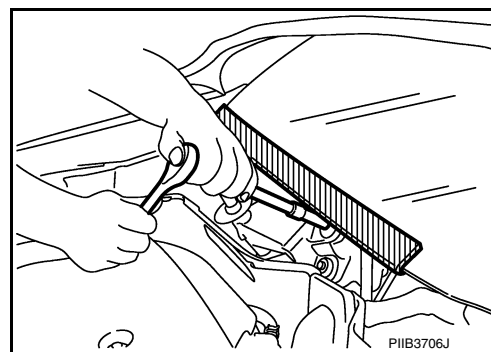
Always observe the following items for preventing accidental activation.

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

Precaution for Procedure without Cowl Top Cover

INFOID:0000000010577838

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



Precautions For Xenon Headlamp Service

INFOID:0000000010577839

WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector.

PRECAUTIONS

< PRECAUTION >

[WITH INTELLIGENT KEY SYSTEM]

(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.).

Work

INFOID:0000000010577840

- 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.

Precautions for Removing Battery Terminal

INFOID:0000000011007402

- 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.

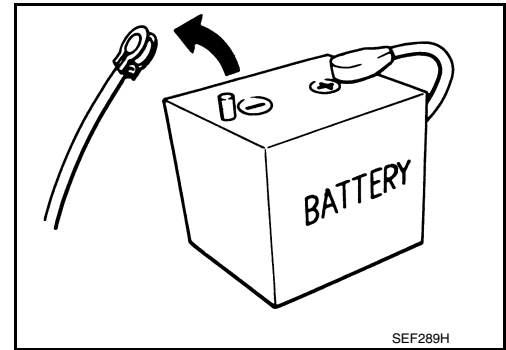
NOTE:

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.



SEF289H

PREPARATION

< PREPARATION >

[WITH INTELLIGENT KEY SYSTEM]

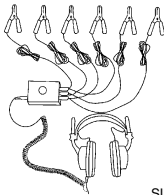
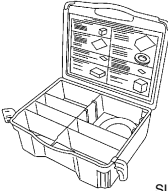
PREPARATION

PREPARATION

Special Service Tools

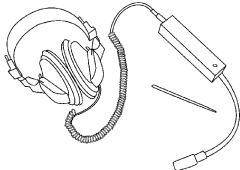
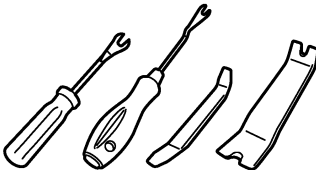
INFOID:0000000010577841

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

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

Commercial Service Tools

INFOID:0000000010577842

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

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REMOVAL AND INSTALLATION

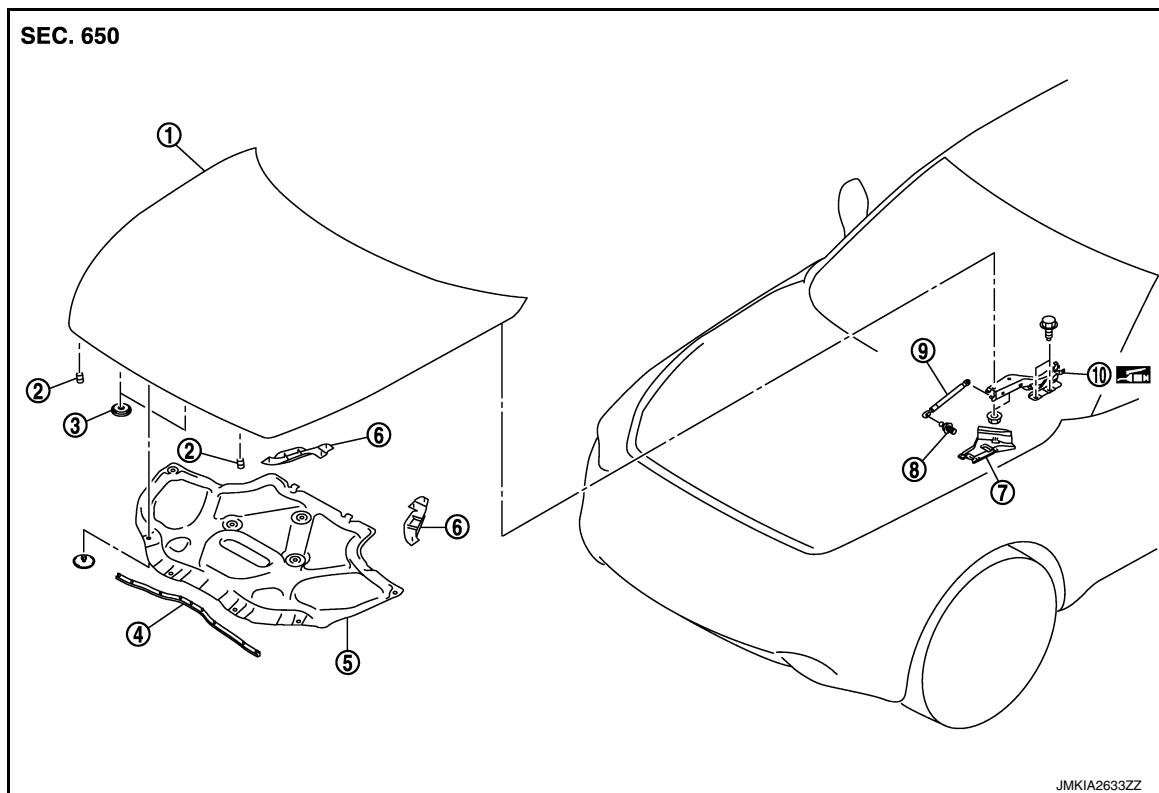
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:0000000010577843

REMOVAL



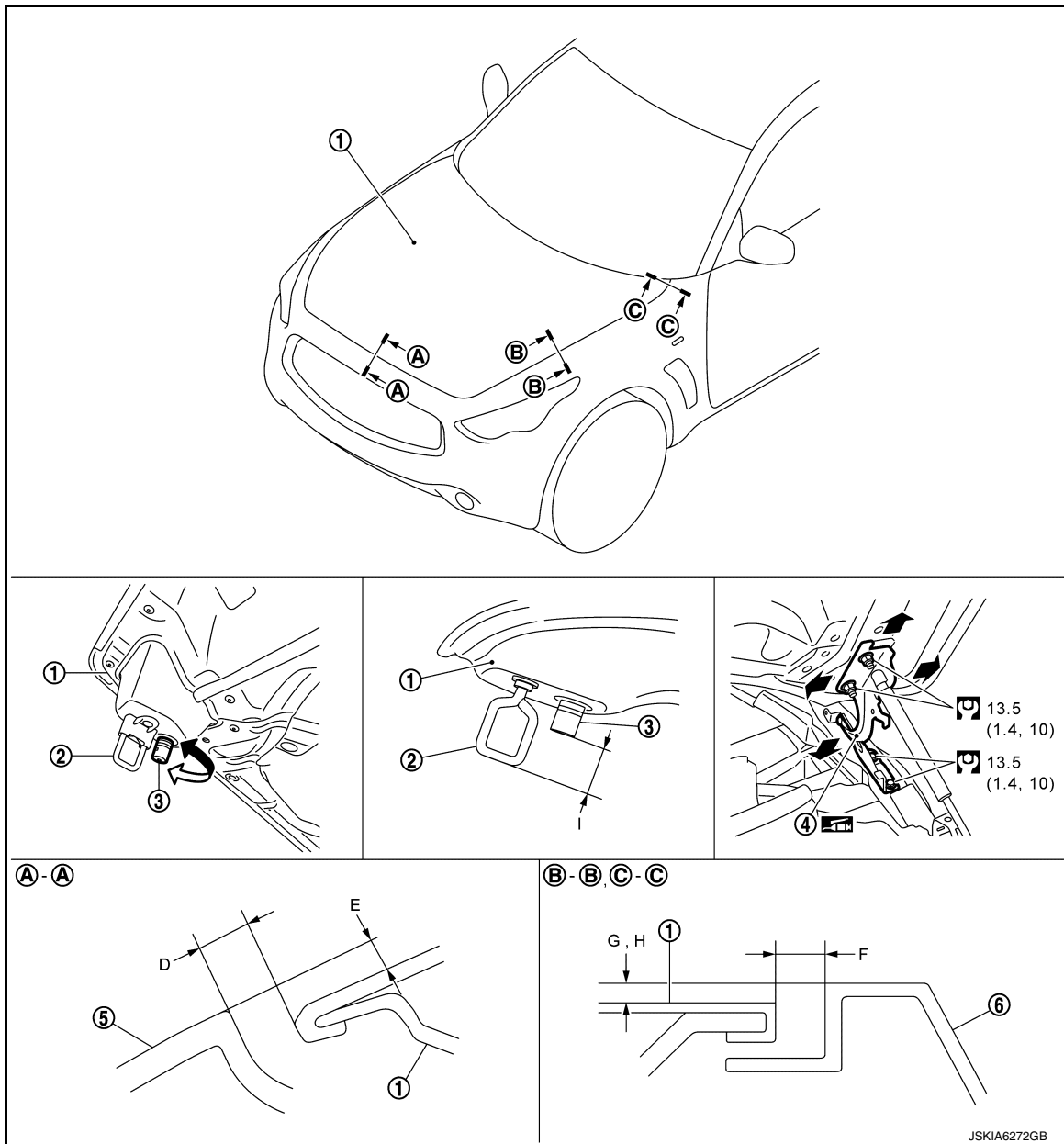
- | | | |
|-----------------------|-----------------------|----------------|
| 1. Hood assembly | 2. Hood bumper rubber | 3. Seal |
| 4. Radiator core seal | 5. Hood insulator | 6. Inner cover |
| 7. Hood hinge cover | 8. Stud ball | 9. Hood stay |
| 10. Hood hinge | | |
-  : Body grease

ADJUSTMENT

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]



- | | | |
|------------------|------------------------|-----------------------|
| 1. Hood assembly | 2. Hood striker | 3. Hood bumper rubber |
| 4. Hood hinge | 5. Front bumper fascia | 6. Front fender |

: N·m (kg-m, ft-lb)

: Body grease

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000010577844

CAUTION:

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

REMOVAL

HOOD

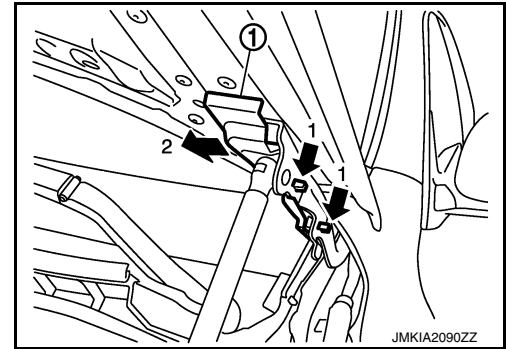
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

1. Remove hood hinge cover (LH/RH) (1).

NOTE:

While pushing the pawls, pull hood hinge cover in the direction of the arrow.

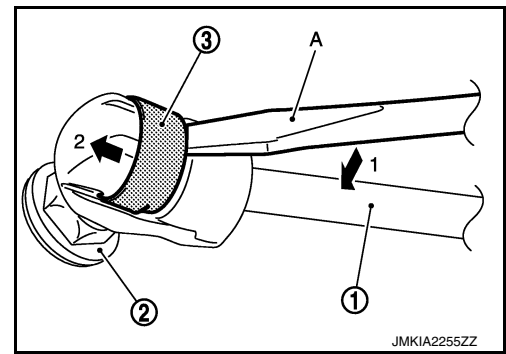


2. Remove washer nozzle and washer tube. Refer to [WW-121, "Inspection and Adjustment"](#).
3. Support hood assembly with a proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.

4. 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).
5. Disengage the stud ball from the hood stay (hood side).



6. Remove hood hinge mounting nuts on the hood to remove the hood assembly.
7. Remove the following parts after removing the hood assembly.
 - Radiator core seal
 - Hood insulator
 - Hood bumper rubber
 - Inner cover
 - Hood striker
 - Secondary latch

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check hood open/close, lock/unlock operation.
- After installation, adjust the following parts.
 - Hood: Refer to [DLK-306, "HOOD ASSEMBLY : Adjustment"](#).
 - Washer nozzle and washer tube: Refer to [WW-121, "Inspection and Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of hood hinge mounting bolts and nuts.

HOOD ASSEMBLY : Adjustment

INFOID:0000000010577845

Check the clearance and the surface height between hood and each part by seeing and touching. Fitting standard dimension in the table below should be satisfied.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Portion				Standard	Difference (LH/RH, MAX)
Hood – Front bumper fascia	A – A	D	Clearance	2.6 – 5.6 (0.102 – 0.220)	—
		E	Surface height	–0.5 – 2.0 (–0.020 – 0.079)	—
Hood – Front fender	B – B	F	Clearance	2.5 – 4.5 (0.098 – 0.177)	2.0 (0.079)
		G	Surface height	0 – 2.0 (0.000 – 0.079)	—
	C – C	H	Surface height	–1.0 – 1.0 (–0.039 – 0.039)	—
Hood striker – Bumper rubber	—	I	Height difference	32.3 – 33.3 (1.272 – 1.311)	—

1. Remove striker and adjust the surface height of hood, front bumper fascia and front fender according to the fitting standard dimension, by rotating hood bumper rubber.
2. Adjust the height difference of striker, hood bumper rubber according to the fitting standard dimension.
3. Loosen hood hinge mounting nuts on the hood.
4. Adjust the clearance of hood, front bumper fascia and front fender according to the fitting standard dimension, for the hood.
5. Check that hood lock primary latch is securely engaged with striker by dropping hood from approximately 200 mm (7.874 in) height or pressing lightly on the hood.

CAUTION:

Never drop hood from a height of 300 mm (11.811 in) or more.

6. Install as static closing force of hood is 94 – 490 N (9.6 – 50.0 kg, 21.1 – 110 lb).

NOTE:

- Exercise vertical force on right side and left side of hood lock.
- Do not simultaneously press both sides.

7. After adjustment, tighten hood hinge mounting nuts to the specified torque.

CAUTION:

- Before installing hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, apply touch-up paint (the body color) onto the head of hood hinge mounting bolts and nuts.

HOOD HINGE

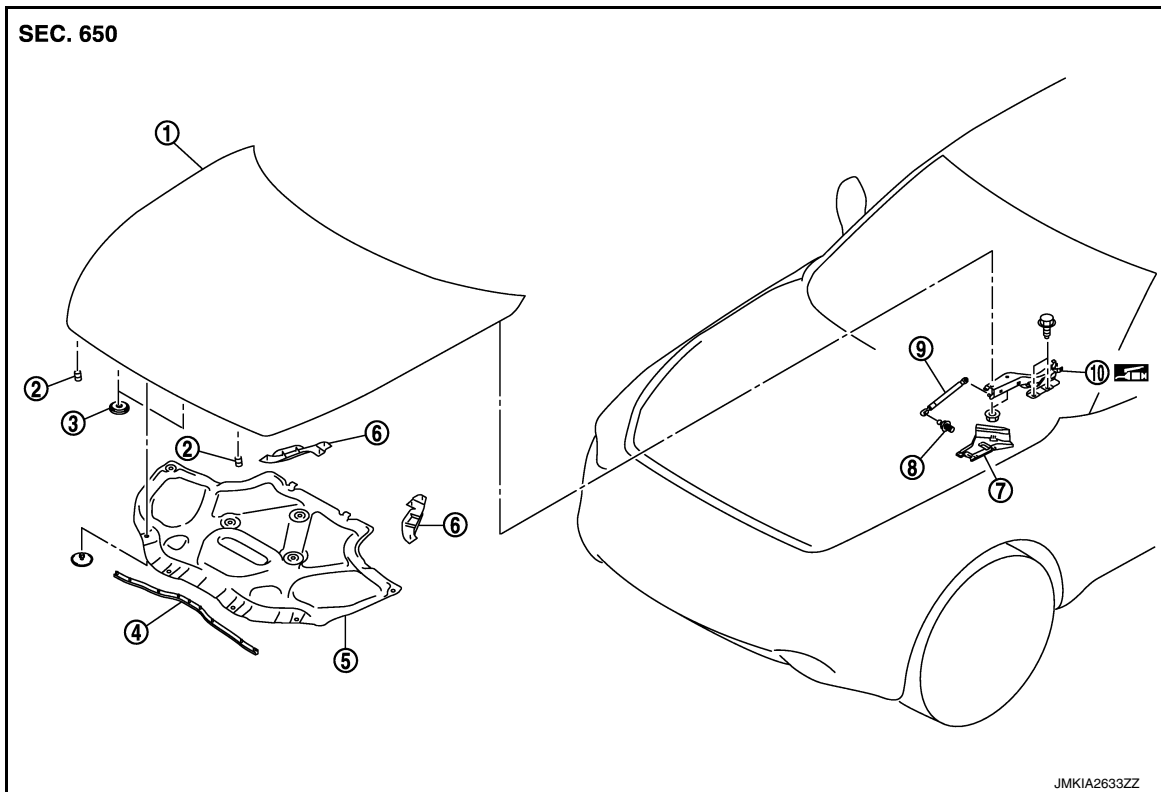
HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

HOOD HINGE : Exploded View

INFOID:0000000010577846



- | | | |
|-----------------------|-----------------------|----------------|
| 1. Hood assembly | 2. Hood bumper rubber | 3. Seal |
| 4. Radiator core seal | 5. Hood insulator | 6. Inner cover |
| 7. Hood hinge cover | 8. Stud ball | 9. Hood stay |
| 10. Hood hinge | | |



: Body grease

HOOD HINGE : Removal and Installation

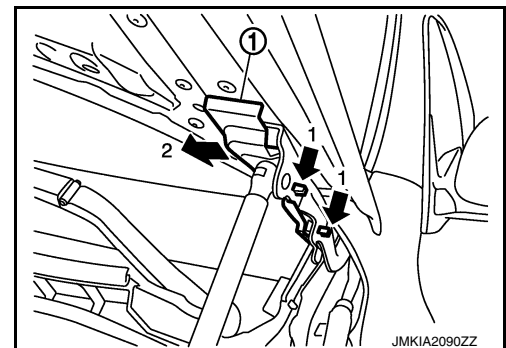
INFOID:0000000010577847

REMOVAL

1. Remove hood hinge cover (LH/RH) (1).

NOTE:

While pushing the pawls, pull hood hinge cover in the direction of the arrow.



2. Remove hood assembly. Refer to [DLK-305, "HOOD ASSEMBLY : Removal and Installation"](#).
3. Remove front fender. Refer to [DLK-314, "Removal and Installation"](#).
4. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.

HOOD

< REMOVAL AND INSTALLATION >

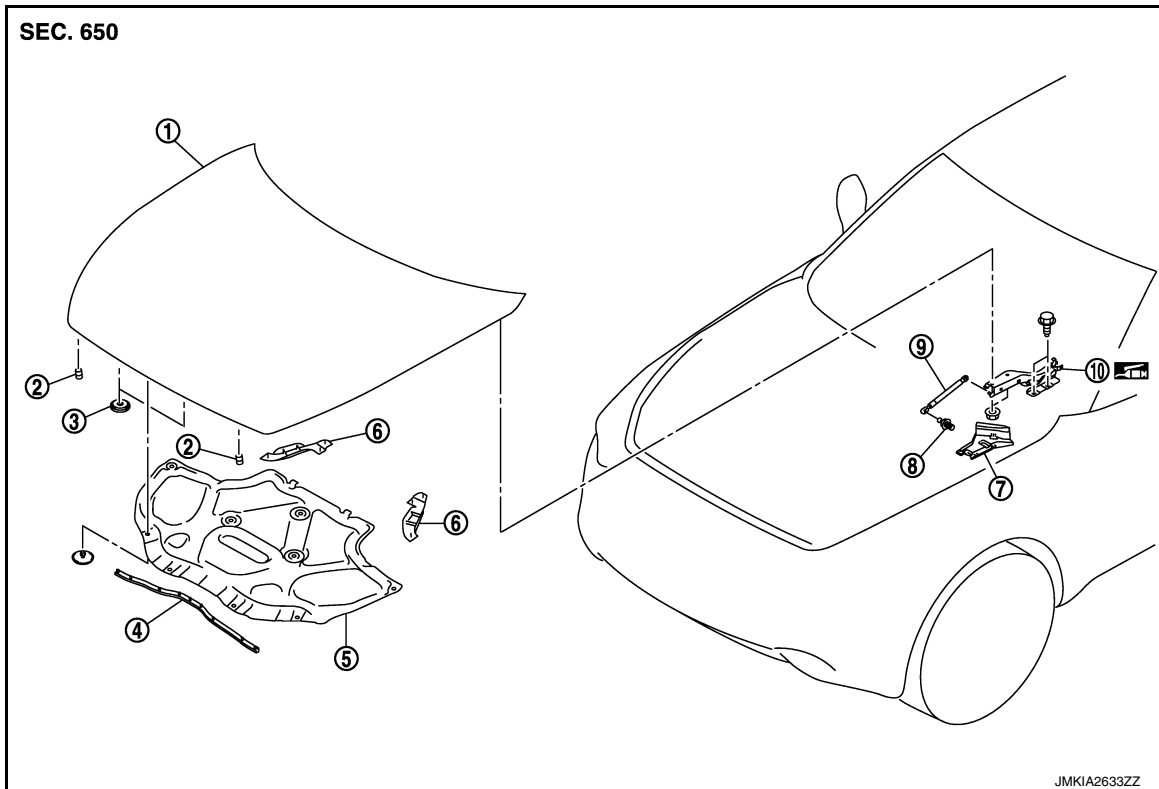
[WITH INTELLIGENT KEY SYSTEM]

- Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check hood open/close, lock/unlock operation.
- After installation, apply touch-up paint (the body color) onto the head of hood hinge mounting bolts and nuts.
- After installation, perform the fitting adjustment. Refer to [DLK-306, "HOOD ASSEMBLY : Adjustment"](#).

HOOD STAY

HOOD STAY : Exploded View

INFOID:0000000010577848



- | | | |
|-----------------------|-----------------------|----------------|
| 1. Hood assembly | 2. Hood bumper rubber | 3. Seal |
| 4. Radiator core seal | 5. Hood insulator | 6. Inner cover |
| 7. Hood hinge cover | 8. Stud ball | 9. Hood stay |
| 10. Hood hinge | | |

 : Body grease

HOOD STAY : Removal and Installation

INFOID:0000000010577849

REMOVAL

1. Support hood assembly with a proper material to prevent it from falling.

WARNING:

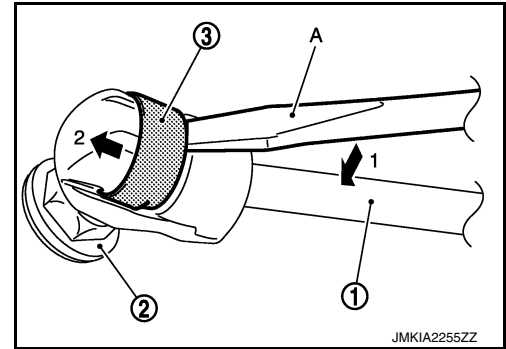
Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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 flat-bladed screwdriver (A).
3. Disengage the stud ball from the hood stay (hood side).
4. 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.

RADIATOR CORE SUPPORT

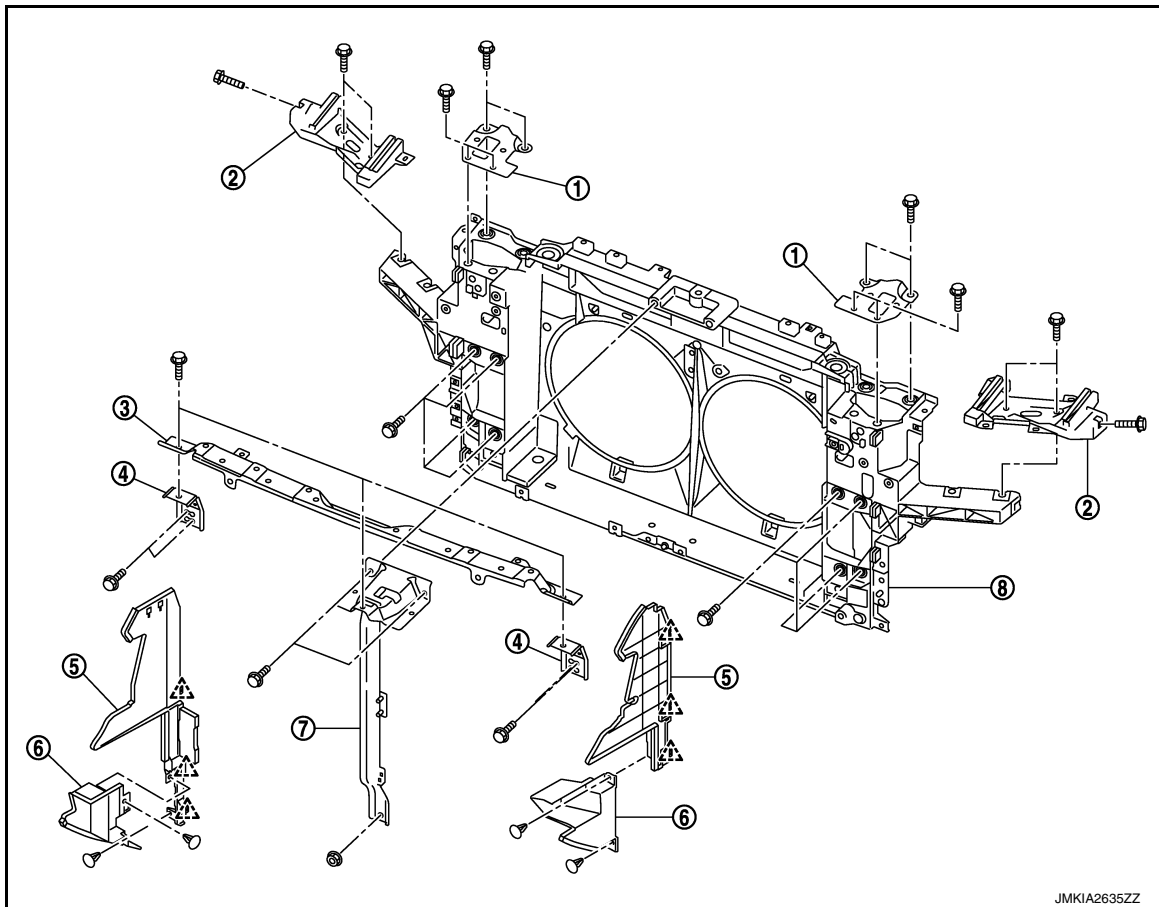
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000010577850



- | | | |
|---------------------------------------|------------------------------|--------------------------------|
| 1. Hood lock bracket (LH/RH) | 2. Head lamp bracket (LH/RH) | 3. Front bumper upper retainer |
| 4. Front bumper side retainer (LH/RH) | 5. Air guide upper (LH/RH) | 6. Air guide lower (LH/RH) |
| 7. Hood lock stay | 8. Radiator core support | |

△ : Pawl

Removal and Installation

INFOID:0000000010577851

REMOVAL

1. Use refrigerant collecting equipment to discharge the refrigerant.
 - VQ37VHR models: Refer to [HA-25, "Collection and Charge"](#).
 - VK50VE models: Refer to [HA-83, "Collection and Charge"](#).
2. Remove floor under cover. Refer to [EXT-31, "Removal and Installation"](#).
3. Remove front bumper fascia, front bumper fascia lower, energy absorber and bumper reinforcement. Refer to [EXT-13, "Removal and Installation"](#).
4. Drain engine coolant from radiator.
 - VQ37VHR models: Refer to [CO-10, "Draining"](#).
 - VK50VE models: Refer to [CO-37, "Draining"](#).
5. Remove engine coolant reservoir tank.
 - VQ37VHR models: Refer to [CO-16, "Exploded View"](#).
 - VK50VE models: Refer to [CO-43, "Exploded View"](#).
6. Remove air guide lower (LH/RH).
7. Remove air guide upper (LH/RH).

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

8. Remove front combination lamp (LH/RH). Refer to [EXL-222, "Exploded View"](#).
 9. Disconnect hood lock switch connector from head lamp bracket RH.
 10. Remove mounting bolts and then remove head lamp bracket (LH/RH).
 11. Remove mounting bolts and then remove hood lock bracket assembly (LH/RH).
 12. Remove washer tank and washer tank inlet. Refer to [WW-118, "Exploded View"](#).
 13. Remove ambient sensor. Refer to [HAC-195, "Exploded View"](#).
 14. Remove GAS sensor (with intelligent A/C). Refer to [HAC-200, "Exploded View"](#).
 15. Disconnect harness clamp from hood lock stay.
 16. Remove mounting bolt and nut, and remove hood lock stay.
 17. Remove horn (HIGH/LOW). Refer to [HRN-7, "Exploded View"](#).
 18. Remove ICC sensor integrated unit (with intelligent cruise control model). Refer to [CCS-175, "Exploded View"](#).
 19. Remove intelligent key warning buzzer. Refer to [DLK-360, "Removal and Installation"](#).
 20. Remove power steering oil cooler.
 - VQ37VHR models: Refer to [ST-48, "VQ37VHR : Exploded View"](#).
 - VK50VE models: Refer to [ST-49, "VK50VE : Exploded View"](#).
 21. Disconnect harness connector of refrigerant pressure sensor. Refer to [HAC-201, "Exploded View"](#).
 22. Remove condenser assembly and condenser pipe assembly.
 - VQ37VHR models: Refer to [HA-49, "CONDENSER : Removal and Installation"](#).
 - VK50VE models: Refer to [HA-106, "CONDENSER : Removal and Installation"](#).
 23. Disconnect A/T fluid cooler hose (upper/lower) from fan shroud and remove A/T fluid cooler hose (upper/lower) from radiator.
 - VQ37VHR, 2WD models: Refer to [TM-206, "2WD : Exploded View"](#).
 - VQ37VHR, AWD models: Refer to [TM-208, "AWD : Exploded View"](#).
 - VK50VE models: Refer to [TM-493, "Exploded View"](#).
 24. Remove radiator upper hose and lower hose at radiator side.
 - VQ37VHR models: Refer to [CO-25, "Exploded View"](#).
 - VK50VE models: Refer to [CO-51, "Exploded View"](#).
 25. Remove radiator.
 - VQ37VHR models: Refer to [CO-16, "Removal and Installation"](#).
 - VK50VE models: Refer to [CO-43, "Removal and Installation"](#).
 26. Remove crash zone sensor. Refer to [SR-21, "Removal and Installation"](#).
 27. Disconnect harness connector of cooling fan.
 - VQ37VHR models: Refer to [CO-20, "Exploded View"](#).
 - VK50VE models: Refer to [CO-47, "Exploded View"](#).
 28. Disconnect all harness clip from radiator core support assembly.
 29. Remove mounting bolts, and then remove radiator core support assembly.
- CAUTION:**
Operate with two workers, because of its heavy weight.
30. Remove the following parts after removing radiator core support assembly.
 - Cooling fan (LH/RH)
 - VQ37VHR models: Refer to [CO-20, "Exploded View"](#).
 - VK50VE models: Refer to [CO-47, "Exploded View"](#).
 - Front bumper side retainer (LH/RH)

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, replenish the following parts.
- Refrigerant: Refer to [HA-25, "Collection and Charge"](#) (VQ37VHR models) or [HA-83, "Collection and Charge"](#) (VK50VE models).
- Engine coolant: Refer to [CO-11, "Refilling"](#) (VQ37VHR models) or [CO-38, "Refilling"](#) (VK50VE models).
- A/T fluid: Refer to [TM-174, "Changing"](#) (VQ37VHR models) or [TM-472, "Changing"](#) (VK50VE models).
- Power steering oil: Refer to [ST-12, "Inspection"](#).
- After installation, adjust the following parts.

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- ICC sensor integrated unit (with intelligent cruse control model): Refer to [CCS-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(ICC SENSOR INTEGRATED UNIT\) : Special Repair Requirement"](#).
- Front combination lamp: Refer to [EXL-219, "Aiming Adjustment Procedure"](#).
- Perform camera image calibration. Refer to [AV-247, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Description"](#).

A

B

C

D

E

F

G

H

I

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DLK

L

M

N

O

P

FRONT FENDER

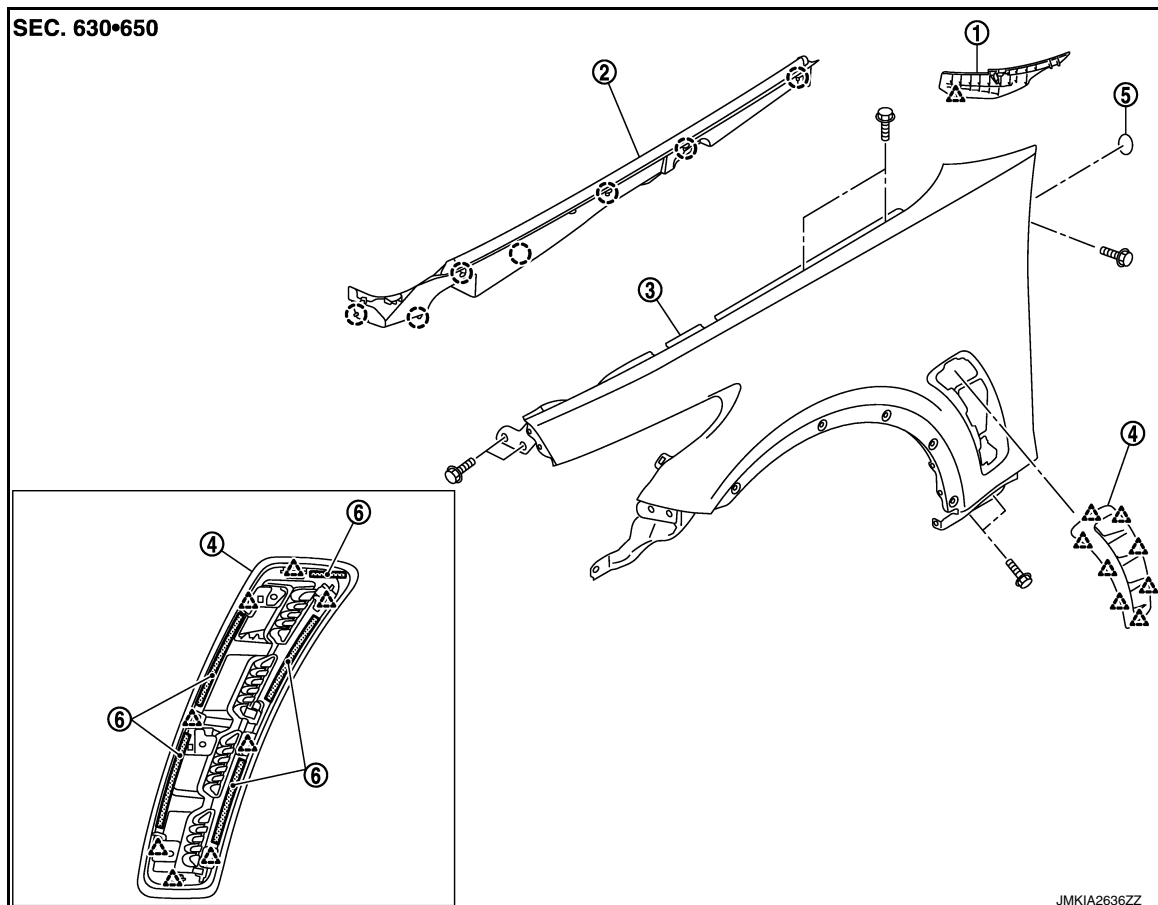
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FRONT FENDER

Exploded View

INFOID:0000000010577852



- | | | |
|-------------------------------|------------------------------|--|
| 1. Front fender cover | 2. Hood seal assembly (side) | 3. Front fender |
| 4. Front fender duct assembly | 5. Seal | 6. Double-faced adhesive tape
(t: 0.8 mm, 0.031 in) |

○ : Clip
△ : Pawl

Removal and Installation

INFOID:0000000010577853

CAUTION:

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

REMOVAL

1. Remove clips of hood seal assembly (side) on front fender.
2. Remove fillet molding. Refer to [EXT-32, "Removal and Installation"](#).
3. Remove fender protector. Refer to [EXT-25, "FENDER PROTECTOR : Removal and Installation"](#).
4. Remove front bumper fascia. Refer to [EXT-13, "Removal and Installation"](#).
5. Remove center mud guard. Refer to [EXT-29, "Removal and Installation"](#).
6. Remove front combination lamp. Refer to [EXL-223, "Removal and Installation"](#).
7. Remove front fender cover.
8. Remove mounting bolts and remove front fender.

CAUTION:

FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

A viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.
- After installation, adjust the following part.
 - Hood assembly: Refer to [DLK-306, "HOOD ASSEMBLY : Adjustment"](#).
 - Front door: Refer to [DLK-318, "DOOR ASSEMBLY : Adjustment"](#).
 - Front combination lamp: Refer to [EXL-219, "Aiming Adjustment Procedure"](#).
 - Perform camera image calibration. Refer to [AV-248, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

Disassembly and Assembly

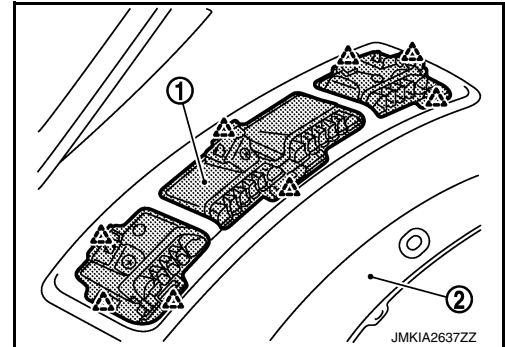
INFOID:0000000010577854

1. Remove fender protector (front). Refer to [EXT-25, "FENDER PROTECTOR : Removal and Installation"](#).
2. Disengage pawls of front fender duct (1) assembly from front fender (2) to remove.

CAUTION:

When removing front fender duct assembly, peel off the double-faced adhesive tape at a time, and carefully to remove it.

 : Pawl



DLK

FRONT DOOR

< REMOVAL AND INSTALLATION >

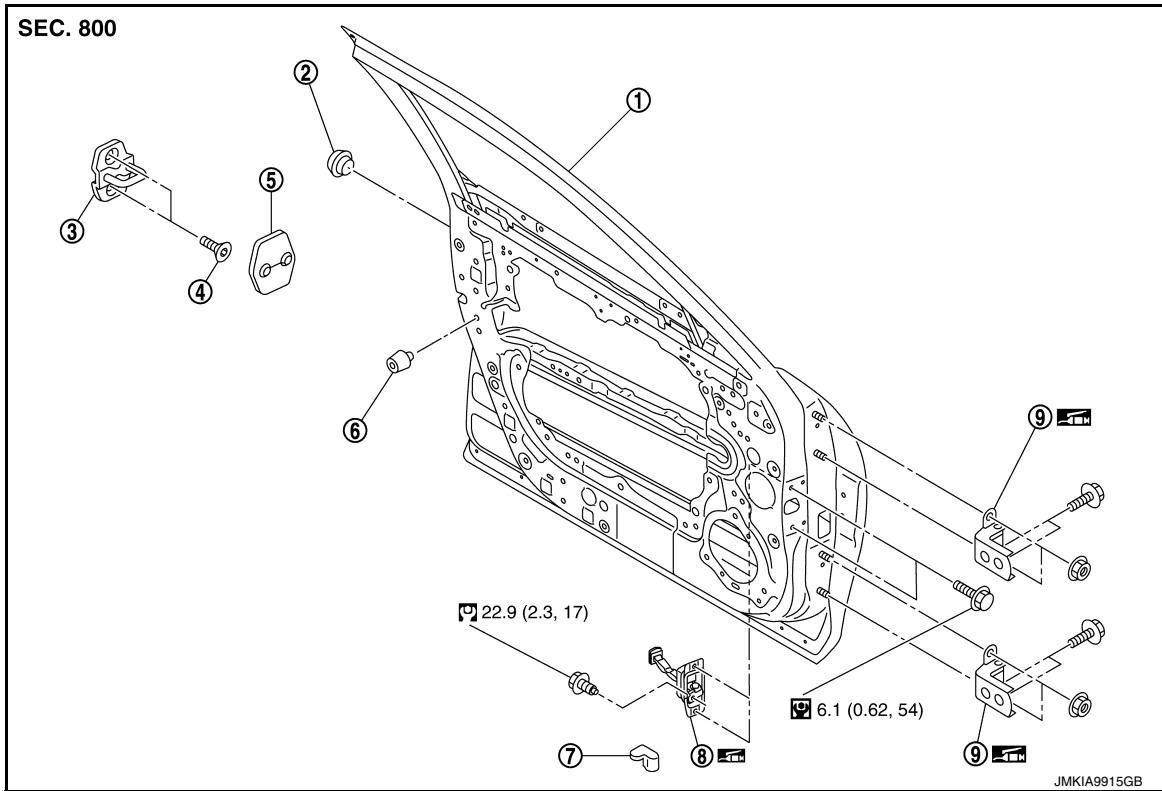
[WITH INTELLIGENT KEY SYSTEM]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000010577855

REMOVAL



- | | | |
|--------------------------|-----------------------|-----------------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Bumper rubber |
| 7. Door check link cover | 8. Door check link | 9. Door hinge (upper/lower) |

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

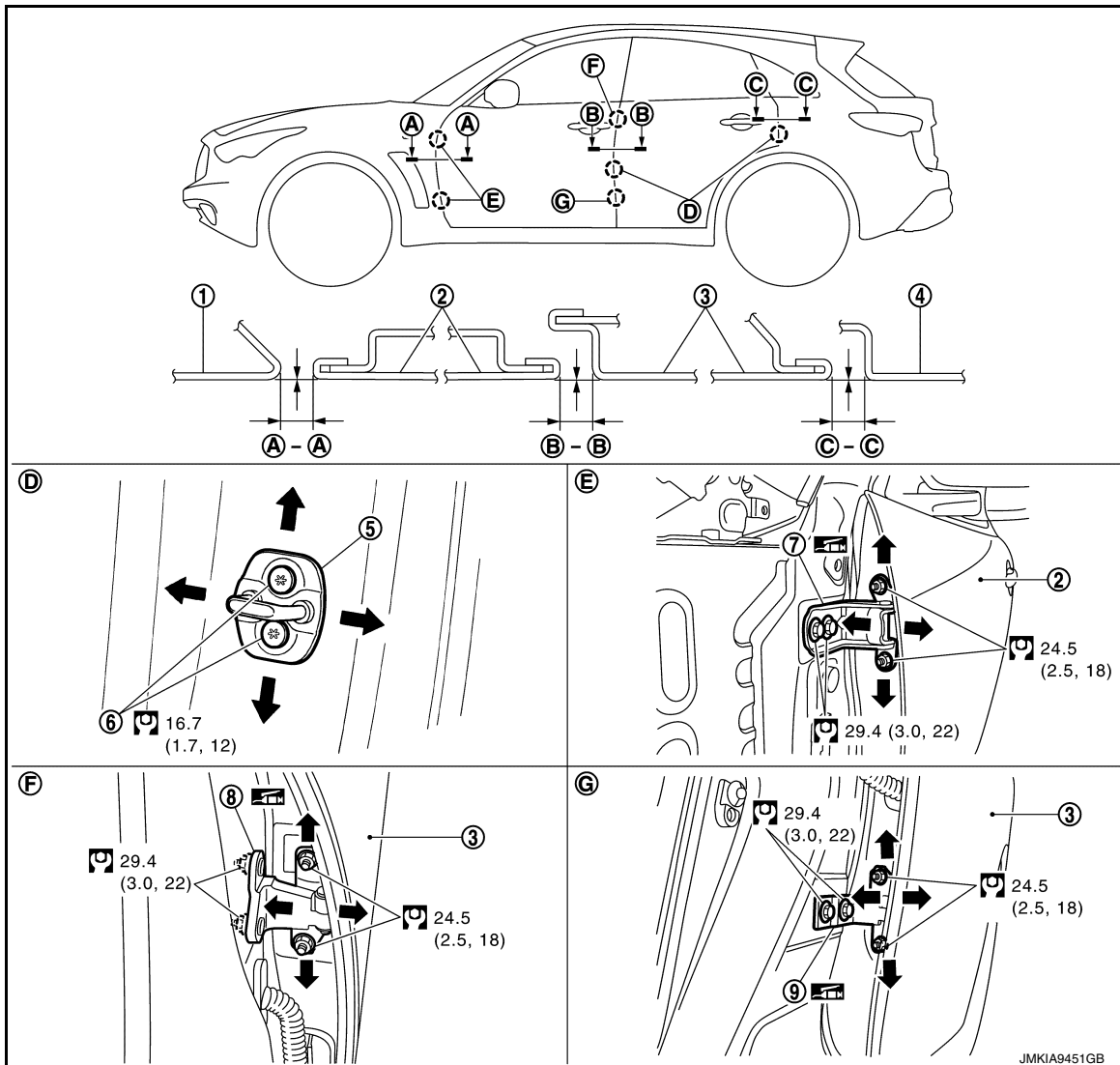
: Body grease

ADJUSTMENT

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]



- | | | |
|-----------------------------------|----------------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Door striker | 6. TORX bolt |
| 7. Front door hinge (upper/lower) | 8. Rear door hinge (upper) | 9. Rear door hinge (lower) |

: N·m (kg-m, ft-lb)

: Body grease

DOOR ASSEMBLY : Removal and Installation

INFOID:000000010577856

CAUTION:

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

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- After installation, check door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-318, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

DOOR ASSEMBLY : Adjustment

INFOID:0000000010577857

Check the clearance and surface height between front door and each part by seeing and touching.
If the clearance and surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm (in)

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.0 – 5.0 (0.118 – 0.197)	–1.0 – 1.0 (–0.039 – 0.039)
Front door – Rear door	B – B	3.0 – 5.0 (0.118 – 0.197)	–0.5 – 1.0 (–0.020 – 0.039)

1. Remove front fender. Refer to [DLK-314, "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. Tighten each bolts and nuts to the specified torque.
CAUTION:
 - Apply anticorrosive agent onto the mounting surface.
 - Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - After installation, check door open/close, lock/unlock operation.
 - After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.
8. Install front fender. Refer to [DLK-314, "Removal and Installation"](#).

CAUTION:

After adjusting, perform the camera image calibration (models with side camera). Refer to [AV-248, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

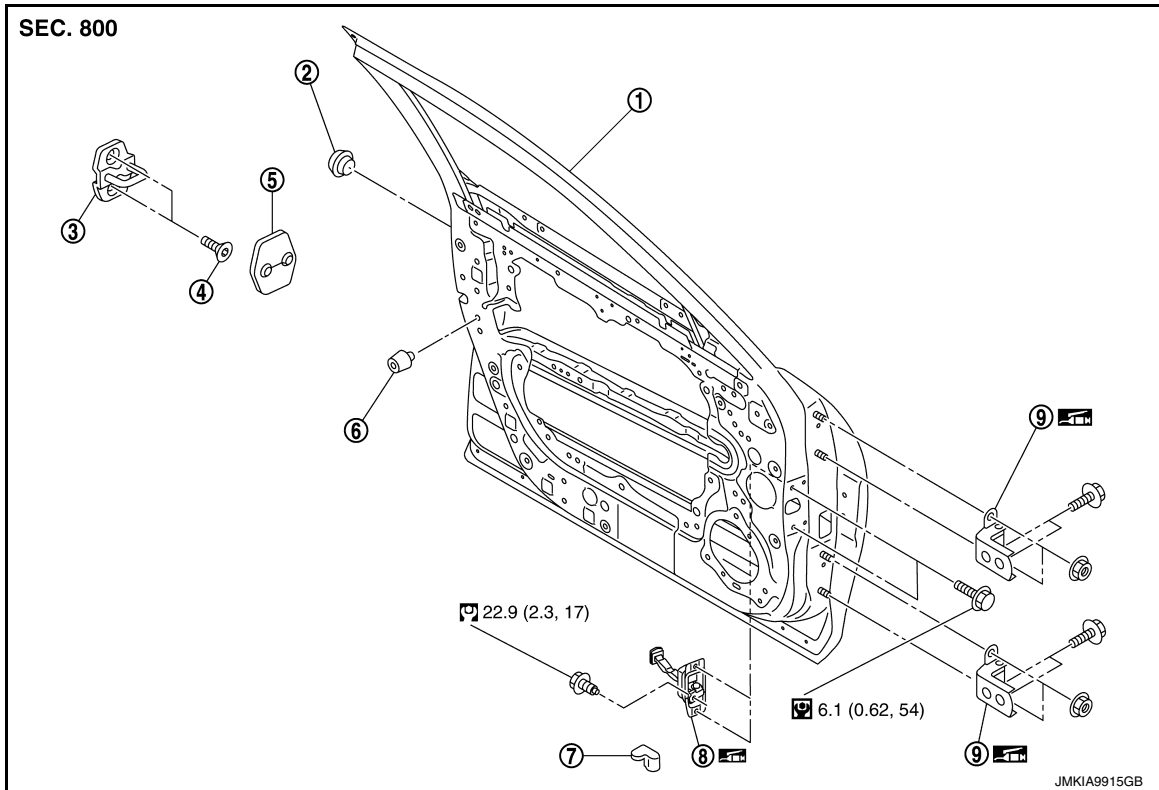
FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR STRIKER : Exploded View

INFOID:0000000010577858



- | | | |
|--------------------------|-----------------------|-----------------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Bumper rubber |
| 7. Door check link cover | 8. Door check link | 9. Door hinge (upper/lower) |

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

: Body grease

DOOR STRIKER : Removal and Installation

INFOID:0000000010577859

REMOVAL

1. Remove door striker cover.
2. Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply genuine high strength locking sealant or equivalent onto TORX bolts.
- After installation, check door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-318, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

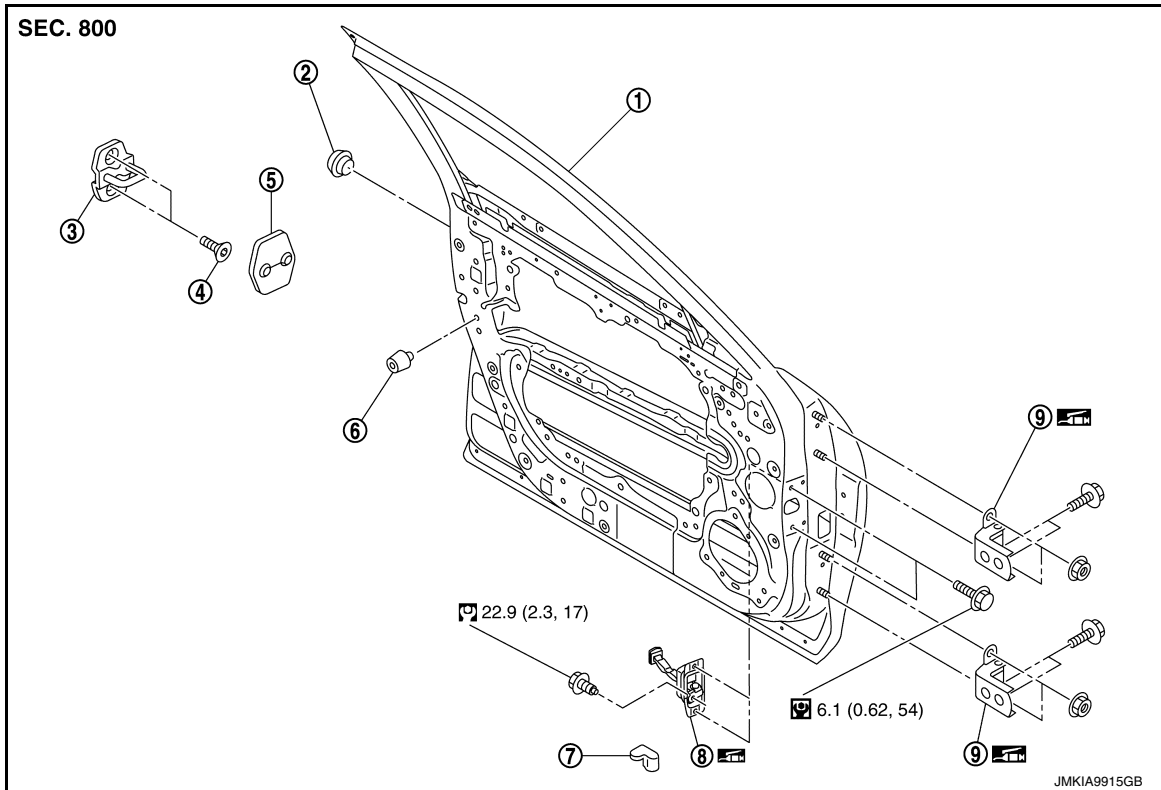
FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR HINGE : Exploded View

INFOID:0000000010577860



- | | | |
|--------------------------|-----------------------|-----------------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Bumper rubber |
| 7. Door check link cover | 8. Door check link | 9. Door hinge (upper/lower) |

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

: Body grease

DOOR HINGE : Removal and Installation

INFOID:0000000010577861

REMOVAL

1. Remove front fender. Refer to [DLK-314, "Removal and Installation"](#).
2. Remove front door assembly. Refer to [DLK-317, "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:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-318, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

DOOR CHECK LINK

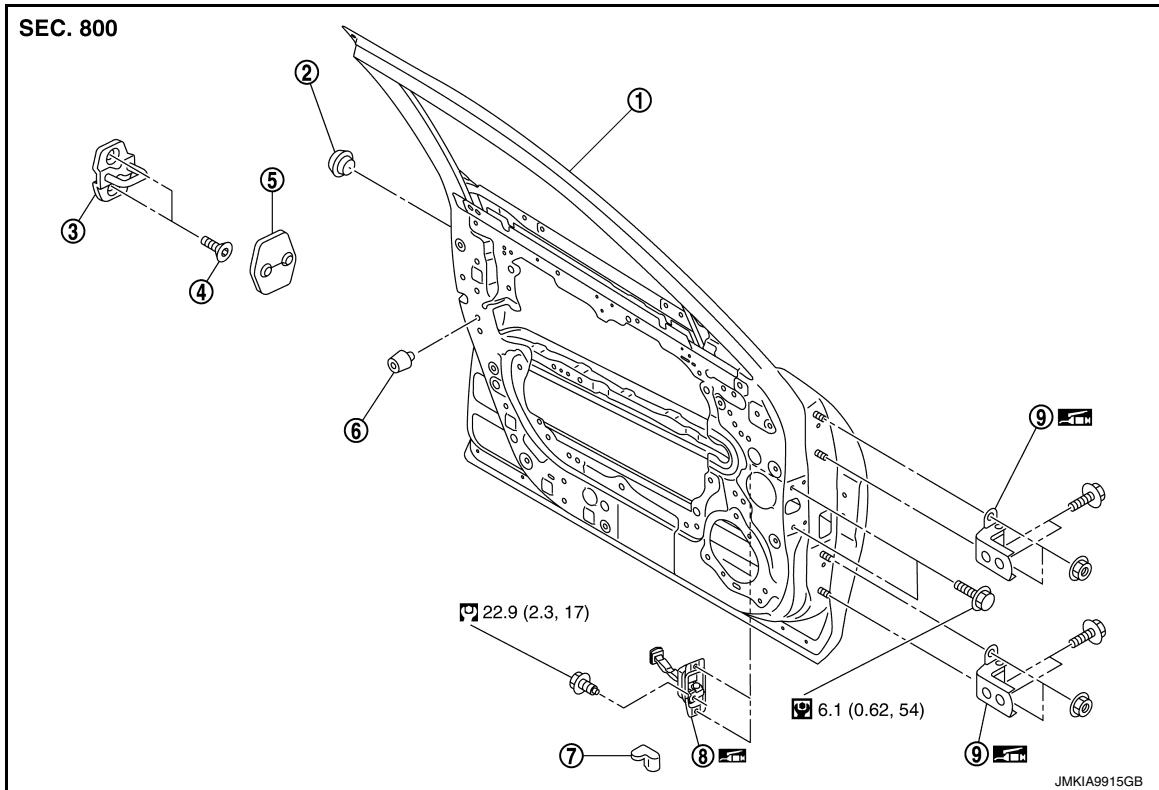
FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR CHECK LINK : Exploded View

INFOID:0000000010577862



- | | | |
|--------------------------|-----------------------|-----------------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Bumper rubber |
| 7. Door check link cover | 8. Door check link | 9. Door hinge (upper/lower) |

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

: Body grease

DLK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000010577863

REMOVAL

1. Remove front door finisher. Refer to [INT-12, "Removal and Installation"](#).
2. Fully close the front door window.
3. Remove front door speaker. Refer to [AV-133, "Removal and Installation"](#) (Models without navigation) or [AV-353, "Removal and Installation"](#) (Models with navigation).
4. Remove door check link cover.
5. Remove mounting bolts of door check link on the vehicle.
6. Remove mounting bolts of door check link on door panel.
7. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, check door open/close operation.

REAR DOOR

< REMOVAL AND INSTALLATION >

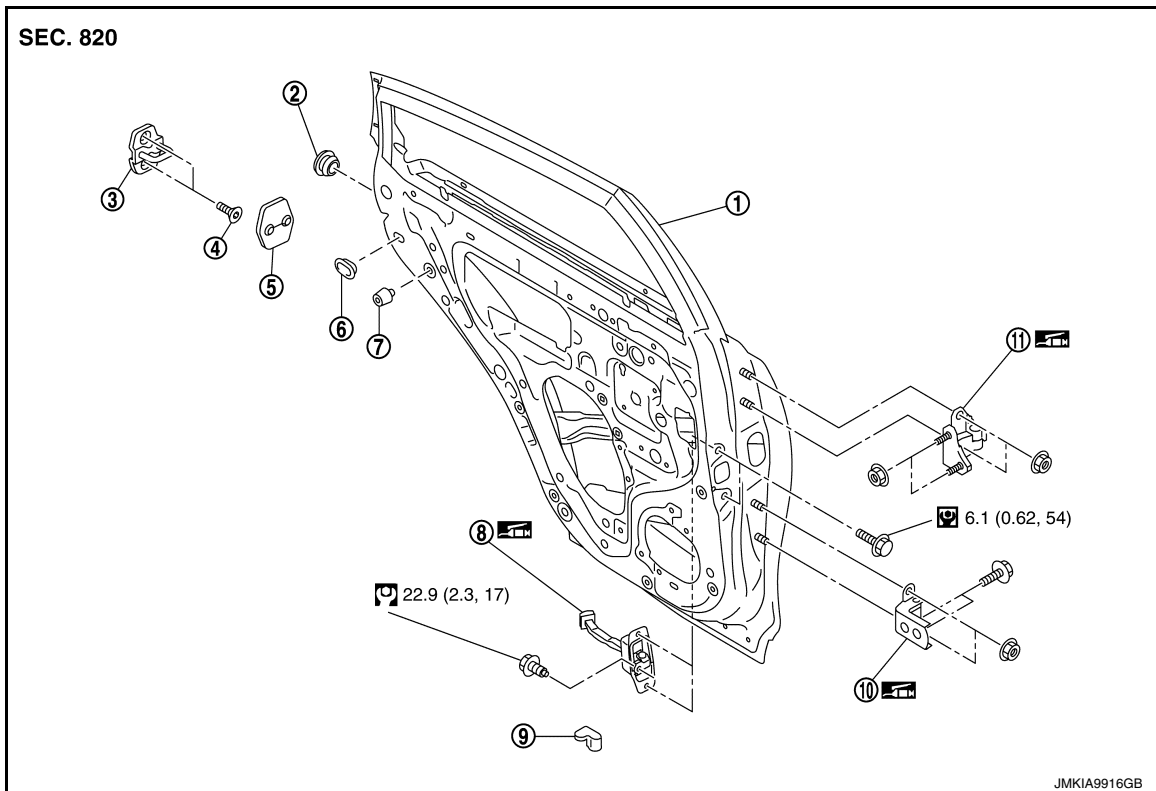
[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000010577864

REMOVAL



- | | | |
|------------------------|------------------------|--------------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Grommet |
| 7. Bumper rubber | 8. Door check link | 9. Door check link cover |
| 10. Door hinge (lower) | 11. Door hinge (upper) | |

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

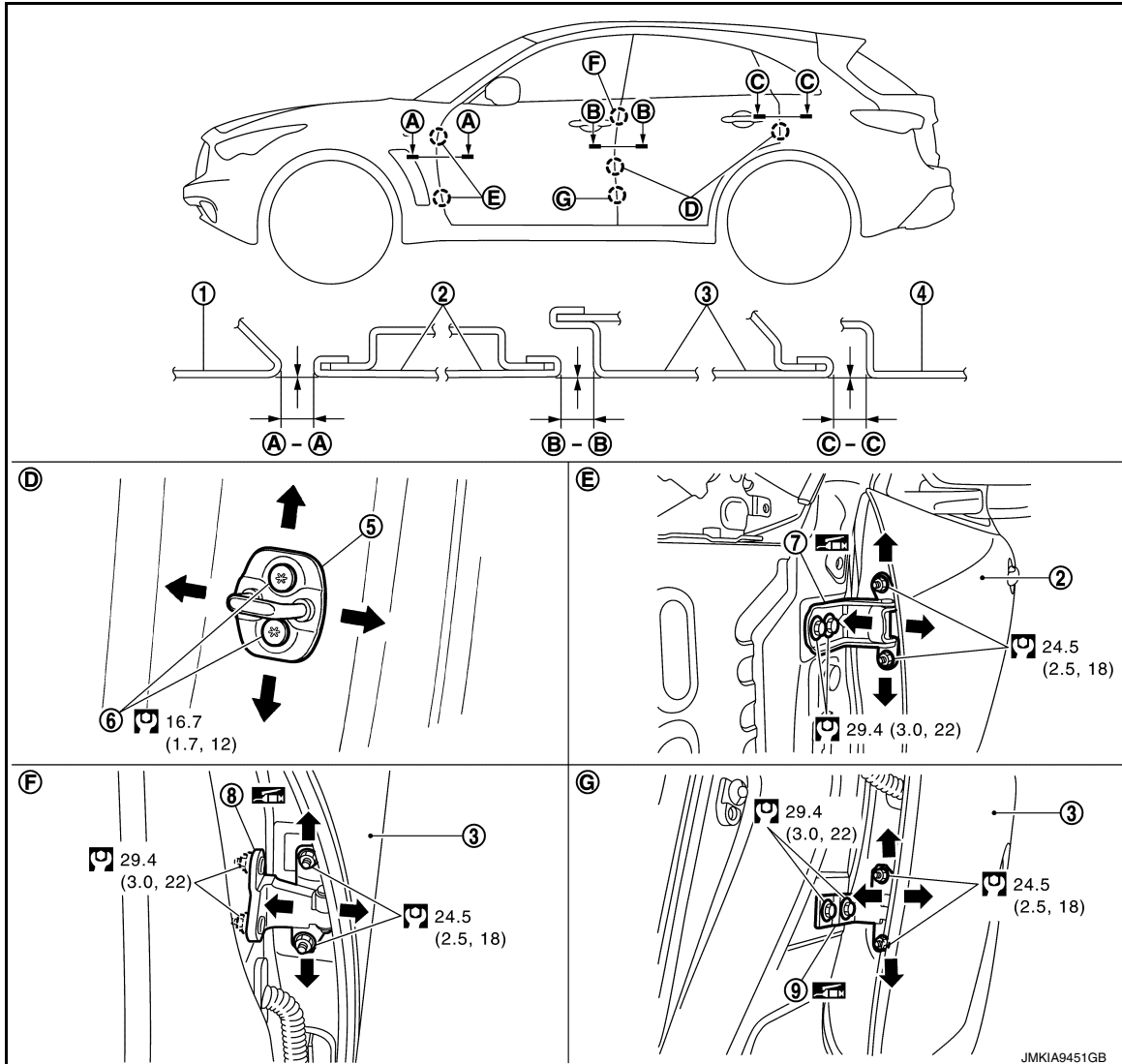
: Body grease

ADJUSTMENT

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]



- | | | |
|-----------------------------------|----------------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Door striker | 6. TORX bolt |
| 7. Front door hinge (upper/lower) | 8. Rear door hinge (upper) | 9. Rear door hinge (lower) |

: N·m (kg-m, ft-lb)

: Body grease

DOOR ASSEMBLY : Removal and Installation

INFOID:000000010577865

CAUTION:

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

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- After installation, check door open/close, lock/unlock operation.
- 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 bolts and nuts.

DOOR ASSEMBLY : Adjustment

INFOID:0000000010577866

Check the clearance and surface height between rear door and each part by seeing and touching.
If the clearance and surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm (in)

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.0 – 5.0 (0.118 – 0.197)	–0.5 – 1.0 (–0.020 – 0.039)
Rear door – Body side outer	C – C	3.0 – 5.0 (0.118 – 0.197)	–0.5 – 1.0 (–0.020 – 0.039)

1. Remove center pillar lower garnish. Refer to [INT-18, "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 the 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-18, "Removal and Installation"](#).

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check door open/close, lock/unlock operation.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

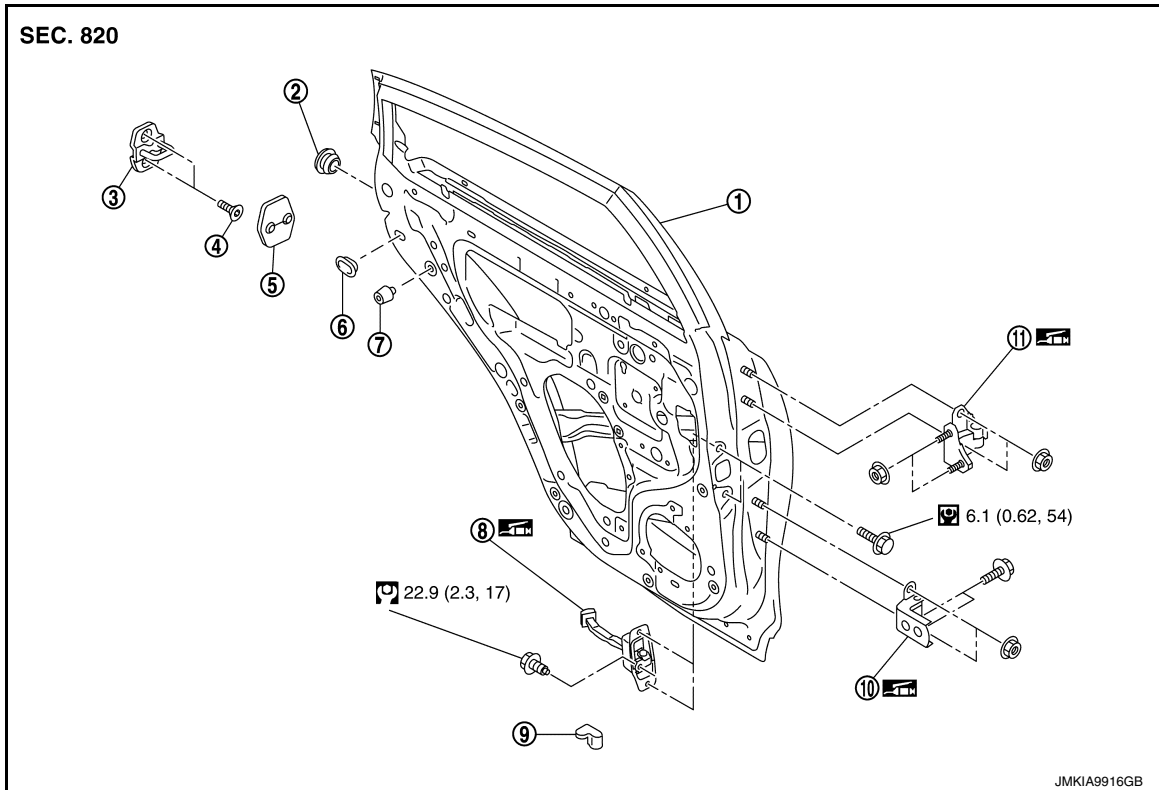
REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR STRIKER : Exploded View

INFOID:0000000010577867



- | | | |
|------------------------|------------------------|--------------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Grommet |
| 7. Bumper rubber | 8. Door check link | 9. Door check link cover |
| 10. Door hinge (lower) | 11. Door hinge (upper) | |

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

: Body grease

DOOR STRIKER : Removal and Installation

INFOID:0000000010577868

REMOVAL

1. Remove door striker cover.
2. Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply genuine high strength locking sealant or equivalent onto TORX bolts.
- After installation, check door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-324, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

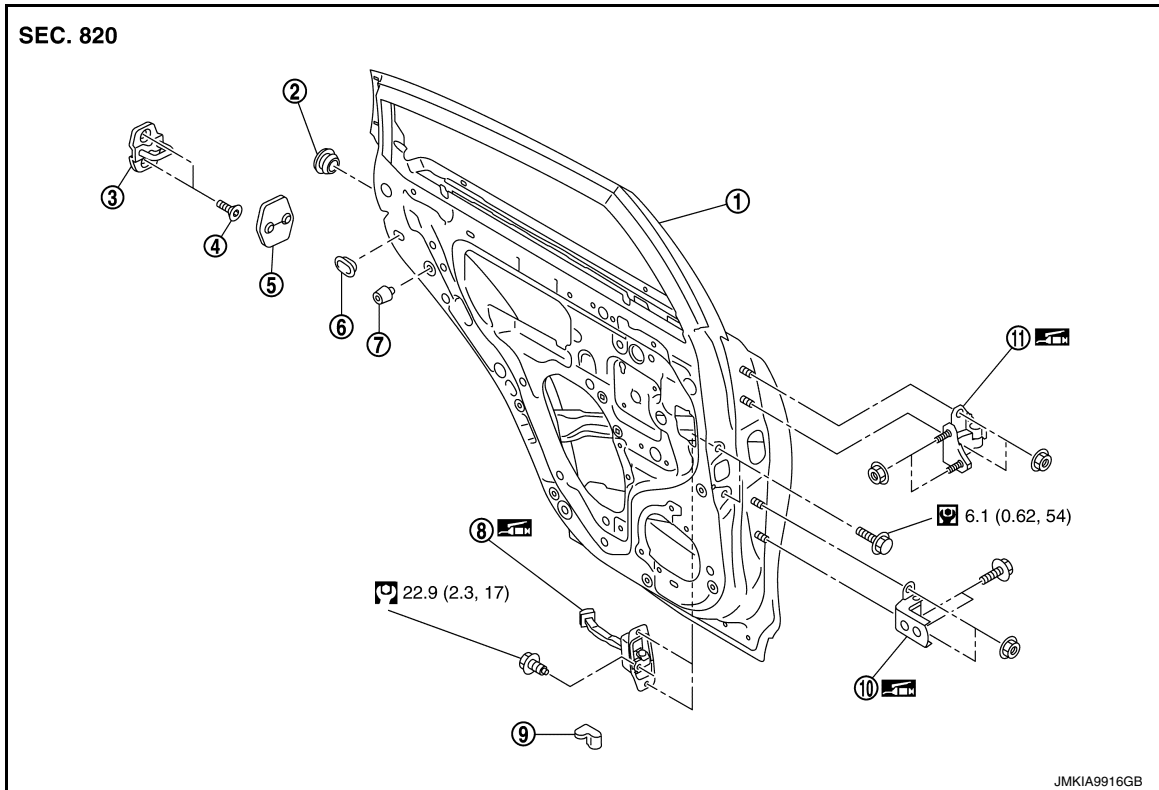
REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR HINGE : Exploded View

INFOID:0000000010577869



- | | | |
|------------------------|------------------------|--------------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Grommet |
| 7. Bumper rubber | 8. Door check link | 9. Door check link cover |
| 10. Door hinge (lower) | 11. Door hinge (upper) | |

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

: Body grease

DOOR HINGE : Removal and Installation

INFOID:0000000010577870

REMOVAL

1. Remove center pillar lower garnish. Refer to [INT-18, "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:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-324, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

DOOR CHECK LINK

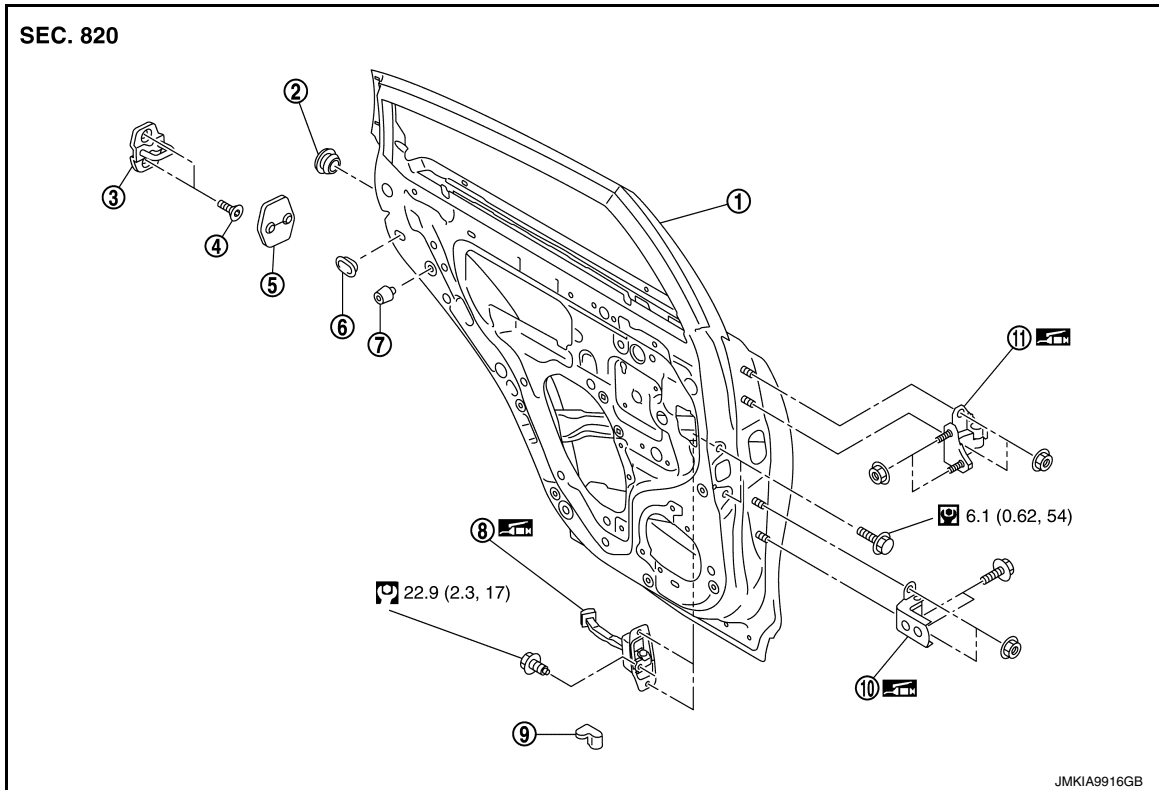
REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR CHECK LINK : Exploded View

INFOID:0000000010577871



- | | | |
|------------------------|------------------------|--------------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Grommet |
| 7. Bumper rubber | 8. Door check link | 9. Door check link cover |
| 10. Door hinge (lower) | 11. Door hinge (upper) | |

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

: Body grease

DLK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000010577872

REMOVAL

1. Remove rear door finisher. Refer to [INT-15, "Removal and Installation"](#).
2. Fully close the rear door window.
3. Remove rear door speaker. Refer to [AV-134, "Removal and Installation"](#) (Models without navigation) or [AV-354, "Removal and Installation"](#) (Models with navigation).
4. Remove door check link cover
5. Remove mounting bolts of door check link on the vehicle.
6. Remove mounting bolts of door check link on door panel.
7. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, check door open/close operation.

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

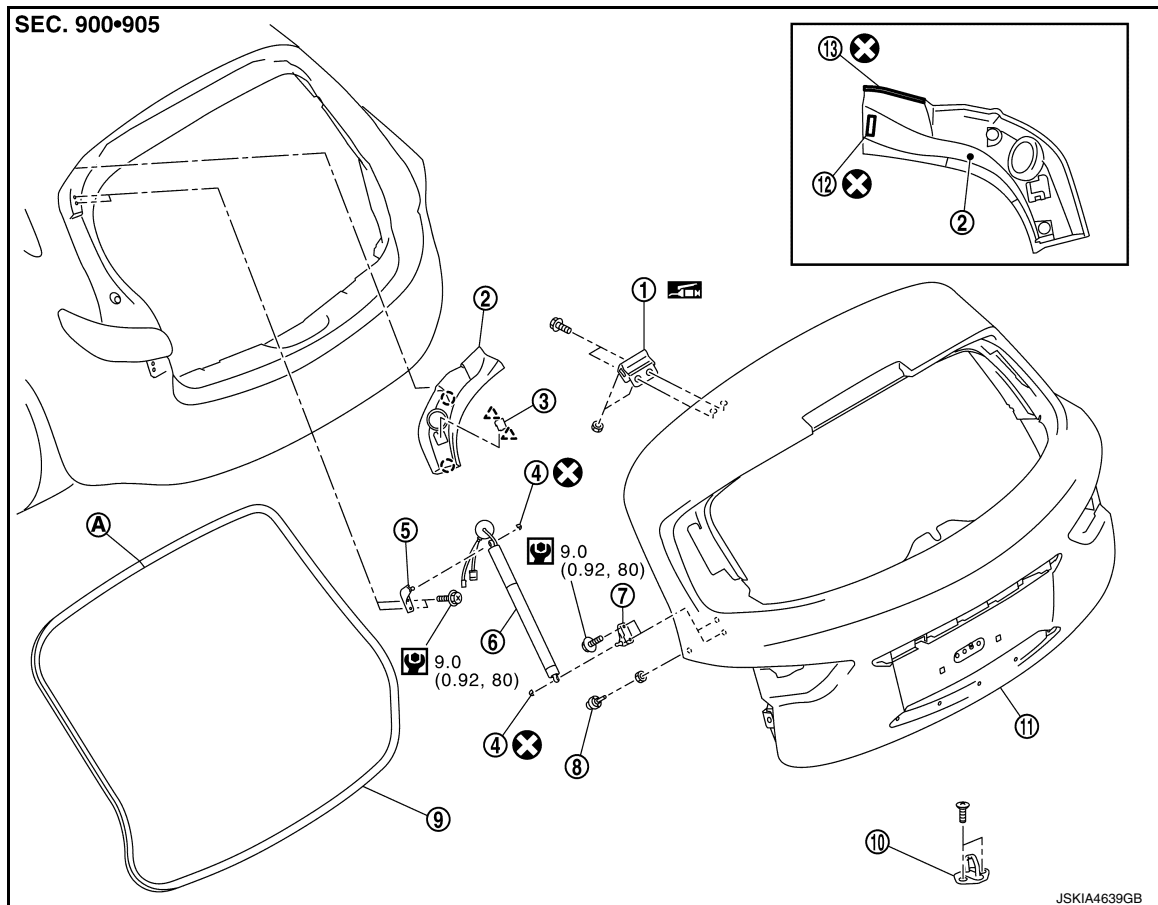
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:0000000010577873

REMOVAL



- | | | |
|---|---------------------------------|---|
| 1. Back door hinge | 2. Back pillar finisher | 3. Cap |
| 4. Rod stopper | 5. Back door stay upper bracket | 6. Spindle unit |
| 7. Back door stay lower bracket | 8. Bumper rubber | 9. Back door weather-strip |
| 10. Back door striker | 11. Back door assembly | 12. Double-sided tape
[t: 1.2 mm (0.047 in)] |
| 13. Double-sided tape
[t: 1.2 mm (0.047 in)] | | |

A : Center mark

○ : Clip

△ : Pawl

⊙ : N·m (kg-m, in-lb)

⌘ : Body grease

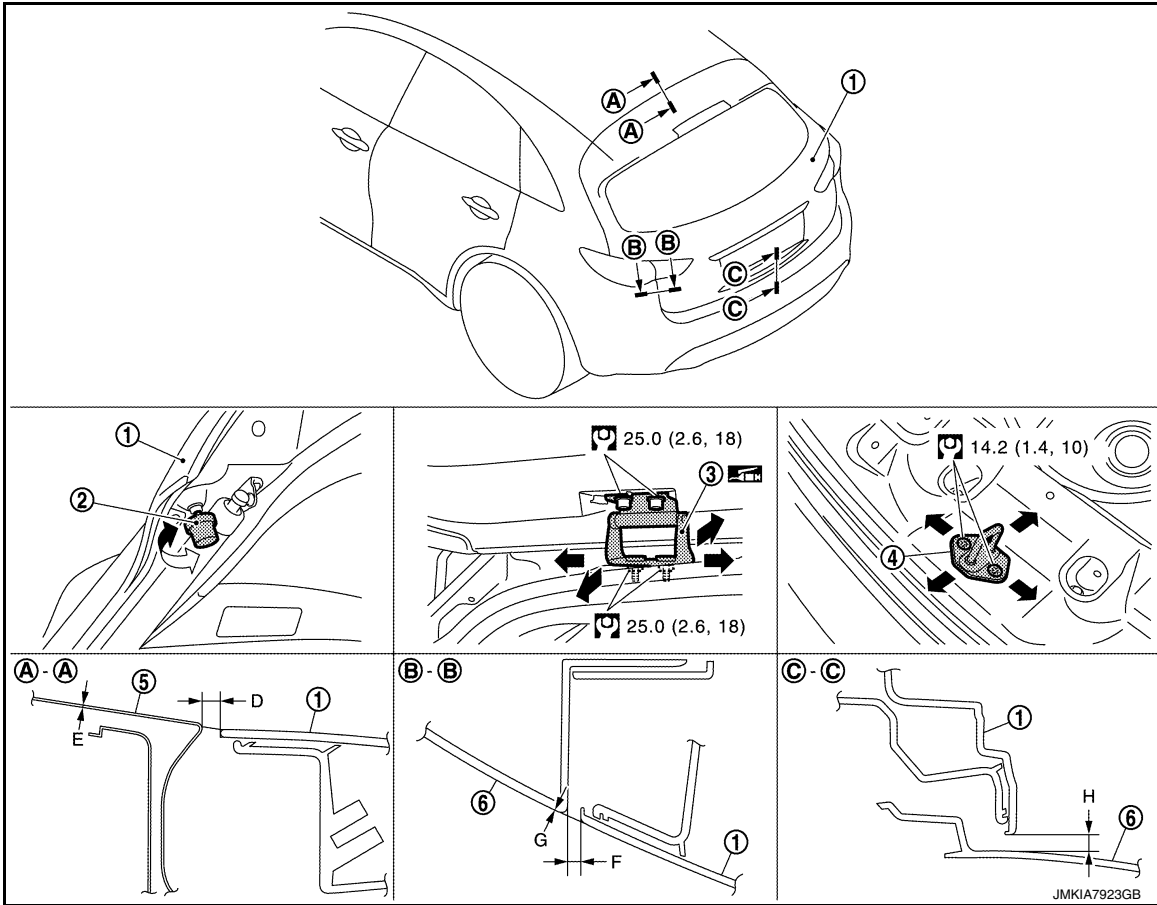
⊗ : Always replace after every disassembly

ADJUSTMENT

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]



1. Back door assembly

2. Bumper rubber

3. Back door hinge

4. Back door striker

5. Roof

6. Rear bumper fascia

: N·m (kg-m, ft-lb)

: Body grease

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000010577874

CAUTION:

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

NOTE:

The back door harness constitute the back door assembly.

REMOVAL

1. Remove back door finisher inner and back door plate. Refer to [INT-34, "Removal and Installation"](#).
2. Remove clips of headlining at rear end. Refer to [INT-26, "Removal and Installation"](#).
3. Disconnect connectors and remove bolts of back door harness.
4. Remove back door grommet LH, and then pull harness out of vehicle at roof panel hole.
5. Remove back door plate, and then disconnect washer tube. Refer to [INT-34, "Exploded View"](#) and [WW-135, "Removal and Installation"](#).
6. Pull washer tube out of back door.
7. Support back door lock with the proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

8. Remove spindle unit. Refer to [DLK-334, "SPINDLE UNIT : Removal and Installation"](#).

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

9. Remove back door hinge mounting bolts on back door and remove back door assembly.

INSTALLATION

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

CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-330, "BACK DOOR ASSEMBLY : Adjustment"](#).
- Perform initialization setting of automatic back door system. Refer to [DLK-14, "Work Procedure"](#).
- After installation, check back door open/close, lock/unlock operation.
- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.

BACK DOOR ASSEMBLY : Adjustment

INFOID:0000000010577875

Check the clearance and the surface height between back door and each part by seeing and touching.
If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm (in)

Portion				Standard
Back door – Roof	A – A	D	Clearance	5.0 – 9.0 (0.197 – 0.354)
		E	Surface height	–2.3 – 1.7 (–0.090 – 0.067)
Back door – Rear bumper fascia	B – B	F	Clearance	3.0 – 7.0 (0.118 – 0.276)
		G	Surface height	–2.1 – 2.1 (–0.083 – 0.083)
	C – C	H	Clearance	5.0 – 9.0 (0.197 – 0.354)

1. Loosen back door hinge mounting bolts (back door side).
2. Loosen bumper rubber.
3. Remove luggage rear plate cap. Refer to [INT-31, "Removal and Installation"](#).
4. Loosen back door striker mounting bolts.
5. 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.
6. Check the clearance and surface height.
7. Finally tighten back door hinge, bumper rubber, and back door striker.

CAUTION:

- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check back door open/close, lock/unlock operation.

8. Install luggage rear plate cap. Refer to [INT-31, "Removal and Installation"](#).

CAUTION:

After installation, perform the camera image calibration.

- WITHOUT NAVIGATION: Refer to [AV-147, "Adjustment"](#).
- NAVIGATION: Refer to [AV-248, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that it becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

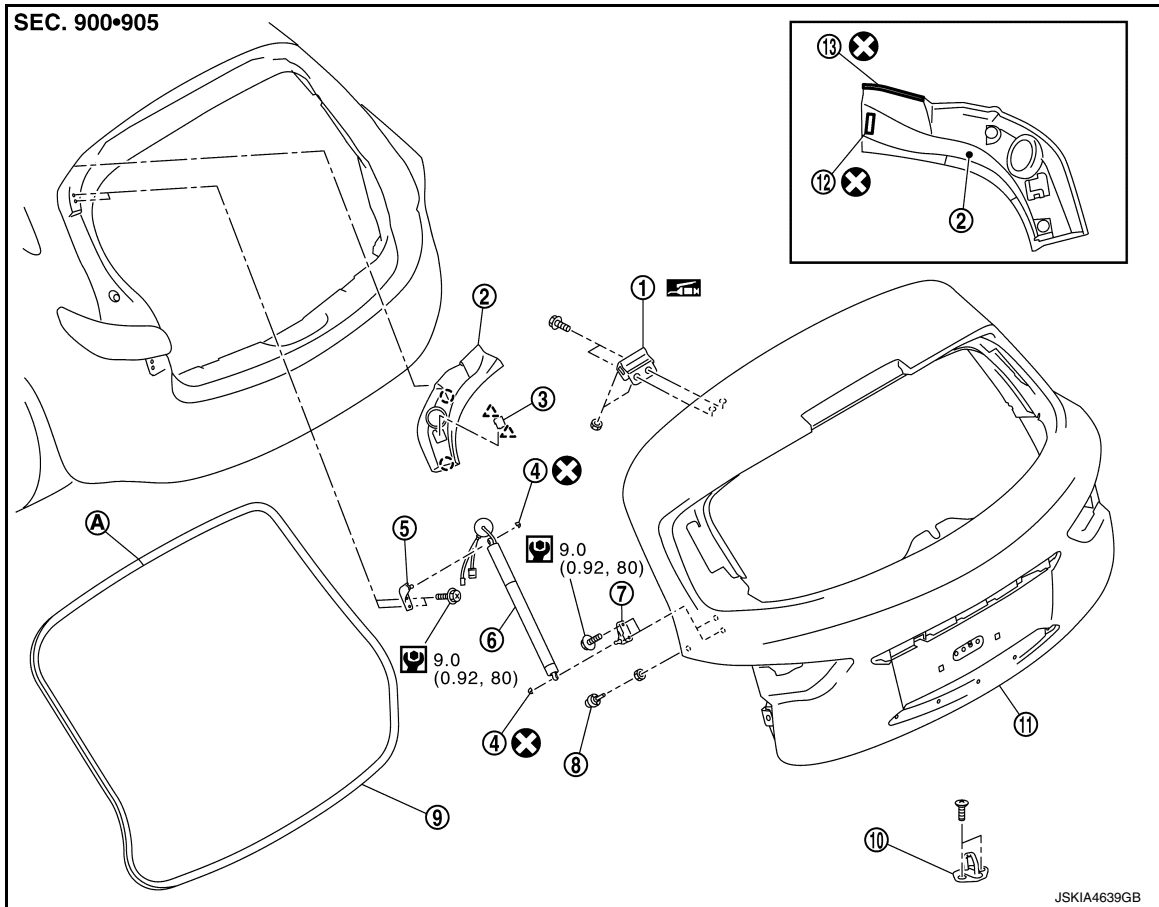
BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR STRIKER : Exploded View

INFOID:000000010577876



- | | | |
|---|---------------------------------|---|
| 1. Back door hinge | 2. Back pillar finisher | 3. Cap |
| 4. Rod stopper | 5. Back door stay upper bracket | 6. Spindle unit |
| 7. Back door stay lower bracket | 8. Bumper rubber | 9. Back door weather-strip |
| 10. Back door striker | 11. Back door assembly | 12. Double-sided tape
[t: 1.2 mm (0.047 in)] |
| 13. Double-sided tape
[t: 1.2 mm (0.047 in)] | | |

A : Center mark

○ : Clip

△ : Pawl

⊙ : N·m (kg-m, in-lb)

■ : Body grease

⊗ : Always replace after every disassembly

BACK DOOR STRIKER : Removal and Installation

INFOID:000000010577877

REMOVAL

1. Remove luggage rear plate cap. Refer to [INT-31, "Removal and Installation"](#).
2. Remove mounting bolts, and then remove back door striker.

INSTALLATION

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

CAUTION:

- After installation, check back door open/close, lock/unlock operation.

A
B
C
D
E
F
G
H
I
J

DLK

L
M
N
O
P

BACK DOOR

< REMOVAL AND INSTALLATION >

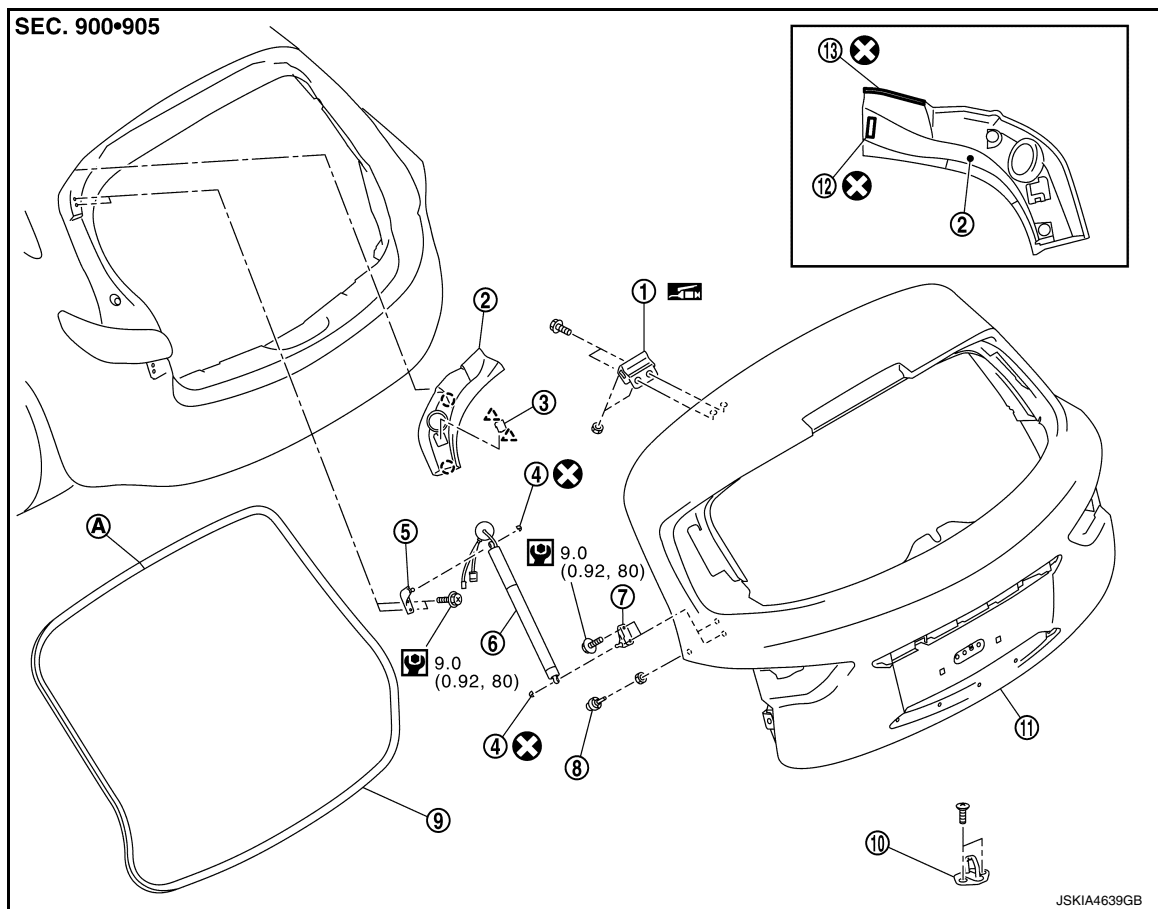
[WITH INTELLIGENT KEY SYSTEM]

- After installation, perform the fitting adjustment. Refer to [DLK-330, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR HINGE

BACK DOOR HINGE : Exploded View

INFOID:0000000010577878



- | | | |
|---|---------------------------------|---|
| 1. Back door hinge | 2. Back pillar finisher | 3. Cap |
| 4. Rod stopper | 5. Back door stay upper bracket | 6. Spindle unit |
| 7. Back door stay lower bracket | 8. Bumper rubber | 9. Back door weather-strip |
| 10. Back door striker | 11. Back door assembly | 12. Double-sided tape
[t: 1.2 mm (0.047 in)] |
| 13. Double-sided tape
[t: 1.2 mm (0.047 in)] | | |
- A : Center mark
- : Clip
- △ : Pawl
- ⊙ : N·m (kg-m, in-lb)
- ⊞ : Body grease
- ⊗ : Always replace after every disassembly

BACK DOOR HINGE : Removal and Installation

INFOID:0000000010577879

REMOVAL

1. Remove luggage side lower finisher and luggage side upper finisher. Refer to [INT-31, "Removal and Installation"](#).

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Using a remover tool, remove headlining clip at the rear side of headlining, and then remove rear side of headlining. Refer to [INT-26, "Removal and Installation"](#).
3. Remove back door assembly. Refer to [DLK-329, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
4. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

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

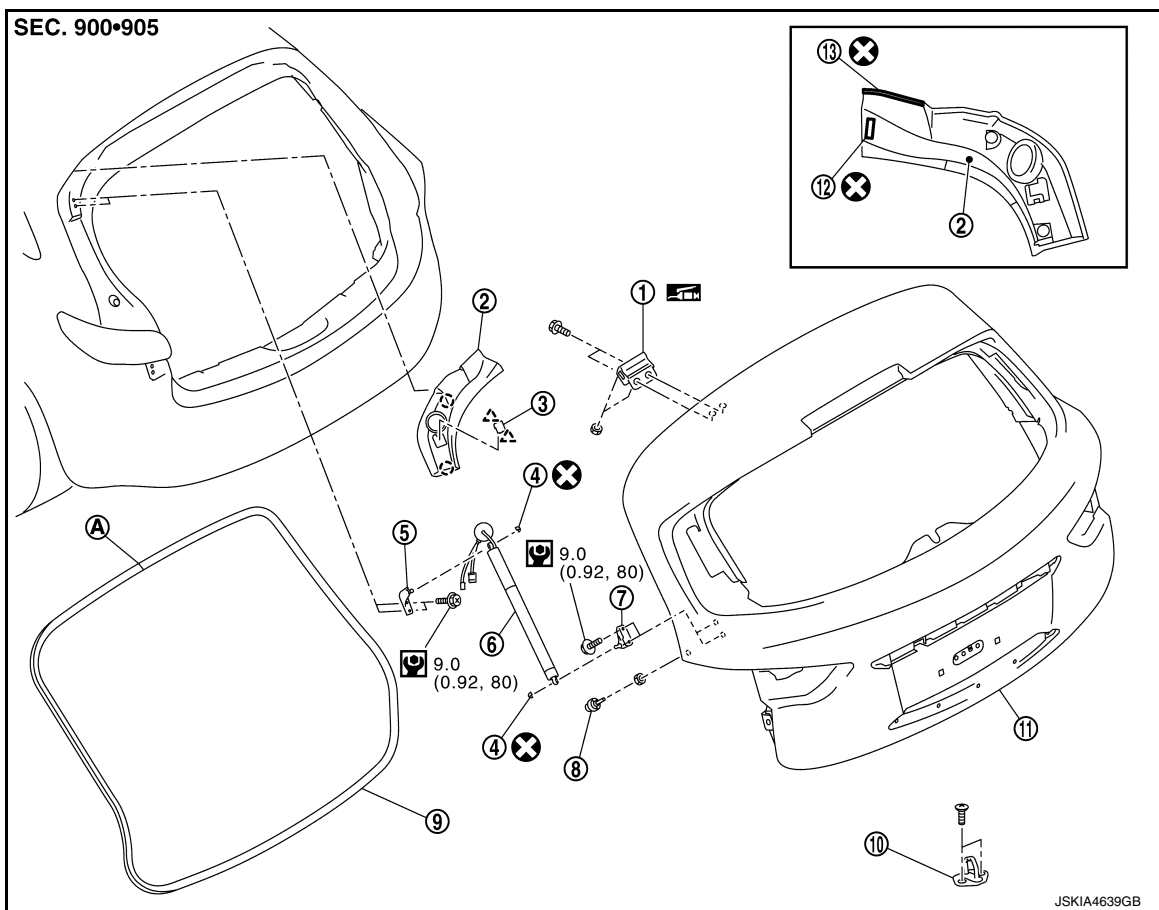
CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-330, "BACK DOOR ASSEMBLY : Adjustment"](#).
- Perform initialization setting of automatic back door system. Refer to [DLK-14, "Work Procedure"](#).
- After installation, check back door open/close, lock/unlock operation.
- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.

SPINDLE UNIT

SPINDLE UNIT : Exploded View

INFOID:0000000010577880



- | | | |
|---------------------------------|---------------------------------|---|
| 1. Back door hinge | 2. Back pillar finisher | 3. Cap |
| 4. Rod stopper | 5. Back door stay upper bracket | 6. Spindle unit |
| 7. Back door stay lower bracket | 8. Bumper rubber | 9. Back door weather-strip |
| 10. Back door striker | 11. Back door assembly | 12. Double-sided tape
[t: 1.2 mm (0.047 in)] |

13. Double-sided tape
[t: 1.2 mm (0.047 in)]

A : Center mark

○ : Clip

△ : Pawl

 : Body grease

 : N·m (kg-m, in-lb)

 : Always replace after every disassembly

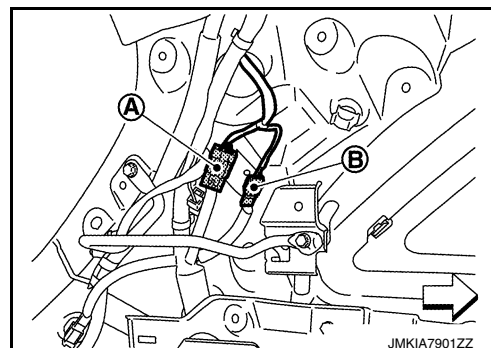
SPINDLE UNIT : Removal and Installation

INFOID:0000000010577881

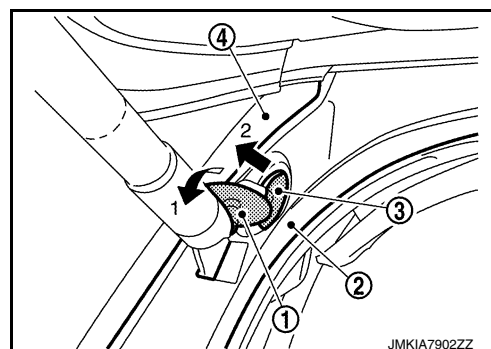
REMOVAL

1. Disconnect the battery cable from the negative terminal.
2. Remove luggage side finisher. Refer to [INT-31, "Removal and Installation"](#).
3. Disconnect spindle unit harness connector (A) and (B).

 : Vehicle front



4. Remove cap cover (1) from back pillar finisher (2).
5. Remove grommet (3) from back main upper pillar (4).
6. Pull out spindle unit harness from the vehicle.



7. Using an appropriate material, Support back door to prevent it from falling.

WARNING:

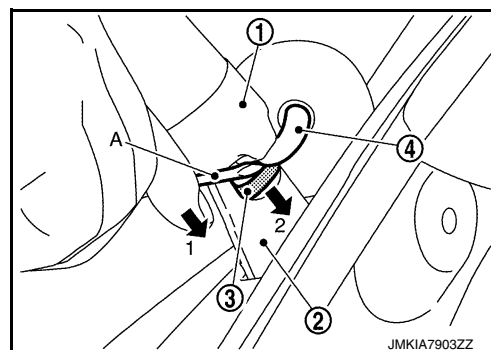
Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

8. Using a flat-bladed screwdriver (A) remove the rod stopper (3) located on the connection between the spindle unit (1) and the back door stay upper bracket (2).

CAUTION:

- Be careful not to damage spindle unit harness (4).
- Be careful not to damage painted surface.
- Rod stopper is not reusable. Replace with new part when rod stopper is removed.

9. Remove spindle unit (body side).



10. In the same way, Remove spindle unit (back door side). Location of components is symmetrically opposite of those shown in the figure.

INSTALLATION

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

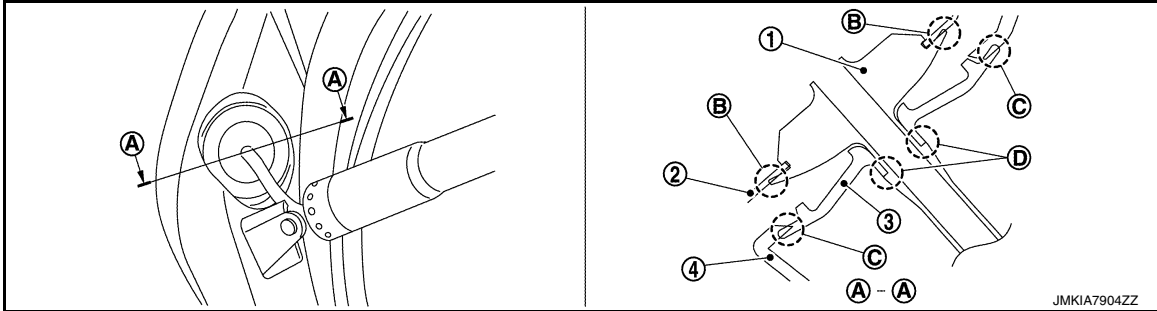
CAUTION:

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Be careful of the following items when installing grommet (1) and cap cover (3).

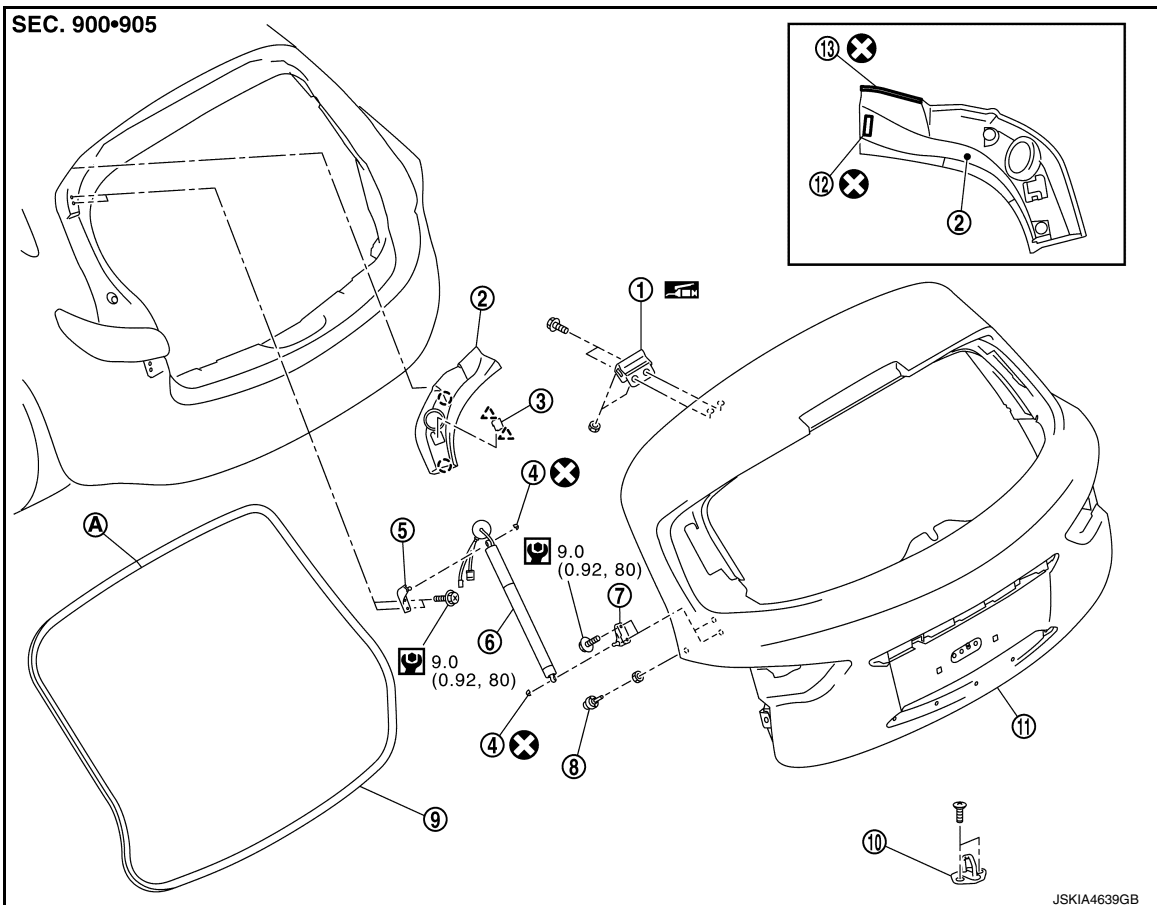


- (B): Check that there is no clearance between grommet and back main upper pillar (2).
- (C): Check that there is no clearance between cap cover and back pillar finisher (4) and that cap cover is installed normally, as shown in the figure.
- (D): Check that cap cover is securely engaged to grommet.
- Perform initialization setting of automatic back door system. Refer to [DLK-14, "Work Procedure"](#).
- Check back door open/close operation after installation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Exploded View

INFOID:0000000010577882



- | | | |
|---------------------------------|---------------------------------|---|
| 1. Back door hinge | 2. Back pillar finisher | 3. Cap |
| 4. Rod stopper | 5. Back door stay upper bracket | 6. Spindle unit |
| 7. Back door stay lower bracket | 8. Bumper rubber | 9. Back door weather-strip |
| 10. Back door striker | 11. Back door assembly | 12. Double-sided tape
[t: 1.2 mm (0.047 in)] |

13. Double-sided tape
[t: 1.2 mm (0.047 in)]

A : Center mark

 : Clip

 : Pawl

 : N·m (kg-m, in-lb)

 : Body grease

 : Always replace after every disassembly

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000010577883

REMOVAL

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

CAUTION:

Never pull strongly on weather-strip.

INSTALLATION

1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.
2. Pull weather-strip gently to ensure that there is no loose section.

NOTE:

Check that weather-strip fits tightly in each corner and luggage rear plate.

HOOD LOCK

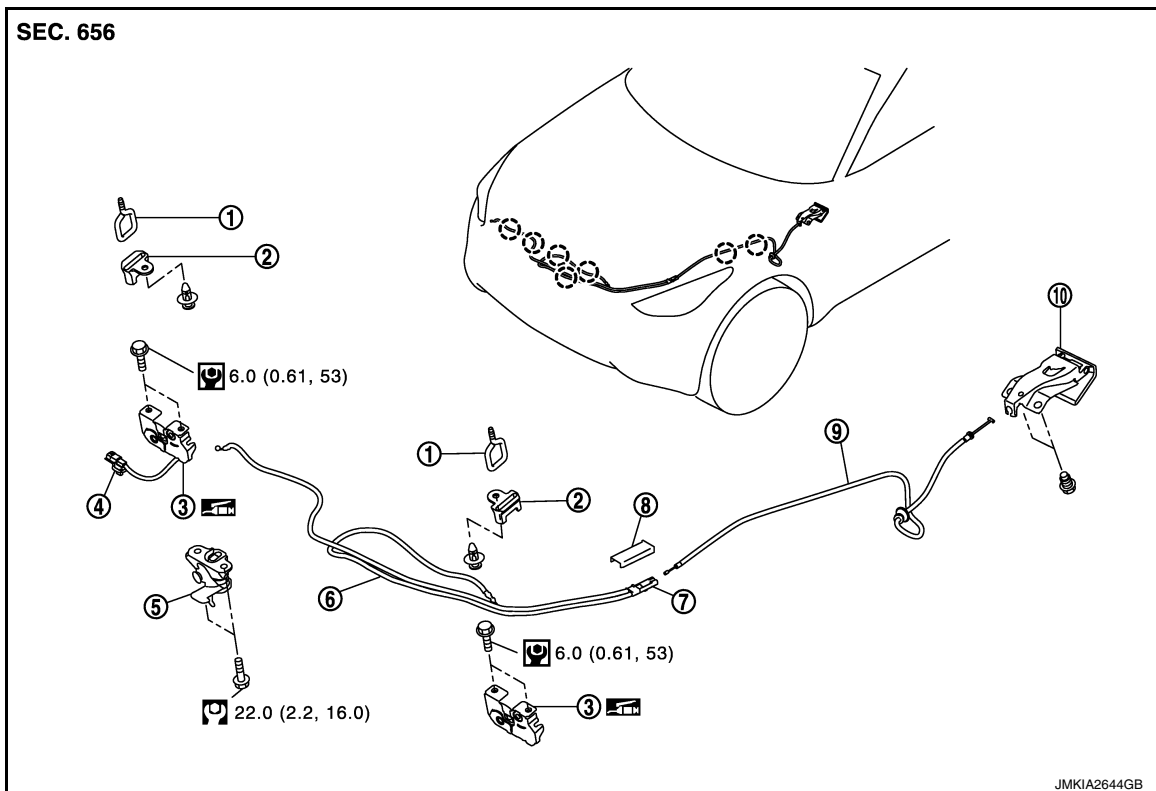
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

HOOD LOCK

Exploded View

INFOID:000000010577884



- | | | |
|--------------------------------------|--|------------------------------------|
| 1. Hood striker (LH/RH) | 2. Hood lock cover (LH/RH) | 3. Hood lock (LH/RH) |
| 4. Hood switch | 5. Secondary latch | 6. Hood lock control cable (front) |
| 7. Hood lock control cable protector | 8. Hood lock control cable protector cover | 9. Hood lock control cable (rear) |
| 10. Hood lock opener | | |

○ : Clip

⊙ : N·m (kg-m, ft-lb)

⊙ : N·m (kg-m, in-lb)

■ : Body grease

Removal and Installation

INFOID:000000010577885

REMOVAL

CAUTION:

Before removal, confirm how the hood lock control cable is allocated and connected.

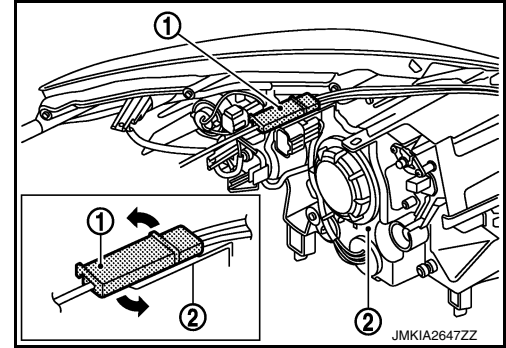
- Remove air duct (inlet).
 - VQ37VHR models: Refer to [EM-29, "Exploded View"](#).
 - VK50VE models: Refer to [EM-187, "Exploded View"](#).
- Remove engine room cover (LH/RH) (VK50VE models). Refer to [EM-185, "Removal and Installation"](#).
- Remove air cleaner case assembly RH.
 - VQ37VHR models: Refer to [EM-29, "Removal and Installation"](#).
 - VK50VE models: Refer to [EM-187, "Removal and Installation"](#).
- Disconnect hood switch connector from head lamp bracket RH.
- Remove mounting bolts and remove hood lock bracket (LH/RH).
- Disconnect hood lock control cable (front) from hood lock (LH/RH).

HOOD LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

7. Disassembly hood lock from hood lock bracket (LH/RH).
8. Remove fender protector LH. Refer to [EXT-25, "FENDER PROTECTOR : Removal and Installation"](#).
9. Remove clips of hood seal assembly (side) LH at the front side.
10. Rotate hood lock control cable protector (1) toward the arrow direction, then remove it from front combination lamp assembly (2).



11. Remove hood lock control cable protector cover from hood lock control cable protector.
12. Disconnect hood lock control cable (rear) from hood lock control cable protector.
13. Remove mounting bolts and remove hood lock opener.
14. Remove grommet on the lower dash, pull hood lock control cable (rear) toward the passenger compartment.

CAUTION:

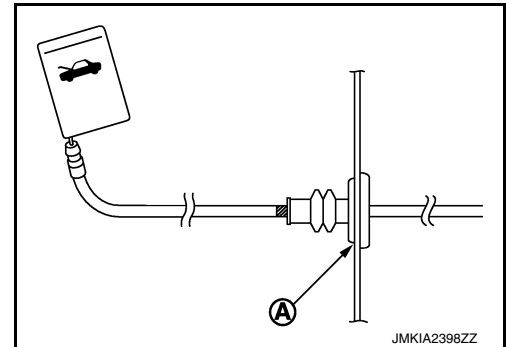
While pulling, never damage (peeling) the outside of the hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never bend cable too much. Keep the radius 100 mm (3.937 in) or more.
- Check cable is not offset from the positioning grommet, and apply the sealant to the grommet (A) properly.



- Check hood lock control cable is properly engaged with hood lock.
- After installation, perform the fitting adjustment. Refer to [DLK-306, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform the inspection. Refer to [DLK-338, "Inspection"](#).

Inspection

INFOID:0000000010577886

NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] by hood weight.
2. While operating hood opener, carefully check that the front end of hood is raised by approximately 20 mm (0.787 in). Also check that hood opener returns to the original position.
3. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or less.
4. Install so that static closing force of hood is 94 – 490 N (9.6 – 50.0 kg, 21.1 – 110 lb).

NOTE:

- Exert vertical force on right side and left side of hood lock.
- Do not simultaneously press both sides.

HOOD LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

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DLK

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

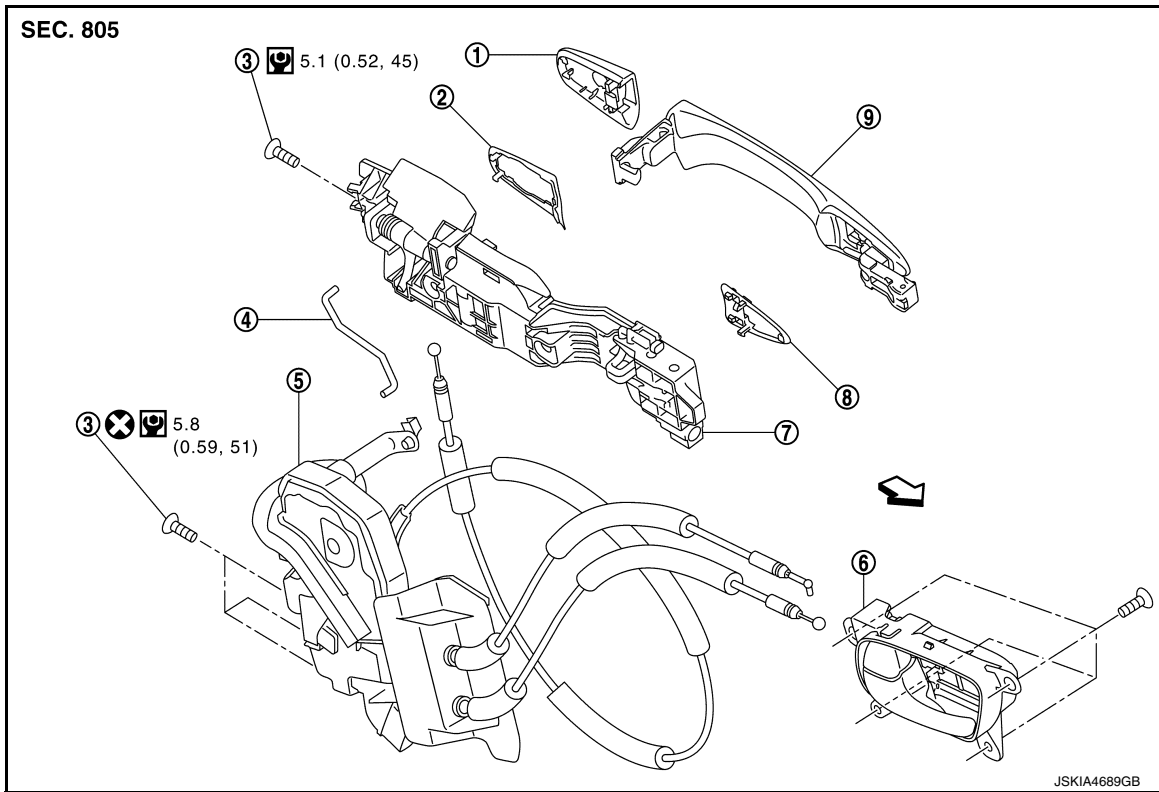
[WITH INTELLIGENT KEY SYSTEM]

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000010577887



- | | | |
|---|-----------------------|-------------------|
| 1. Door key cylinder assembly (driver side) | 2. Rear gasket | 3. TORX bolt |
| Outside handle escutcheon (passenger side) | | |
| 4. Key rod (driver side) | 5. Door lock assembly | 6. Inside handle |
| 7. Outside handle bracket | 8. Front gasket | 9. Outside handle |

← : Vehicle front

: N·m (kg-m, in-lb)

: Always replace after every disassembly

DOOR LOCK : Removal and Installation

INFOID:0000000010577888

REMOVAL

1. Remove front door finisher. Refer to [INT-12, "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. Remove door key cylinder assembly (outside handle escutcheon), outside handle, outside handle bracket, rear gasket and front gasket. Refer to [DLK-342, "OUTSIDE HANDLE : Removal and Installation"](#).
5. Remove door lock assembly TORX bolts.
6. Disconnect door lock actuator connector, and then remove door lock assembly.
7. Remove key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

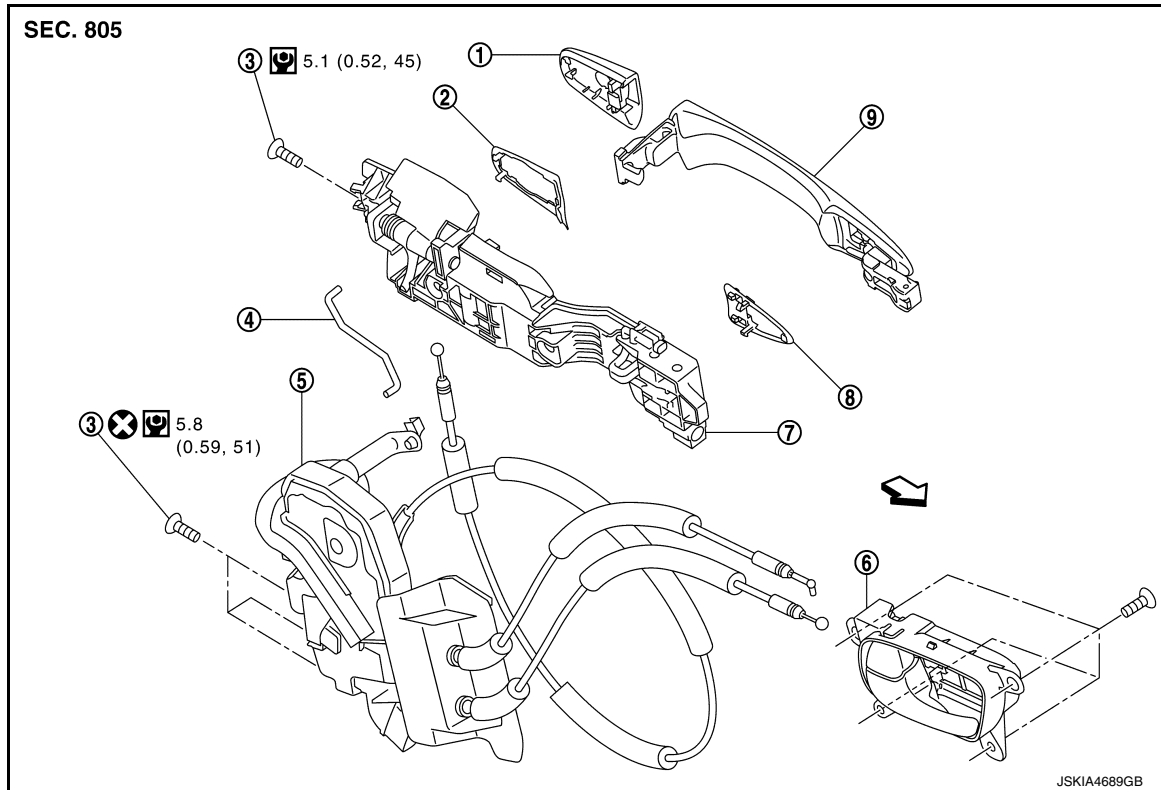
CAUTION:

- Check door lock cables are properly engaged with inside handle and outside handle.
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door open/close, lock/unlock operation.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:0000000010577889



- | | | |
|---|-----------------------|-------------------|
| 1. Door key cylinder assembly (driver side) | 2. Rear gasket | 3. TORX bolt |
| Outside handle escutcheon (passenger side) | | |
| 4. Key rod (driver side) | 5. Door lock assembly | 6. Inside handle |
| 7. Outside handle bracket | 8. Front gasket | 9. Outside handle |

↶ : Vehicle front

⊙ : N·m (kg-m, in-lb)

⊗ : Always replace after every disassembly

INSIDE HANDLE : Removal and Installation

INFOID:0000000010577890

REMOVAL

1. Remove front door finisher. Refer to [INT-12, "Removal and Installation"](#).
2. Disconnect door lock cables from inside handle.
3. Remove inside handle mounting screws, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check door lock cables are properly engaged with inside handle.
- After installation, check door open/close, lock/unlock operation.

OUTSIDE HANDLE

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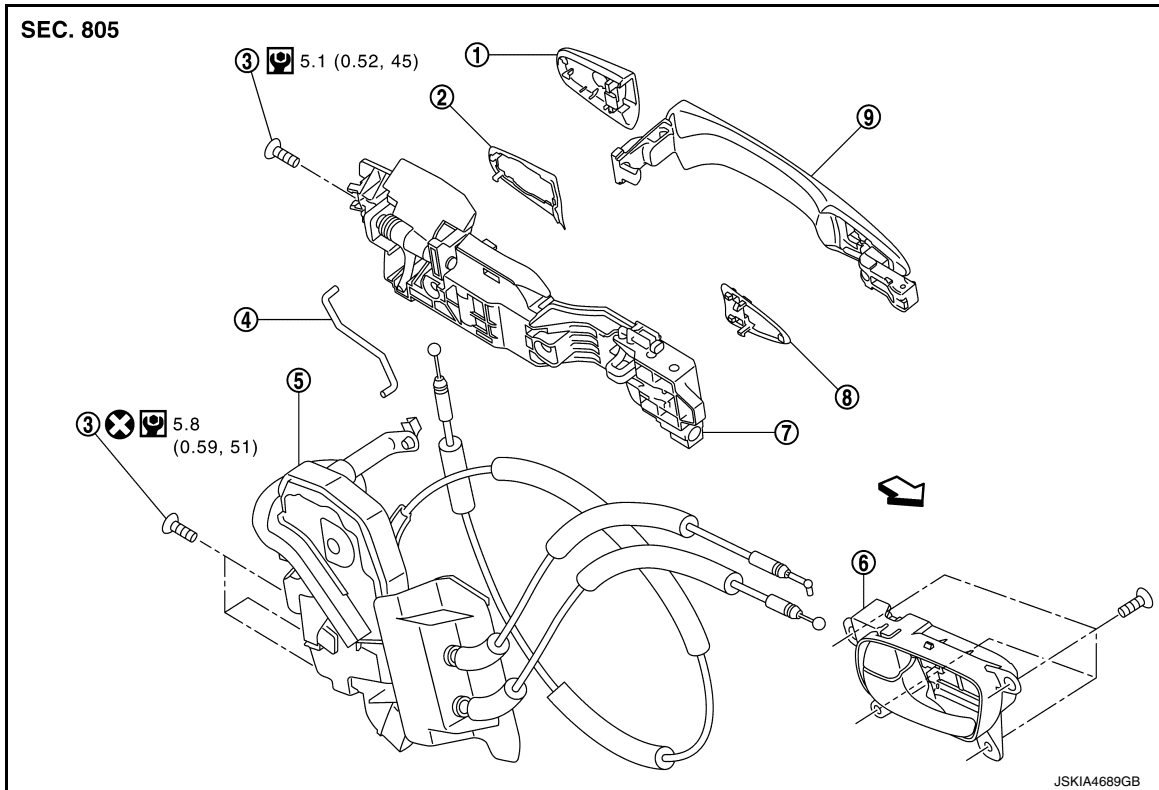
FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE HANDLE : Exploded View

INFOID:0000000010577891



- | | | |
|---|-----------------------|-------------------|
| 1. Door key cylinder assembly (driver side) | 2. Rear gasket | 3. TORX bolt |
| Outside handle escutcheon (passenger side) | | |
| 4. Key rod (driver side) | 5. Door lock assembly | 6. Inside handle |
| 7. Outside handle bracket | 8. Front gasket | 9. Outside handle |

⇨ : Vehicle front

⌚ : N·m (kg-m, in-lb)

⊗ : Always replace after every disassembly

OUTSIDE HANDLE : Removal and Installation

INFOID:0000000010577892

REMOVAL

1. Remove front door finisher. Refer to [INT-12. "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 then remove harness clamp (models with Intelligent Key system) on outside handle bracket.

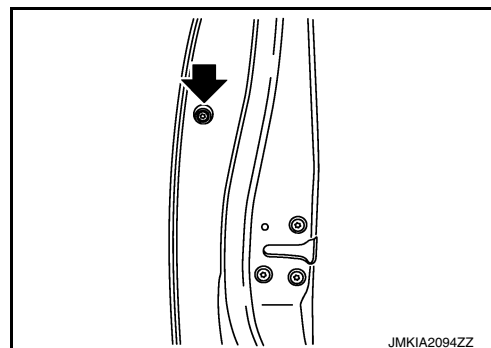
FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

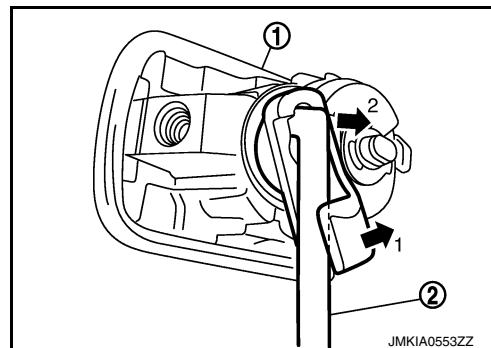
[WITH INTELLIGENT KEY SYSTEM]

5. Remove door side grommet, and loosen TORX bolt from grommet hole.

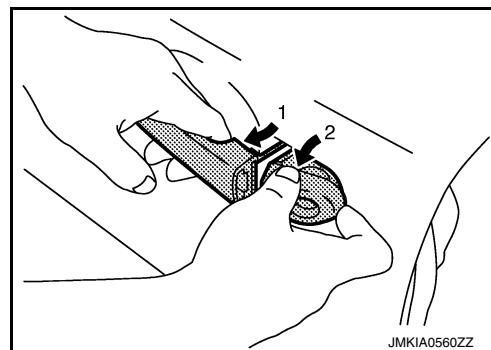
← : TORX bolt



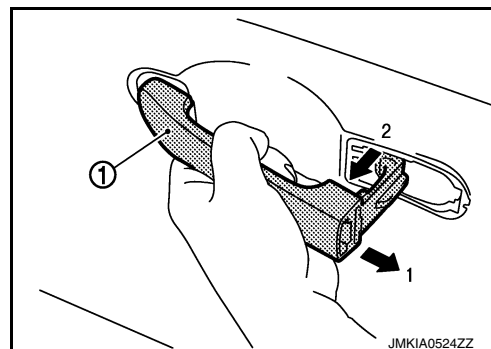
6. Reach in to separate key rod (2) connection [on the door key cylinder assembly (1)] (driver side).



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.



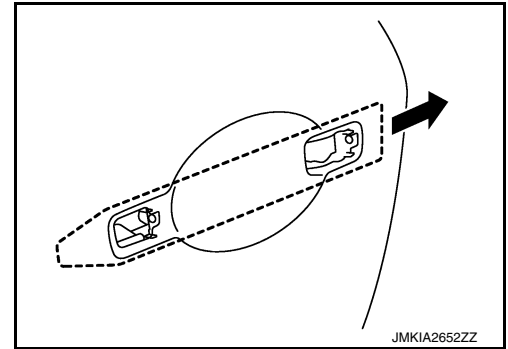
9. Remove front gasket and rear gasket.

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

10. Slide toward rear of vehicle to remove outside handle bracket.



11. Disconnect door lock cable from outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When installing key rod, rotate key rod holder until a click is felt.
- Check door lock cable is properly engaged with outside handle bracket.
- After installation, check door open/close, lock/unlock operation.

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

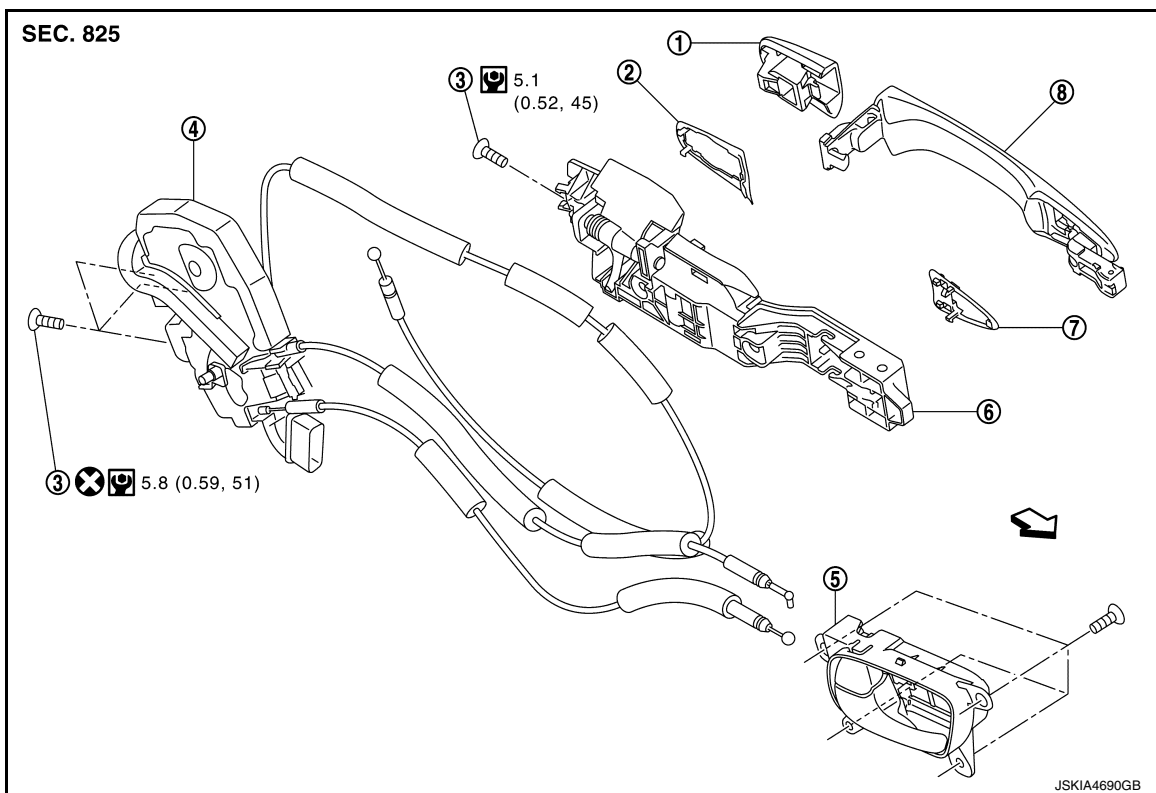
[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000010577893



- | | | |
|------------------------------|-------------------|---------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. TORX bolt |
| 4. Door lock assembly | 5. Inside handle | 6. Outside handle bracket |
| 7. Front gasket | 8. Outside handle | |

← : Vehicle front

 : N·m (kg-m, in-lb)

 : Always replace after every disassembly

DOOR LOCK : Removal and Installation

INFOID:0000000010577894

REMOVAL

1. Remove outside handle escutcheon, outside handle, rear gasket and front gasket. Refer to [DLK-347, "OUTSIDE HANDLE : Removal and Installation"](#).
2. Remove rear door finisher. Refer to [INT-15, "Removal and Installation"](#).
3. Remove sealing screen, rear door glass and rear door sash. Refer to [GW-25, "Removal and Installation"](#).
4. Remove outside handle bracket. Refer to [DLK-347, "OUTSIDE HANDLE : Exploded View"](#).
5. Remove door lock assembly TORX bolts.
6. Disconnect door lock actuator connector, and then remove door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check door lock cables are properly engaged with inside handle and outside handle.
- After installation, check door open/close, lock/unlock operation.

INSIDE HANDLE

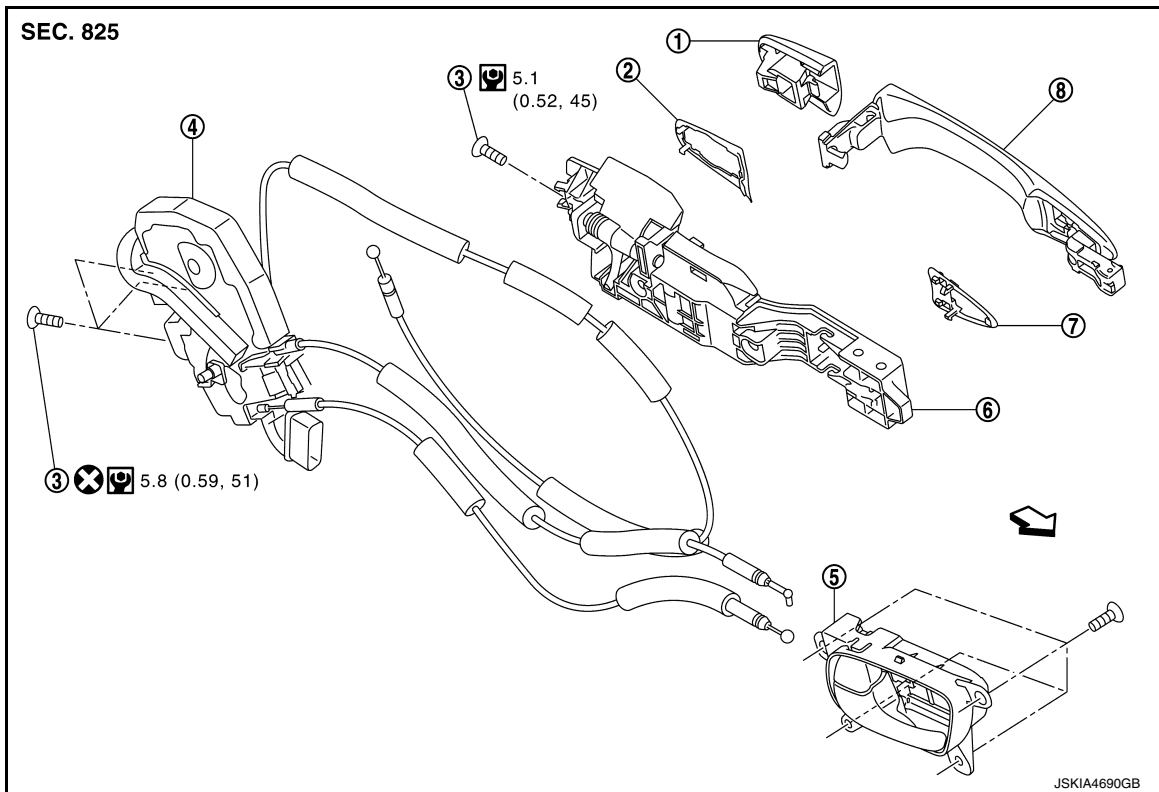
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSIDE HANDLE : Exploded View

INFOID:0000000010577895



- | | | |
|------------------------------|-------------------|---------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. TORX bolt |
| 4. Door lock assembly | 5. Inside handle | 6. Outside handle bracket |
| 7. Front gasket | 8. Outside handle | |

↶ : Vehicle front

⌚ : N·m (kg-m, in-lb)

⊗ : Always replace after every disassembly

INSIDE HANDLE : Removal and Installation

INFOID:0000000010577896

REMOVAL

1. Remove rear door finisher. Refer to [INT-15, "Removal and Installation"](#).
2. Disconnect door lock cables from inside handle.
3. Remove inside handle mounting screws, and then remove inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check door lock cables are properly engaged with inside handle.
- After installation, check door open/close, lock/unlock operation.

OUTSIDE HANDLE

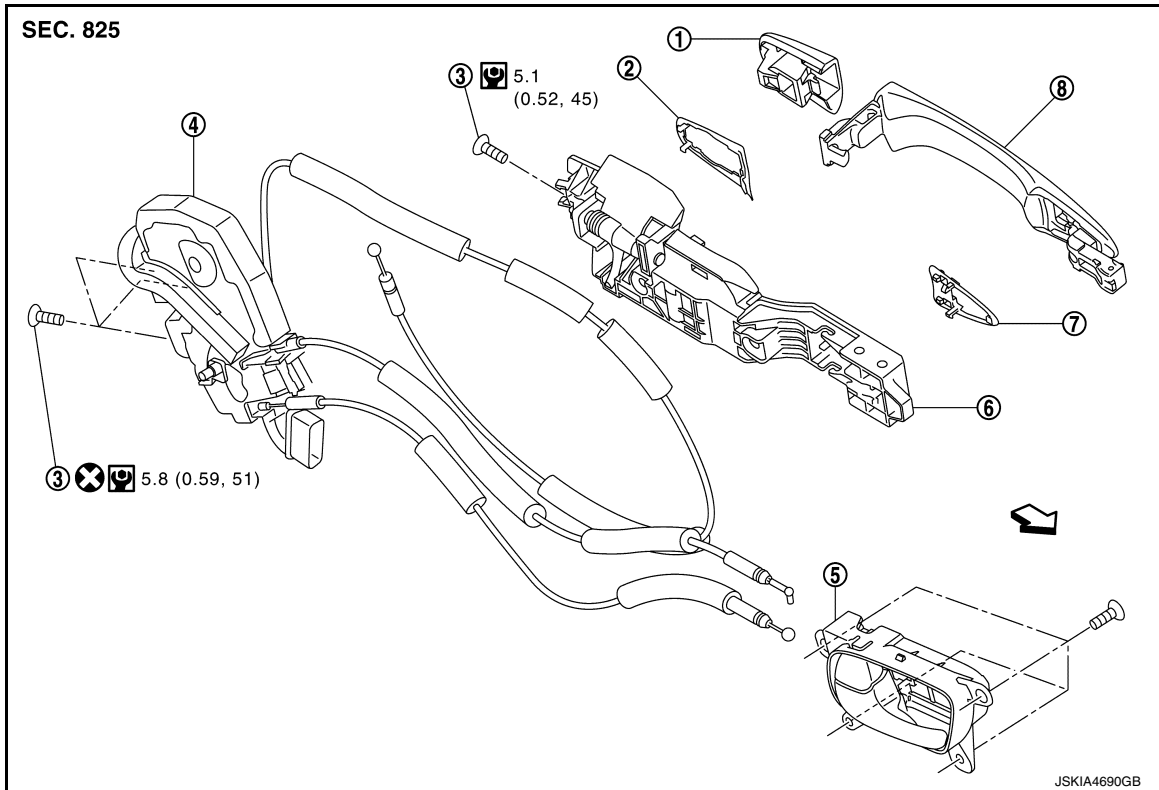
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE HANDLE : Exploded View

INFOID:000000010577897



- | | | |
|------------------------------|-------------------|---------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. TORX bolt |
| 4. Door lock assembly | 5. Inside handle | 6. Outside handle bracket |
| 7. Front gasket | 8. Outside handle | |

← : Vehicle front

⊙ : N·m (kg-m, in-lb)

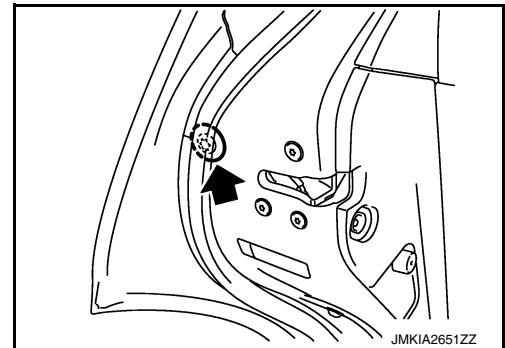
⊗ : Always replace after every disassembly

OUTSIDE HANDLE : Removal and Installation

INFOID:000000010577898

REMOVAL

1. Disconnect rear door weather-strip to see door side grommet.
2. Remove door side grommet, and loosen TORX bolt from grommet hole.



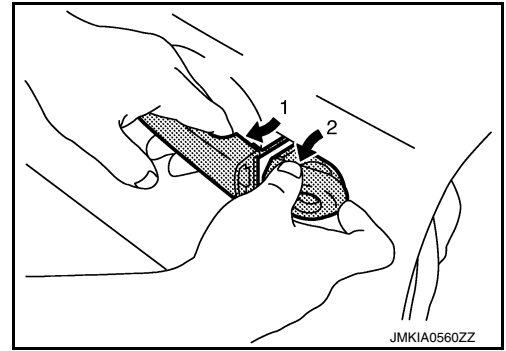
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REAR DOOR LOCK

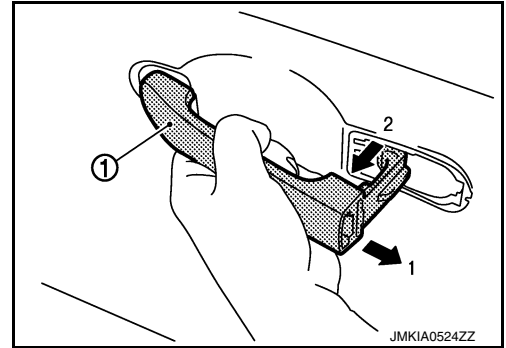
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

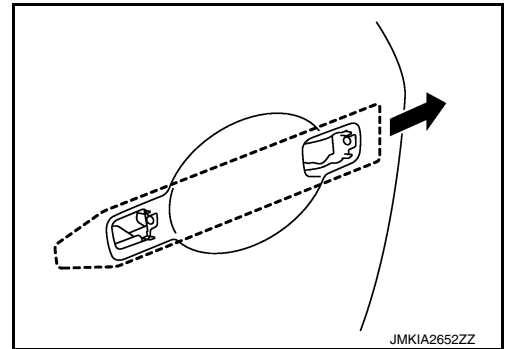
3. While pulling outside handle, remove outside handle escutcheon.



4. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



5. Remove rear door finisher. Refer to [INT-15, "Removal and Installation"](#).
6. Remove sealing screen. Refer to [GW-25, "Removal and Installation"](#).
7. Fully close rear door glass.
8. Remove front gasket and rear gasket.
9. Slide toward rear of vehicle to remove outside handle bracket.



10. Disconnect door lock cable from outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check door lock cable is properly engaged with outside handle bracket.
- After installation, check door open/close, lock/unlock operation.

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

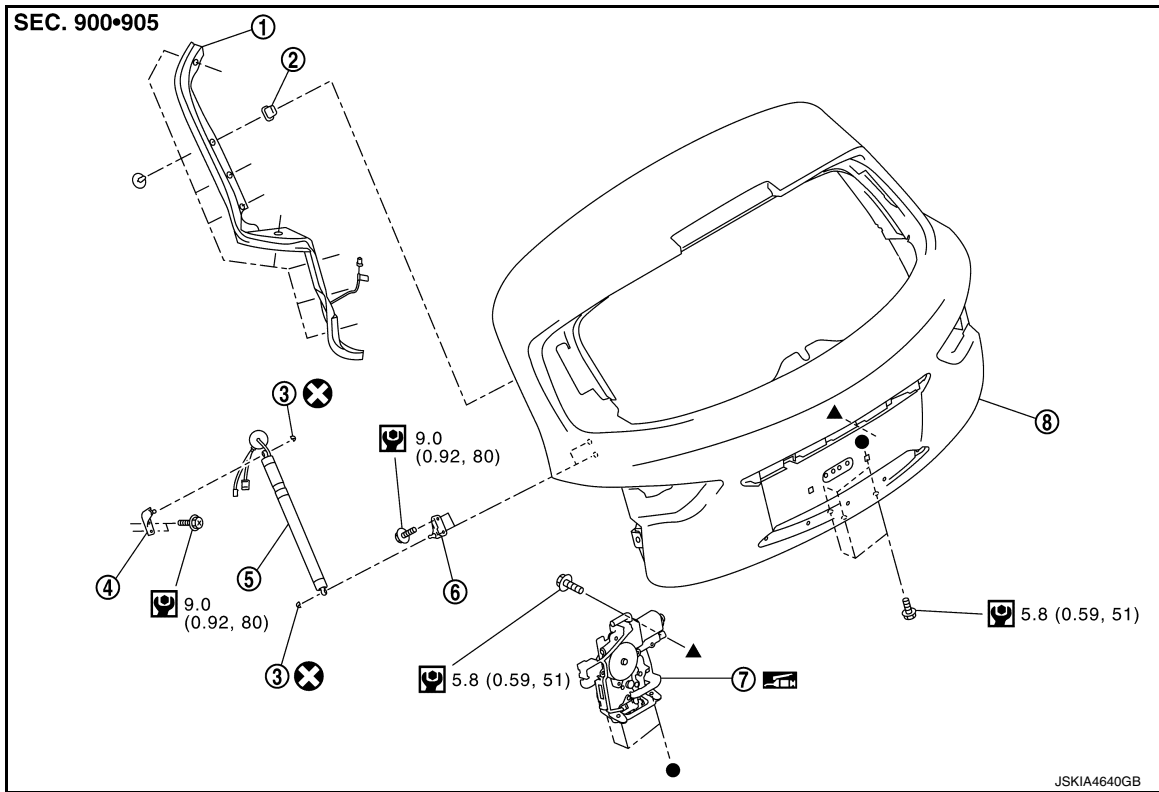
[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR LOCK

BACK DOOR LOCK

BACK DOOR LOCK : Exploded View

INFOID:0000000010577899



- | | | |
|---------------------------------|-----------------------|---------------------------------|
| 1. Touch sensor | 2. Grommet | 3. Rod stopper |
| 4. Back door stay upper bracket | 5. Spindle unit | 6. Back door stay lower bracket |
| 7. Back door lock assembly | 8. Back door assembly | |

: N·m (kg-m, in-lb)

: Always replace after every disassembly

: Body grease

●, ▲ : Indicates that the part is connected at points with same symbol in actual vehicle.

BACK DOOR LOCK : Removal and Installation

INFOID:0000000010577900

REMOVAL

1. Remove back door finisher inner. Refer to [INT-34, "Removal and Installation"](#).
2. Disconnect back door lock assembly connectors.
3. Remove back door lock mounting bolts, and then remove back door lock assembly.

INSTALLATION

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

CAUTION:

After installation, check back door open/close, lock/unlock operation.

SPINDLE UNIT

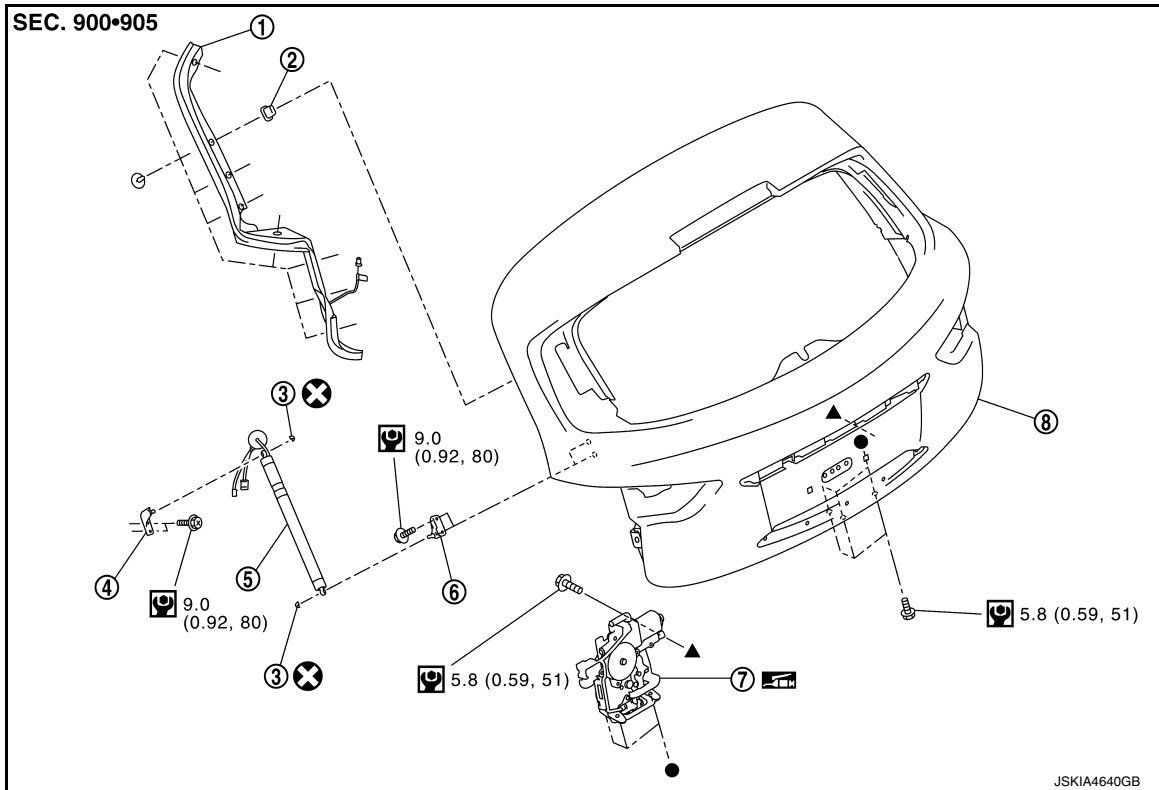
BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

SPINDLE UNIT : Exploded View

INFOID:0000000010577901



- | | | |
|---------------------------------|-----------------------|---------------------------------|
| 1. Touch sensor | 2. Grommet | 3. Rod stopper |
| 4. Back door stay upper bracket | 5. Spindle unit | 6. Back door stay lower bracket |
| 7. Back door lock assembly | 8. Back door assembly | |

: N·m (kg-m, in-lb)

: Always replace after every disassembly

: Body grease

●, ▲ : Indicates that the part is connected at points with same symbol in actual vehicle.

SPINDLE UNIT : Removal and Installation

INFOID:0000000010577902

For removal and installation of spindle unit. Refer to [DLK-334, "SPINDLE UNIT : Removal and Installation"](#).

TOUCH SENSOR

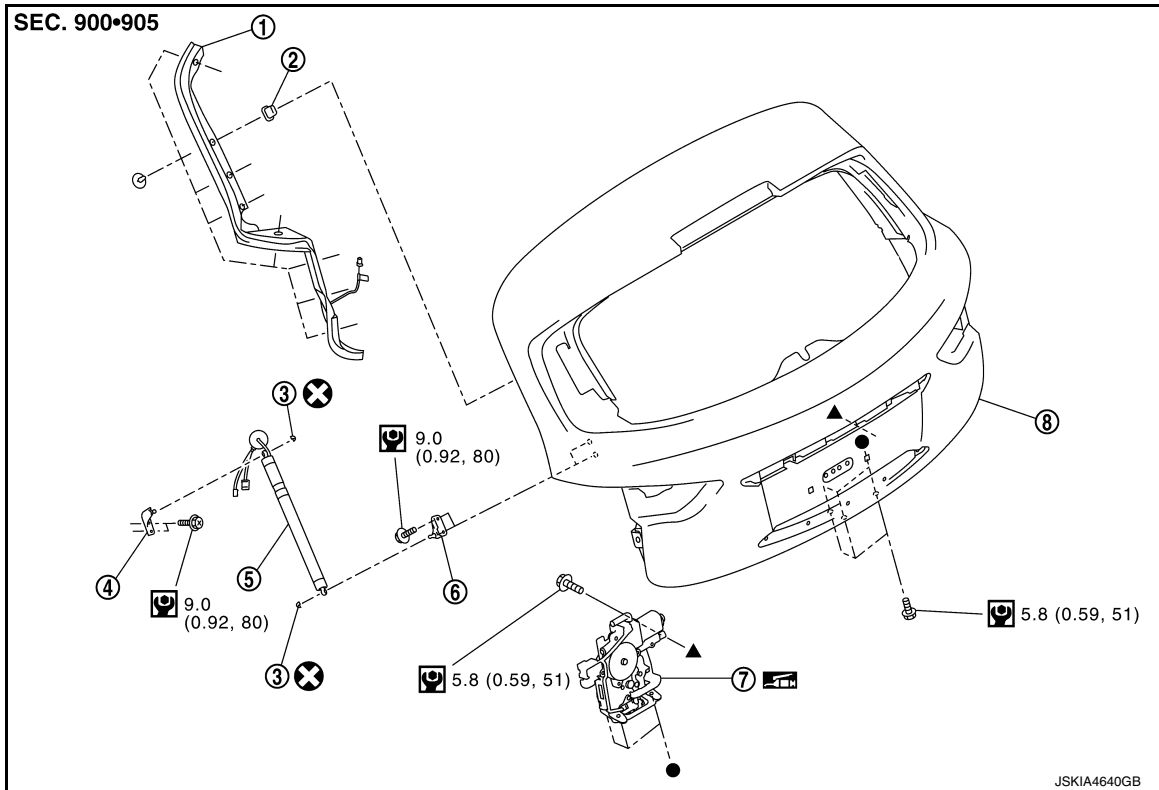
BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

TOUCH SENSOR : Exploded View

INFOID:000000010577903



- | | | |
|---------------------------------|-----------------------|---------------------------------|
| 1. Touch sensor | 2. Grommet | 3. Rod stopper |
| 4. Back door stay upper bracket | 5. Spindle unit | 6. Back door stay lower bracket |
| 7. Back door lock assembly | 8. Back door assembly | |

: N·m (kg-m, in-lb)

: Always replace after every disassembly

: Body grease

●, ▲ : Indicates that the part is connected at points with same symbol in actual vehicle.

TOUCH SENSOR : Removal and Installation

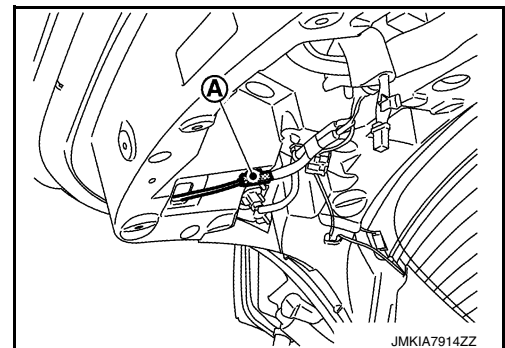
INFOID:000000010577904

CAUTION:

Never bend touch sensor.

REMOVAL

1. Remove back door finisher inner. Refer to [INT-34. "Removal and Installation"](#).
2. Disconnect touch sensor harness connector (A).



3. Remove fixing clips, and then remove touch sensor.

CAUTION:

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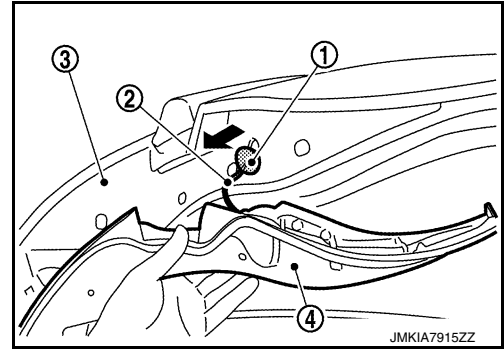
BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

When removing touch sensor, peel off the double-sided tape one strip at a time, and carefully remove it.

4. Remove grommet (1).
5. Pull harness (2) of touch sensor out of back door (3) and remove touch sensor (4).



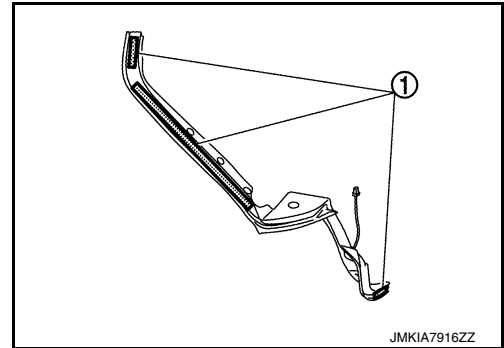
INSTALLATION

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

CAUTION:

- Before installation, remove double sided-tape that remains on touch sensor and back door.
- Apply primer for plastic to touch sensor and back door, on the area to be covered by double-sided tape, and then install touch sensor using double sided-tape (1).

Double-sided tape t: 0.6 mm (0.024 in)



- Install touch sensor and back door without clearance.
- Check back door open/close operation after installation.

EMERGENCY LEVER

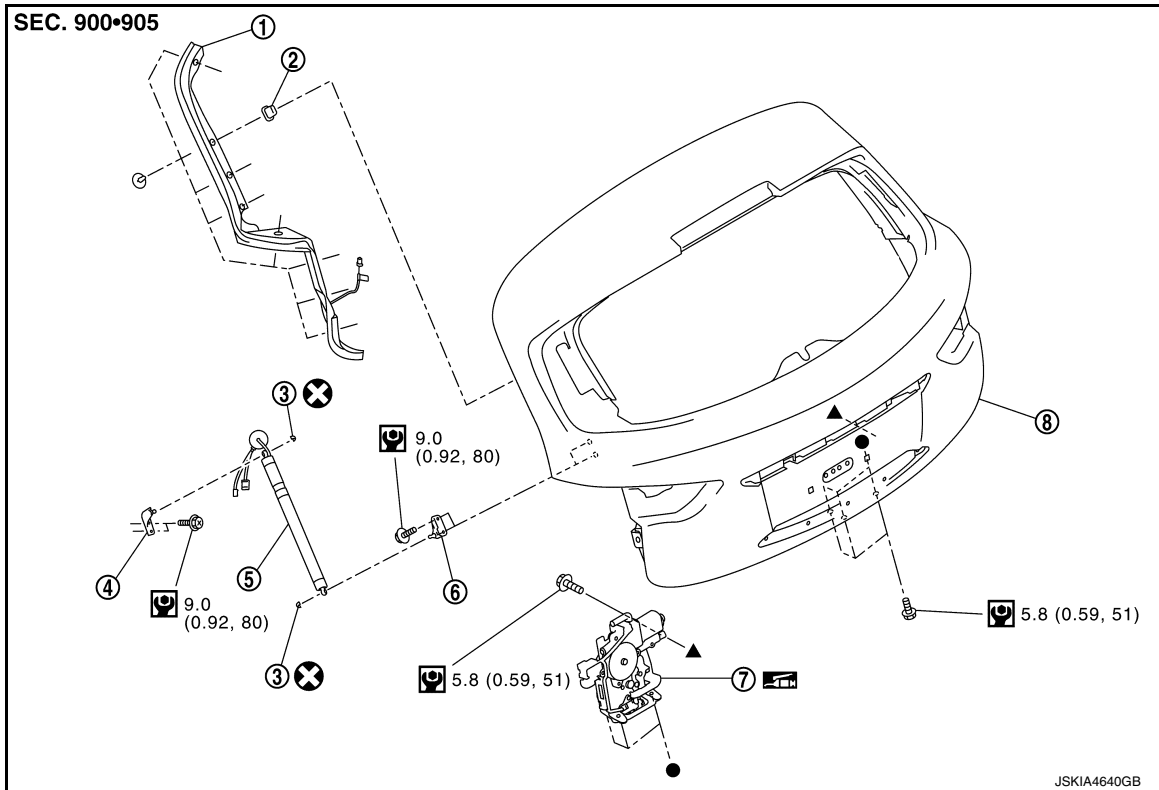
BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

EMERGENCY LEVER : Exploded View

INFOID:0000000010577905



- | | | |
|---------------------------------|-----------------------|---------------------------------|
| 1. Touch sensor | 2. Grommet | 3. Rod stopper |
| 4. Back door stay upper bracket | 5. Spindle unit | 6. Back door stay lower bracket |
| 7. Back door lock assembly | 8. Back door assembly | |

: N·m (kg-m, in-lb)

: Always replace after every disassembly

: Body grease

●, ▲ : Indicates that the part is connected at points with same symbol in actual vehicle.

EMERGENCY LEVER : Unlock procedures

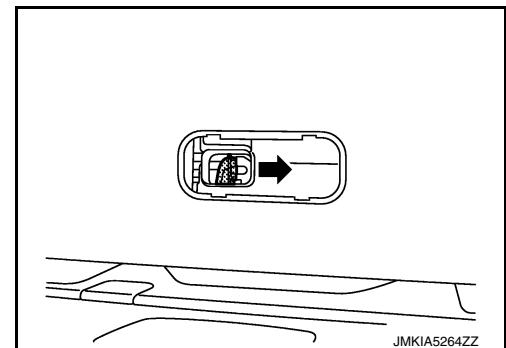
INFOID:0000000010577906

UNLOCK PROCEDURES

NOTE:

If back door lock cannot be unlocked due to a malfunction or battery discharge, follow the procedures to unlock back door.

1. Remove the back door finisher lid. Refer to [INT-34, "Exploded View"](#).
2. From inside the vehicle, rotate emergency lever toward lower direction and unlock.



FUEL FILLER LID OPENER

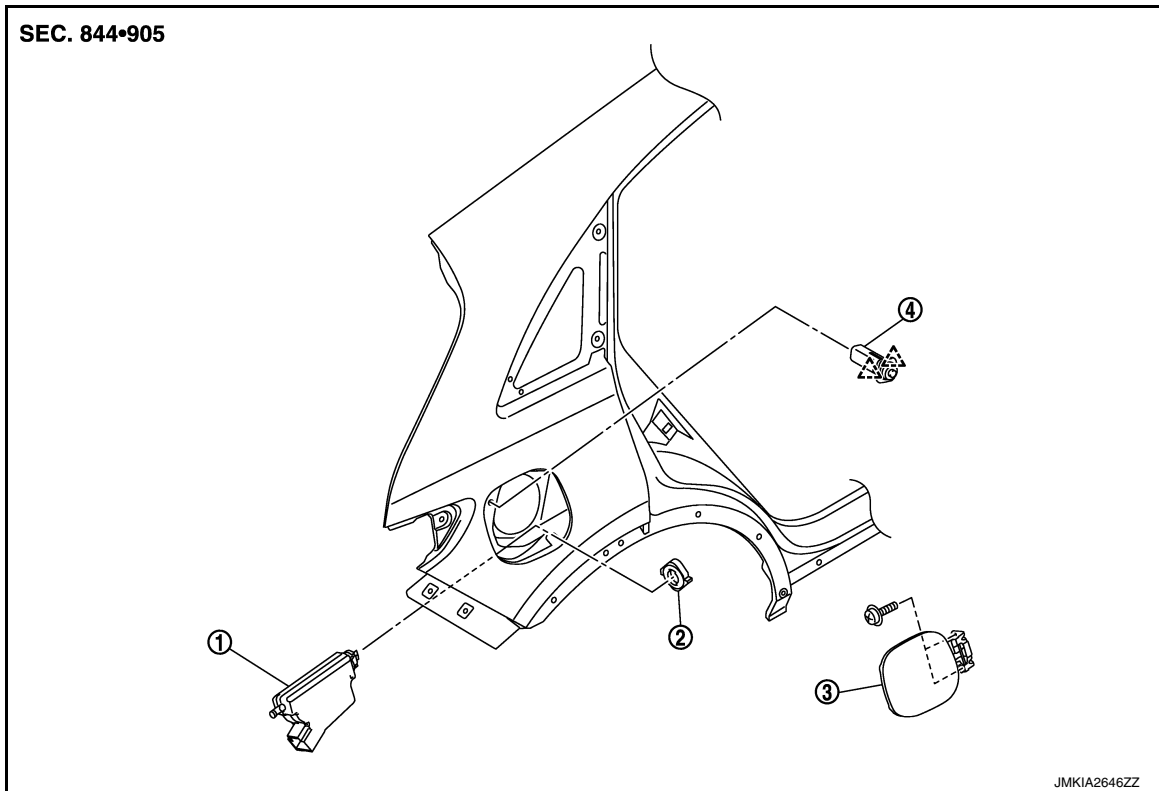
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FUEL FILLER LID OPENER

Exploded View

INFOID:0000000010577907

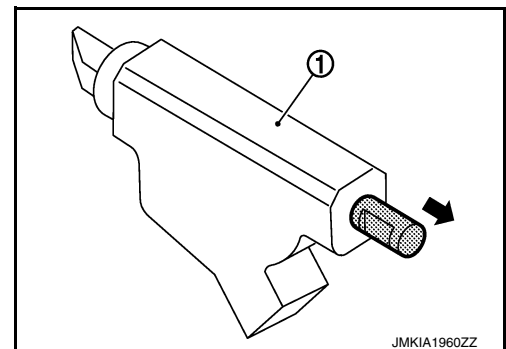


Removal and Installation

INFOID:0000000010577908

NOTE:

When fuel filler lid lock actuator (1) is a defective operation, pull the rod to open fuel filler lid.



REMOVAL

1. Remove luggage side finisher lower RH. Refer to [INT-31, "Removal and Installation"](#).
2. Pull and remove lock & cable assembly forward, while pushing the pawls.
3. Rotate lock nut counterclockwise, and then remove lock nut.
4. Push fuel filler lid lock actuator behind the vehicle, while pushing the pawl.
5. Disconnect harness connector and remove fuel filler lid lock actuator.
6. Remove mounting screws, and then remove fuel filler lid.

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, apply touch-up paint (the body color) onto the head of fuel filler lid mounting screws.

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DOOR SWITCH

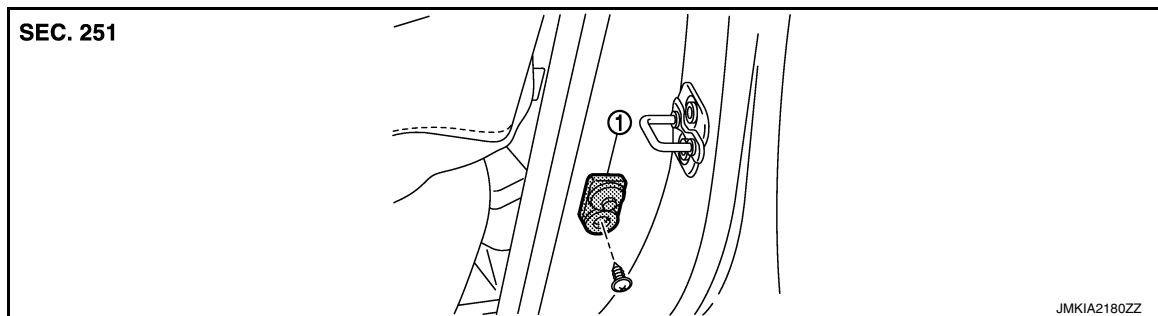
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR SWITCH

Exploded View

INFOID:0000000010577909



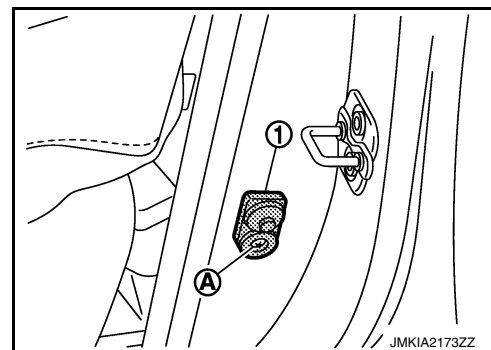
1. Door switch

Removal and Installation

INFOID:0000000010577910

REMOVAL

1. Remove the door switch mounting screw (A), and then remove door switch (1).



INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

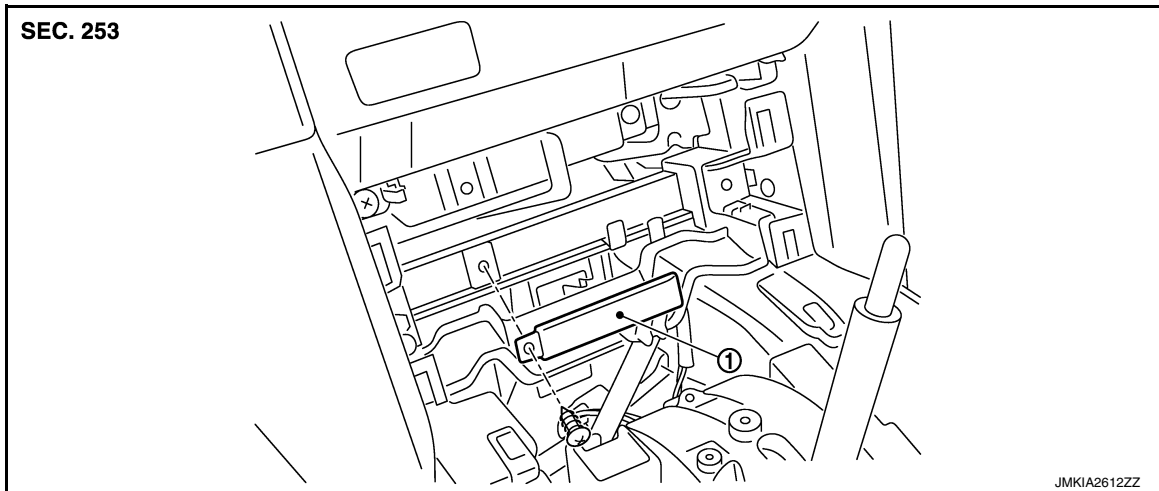
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Exploded View

INFOID:0000000010577911



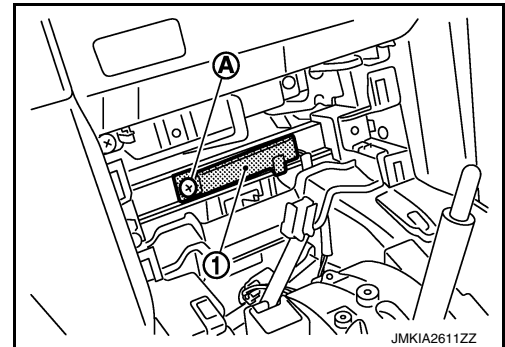
1. Inside key antenna (instrument center)

INSTRUMENT CENTER : Removal and Installation

INFOID:0000000010577912

REMOVAL

1. Remove the console finisher assembly. Refer to [JP-23, "Removal and Installation"](#).
2. Remove the key antenna mounting screw (instrument center) (A), and then remove inside key antenna (instrument center) (1).



INSTALLATION

Install in the reverse order of removal.

LUGGAGE ROOM

LUGGAGE ROOM : Exploded View

INFOID:0000000010577913

Refer to [INT-30, "Exploded View"](#).

LUGGAGE ROOM : Removal and Installation

INFOID:0000000010577914

REMOVAL

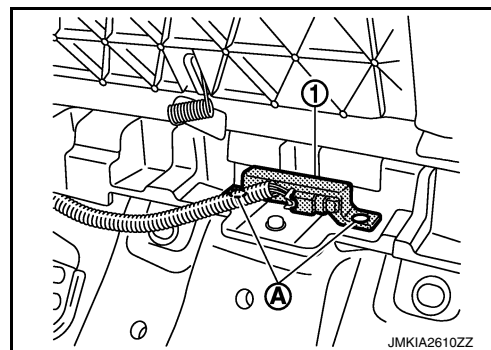
1. Remove the luggage floor finisher front. Refer to [INT-31, "Removal and Installation"](#).

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:0000000010577915

Refer to [DLK-342, "OUTSIDE HANDLE : Exploded View"](#).

DRIVER SIDE : Removal and Installation

INFOID:0000000010577916

REMOVAL

Remove the front outside handle LH. Refer to [DLK-342, "OUTSIDE HANDLE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:0000000010577917

Refer to [DLK-342, "OUTSIDE HANDLE : Exploded View"](#).

PASSENGER SIDE : Removal and Installation

INFOID:0000000010577918

REMOVAL

Remove the front outside handle RH. Refer to [DLK-342, "OUTSIDE HANDLE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

BACK DOOR

BACK DOOR : Exploded View

INFOID:0000000010577919

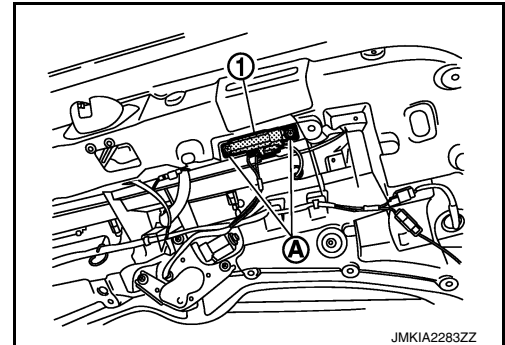
Refer to [INT-34, "Exploded View"](#).

BACK DOOR : Removal and Installation

INFOID:0000000010577920

REMOVAL

1. Remove the back door finisher inner. Refer to [EXT-50, "Removal and Installation"](#).
2. Remove the outside key antenna (back door) mounting bolts (A), and then remove outside key antenna (back door) (1).



INSTALLATION

Install in the reverse order of removal.

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DLK

INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY WARNING BUZZER

Exploded View

INFOID:0000000010577921

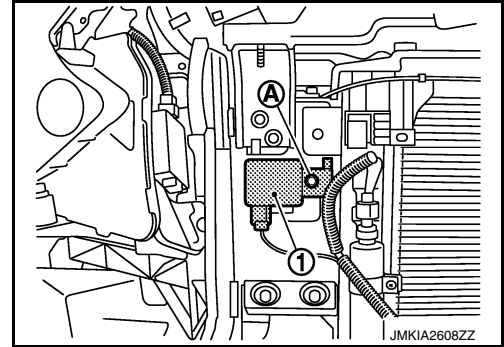
Refer to [EXT-12. "Exploded View"](#).

Removal and Installation

INFOID:0000000010577922

REMOVAL

1. Remove the fender protector. Refer to [EXT-25. "FENDER PROTECTOR : Removal and Installation"](#).
2. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



INSTALLATION

Install in the reverse order of removal.

KEY SLOT

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

KEY SLOT

Exploded View

INFOID:0000000010577923

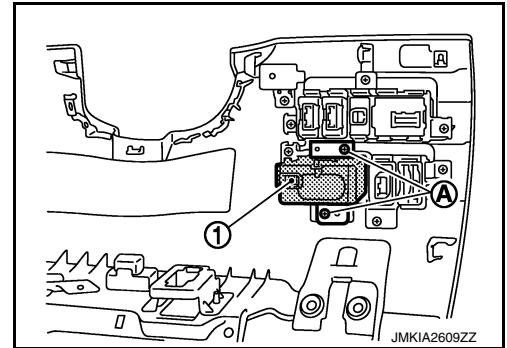
Refer to [IP-12, "Exploded View"](#).

Removal and Installation

INFOID:0000000010577924

REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-13, "Removal and Installation"](#).
2. Disconnect the key slot connector.
3. Remove the mounting screw (A), and then remove the key slot (1).



INSTALLATION

Install in the reverse order of removal.

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DLK

REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Exploded View

INFOID:0000000010577925

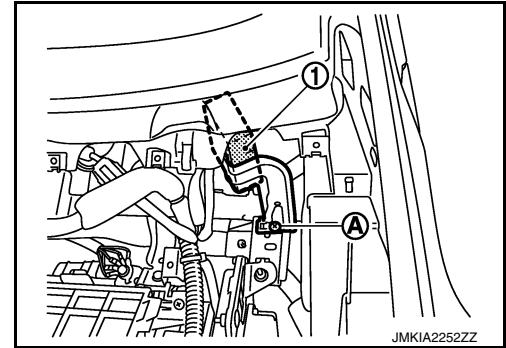
Refer to [IP-12, "Exploded View"](#).

Removal and Installation

INFOID:0000000010577926

REMOVAL

1. Remove the instrument lower panel RH. Refer to [IP-13, "Removal and Installation"](#).
2. Remove the remote keyless entry receiver mounting screw (A), and then remove remote keyless entry receiver (1).



INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY BATTERY

Removal and Installation

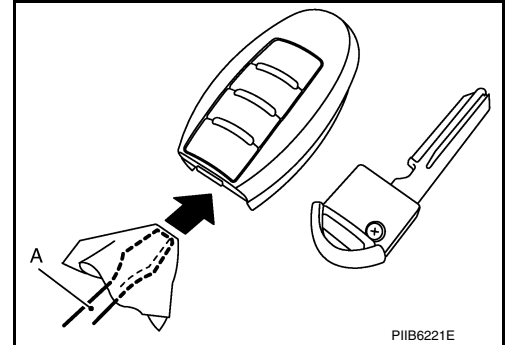
INFOID:000000010577927

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

2. Insert a remover tool (A) wrapped in a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Never touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



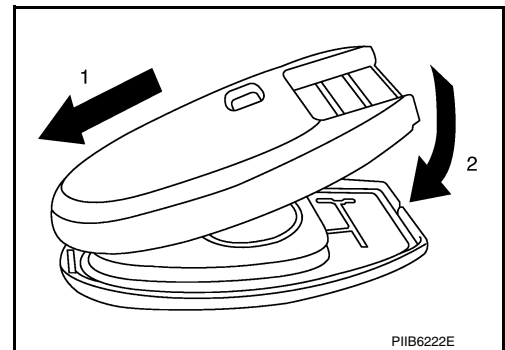
3. Replace the battery with new one.

Battery replacement : Coin-type lithium battery (CR2032)

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

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign matter 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

Removal and Installation

INFOID:0000000010577928

REMOVAL

1. Remove the luggage floor spacer RH. Refer to [INT-31, "Removal and Installation"](#).
2. Remove the automatic back door control unit bracket 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, "Work Procedure"](#).

AUTOMATIC BACK DOOR WARNING BUZZER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING BUZZER

Removal and Installation

INFOID:0000000010577929

REMOVAL

1. Remove the rear bumper. Refer to [EXT-17. "Removal and Installation"](#).
2. Remove the automatic back door warning buzzer mounting bolt, and then remove the automatic back door warning buzzer.

INSTALLATION

Install in the reverse order of removal.

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AUTOMATIC BACK DOOR MAIN SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MAIN SWITCH

Removal and Installation

INFOID:0000000010577930

REMOVAL

1. Remove the instrument driver lower panel LH. Refer to [IP-13. "Removal and Installation"](#).
2. Widen the pawl, and remove the automatic back door main switch from switch bracket.

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

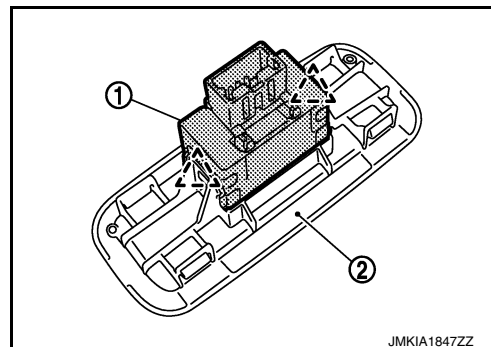
Removal and Installation

INFOID:000000010577931

REMOVAL

1. Remove the automatic back door close switch finisher.
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.

DLK

AUTOMATIC BACK DOOR SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SWITCH

Removal and Installation

INFOID:0000000010577932

REMOVAL

1. Remove the instrument driver lower panel LH. Refer to [IP-13. "Removal and Installation"](#).
2. Widen the pawl, and remove the automatic back door switch from automatic back door switch finisher.

INSTALLATION

Install in the reverse order of removal.