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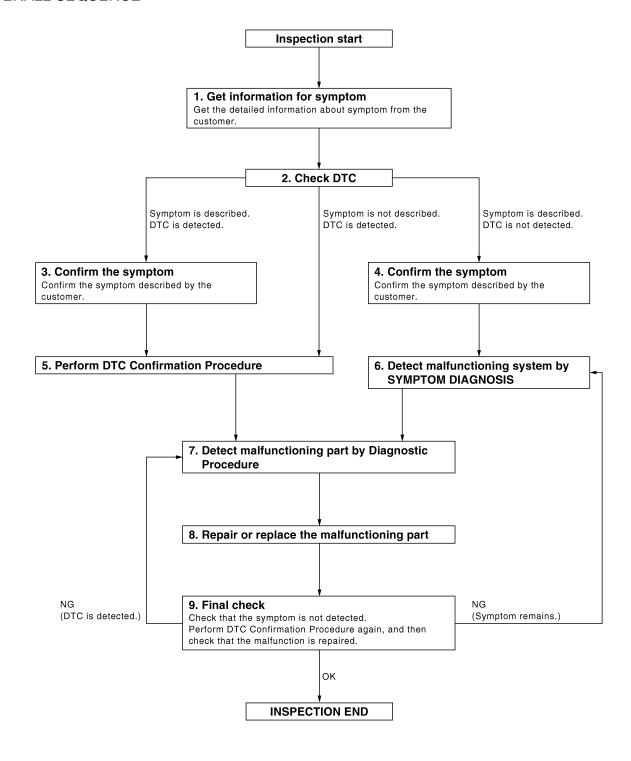
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.check dtc

- 1. Check DTC for BCM.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT-III.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3.

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

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

f 4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to DLK-183, "DTC Inspection Priority Chart" and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 7.

NO >> Refer to GI-36, "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.

>> GO TO 7.

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check voltage of related BCM terminals using CONSULT-III.

8.repair or replace the malfunctioning part

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

>> GO TO 9.

9. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction has been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Does the symptom reappear?

YES (DTC is detected)>>GO TO 7.

YES (Symptom remains)>>GO TO 6.

NO >> INSPECTION END

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

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ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000005239480

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

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ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

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

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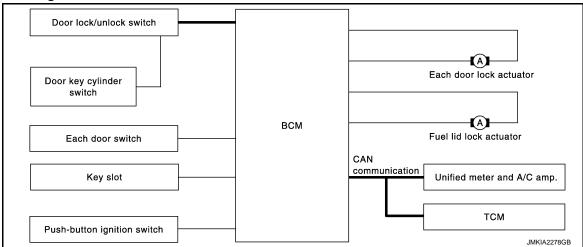
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SYSTEM DESCRIPTION

POWER DOOR LOCK SYSTEM

System Diagram

INFOID:0000000005239482



System Description

INFOID:0000000005239483

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 SUP-PORT". Refer to <u>DLK-53</u>, "DOOR LOCK: <u>CONSULT-III Function (BCM - DOOR LOCK)"</u>.

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-III

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

POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

Without CONSULT- III

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

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

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 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.

(P) With CONSULT- III

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

Without CONSULT- Ⅲ

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

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

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink

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

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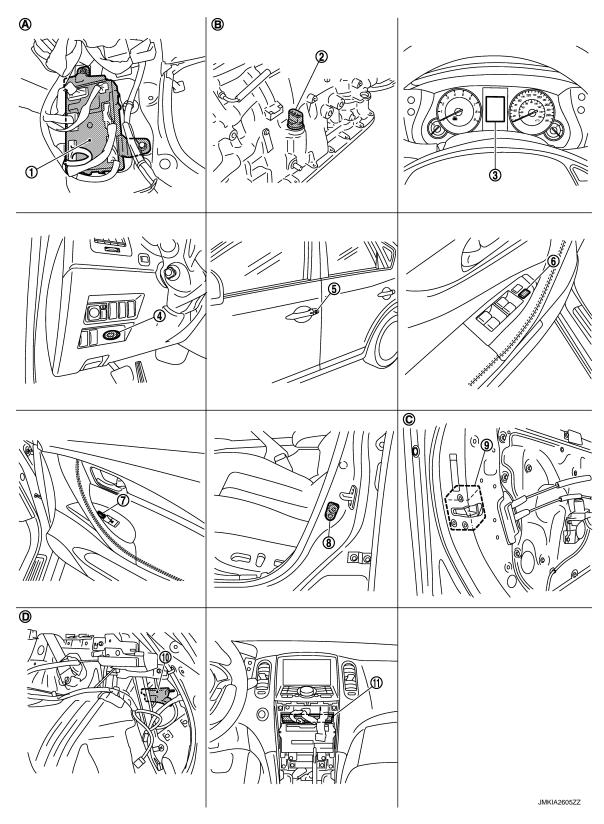
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Component Parts Location

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

- 2. A/T assembly connector F51
- Door key cylinder switch [Front door lock assembly (driver side) D15]
- 3. Combination meter M53
- Door lock and unlock switch (Power window main switch D8, D9)

POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

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]	Α	4
10.	Fuel lid lock actuator B242	11.	Unified meter and A/C amp. M66, M67			Е	2
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					C)

Component Description

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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.

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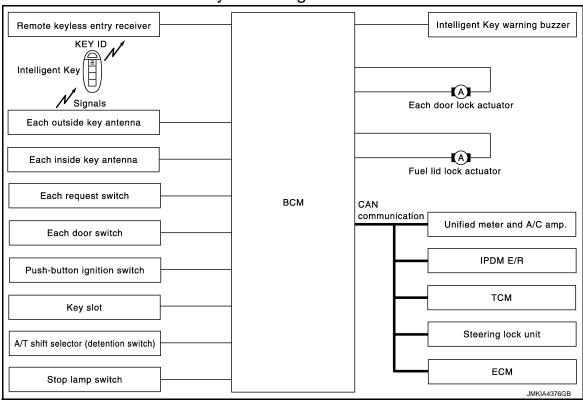
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Revision: 2009 August DLK-15 2010 FX35/FX50

INTELLIGENT KEY SYSTEM INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM: System Diagram

INFOID:0000000005239486



INTELLIGENT KEY SYSTEM: System Description

INFOID:0000000005239487

 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:

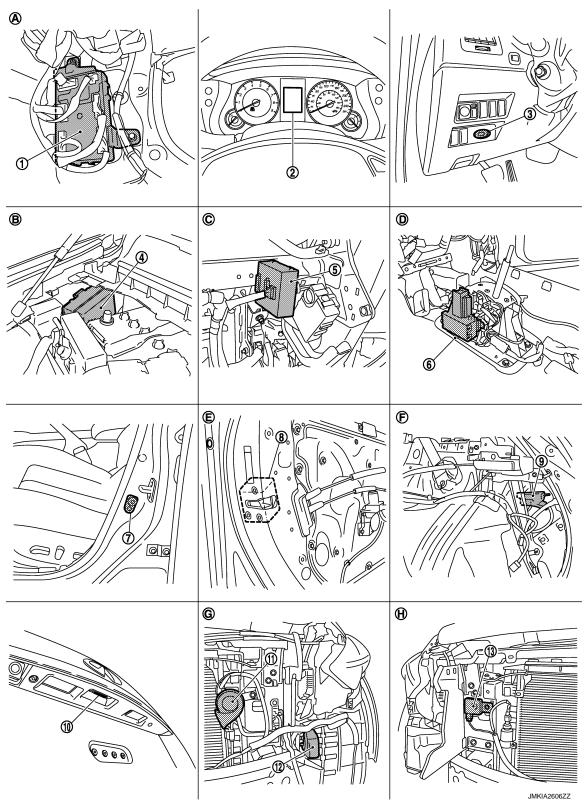
The driver should always carry the Intelligent Key

- The settings for each function can be changed using CONSULT-III.
- 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-III.

Function	Description	Refer
Door lock function	Lock/unlock can be performed by pressing the request switch.	DLK-19
Remote keyless entry function	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-28
Back door open function	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	DLK-24
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-33
Key reminder function	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-36
Warning function	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver.	DLK-39
Engine start function	The engine can turns on while carrying the Intelligent Key.	SEC-9

INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:0000000005239488



- BCM M118, M119, M120, M121, M122, M123
- IPDM E/R E5, E6
- 2. Combination meter M53
- Key slot M22
- 5. Remote keyless entry receiver M104 6.
- A/T shift selector (detention switch) M137

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DLK-17 Revision: 2009 August 2010 FX35/FX50

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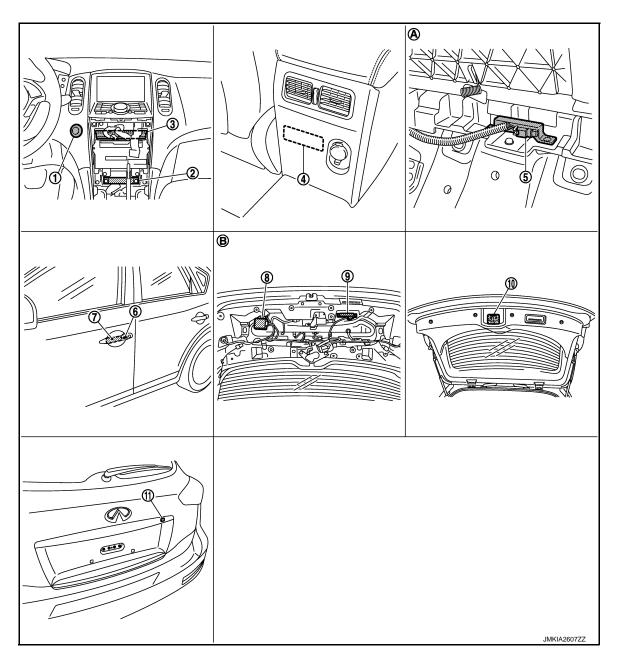
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< SYSTEM DESCRIPTION >

- 7. Front door switch (driver side) B16
- 10. Back door opener switch D114
- 13. Intelligent Key warning buzzer E80
- A. Dash side lower (passenger side)
- View with center console assembly removed
- G. View with front bumper removed

- 8. Front door lock assembly (driver side) D15
- 11. Horn (low) E69, E70
- B. Engine room dash panel (RH)
- E. View with front door finisher (LH) re- F. moved
- H. View with front bumper removed

- 9. Fuel lid lock actuator B242
- 12. Horn (high) E61, E62
- Behind the instrument lower panel (driver side)
- View with luggage side finisher lower (RH) removed



- Push-button ignition switch (push switch) M50
- 4. Inside key antenna (console) M146
- Inside key antenna (instrument cen- 3. ter) M131
- Inside key antenna (luggage room) B228
 - Back door control unit D123
- Unified meter and A/C amp. M66, M67
- Front outside handle LH (request switch)
 D13

- 7. Front outside handle LH (outside key 8. antenna) D14
- unit D123 9. Outside key antenna (back door)
 D118

< SYSTEM DESCRIPTION >

- 10. Back door lock assembly D122
- Back door opener request switch D116
- View with luggage floor finisher front B. removed
- View with back door finisher inner re-

INTELLIGENT KEY SYSTEM: Component Description

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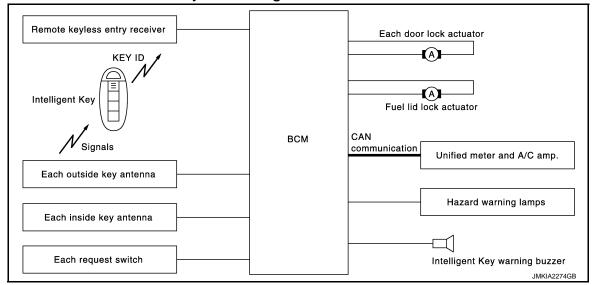
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Item	Function
BCM	Controls the Intelligent Key system.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal 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.
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

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DOOR LOCK FUNCTION: System Description

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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.

DLK-19 Revision: 2009 August 2010 FX35/FX50

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< SYSTEM DESCRIPTION >

• 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

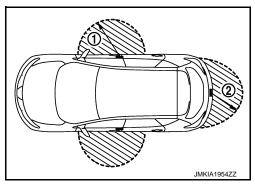
If the following conditions are satisfied, door lock/unlock operation is performed if the request switch is operated.

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

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 SEC-25, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

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

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

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

< SYSTEM DESCRIPTION >

Auto door lock mode can be changed in "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>SEC-25.</u> "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

INTERIOR ROOM LAMP CONTROL

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

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

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

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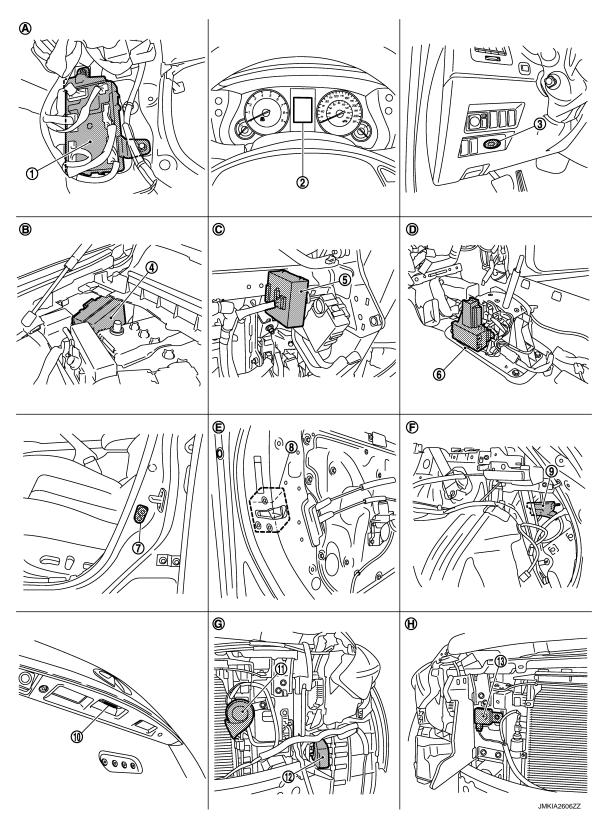
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DOOR LOCK FUNCTION: Component Parts Location

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- 1. BCM M118, M119, M120, M121, M122, M123
- 4. IPDM E/R E5, E6
- 2. Combination meter M53
- 3. Key slot M22
- 5. Remote keyless entry receiver M104 6.
- A/T shift selector (detention switch) M137

< SYSTEM DESCRIPTION >

- Front door switch (driver side) B16 10. Back door opener switch D114 Intelligent Key warning buzzer E80
 - 11. Horn (low) E69, E70

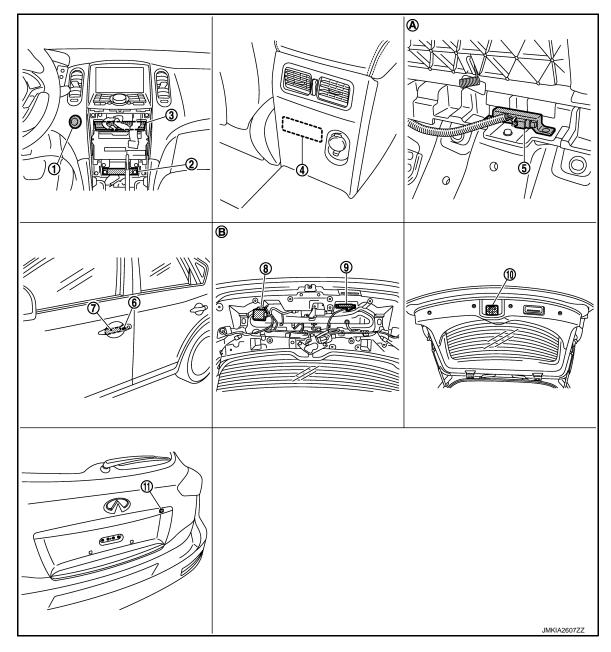
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side) D15

- Front door lock assembly (driver Fuel lid lock actuator B242
 - 12. Horn (high) E61, E62

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



- Push-button ignition switch (push switch) M50
- Inside key antenna (console) M146

Front outside handle LH (outside key 8.

- Inside key antenna (instrument cen- 3. ter) M131
- Inside key antenna (luggage room) B228
 - Back door control unit D123
- Unified meter and A/C amp. M66, M67
- Front outside handle LH (request switch)
- Outside key antenna (back door) D118

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Revision: 2009 August

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< SYSTEM DESCRIPTION >

- 10. Back door lock assembly D122
- 11. Back door opener request switch
- View with luggage floor finisher front B. removed
- View with back door finisher inner removed

DOOR LOCK FUNCTION: Component Description

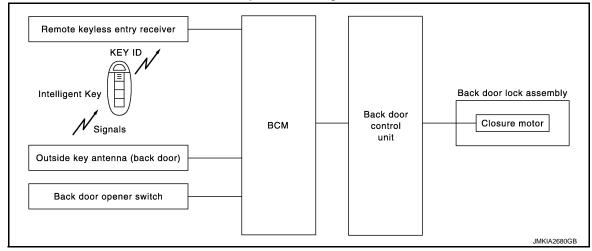
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Item	Function
BCM	Controls the door lock function.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from 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.
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

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BACK DOOR OPEN FUNCTION: System Description

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

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

BACK DOOR OPEN

 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, checks that the Intelligent Key is near the back door.

< SYSTEM DESCRIPTION >

- 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.
- When the back door opener switch operation signal is transmitted from BCM, closure motor is operated in back door control unit.

The operation of the back door open is the same as the back door opener system. Refer to <u>DLK-48, "OPEN FUNCTION</u>: System <u>Description"</u>

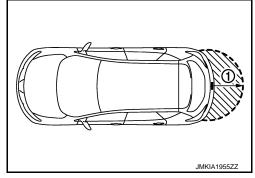
OPERATION CONDITION

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

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

OUTSIDE KEY ANTENNA DETECTION AREA

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



HAZARD AND BUZZER REMINDER FUNCTION

When the back door is opened using the back door opener switch, the hazard warning lamps and horn blink or sound as a reminder.

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

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

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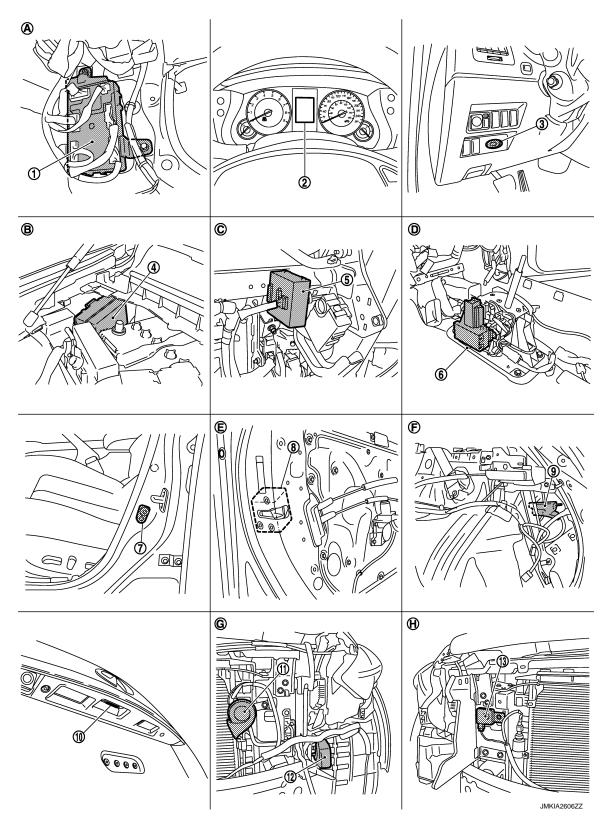
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BACK DOOR OPEN FUNCTION: Component Parts Location

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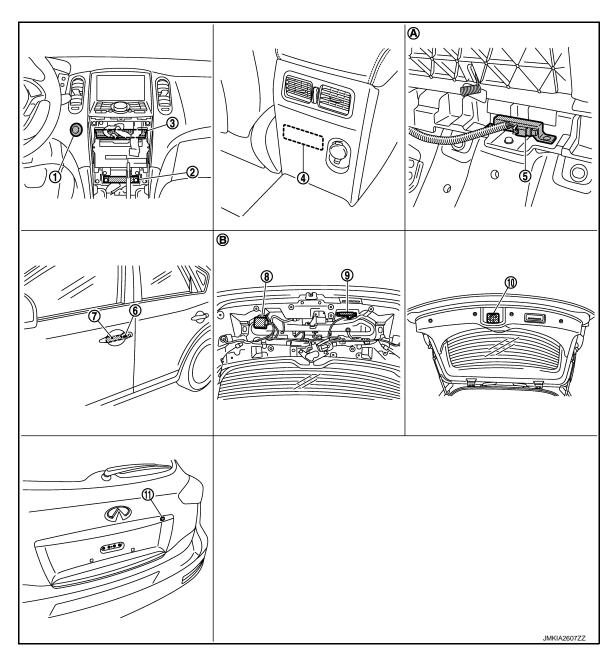
- 1. BCM M118, M119, M120, M121, M122, M123
- 4. IPDM E/R E5, E6
- 2. Combination meter M53
- 3. Key slot M22
- 5. Remote keyless entry receiver M104 6.
- A/T shift selector (detention switch) M137

< SYSTEM DESCRIPTION >

- Front door switch (driver side) B16 10. Back door opener switch D114 Dash side lower (passenger side)
 - Intelligent Key warning buzzer E80
- D. View with center console assembly removed
- G. View with front bumper removed

- 8. Front door lock assembly (driver side) D15
- 11. Horn (low) E69, E70
- B. Engine room dash panel (RH)
- E. View with front door finisher (LH) re- F.
- H. View with front bumper removed

- Fuel lid lock actuator B242
- 12. Horn (high) E61, E62
- Behind the instrument lower panel (driver side)
- View with luggage side finisher lower (RH) removed



Push-button ignition switch (push switch) M50

antenna) D14

Inside key antenna (console) M146

Front outside handle LH (outside key 8.

- Inside key antenna (instrument cen- 3. ter) M131
- Inside key antenna (luggage room) B228
 - Back door control unit D123
- Unified meter and A/C amp. M66, M67
- Front outside handle LH (request switch)
- Outside key antenna (back door) D118

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DLK-27 Revision: 2009 August 2010 FX35/FX50

< SYSTEM DESCRIPTION >

- 10. Back door lock assembly D122
- Back door opener request switch D116
- A. View with luggage floor finisher front B. removed
- View with back door finisher inner re-

BACK DOOR OPEN FUNCTION : Component Description

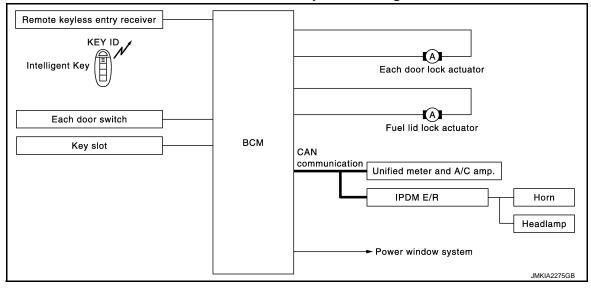
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Item	Function
BCM	Controls the back door open function and room lamp function.
Back door opener switch	Input press/degrees signal to BCM.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close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

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION: System Diagram

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REMOTE KEYLESS ENTRY FUNCTION: System Description

INFOID:0000000005239499

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

< SYSTEM DESCRIPTION >

- Panic alarm
- Power window down
- Interior lamp

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 transmited 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

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 n	node	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).

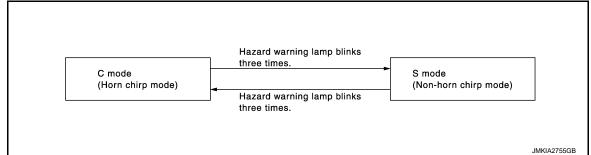
How to Change Hazard and Horn Reminder Mode

(III) With CONSULT-III

Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

₩ Without CONSULT-III

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



AUTO DOOR LOCK FUNCTION

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Revision: 2009 August DLK-29 2010 FX35/FX50

< SYSTEM DESCRIPTION >

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-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

PANIC ALARM FUNCTION

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

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

The headlamp blinks and the horn sounds intermittently.

The alarm automatically turns off:

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

Panic alarm function mode can be changed by "PANIC ALARM SET" mode in "WORK SUPPORT". Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

KEYLESS POWER WINDOW DOWN (OPEN) FUNCTION

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

INTERIOR ROOM LAMP CONTROL

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

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

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

REMOTE KEYLESS ENTRY FUNCTION : Component Parts Location

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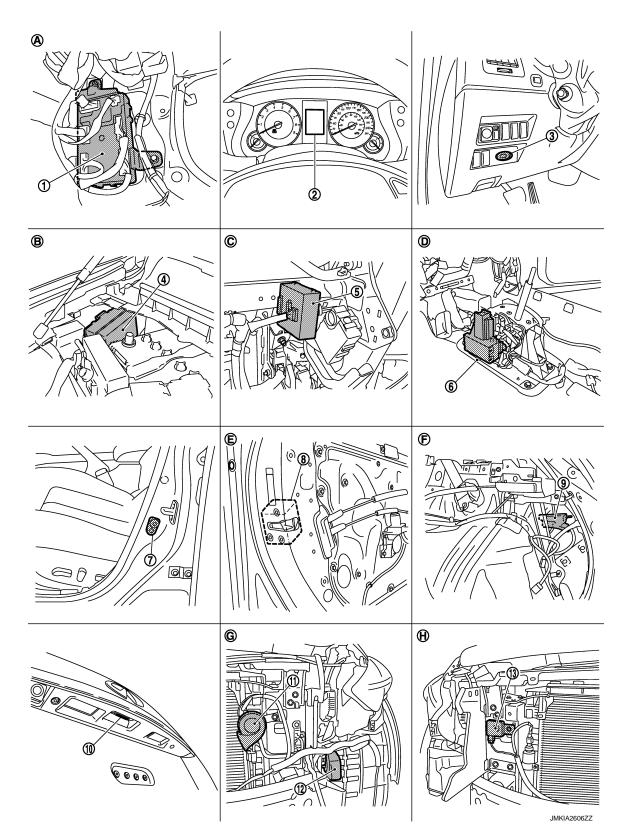
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- 1. BCM M118, M119, M120, M121, M122, M123
- 4. IPDM E/R E5, E6
- 2. Combination meter M53
- 3. Key slot M22
- 5. Remote keyless entry receiver M104 6.
- A/T shift selector (detention switch) M137

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Revision: 2009 August **DLK-31** 2010 FX35/FX50

< SYSTEM DESCRIPTION >

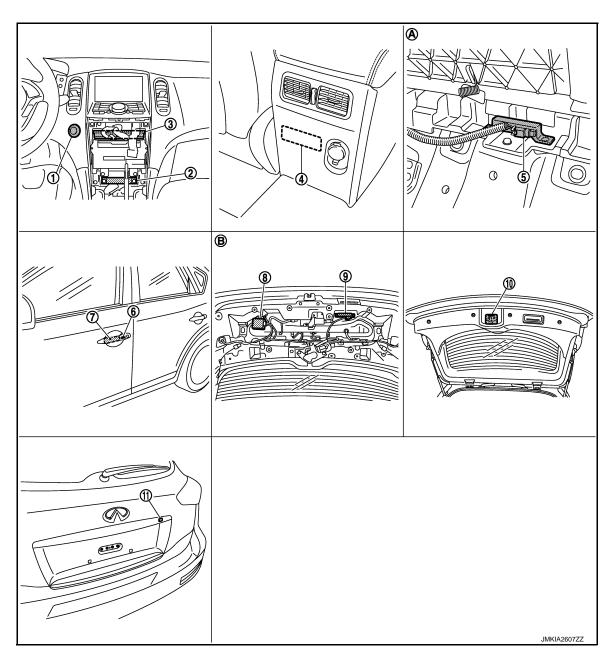
- Front door switch (driver side) B16
- 10. Back door opener switch D114
- 13. Intelligent Key warning buzzer E80
- Dash side lower (passenger side)
- View with center console assembly removed
- G. View with front bumper removed

- 8. Front door lock assembly (driver side) D15
- 11. Horn (low) E69, E70

B.

- Engine room dash panel (RH) View with front door finisher (LH) re- F.
- H. View with front bumper removed

- Fuel lid lock actuator B242
- 12. Horn (high) E61, E62
- Behind the instrument lower panel (driver side)
- View with luggage side finisher lower (RH) removed



- Push-button ignition switch (push switch) M50
- Inside key antenna (console) M146
- Inside key antenna (instrument cen- 3. ter) M131
- Inside key antenna (luggage room) B228
 - Back door control unit D123
- Unified meter and A/C amp. M66, M67
- Front outside handle LH (request switch)

- Front outside handle LH (outside key 8. antenna) D14
- Outside key antenna (back door) D118

< SYSTEM DESCRIPTION >

- 10. Back door lock assembly D122
- 11. Back door opener request switch D116
- A. View with luggage floor finisher front B. removed
- View with back door finisher inner removed

REMOTE KEYLESS ENTRY FUNCTION: Component Description

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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

WELCOME LIGHT FUNCTION: System Description

INFOID:0000000005239502

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-6, "System Description".

SYSTEM SETTING PROCEDURE

Setting of welcome light function can be changed by the following procedure. (For system setting by CON-SULT-III: refer to DLK-54, "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.
- 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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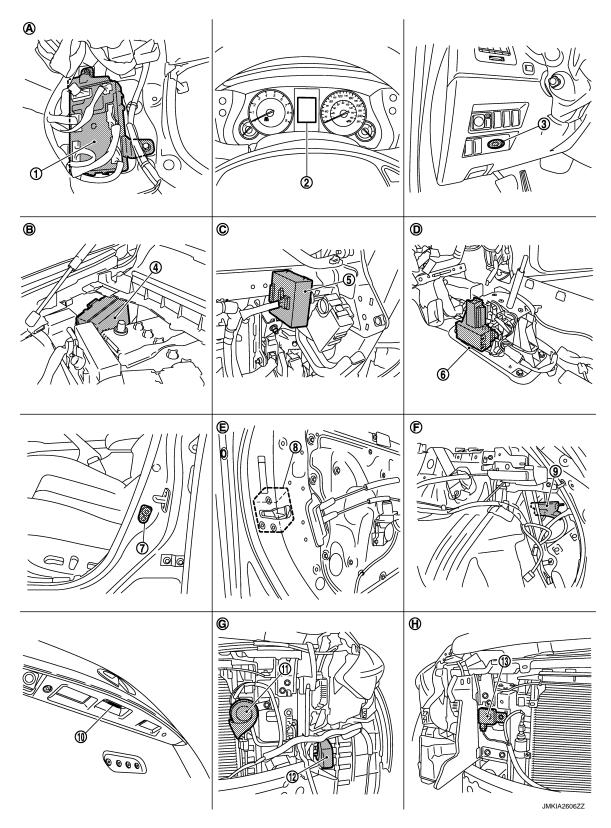
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WELCOME LIGHT FUNCTION : Component Parts Location

INFOID:0000000005239503



- 1. BCM M118, M119, M120, M121, M122, M123
- 4. IPDM E/R E5, E6
- 2. Combination meter M53
- 3. Key slot M22
- 5. Remote keyless entry receiver M104 6.
- A/T shift selector (detention switch) M137

Front door lock assembly (driver

< SYSTEM DESCRIPTION >

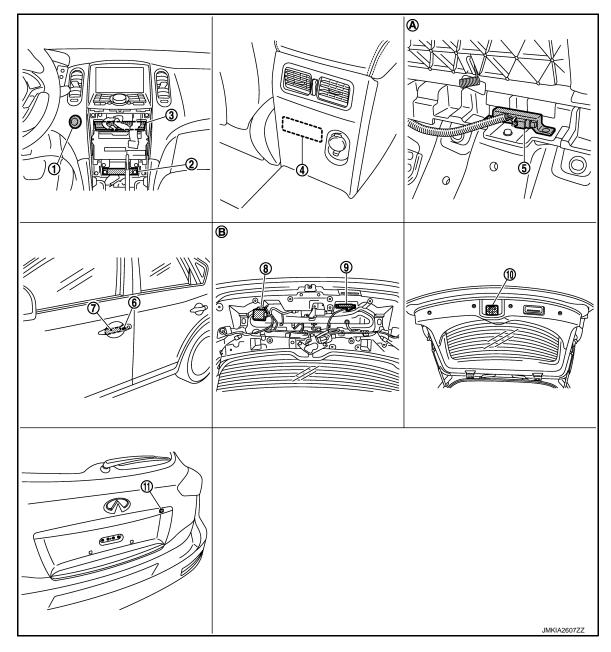
- Front door switch (driver side) B16 10. Back door opener switch D114 Intelligent Key warning buzzer E80 Dash side lower (passenger side)
- 11. Horn (low) E69, E70

side) D15

8.

- Fuel lid lock actuator B242
- 12. Horn (high) E61, E62

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



- Push-button ignition switch (push switch) M50
- Inside key antenna (console) M146

Front outside handle LH (outside key 8.

- Inside key antenna (instrument cen- 3. ter) M131
- Inside key antenna (luggage room) B228
 - Back door control unit D123
- Unified meter and A/C amp. M66, M67
- Front outside handle LH (request switch)
- Outside key antenna (back door) D118

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antenna) D14

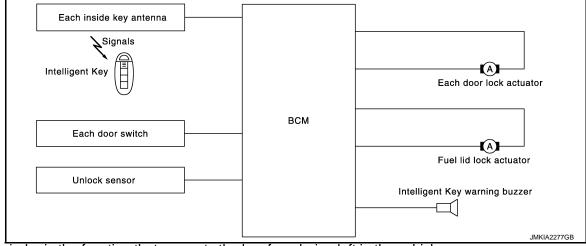
< SYSTEM DESCRIPTION >

- 10. Back door lock assembly D122
- 11. Back door opener request switch D116
- View with luggage floor finisher front B. removed
- View with back door finisher inner removed

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION: System Description

INFOID:0000000005239504



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

KEY REMINDER FUNCTION : Component Parts Location

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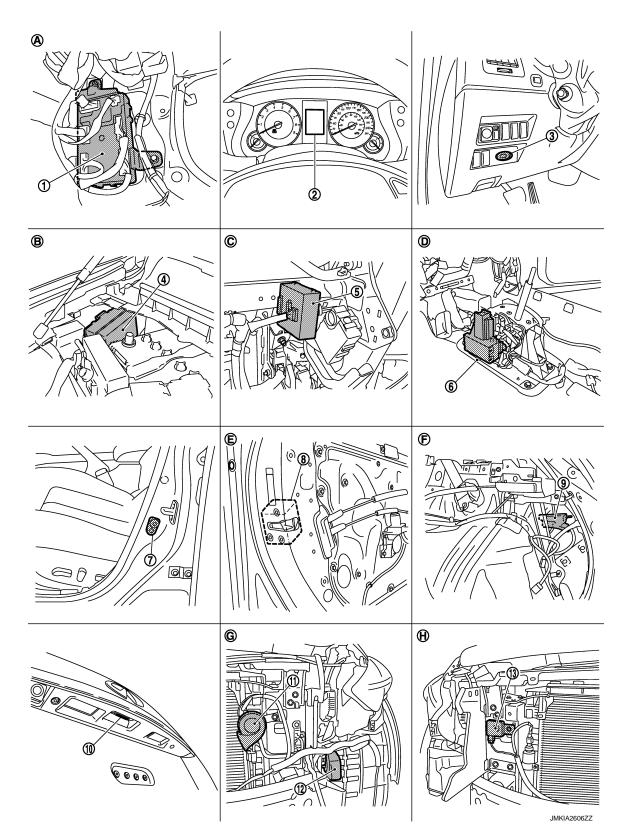
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- 1. BCM M118, M119, M120, M121, M122, M123
- 4. IPDM E/R E5, E6
- 2. Combination meter M53
- 3. Key slot M22
- 5. Remote keyless entry receiver M104 6.
- A/T shift selector (detention switch) M137

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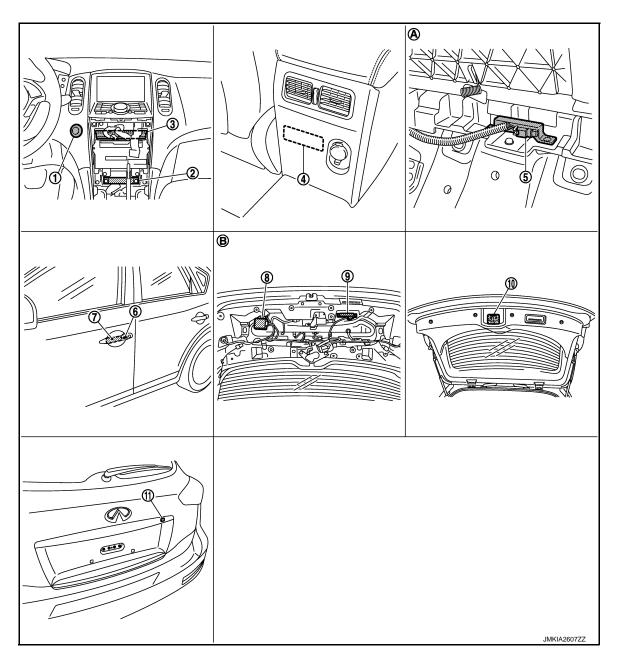
Revision: 2009 August DLK-37 2010 FX35/FX50

< SYSTEM DESCRIPTION >

- 7. Front door switch (driver side) B16
- 10. Back door opener switch D114
- 13. Intelligent Key warning buzzer E80
- A. Dash side lower (passenger side)
- View with center console assembly removed
- G. View with front bumper removed

- 8. Front door lock assembly (driver side) D15
- 11. Horn (low) E69, E70
- B. Engine room dash panel (RH)
- E. View with front door finisher (LH) re- F. moved
- H. View with front bumper removed

- 9. Fuel lid lock actuator B242
- 12. Horn (high) E61, E62
- Behind the instrument lower panel (driver side)
- View with luggage side finisher lower (RH) removed



- 1. Push-button ignition switch (push switch) M50
- 4. Inside key antenna (console) M146
- Inside key antenna (instrument cen- 3. ter) M131
- 5. Inside key antenna (luggage room) B228
 - Back door control unit D123
- Unified meter and A/C amp. M66, M67
- Front outside handle LH (request switch)
 D13

7. Front outside handle LH (outside key 8. antenna) D14

Outside key antenna (back door) D118

< SYSTEM DESCRIPTION >

- 10. Back door lock assembly D122
 11. Back door opener request switch D116
 A. View with luggage floor finisher front B. View with back door finisher inner re-
- View with luggage floor finisher front B. View with back door finisher inner reremoved moved

WARNING FUNCTION

WARNING FUNCTION: System Description

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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
- Steering lock information
- Intelligent key low battery warning
- Key ID warning

OPERATION CONDITION

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

Warning/Info	rmation functions	Operation procedure				
Intelligent Key system malfunction		When a malfunction is detected on BCM, "KEY" warning lamp illuminates				
	For internal	Ignition switch: ACC position.Door switch (driver side): ON (Door is open).				
OFF position warning 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. 				
	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. 				
Take away warning	Door is open	 Door switch: ON (Door is open). Key ID verification every 5 seconds when registered Intelligent Key can not be detected inside the vehicle. 				
, 0	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 de tected inside the vehicle.				

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< SYSTEM DESCRIPTION >

Warning/Inforr	nation functions	Operation procedure
Door lock operation warn-	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.
ing	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.
	Ignition switch is in the ON position	Ignition switch: ON position.Shift position: P position.Engine is stopped.
Engine start information	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.
Steering lock information		When steering lock can not be released after ignition switch is turned ON.
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.

				Key slot il-	Warning	g chime
Warning/Informa	nformation functions "KEY" warning lamp (combination meter)				Combination meter buzzer	Intelligent Key warning buzzer
Intelligent Key system	m malfunction	Illuminate	_	_	_	_
OFF position warn-	For internal	_	_	_	Activate	_
ing	For external	_	_	_	_	Activate
P position warning		_	SHIFT JMKIA0037GB	_	Activate	_
ACC warning		_	PUSH JMKIA0047GB	_	_	_

< SYSTEM DESCRIPTION >

					Warning	g chime		
Warning/Informa	Warning/Information functions		ing/Information functions "KEY" warning lamp (combination meter)			Key slot il- lumination	Combination meter buzzer	Intelligent Key warning buzzer
	Door is open to close	_		Blink	Activate	Activate		
	Door is open	_		Blink	_	_		
Take away warning	Push-ignition switch operation	_	NO KEY	Blink	Activate	_		
	Intelligent Key is removed from key slot	_	JMKIA0036GB	Blink	_	_		
Door lock operation	Request switch operation	_	_	_	_	Activate		
warning	Intelligent Key operation	_	_	_	_	Activate		
Key ID warning		_	NO KEY	_	_	_		
Key warning		_	JMKIA0035GB	Blink	Activate	_		
Intelligent Key insert	t information	_	JMKIA0034GB	Blink	_	_		
Engine start informa	tion	_		_	_	_		
			BRAKE JMKIA0032GB					

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< SYSTEM DESCRIPTION >

				Warning chime			
Warning/Information functions			Key slot il- lumination	Combination meter buzzer	Intelligent Key warning buzzer		
Steering lock information	_	JMKIA0033GB	_	_	_		
Intelligent Key low battery warning	_	JMKIA0048GB	_	_	_		

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

Warnin	g 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 mal	function										×	×				×
OFF position warning	For internal				×					×	×	×				<u> </u>
	For external				×				×			×				<u></u>
P position warning	P position warning			×						×	×	×	×		×	
ACC warning				×						×	×	×	×		×	
	Door is open or close	×			×		×		×	×	×	×	×	×		
	Door is open	×			×		×				×	×	×	×		
Take away warning	Push-ignition switch operation	×		×			×			×	×	×	×	×		
	Intelligent Key is removed from key slot	×	×				×				×	×	×	×		
Door lock operation warning	ng	×	×		×	×	×	×	×			×				
Key ID warning		×	×	×			×				×	×	×			
Key warning		×	×		×					×	×	×	×	×		
Intelligent Key insert information		×	×	×	×		×				×	×	×	×		
Engine start information	Ignition switch is in the ON position	×	×	×			×				×	×	×		×	
Engine start information	Ignition switch is not in the ON position	×	×	×			×				×	×	×			

< SYSTEM DESCRIPTION >

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	ВСМ	Combination meter display	Key slot illumination	Transmission range switch	"KEY" warning lamp
Steering lock information			×							×	×	×			
Intelligent Key low battery warning	×					×				×	×	×			

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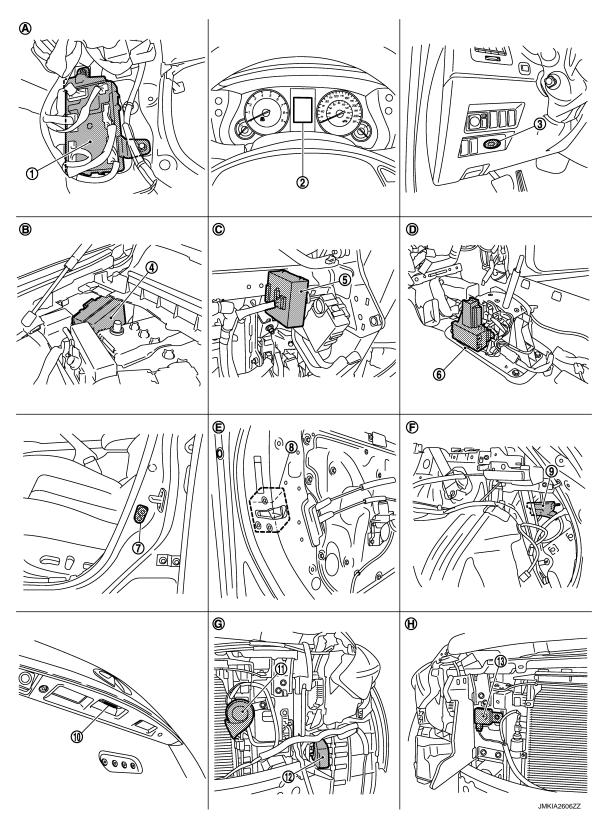
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WARNING FUNCTION: Component Parts Location

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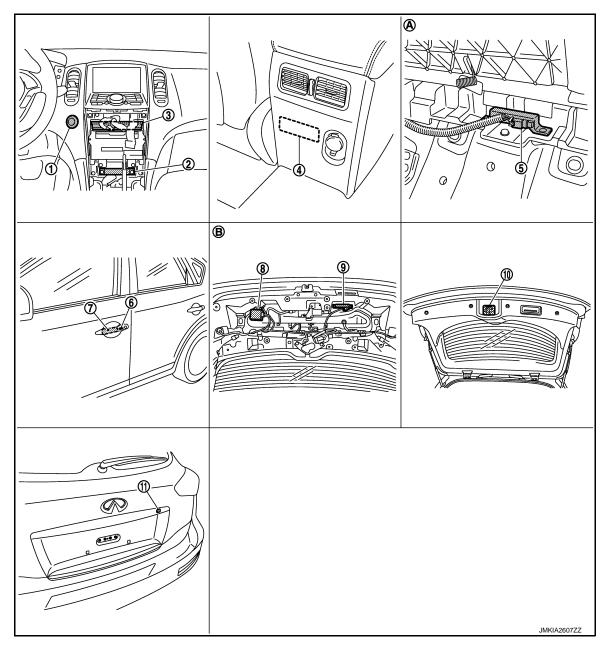
- 1. BCM M118, M119, M120, M121, M122, M123
- 4. IPDM E/R E5, E6
- 2. Combination meter M53
- 3. Key slot M22
- 5. Remote keyless entry receiver M104 6.
- A/T shift selector (detention switch) M137

< SYSTEM DESCRIPTION >

- 7. Front door switch (driver side) B1610. Back door opener switch D114
 - 13. Intelligent Key warning buzzer E80
- A. Dash side lower (passenger side)
- D. View with center console assembly removed
- G. View with front bumper removed

- Front door lock assembly (driver side) D15
- 11. Horn (low) E69, E70
- B. Engine room dash panel (RH)
- E. View with front door finisher (LH) re- F.
- H. View with front bumper removed

- 9. Fuel lid lock actuator B242
- 12. Horn (high) E61, E62
- C. Behind the instrument lower panel (driver side)
- View with luggage side finisher lower (RH) removed



- 1. Push-button ignition switch (push switch) M50
- 4. Inside key antenna (console) M146

antenna) D14

Front outside handle LH (outside key 8.

- Inside key antenna (instrument cen- 3. ter) M131
- Inside key antenna (luggage room) B228
 - Back door control unit D123
- Unified meter and A/C amp. M66, M67
- Front outside handle LH (request switch)
 D13
- Outside key antenna (back door) D118

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Revision: 2009 August DLK-45 2010 FX35/FX50

< SYSTEM DESCRIPTION >

- 10. Back door lock assembly D122
- 11. Back door opener request switch D116
- A. View with luggage floor finisher front B. removed
- View with back door finisher inner removed

BACK DOOR AUTO CLOSURE SYSTEM

< SYSTEM DESCRIPTION >

BACK DOOR AUTO CLOSURE SYSTEM **CLOSURE FUNCTION**

CLOSURE FUNCTION: System Diagram

INFOID:0000000005239508 Back door lock assembly Closure motor Half-latch switch Back door всм control unit Open switch Close switch JMKIA2681GB

CLOSURE FUNCTION: System Description

When back door is closed to the half-latch position, closure motor operates to rotate the latch lever from the half latched to fully latched position and automatically closes back door. Then, closure motor reverses to the neutral position.

AUTO CLOSURE OPERATION

From fully Open to Fully Closed Operation

The back door closure system operates as per the following.

Component	Parts	Status	① ②	3	④
	Half latch switch	ON			
	Hair laten switch	OFF]		<u> </u>
	Open switch	ON			<u> </u>
	Open switch	OFF		į	
Back door lock	Close switch	ON			
assembly	Close switch	OFF			
	Back door closure	ON			
	motor (close)	OFF		ļ L	
	Back door closure	ON			
	motor (open)	OFF			

- 1. Back door is fully open.
- 2. Back door closure motor starts the close operation after turning half latch switch OFF.
- Back door closure motor stops the close operation and starts the neutral operation after turning close switch ON.
- Back door closure motor stops the open operation and returns the latch to the neutral position after turning open switch OFF.

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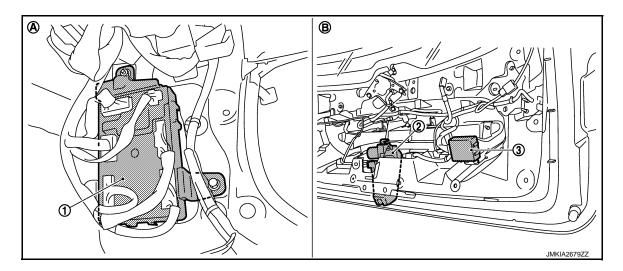
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CLOSURE FUNCTION: Component Parts Location

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- BCM M118, M119, M121, M122, M123
- Back door lock assembly D122
- Back door control unit D123

- A. Dash side lower (passenger side)
- B. View with back door finisher inner removed

CLOSURE FUNCTION: Component Description

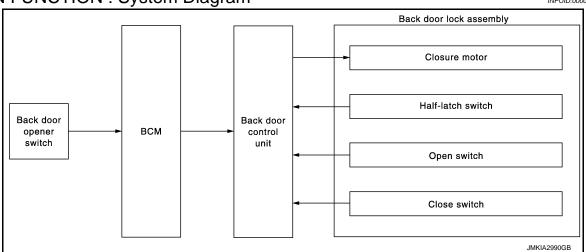
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Item	Function
Back door control unit	Operates back door closure motor with signal from each switch.
Back door lock assembly	Back door closure motor, half latch switch, open switch, and close switch are installed. Closure motor: Opens and closes the back door 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

OPEN FUNCTION

OPEN FUNCTION: System Diagram

INFOID:0000000005239512



OPEN FUNCTION: System Description

INFOID:0000000005239513

When the back door opener switch operation signal is input into back door control unit from BCM, back door is opened by the closure motor open operation.

BACK DOOR AUTO CLOSURE SYSTEM

< SYSTEM DESCRIPTION >

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM transmits the back door opener switch operation signal to back door control unit and back door control unit opens back door lock assembly.

The operation to open back door with Intelligent Key is the same as the Intelligent Key system. Refer to <u>DLK-24</u>, "BACK DOOR OPEN FUNCTION: System <u>Description</u>"

NOTE:

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

OPERATION CONDITION

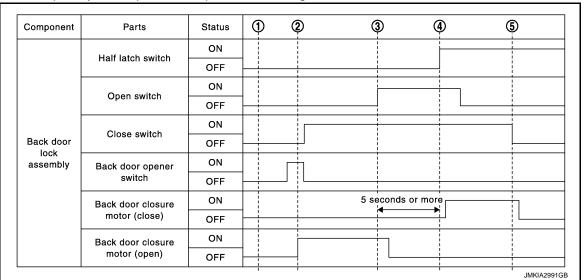
If the following conditions are satisfied, the back door opener operation is performed.

Back door opener switch operation	Operation condition
Back door open	All doors are unlockedVehicle speed is less than 5 km/h (3 MPH).

OPEN OPERATION

From fully Closed to Fully Open Operation

The back door open system operates as per the following.



- 1. Back door is fully closed.
- 2. Back door closure motor starts the open operation after turning back door opener switch ON.
- Back door closure motor stops the open operation after turning open switch ON.
- 4. Back door closure motor starts the close operation after turning half latch switch ON.
- 5. Back door closure motor stops the close operation and returns the latch to the neutral position after turning close switch OFF.

NOTE:

When half latch switch is turned ON or 5 seconds pass without opening back door, back door closure motor starts the close operation.

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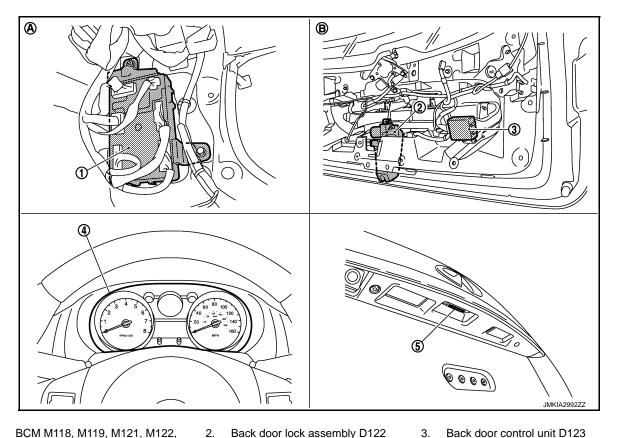
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OPEN FUNCTION: Component Parts Location

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- BCM M118, M119, M121, M122, M123
- Combination meter M35 5.
- Dash side lower (passenger side)
- Back door lock assembly D122
- Back door opener switch D114 6.
- В. View with back door finisher inner removed

OPEN FUNCTION: Component Description

INFOID:0000000005239515

Item	Function
BCM	Controls the back door opener function
Back door opener switch	Inputs back door opener switch operation signal to BCM
Back door control unit	Operates back door closure motor with the signal from each switch.
Back door lock assembly	Back door closure motor, half latch switch, open switch and close switch are installed Closure motor: Opens and closes back door 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
Combination meter	Transmits vehicle speed signal to BCM via CAN communication

INTEGRATED HOMELINK TRANSMITTER

< SYSTEM DESCRIPTION >

INTEGRATED HOMELINK TRANSMITTER

Component Description

INFOID:0000000005239516

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

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000005239517

APPLICATION ITEM

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

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
System		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT*1	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER		×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
_	AIR CONDITONER*2			
Intelligent Key system Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door opener system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

NOTE:

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^{• *1:}For models with Intelligent Key system this item is displayed, but is not used.

^{• *2:} This item is displayed, but is not used.

< SYSTEM DESCRIPTION >

FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data

The BCM records the following condition at the moment a particular DTC is detected.

- Vehicle Speed
- Odo/Trip Meter
- Vehicle Condition (BCM detected condition)

CONSULT screen terms	Description
SLEEP>LOCK	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")
SLEEP>OFF	While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF")
LOCK>ACC	While turning power supply position from "LOCK" to "ACC"
ACC>ON	While turning power supply position from "ACC" to "IGN"
RUN>ACC	While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is not in the P position.)
CRANK>RUN	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
RUN>URGENT	While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
ACC>OFF	While turning power supply position from "ACC" to "OFF"
OFF>LOCK	While turning power supply position from "OFF" to "LOCK"
OFF>ACC	While turning power supply position from "OFF" to "ACC"
ON>CRANK	While turning power supply position from "IGN" to "CRANKING"
OFF>SLEEP	While turning BCM status from normal mode (Power supply position is "OFF") to low power consumption mode
LOCK>SLEEP	While turning BCM status from normal mode (Power supply position is "LOCK") to low power consumption mode
LOCK	Power supply position is "LOCK" (Ignition switch OFF with steering is locked)
OFF	Power supply position is "OFF" (Ignition switch OFF with steering is unlocked)
ACC	Power supply position is "ACC" (Ignition switch ACC)
ON	Power supply position is "IGN" (Ignition switch ON with engine stopped)
ENGINE RUN	Power supply position is "RUN" (Ignition switch ON with engine running)
CRANKING	Power supply position is "CRANKING" (At engine cranking)

IGN Counter

IGN counter indicates the number of times that ignition switch is turned ON after DTC is detected.

- The number is 0 when a malfunction is detected.
- The number increases from 1 \rightarrow 2 \rightarrow 3...38 \rightarrow 39 after returning to the normal condition whenever ignition switch OFF \rightarrow ON.
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

DOOR LOCK

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

INFOID:0000000005239518

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BCM CONSULT-III FUNCTION

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

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

WORK SUPPORT

< SYSTEM DESCRIPTION >

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 SE- LECT	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) PRANGE: 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

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

Test item	Description
DOOR LOCK	 This test is able to check door lock/unlock operation. The all door lock actuators are locked when "ALL LCK" on CONSULT-III screen is touched. The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched. The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched. The door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT- III screen is touched. The door lock actuator (rear LH and RH) is unlocked when "OTR ULK" on CONSULT-III screen is touched.

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY) INFOID:000000005239519

WORK SUPPORT

< SYSTEM DESCRIPTION >

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	
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

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< SYSTEM DESCRIPTION >

Refer to DLK-183, "DTC Index".

DATA MONITOR

Monitor Item	Condition
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
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	Indicates [ON/OFF] condition of steering lock unit (LOCK).
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock unit (UNLOCK).
S/L RELAY -F/B	Indicates [ON/OFF] condition of ignition switch.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.
DETE SW -IPDM	Indicates [ON/OFF] condition of 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	Indicates [ON/OFF] condition of steering lock unit (LOCK).
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock unit (UNLOCK).
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay.
VEH SPEED 1	Displays the vehicle speed signal received from unified meter and A/C amp. by numerical value [Km/h].
VEH SPEED 2	Displays the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h].
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status.
ID OK FLAG	Indicates [SET/RESET] condition of key ID.
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored.
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.

< SYSTEM DESCRIPTION >

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

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-III screen is touched.
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down is activated when "ON" on CONSULT-III screen is touched.
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer is activated when "ON" on CONSULT-III screen is touched.
INSIDE BUZZER	This test is able to check warning chime in combination meter operation. Takes away warning chime sounds when "TAKE OUT" on CONSULT-III screen is touched. Key warning chime sounds when "KEY" on CONSULT-III screen is touched. The P position warning chime sounds when "KNOB" on CONSULT-III screen is touched.
INDICATOR	This test is able to check warning lamp operation. • "KEY" Warning lamp illuminates when "RED ON" on CONSULT-III screen is touched. • The "KEY" Warning lamp blinks when "RED IND" on CONSULT-III screen is touched.
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp is activated when "ON" on CONSULT-III screen is touched.
LCD	This test is able to check meter display information Engine start information displays when "BP N" on CONSULT-III screen is touched. Engine start information displays when "BP I" on CONSULT-III screen is touched. Key ID warning displays when "ID NG" on CONSULT-III screen is touched. Steering lock information displays when "ROTAT" on CONSULT-III screen is touched. The P position warning displays when "SFT P" on CONSULT-III screen is touched. Intelligent Key insert information displays when "INSRT" on CONSULT-III screen is touched. Intelligent Key low battery warning displays when "BATT" on CONSULT-III screen is touched. Take away through window warning displays when "NO KY" on CONSULT-III screen is touched. Take away warning displays when "OUTKY" on CONSULT-III screen is touched. The OFF position warning displays when "LK WN" on CONSULT-III screen is touched.
TRUNK/GLASS HATCH	This test is able to check back door opener actuator open operation. This actuator operates when "ON" on CONSULT-III screen is touched.
BLINKER	This test is able to check security hazard lamp operation. The hazard lamps is activated when "LH" or "RH" on CONSULT-III screen is touched.
HORN	This test is able to check horn operation. The horn will be activated when "ON" on CONSULT-III screen is touched.
P RANGE	This test is able to check A/T shift selector power supply A/T shift selector power is supplied when "ON" on CONSULT-III screen is touched.
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when "ON" on CONSULT-III screen is touched.
LOCK INDICATOR	This test is able to check indicator in push-ignition switch operation. Indicator in push-ignition switch (LOCK) illuminates when "ON" on CONSULT-III 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-III 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-III screen is touched.
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination blinks when "ON" on CONSULT-III screen is touched.

TRUNK

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< SYSTEM DESCRIPTION >

TRUNK: CONSULT-III Function (BCM - TRUNK)

INFOID:0000000005239520

BCM CONSULT-III FUNCTION

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

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

DATA MONITOR

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

^{*:} With back door opener system

ACTIVE TEST

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

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

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 detectability. Modern vehicles are equipped with many electronic control units, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected by 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-29, "CAN System Specification Chart".

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000005239523

1.PERFORM SELF DIAGNOSTIC

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

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-20, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-36, "Intermittent Incident".

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000005239525

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM. Refer to BCS-83, "Removal and Installation"

Special Repair Requirement

INFOID:0000000005239526

1. REQUIRED WORK WHEN REPLACING BCM

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

>> Work end

B2621 INSIDE KEY ANTENNA 1

< DTC/CIRCUIT DIAGNOSIS >

B2621 INSIDE KEY ANTENNA 1

Description INFOID:000000005239527

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

DTC Logic

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

- 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 <u>DLK-61</u>, "<u>Diagnosis Procedure</u>".

NO >> Inside key antenna (instrument center) is OK.

Diagnosis Procedure

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.

(+) BCM		(–) Condition		Signal (Reference value)	
(Connector	Terminal			,
M122	Instrument cen-	78, 79	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
W122	ter	73, 73	Glound	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 1 s 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 connector.

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B2621 INSIDE KEY ANTENNA 1

< DTC/CIRCUIT DIAGNOSIS >

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

В	СМ	Inside key antenna (instrument center) Connector Terminal		Continuity
Connector	Terminal			Continuity
M122	78	M131	2	Existed
IVITZZ	79	WITST	1	LXISIGU

3. Check continuity between BCM harness connector and ground.

	BCM		Continuity		
	Connector Terminal		Crawad	Continuity	
M122	M122 Instrument center		Ground	Not existed	
IVITZZ	Instrument center	79		Not existed	

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)
- 2. Connect BCM and inside key antenna (instrument center) connector.
- 3. Check signal between BCM harness connector and ground using an oscilloscope.

	(+) BCM Connector	Terminal	(-)	Condition	Signal (Reference value)
M122	Instrument cen-	78, 79	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
101122	ter	70, 79	Glound	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center). Refer to <u>DLK-281, "INSTRUMENT CENTER: Removal and Installation"</u>.

NO >> Replace BCM. Refer to BCS-83, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

B2622 INSIDE KEY ANTENNA 2

< DTC/CIRCUIT DIAGNOSIS >

B2622 INSIDE KEY ANTENNA 2

Description INFOID:0000000005239530

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

DTC Logic INFOID:0000000005239531

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 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?

>> Refer to <u>DLK-63</u>, "<u>Diagnosis Procedure</u>".

>> Inside key antenna (console) is OK. NO

Diagnosis Procedure

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)	
С	onnector	Terminal			(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M122	Console	72, 73	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 JMKIA0062GB
		,		Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 JMKIA0063GB

Is the inspection result normal?

>> GO TO 4. YES

NO >> GO TO 2.

2.check inside key antenna circuit

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

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B2622 INSIDE KEY ANTENNA 2

< DTC/CIRCUIT DIAGNOSIS >

В	СМ	Inside key ant	Continuity		
Connector	Terminal	Connector Terminal		Continuity	
M122	72	M146	2	Existed	
IVI IZZ	73	101140	1	LXISIEU	

3. Check continuity between BCM harness connector and ground.

BCM				Continuity	
Connector		Terminal	Ground	Continuity	
M122	M122 Console			Not existed	
IVI I ZZ	Console	73		ivoi 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 (console). (New antenna or other antenna)
- 2. Connect BCM and inside key antenna (console) connector.
- 3. Check signal between BCM harness connector and ground using an oscilloscope.

(+) BCM Connector Terminal		(–)	Condition	Signal (Reference value)	
				Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
M122	Console	72, 73	Ground	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to <u>DLK-281, "CONSOLE : Removal and Installation"</u>.

NO >> Replace BCM. Refer to BCS-83. "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

B2623 INSIDE KEY ANTENNA 3

< DTC/CIRCUIT DIAGNOSIS >

B2623 INSIDE KEY ANTENNA 3

Description INFOID:0000000005239533

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

DTC Logic

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 <u>DLK-65</u>, "<u>Diagnosis Procedure</u>".

NO >> Inside key antenna (luggage room) is OK.

Diagnosis Procedure

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

	Tern	ninals			2
	(+)		(_)	Condition	Signal (Reference value)
BC	M connector	Terminal	(–)		(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M121	Luggage room	34, 35	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 JMKIA0062GB
	33 3			Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 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.

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B2623 INSIDE KEY ANTENNA 3

< DTC/CIRCUIT DIAGNOSIS >

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

ВСМ		Inside key antenna		Continuity
Connector	Terminal	Connector Terminal		Continuity
M121	34	B228	2	Existed
IVITZT	35	D220	1	LXISTEG

3. Check continuity between BCM harness connector and ground.

BCM				
Connector		Terminal	Ground	Continuity
M121	Luggaga room	34	Giouria	Not existed
IVITZT	Luggage room	35		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	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
WIZI	Luggage 100iii	34 , 33	Ciodila	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room). Refer to <u>DLK-282, "LUGGAGE ROOM : Removal and Installation"</u>.

NO >> Replace BCM. Refer to BCS-83, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

INFOID:0000000005239536

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BCM (BODY CONTROL MODULE): Diagnosis Procedure

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	L
11	Battery power suppry	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

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector Terminal		Ground	Continuity
M119	13		Existed

Is the inspection result normal?

>> INSPECTION END YES

NO >> Repair or replace harness.

BACK DOOR CONTROL UNIT

BACK DOOR CONTROL UNIT: Diagnosis Procedure

1.CHECK FUSE

Check that the following fuse is not fusing.

Fuse No.	Signal name
35	Battery power supply

Is the fuse fusing?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

Back door	+) control unit	(–)	Voltage (Approx.)
Connector Terminal			(11 - 7
D123	3	Ground	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

Back door control unit			Continuity	
Connector	Terminal	Ground	Continuity	
D123	7	Ground	Existed	
D123	8	1	Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS > **DOOR SWITCH** Α Description INFOID:0000000005239538 Detects door open/close condition. В Component Function Check INFOID:0000000005239539 1. CHECK FUNCTION (III) With CONSULT-III Check door switches ("DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR", and "DOOR SW-D BK") in Data Monitor" mode using CONSULT-III. Monitor item Condition Е DOOR SW-DR DOOR SW-AS DOOR SW-RL $\mathsf{CLOSE} \to \mathsf{OPEN} \mathsf{:}\; \mathsf{OFF} \to \mathsf{ON}$ F DOOR SW-RR DOOR SW-BK Is the inspection result normal? YES >> Door switch is OK. NO >> Refer to DLK-69, "Diagnosis Procedure". Н Diagnosis Procedure INFOID:0000000005239540 1. CHECK DOOR SWITCH INPUT SIGNAL Turn ignition switch OFF.

- 2. Disconnect malfunctioning door switch connector.
- Check signal between malfunctioning door switch harness connector and ground using an oscilloscope.

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	(+)			Q
Door switch		(–)	Signal (Reference value)	
Conr	nector	Terminal		·
Driver side	B16	2		(V) 15 10 5 0 ++10ms JPMIA0594GB
Passenger side	B216	2		(V) 15 10 5 0 +-10ms JPMIA0594GB
Rear LH	B23	2	Ground	(V) ₁₅ 10 5 0 ++10ms JPMIA0594GB
Rear RH	B223	2		(V) ₁₅ 10 5 0 ++10ms JPMIA0594GB
Back door	D122	7	1	Battery voltage

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	Continuity
M123	150	B16 (Driver side)	2	Existed
IVITZS	124	B216 (Passenger side)		
	69	B23 (Rear LH)		
M121	68	B223 (Rear RH)		
	66	D122 (Back door)	7	

^{3.} Check continuity between BCM harness connector and ground.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "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)			Continuity
Connector	Terminal	Ground	Continuity
D122	8		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR SWITCH

Refer to DLK-71, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO

- >> Replace malfunctioning door switch.
 - Door switch: Refer to <u>DLK-280</u>, "Removal and Installation".
 - Back door lock assembly (back door switch): Refer to DLK-277, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK DOOR SWITCH

- Turn ignition switch OFF.
- 2. Disconnect door switch connector.
- Check door switch terminals.

Terminal		Door switch condition	Continuity	
Door switch		Door Switch Condition		
Each door 2	Ground part of door	Pressed	Not existed	
	2	switch	Released	Existed
Back door	Back door 7 8		Pressed	Not existed
Dack door	,	0	Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

- Door switch: Refer to <u>DLK-280</u>, "Removal and Installation".
- Back door lock assembly (back door switch): Refer to <u>DLK-277, "Removal and Installation"</u>.

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INFOID:0000000005239541

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000005239542

Transmits door lock/unlock operation to BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000005239543

1. CHECK FUNCTION

(P)With CONSULT-III

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

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

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-72</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000005239544

1. CHECK POWER WINDOW SWITCH

- 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-121, "Diagnosis Procedure".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000005239545

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE: Component Function Check

INFOID:0000000005239546

1. CHECK FUNCTION

(P)With CONSULT-III

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

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

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-72</u>, "PASSENGER SIDE : <u>Diagnosis Procedure"</u>.

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000005239547

1. CHECK POWER WINDOW SWITCH

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Does power window (passenger side) operate?

- YES >> Replace power window switch (passenger side)
- NO >> Refer to PWC-121, "Diagnosis Procedure".

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< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000005239548

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000005239549

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-74</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000005239550

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.

((+)		O little and a lead and	Voltage (V) (Approx.)
Front door lock assembly		(–)	Condition of door lock and unlock switch	
Connector	Terminal			(· PF)
D15	1	Ground	Lock	$0 \rightarrow Battery \ voltage \rightarrow 0$
DIS	2	Giouna	Unlock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side). Refer to DLK-248, "DOOR ASSEMBLY: Removal and Installation".

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

В	CM	Front door lock assembly (driver side)		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity		
M119	8	D15	1	Existed		
WITTE	9	D13	2	LXISIEU		

3. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M119	8	Giodila	Not existed
WITIS	9		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness.

PASSENGER SIDE

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE: Description

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Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE: Component Function Check

INFOID:0000000005239552

1. CHECK FUNCTION

- Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 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-75, "PASSENGER SIDE : Diagnosis Procedure". D

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000005239553

1. CHECK DOOR LOCK ACTUATOR SIGNAL

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

(+) Front door lock assembly (passenger side)			On the set leaded as I	V-16 0.0	
		(–)	Condition of door lock and unlock switch	Voltage (V) (Approx.)	
Connector	Terminal			(11 - 7	
D45	1	Ground	Unlock	$0 o Battery \ voltage o 0$	
D45	2	Ground	Lock	$0 o Battery\ voltage o 0$	

Is the inspection result normal?

YES >> Replace front door lock assembly (passenger side). Refer to <u>DLK-248</u>, "DOOR ASSEMBLY Removal and Installation".

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

В	CM	Front door lock assembly (passenger side)		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector Terminal		Continuity		
M119	5	D45	1	Existed		
IVITIS	8	045	2	LAISIEU		

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M119	5	Ground	Not existed
WITE	8		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness.

REAR LH

REAR LH: Description

INFOID:0000000005239554

Locks/unlocks the door with the signal from BCM.

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< DTC/CIRCUIT DIAGNOSIS >

REAR LH: Component Function Check

INFOID:0000000005239555

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-76</u>, "<u>REAR LH</u>: <u>Diagnosis Procedure</u>".

REAR LH: Diagnosis Procedure

INFOID:0000000005239556

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			(11 - /
D55	1	Ground	Lock	0 o Battery voltage o 0
D55	2	Ground	Unlock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$

Is the inspection result normal?

YES >> Replace rear door lock assembly LH. Refer to <u>DLK-254, "DOOR ASSEMBLY : Removal and Installation"</u>.

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.

В	CM	Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M119	8	D55	1	Existed
WITTE	10	D33	2	LXISIEU

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M119	8	Ground	Not existed
WITI	10		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness.

REAR RH

REAR RH: Description

INFOID:0000000005239557

Locks/unlocks the door with the signal from BCM.

REAR RH: Component Function Check

INFOID:0000000005239558

1. CHECK FUNCTION

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

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< DTC/CIRCUIT DIAGNOSIS >

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 <u>DLK-77</u>, "REAR RH: <u>Diagnosis Procedure"</u>.

REAR RH: Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR SIGNAL

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

(+ Rear door lock	,	(–)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
Connector	Terminal			, ,
D75	1	Ground	Unlock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$
D/3	2	Giouria	Lock	0 o Battery voltage o 0

Is the inspection result normal?

>> Replace rear door lock assembly RH. Refer to DLK-254, "DOOR ASSEMBLY: Removal and YES Installation".

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector.

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

В	CM	Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M119	8	D75	2	Existed
WH 19	10	D/5	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M119	8	Ground	Not Existed
WITTS	10		NOT EXISTED

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness. DLK

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DLK-77 Revision: 2009 August 2010 FX35/FX50

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FUEL LID LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

FUEL LID LOCK ACTUATOR

Description

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

Component Function Check

INFOID:0000000005239561

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Fuel lid lock actuator is OK.

NO >> Refer to <u>DLK-78</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000005239562

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.

	+) ck actuator	(-)	Condition of door lock and unlock	Voltage (V) (Approx.)
Connector	Terminal		switch	、
B242	1	Ground	Unlock	$0 \rightarrow Battery \ voltage \rightarrow 0$
6242	2	Giouna	Lock	$0 \rightarrow Battery \ voltage \rightarrow 0$

Is the inspection result normal?

YES >> Replace fuel lid lock actuator. Refer to DLK-278, "Removal and Installation".

NO >> GO TO 2.

2.CHECK FUEL LID LOCK ACTUATOR CIRCUIT

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

E	BCM	Fuel lid lock actuator		Continuity
Connector	Terminal	Connector Terminal		Continuity
M119	8	B242	2	Existed
IVITIS	9	D242	1	LXISIEU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M119	8	Ground	Not existed
	9		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH OPERATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH OPERATION SIGNAL CIRCUIT

DCM datasta condition of the book door on one position and transposite to book door control unit

BCM detects condition of the back door opener switch and transmits to back door control unit.

Component Function Check

1. CHECK FUNCTION

Description

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

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

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to <u>DLK-86</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK BACK DOOR CONTROL UNIT INPUT SIGNAL

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

`	(+) Back door control unit		Condition		Condition Voltage (V)	Voltage (V) (Approx.)
Connector	Terminal				(
D123	6	Ground	Back door opener	Not pressed	Battery voltage	
D123	0	Ground	switch	Pressed	0	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.check back door control unit circuit

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

Back door	control unit	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D123	6	M121	48	Existed

3. Check continuity between BCM harness connector and ground.

-	BCM		Continuity
Connector Terminal		Ground	Continuity
M121	48		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${f 3.}$ CHECK BCM OUTPUT SIGNAL

- Connect BCM connector.
- 2. Check voltage between BCM harness connector and ground.

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BACK DOOR OPENER SWITCH OPERATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

,	+) CM	(-)	Condition		(–) Condition		Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,		
M121	48	Ground	Back door opener	Not pressed	Battery voltage		
IVITZI	40	Giodila	switch	Pressed	0		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-83. "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

KEY CYLINDER SWITCH

Description INFOID:0000000005239566

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

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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 SYS-TEM" using CONSULT-III. Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Monitor item	Co	ndition	
KEY CYL LK-SW	Lock	: ON	
RET CTL LN-SW	Neutral / Unlock	: OFF	
KEY CYL UN-SW	Unlock	: ON	
RET CTL UN-SVV	Neutral / Lock	: OFF	

Is the inspection result normal?

YES >> Key cylinder switch is OK.

>> Refer to DLK-81, "Diagnosis Procedure". NO

Diagnosis Procedure

INFOID:0000000005239568

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

(+)			Voltage (V) (Approx.)	
Front door lock assembly (driver side)		(–)		
Connector	Terminal		, , , ,	
D15	5	Ground	5	
	6	Ground	3	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2. M

2.check door key cylinder signal circuit

Disconnect power window main switch connector.

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

Power windo	w main switch	Front door lock assembly (driver side)				Continuity
Connector	Terminal	Connector Terminal		Continuity		
D8	4	D15	6	Existed		
D6	6	D13	5	LAISIEU		

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

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KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Power wind	Power window main switch		Continuity	
Connector	Terminal	Ground	Continuity	
	De 4	Cround	Not existed	
Do	6		NOT EXISTED	

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-136, "Removal and Installation".

NO >> Repair or replace harness.

${f 3.}$ CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

Front door lock as:	sembly (driver side)		Continuity
Connector	Terminal	Ground	Continuity
D15	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to DLK-82, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side). Refer to <u>DLK-248, "DOOR ASSEMBLY : Removal and Installation".</u>

5. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005239569

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 Front door lock assembly (driver side) connector		Key position	Continuity
		Rey position	
5		Unlock	Existed
5	4	Neutral / Lock	Not existed
6	4	Lock	Existed
O	0	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 <u>DLK-248, "DOOR ASSEMBLY : Removal and Installation".</u>

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Description

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

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1. CHECK FUNCTION

(F) With CONSULT-III

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

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

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

NO >> Refer to <u>DLK-83, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000005239572

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

(+) Remote keyless entry receiver		(–) Condition		Signal (Reference value)	
Connector	Terminal			(relevance value)	
M104	2	Ground	Waiting (All door closed)	(V) 15 10 5 0 1 ms	
	_	Sisula	When signal is received (All door closed)	(V) 15 10 5 0 1 ms JMKIA0065GB	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

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

В	CM	Remote keyles	s entry receiver	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M122	83	M104	2	Existed

3. Check continuity between BCM harness connector and ground.

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M122	83		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness.

3.check remote keyless entry receiver power supply

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

(+) Remote keyless entry receiver			Voltage (V) (Approx.)	
		(–)		
Connector	Terminal		(444.5)	
M104	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

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

В	CM	Remote keyles	ss entry receiver	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M122	103	M104	4	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Connector Terminal		Continuity	
M122	103		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness.

CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

Remote keyles	s entry receiver		Continuity
Connector	Terminal	Ground	Continuity
M104	1		Existed

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to <u>DLK-287, "Removal and Installation"</u>.

NO >> GO TO 6.

6.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT $_{3}$

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

В	CM	Remote keyles	s entry receiver	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	137	M104	1	Existed

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

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YES >> Replace BCM. Refer to <u>BCS-83, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH

Description

Output back door open signal to BCM.

Component Function Check

INFOID:0000000005239574

1. CHECK FUNCTION

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

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

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

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to <u>DLK-86, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000005239575

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.

(+) Back door opener switch		(-)	Signal (Reference value)	
Connector	Terminal		(Reference value)	
D114	1	Ground	(V) ₁₅ 10 5 0 → +10ms JPMIA0594GB	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Connector Terminal		Continuity	
M121	67		Not existed	

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

>> Replace BCM. Refer to BCS-83, "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			Continuity
Connector	Terminal	Ground	Continuity
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-87, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch. Refer to EXT-49, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK BACK DOOR OPENER SWITCH

- Turn ignition switch OFF.
- Disconnect back door opener switch connector.
- Check continuity between back door opener switch terminals.

Terminal		Condition	Continuity
Back door opener switch		Condition	
4 2	ON (press and hold)	Existed	
	2	OFF (release)	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch. Refer to EXT-49, "Removal and Installation". DLK

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DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR REQUEST SWITCH

Description INFOID:000000005239577

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000005239578

1. CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Refer to <u>DLK-88, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000005239579

1. CHECK BCM OUTPUT SIGNAL

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

(+) Front outside handle (request switch) Connector Terminal		(-)	Signal (Reference value)	
				Driver side
Passenger side	D43	1	Ground	(V) 15 10 5 0 20 ms JMKIA0059GB

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR REQUEST SWITCH CIRCUIT

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

В	СМ	Front outside handle (request switch)		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
M122	101	LH (driver side)	D13	1	Existed
IVI I ZZ	100	RH (passenger side)	D43		Existed

3. Check continuity between BCM harness connector and ground.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

В	ВСМ		Continuity
Connector	Terminal	Ground	Continuity
M122	101	Glound	Not existed
IVIIZZ	100		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness.

${f 3.}$ CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

Front outside handle (request switch)				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	D13	2	Ground	Existed	
Passenger side	D43	2		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR REQUEST SWITCH

Refer to DLK-89, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front outside handle (request switch). Refer to DLK-271, "OUTSIDE HAN-DLE: Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK DOOR REQUEST SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunctioning front outside handle (request switch). Refer to DLK-271, "OUTSIDE HAN-DLE: Removal and Installation".

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BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR REQUEST SWITCH

Description

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000005239582

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 <u>DLK-90, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000005239583

1. CHECK BCM OUTPUT SIGNAL

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

Back door opens	(+) Back door opener request switch		Signal (Reference value)
Connector	Terminal		
D116	1	Ground	(V) 15 10 5 0 10 ms JPMIA0016GB

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.

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

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector Terminal		Ground	Continuity	
M121	61		Not existed	

Is the inspection result normal?

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM. Refer to BCS-83, "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			Continuity
Connector	Terminal	Ground	Continuity
D116	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

f 4.CHECK BACK DOOR OPENER REQUEST SWITCH

Refer to DLK-91, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener request switch. Refer to EXT-49, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK BACK DOOR OPENER REQUEST SWITCH

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

Back door opener request switch Terminal		Back door opener request switch condition	Continuity
		Back door opener request switch condition	
1	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-49, "Removal and Installation". DLK

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UNLOCK SENSOR

Description

Detects door lock condition of driver door.

Component Function Check

INFOID:0000000005239586

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
ONER SEN -DIX	Front door lock (driver side) UNLOCK: ON

Is the inspection result normal?

YES >> Unlock sensor is OK.

NO >> Refer to <u>DLK-92</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000005239587

1. CHECK BCM OUTPUT SIGNAL

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

Front door lock ass Connector		(-)	Signal (Reference value)
D15	3	Ground	(V) ₁₅ 10 5 0 JPMIA0594GB

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK UNLOCK SENSOR CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Connector Terminal		Continuity
M123	119		Not existed

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness.

${f 3.}$ check unlock sensor ground circuit

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK UNLOCK SENSOR

Refer to DLK-93, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side). Refer to <u>DLK-269</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK UNLOCK SENSOR

- 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	Continuity
Terr	minal	sensor) condition	Continuity
3 4		Unlock	Existed
3 4	Lock	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front lock assembly (driver side) (unlock sensor). Refer to <u>DLK-269</u>, "<u>DOOR LOCK</u>: Removal and Installation".

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OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA

Description

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:0000000005239590

1. CHECK DOOR REQUEST SWITCH

Check door request switch. Refer to DLK-88, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check door request switch. Refer to DLK-88, "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 <u>DLK-94, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000005239591

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(–)	Condition		Signal		
С	Connector Terminal					(Reference value)	
	Driver side	76, 77					
M122	Passenger side	74, 75	Ground	Request switch	When Intelligent Key is in the antenna detection area.	(V) 15 10 5 0 1 s JMKIA0062GB	
M121	Back door	38, 39	Giound	is pushed	When Intelligent Key is not in the antenna detection area.	(V) 15 10 0 1 s JMKIA0063GB	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "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.
- Check continuity between BCM harness connector and malfunctioning outside key antenna harness connector.

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

ВС	М	Outside ke	Outside key antenna	
Connector Terminal		Connector	Terminal	Continuity
	76	D14 (driver side)	2	
M122	77	D14 (driver side)	1	Existed
IVI I Z Z	74	D44 (2	
	75	D44 (passenger side)	1	
M4.24	38	D440 (hook door)	2	
M121	39	D118 (back door)	1	

3. Check continuity between BCM harness connector and ground.

E	BCM		Continuity
Connector	Terminal		
	74	Ground	Not existed
M122	75		
IVI I Z Z	76		
	77		Not existed
M121	38		
IVI I Z I	39		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check outside key antenna input signal ${\scriptstyle 2}$

- 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)	
С	Connector Terminal					,
	Driver side	76, 77				
M122	Passenger side	74, 75	Ground	Door request	When Intelligent Key is in the antenna detection area.	(V) 15 10 5 0 JMKIA0062GB
M121	Rear bumper	38, 39	Giounu	switch is pushed	When Intelligent Key is not in the antenna detection area.	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

- YES-1 >> Replace malfunctioning front outside handle (LH or RH). Refer to <u>DLK-271, "OUTSIDE HANDLE:</u> <u>Removal and Installation"</u>.
- YES-2 >> Replace outside key antenna (Back door). Refer to <u>DLK-283, "BACK DOOR: Removal and Installation"</u>.

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OUTSIDE KEY ANTENNA

NO >> Replace BCM. Refer to BCS-83, "Removal and Installation".

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:0000000005239592

Answers back and warns for an inappropriate operation.

Component Function Check

1. CHECK FUNCTION

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

Is the inspection result normal?

>> Intelligent Key warning buzzer (engine room) is OK. YES

>> Refer to <u>DLK-97</u>, "<u>Diagnosis Procedure</u>". NO

Diagnosis Procedure

1.CHECK FUSE

Turn ignition switch OFF.

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

Disconnect Intelligent Key warning buzzer connector.

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

Disconnect BCM connector.

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

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

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
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-98, "Component Inspection".

Is the inspection result normal?

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INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Replace Intelligent Key warning buzzer. Refer to <u>DLK-284, "Removal and Installation"</u>.

Component Inspection

INFOID:0000000005239595

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-284, "Removal and Installation".

INTELLIGENT KEY

Description INFOID:0000000005239596

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

- Door lock/unlock
- Engine start

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

Component Function Check

INFOID:0000000005239597

1. CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Refer to DLK-99, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK INTELLIGENT KEY BATTERY

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

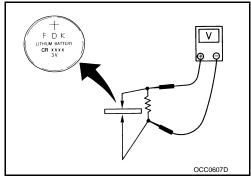
Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> Replace Intelligent Key.

NO

>> Replace Intelligent Key battery. Refer to DLK-99, "Component Inspection".



Component Inspection

 ${f 1}$. REPLACE INTELLIGENT KEY BATTERY

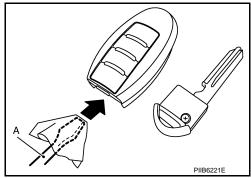
Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

DLK-99

Insert a flat-bladed screwdriver (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.



Replace the battery with new one.

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INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

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.

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Check remote keyless entry receiver. Refer to <u>DLK-83.</u> "Component Function Check".

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INFOID:0000000005239600

Special Repair Requirement

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

KEY SLOT

< DTC/CIRCUIT DIAGNOSIS >

KEY SLOT

Description INFOID:0000000005239601

Detect whether Intelligent Key is inserted.

Immobilizer antenna amp checks Intelligent Key transponder.

Component Function Check

1. CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Key slot is OK.

>> Refer to DLK-101, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK FUSE

Turn ignition switch OFF.

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

Disconnect key slot connector.

Check voltage between slot harness connector and ground.

	+) v slot	(-)	Voltage (V) (Approx.)	
Connector	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		Continuity	
Connector	Connector Terminal		Continuity	
M22	7		Existed	

Is the inspection result normal?

YFS >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK KEY SLOT CIRCUIT

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

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KEY SLOT

< DTC/CIRCUIT DIAGNOSIS >

В	CM	Key	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M123	121	M22	11	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
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-102, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace key slot. Refer to <u>DLK-286, "Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005239604

1. CHECK KEY SLOT

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

Key slot		Condition	Continuity	
Teri	minal	Conducti	Continuity	
	11	Intelligent Key inserted	Existed	
	11	Intelligent Key removed	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key slot. Refer to <u>DLK-286</u>, "Removal and Installation".

KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

KEY SLOT ILLUMINATION

Description INFOID:000000005239605

Blinks when Intelligent Key insertion is required.

Component Function Check

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 <u>DLK-103, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK FUSE

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.

	(+) y slot	(-)	Condition	Key slot illumination	Voltage (V) (Approx.)
Connector	Terminal				(11 -)
M22	6	Ground	Intelligent Key inserted	OFF	Battery voltage
IVIZZ	6	Ground	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.

В	CM	Key	Key slot	
Connector	Terminal	Connector	Terminal	Continuity
M122	92	M22	6	Existed

3. Check continuity between BCM harness connector and ground.

В	СМ		Continuity
Connector	Terminal	Ground	Continuity
M122	92		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-83, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK KEY SLOT POWER SUPPLY CIRCUIT

1. Disconnect key slot connector.

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KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

Check voltage between key slot harness connector and ground.

(-	(+)		V I 00
Key	slot	(–)	Voltage (V) (Approx.)
Connector	Terminal		, , ,
M22	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key	/ slot		Continuity
Connector	Terminal	Ground	Continuity
M22	7		Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK KEY SLOT

Refer to DLK-104, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace key slot. Refer to <u>DLK-286, "Removal and Installation"</u>.

7. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005239608

- 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 <u>DLK-286, "Removal and Installation"</u>.

HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HORN FUNCTION

Description

Perform answer-back for each operation using horn.

Component Function Check

1.CHECK FUNCTION

- Select "HORN" in "ACTIVE TEST" mode using CONSULT-III.
- Check the horn (high/low) operation.

Test	item	Desc	ription
HORN	ON	Horn relay	ON (for 20 ms)

Is the operation normal?

YES >> Horn function is OK.

NO >> Refer to <u>DLK-105</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK HORN SWITCH

Check horn function using horn switch

Do the horns sound?

YES >> GO TO 2.

NO >> Refer to <u>HRN-2</u>, "Wiring <u>Diagram - HORN -"</u>.

2.CHECK HORN RELAY POWER SUPPLY

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

	(+) Horn relay		(–)		Test item	Voltage (V) (Approx.)
Coni	nector	Terminal	Ground			(45.5.3)
E11	Low	1	Giodila	HORN	ON	Battery voltage \rightarrow 0 \rightarrow Battery voltage
E18	High	3		HOKIN	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.

IPD	M E/R	Horn	relay	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E6	44	E11	1	Existed
LO	45	E18	3	LXISIEU

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

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HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

IP	DM E/R		Continuity
Connector	Terminal	Ground	Continuity
E6	44	Ground	Not existed
LO	45		NOT GXISTED

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

Is the inspection result normal?

>> INSPECTION END

COMBINATION METER DISPLAY FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION METER DISPLAY FUNCTION	А
Description INFOID:0000000005239612	Α
Displays each operation method guide and warning for system malfunction.	В
Component Function Check	
1. CHECK FUNCTION	С
Check the operation with ("LCD") in the Active Test.	
Is each warning displayed on meter display?	D
Is the inspection result normal? YES >> Meter display is OK. NO >> Refer to DLK-107, "Diagnosis Procedure".	Е
Diagnosis Procedure	
Diagnosis Procedure 1. CHECK COMBINATION METER	F
1.CHECK COMBINATION METER Refer to DLK-183, "DTC Index". Is the inspection result normal?	
1. CHECK COMBINATION METER Refer to DLK-183, "DTC Index".	F
1. CHECK COMBINATION METER Refer to DLK-183, "DTC Index". Is the inspection result normal? YES >> GO TO 2. NO >> Check combination meter. Refer to MWI-4, "Work flow".	F G
1.CHECK COMBINATION METER Refer to DLK-183, "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	F G

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Revision: 2009 August **DLK-107** 2010 FX35/FX50

BUZZER (COMBINATION METER)

< DTC/CIRCUIT DIAGNOSIS >

BUZZER (COMBINATION METER)

Description INFOID:0000000005239615

Performs operation method guide and warning using buzzer.

Component Function Check

INFOID:0000000005239616

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 <u>DLK-108</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000005239617

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-36, "Intermittent Incident".

>> INSPECTION END

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

KEY WARNING LAMP Α Description INFOID:0000000005239618 Performs operation method guide and warning together using buzzer. В Component Function Check INFOID:0000000005239619 1. CHECK FUNCTION Check the operation with "INDICATOR" in "Active Test" mode using CONSULT-III. D Test item Condition **RED ON** Key warning lamp (red) illuminates **INDICATOR RED IND** Key warning lamp (red) blinks Е Is the inspection result normal? YES >> Key warning lamp in combination meter is OK. >> Refer to <u>DLK-109</u>, "<u>Diagnosis Procedure</u>". NO F Diagnosis Procedure INFOID:0000000005239620 1. CHECK KEY WARNING LAMP Refer to MWI-43, "Diagnosis Description". Is the inspection result normal? Н YES >> GO TO 2. NO >> Repair or replace harness. 2. CHECK INTERMITTENT INCIDENT Refer to GI-36, "Intermittent Incident". J >> INSPECTION END

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DLK-109 Revision: 2009 August 2010 FX35/FX50

HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

DescriptionINFOID:0000000005239621

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

Component Function Check

INFOID:0000000005239622

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 <u>DLK-110</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000005239623

1. CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-122, "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-36, "Intermittent Incident".

>> INSPECTION END

OPEN SWITCH

Description INFOID:0000000005239624

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

Diagnosis Procedure

1. CHECK BACK DOOR CONTROL UNIT OUTPUT

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

(+) Back door lock assembly			Voltage (V) (Approx.)	
		(–)		
Connector	Terminal		(11 - 7	
D122	4	Ground	Battery voltage	

Is the inspection result normal?

>> GO TO 3. YES

NO >> GO TO 2.

2.check open switch circuit

- Disconnect back door control unit connector.
- Check continuity between back door control unit harness connector and back door lock assembly harness connector.

Back door	Back door control unit		Back door lock assembly		
Connector	Terminal	Connector Terminal		Continuity	
D123	5	D122	4	Existed	

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

Back door control unit			Continuity
Connector Terminal		Ground	Continuity
D123	5		Not existed

Is the inspection result normal?

YES >> Replace back door control unit. Refer to DLK-285, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK OPEN SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly connector and ground.

Back door lock as	sembly		Continuity
Connector Terminal		Ground	Continuity
D122	8		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK OPEN SWITCH

Refer to DLK-112, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to DLK-277, "Removal and Installation".

DLK-111 Revision: 2009 August 2010 FX35/FX50

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OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

5.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005239626

COMPONENT INSPECTION

1. CHECK OPEN SWITCH

Check back door lock assembly (open switch).

Terminal		Condition		Continuity
Back door lock assembly (open switch)				Continuity
4	0	Back door lock	Open	Existed
4	0	DACK GOOT TOCK	Fully closed/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to <u>DLK-277. "Removal and Installation"</u>.

CLOSE SWITCH

Description

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

Diagnosis Procedure

INFOID:0000000005239628

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1. CHECK BACK DOOR CONTROL UNIT OUTPUT SIGNAL

- 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 (V) (Approx.)	
Connector	Terminal			
D123	5	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check close switch circuit

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

Back door co	Back door control unit		Back door lock assembly	
Connector	Terminal	Connector Terminal		Continuity
D123	1	D122	5	Existed

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

Back door control unit			Continuity
Connector	Terminal	Ground	Continuity
D123	1		Not existed

Is the inspection result normal?

YES >> Replace back door control unit. Refer to <u>DLK-285, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK CLOSE SWITCH GROUND CIRCUIT

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

Back door lock assembly			Continuity
Connector Terminal		Ground	Continuity
D122	8		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK CLOSE SWITCH

Refer to DLK-114, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to <u>DLK-277, "Removal and Installation"</u>.

Revision: 2009 August **DLK-113** 2010 FX35/FX50

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CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

5.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005239629

COMPONENT INSPECTION

1. CHECK CLOSE SWITCH

Check back door lock assembly (close switch).

Terminal		Condition		Continuity
Back door lock ass	Back door lock assembly (close switch)			
E	0	Pook door look position	Fully closed	Existed
5	0	Back door lock position	Open/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to <u>DLK-277</u>. "Removal and Installation".

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

HALF LATCH SWITCH

Description INFOID:000000005239630

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

Diagnosis Procedure

INFOID:0000000005239631

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1. CHECK BACK DOOR CONTROL UNIT OUTPUT

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

(–)			V-16 (A.1)	
Half late	ch switch	(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
D122	6	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HALF LATCH SWITCH CIRCUIT

- Disconnect back door control unit connector.
- Check continuity between back door control unit harness connector.

Back door	Back door control unit		Back door lock assembly	
Connector	Terminal	Connector Terminal		Continuity
D123	2	D122	6	Existed

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

Back door	control unit		Continuity
Connector	Terminal	Ground	Continuity
D123	2		Not existed

Is the inspection result normal?

YES >> Replace back door control unit. Refer to <u>DLK-285, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

Back door lock	assembly		Continuity
Connector	Terminal	Ground	Continuity
D122	8		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK HALF LATCH SWITCH

Refer to DLK-116, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to DLK-277, "Removal and Installation". DLK

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HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

5.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005239632

COMPONENT INSPECTION

1. CHECK HALF LATCH SWITCH

Check back door lock assembly (half latch switch).

Term	inal	Back door lock position	Continuity
Back door lock assembly (h	alf latch switch) connector	Back door lock position	Continuity
6	Q	Open	Existed
O	0	Fully closed/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to <u>DLK-277. "Removal and Installation"</u>.

BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR CLOSURE MOTOR

Description INFOID:0000000005239633

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

Diagnosis Procedure

1. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

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

Back door c	ontrol unit	Back door loo	ck assembly	Continuity
Connector	Terminal	Connector	Terminal	- Continuity
	4		1	Not existed
D123	4	D122	2	Existed
D123	10	D122	1	Existed
	10		2	Not existed

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

Back door co	ntrol unit		Continuity
Connector	Terminal	Ground	Continuity
D123	4	Ground	Not existed
D123	10		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.check back door closure motor circuit

- Connect back door control unit connector and back door lock assembly connector.
- Check voltage between back door unit harness connector and ground.

(+ Back door o		(-)	Cond	lition	Voltage (V) (Approx.)
Connector	Terminal				()
	4			Close operation	Battery voltage
D123	4	Ground	Back door closure	Other than above	0
D123	10	Giodila	Back door closure	Open operation	Battery voltage
	10			Other than above	0

Is the inspection result normal?

>> Replace back door lock assembly. Refer to <u>DLK-277, "Removal and Installation"</u>. >> Replace back door control unit. Refer to <u>DLK-285, "Removal and Installation"</u>. YES

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INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER

Description INFOID:000000005239635

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:0000000005239636

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 <u>DLK-118</u>, "<u>Diagnosis Procedure</u>".

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.

>> Replace auto anti-dazzling inside mirror (homelink universal transceiver). Refer to MIR-77, "Removal and Installation" (with ADP) or MIR-99, "Removal and Installation" (Without ADP).

Diagnosis Procedure

NO

INFOID:0000000005239637

1. CHECK POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect auto anti-dazzling inside mirror (homelink universal transceiver) connector.
- 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	Terr	ninal	Condition	Voltage (V) (Approx.)
R3	10	Ground	Ignition switch position: OFF	Battery voltage
No	6	Ground	Ignition switch position: ON	Battery voltage

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.

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INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

Auto anti-dazzling inside mirror (Homelink universal transceiver) connector	Terminal	Ground	Continuity
R3	8		Existed
the inspection result normal?			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

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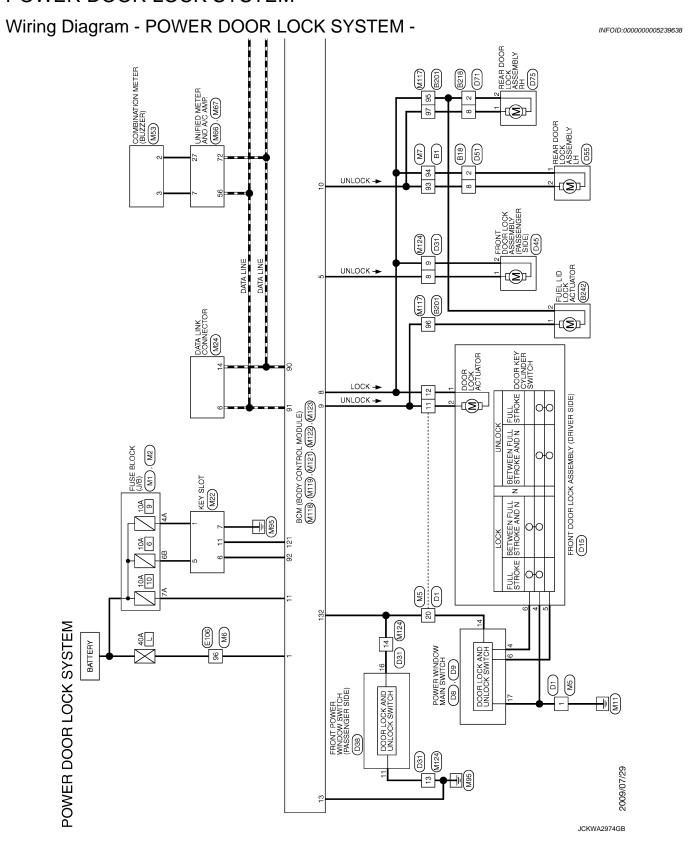
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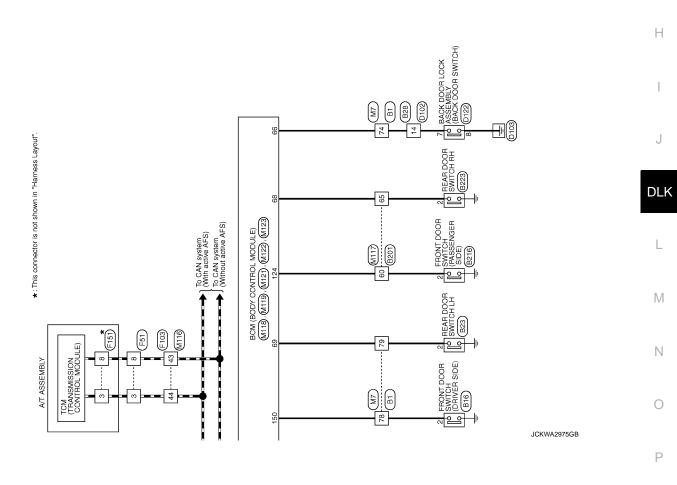
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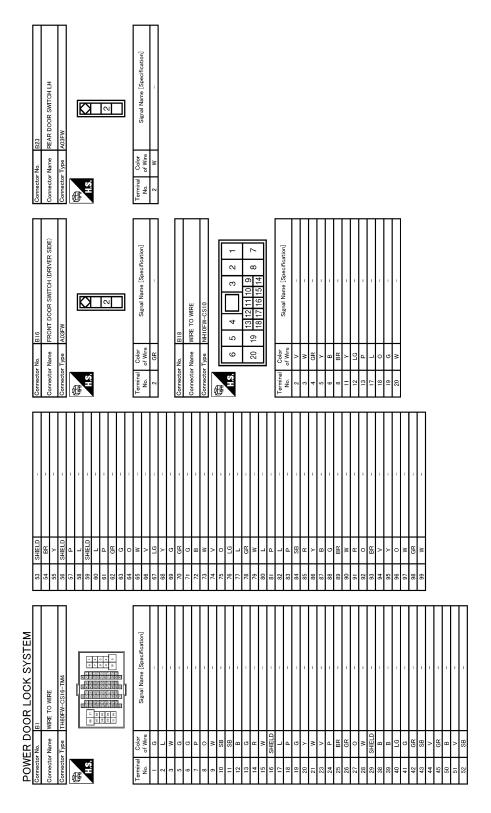
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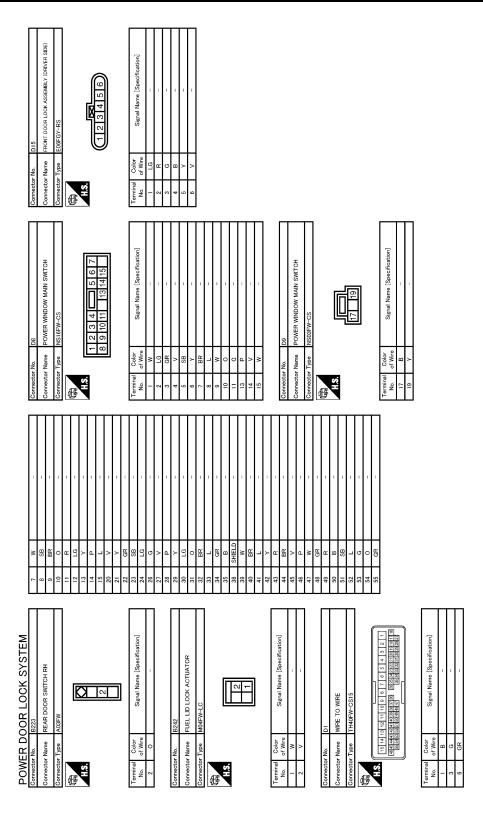


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R L O	MIDE TO MIDE		HZ4MW-NH			1	Iح	7 0	의				Signa																														WIRE TO WIRE	0100	H8UFW-CS18		100		0 PE	2 : 2 :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 2			Signa														1	N
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POWER DOOR LOCK SYSTEM	Connector No.	- Administration	nector 1y	•	Ţ	H.S.	<u> </u>	17	<u>-1</u>	I			No. of		1	2	3	4 SHI	2	9	t	t	+	n :	7	4	13 (L	L	L	10	+	+	+	22 G	23			Connector No.		Connector Name	F	mector 1 y	•	Ţ	E.S.	1					-	Terminal Co	5													(0
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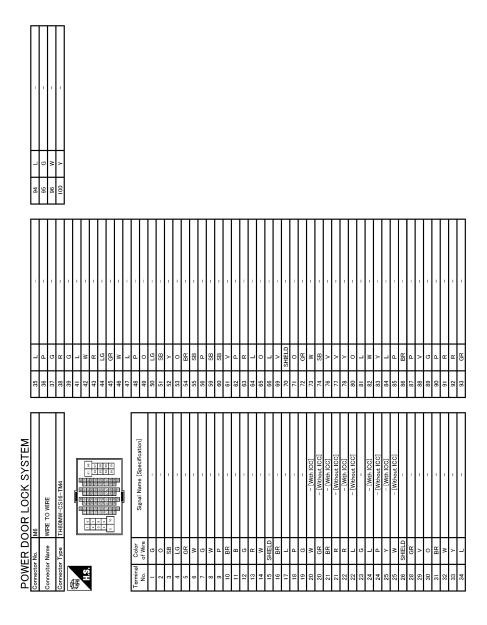
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3 4 5 6 9 10 1112 13 19 20 14 15 16 14 15 16 17 18	Signal Name [Specification]		В
D711 WIRI	D75 REAR DC E06FGY-		С
Connector No. Connector Name Connector Type H.S.	Colorector No. Colorector Type Colo		D
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TO WIRE OMW-CS10 3	Signal Name [Specification]		F
NHII NHII			G
Connector No. Connector Type Connector Type H.S.	Connector None Connector Type Conn		Н
DSB NSFIGHW-CS NSFIGHW-CS 3 4	Signal Name (Specification)		I
D38 FRONT POWER WINDOW NS16FW-CS 3 4	Signal NA Signal NA Signal NA	_	J
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POWER DOOR LOCK SYSTEM Connector Name WIRE TO WIRE Connector Type TH40FW-CS15	Signal Name [Specification]		M
DOOR LOC D31 WIRE TO WIRE TH40FW-CS15 T13 [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]			Ν
Connector No. Connector Name Connector Type Connect	Color No. in all Color Color		0
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POWER DOOR LOCK SYSTEM										
Connector No. D102	-	- ^	2	26 SHIELD	- Q71		98	Ь	=	
Connector Name MIRE TO WIRE	2	B	2	28 G	1		87	W	1	
Confidence name to wine	4		2	29 LG			88	0	-	
Connector Type TH24FW-NH	5		30	Н	-		88	5T	_	
ģ	9	- 0	31	1 BR			90	BR	-	
做为	7	SB -	32	2 W	-		91	GR	-	
7	80	- В	8	33 \	-		95	BR	-	
10 11 10 0 2 0 1			6	34 0	ı		93	SB	1	
12 11 10 9 8 7 0 0 4 3 2 1			e	35 SB			94	W	1	
24 23 22 21 20 19 18 17 16 15 14 13	Connector No.	No. E106	[e	36 P	1		92	\	1	
		Г	37	H	1		96	W	1	
	Connector Name	Name WIRE TO WIRE	8	38 GR			100	>	1	
Terminal Color Similar Color	Connector Type	Type TH80FW-CS16-TM4	e e	39 FG	1					
	(I LG	-					
- 0	F		42	H	I		Connector No.	tor No.	F51	
2 L	S I	11 12 13 13 13 13 13 13 13 13 13 13 13 13 13	4	43 R	1		Ļ			
3 ×			4		1		Connec	Connector Name	A/ I ASSEMBLT	
4 SHELD -			4	45 GR	١ ~		Connec	Connector Type	RK10FG-DGY	
			4	46 W			9			
- 9			47	7			F		•	
H			. 4	48 P			<u> </u>		«	
	Terminal	Color		F			4	_	1	
1 3	Ž	Signal Name [Specification]	1	ł		Ī			(5 4 3 2 1)	
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* :	7		7	+						
13 W	m		6	+	1			ŀ		
14 SB –	4		2	+	ī		Termina		Signal Name [Specification]	
+	2	Υ .	2	55 SB			No.	of Wire		
16 R –	9		5	56 P	-		-	Υ	_	
- V L1	7	- 5	2	59 P	-		2	ч	- [With VK engine]	
R	8	۰ ۸	09	BS 0			2	BR	- [With VQ engine]	
- d 61	6	1	19	۱ ۸	ı		က	٦	1	
20 0 -	10	BR -	62	2 P	-		4	۸	-	
L	11	- B	9	93 FG	-		2	В	1	
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23 L –	13	١	9	65	1		_	œ	1	
	14		9	7 99	1		∞	а	1	
	15	SHIELD -	69	1 6	1		6	PT	- [With VK engine]	
Connector No. D122	16		_	70 SHIELD	-		o	GR	- [With VQ engine]	
	17	-	17	<u>۔</u>	1		2	m		
Connector Name BACK DUOK LUCK ASSEMBLY	18	-	7.	72 G	1					
Connector Type NS08FW-CS	61	-	-	H	1					
	50	W - [With ICC]	<u>-</u>	F	~					
修	50	J -	14	H	1					
5	21	BR -	7	W 77	1					
1 0	22	R – [With ICC]	12	78 Y						
45678	22	V - [Without ICC]	8	80 SB						
	23	- ·	81	Н	-					
	24	L - [With ICC]	82	2 W	_					
	24	P - [Without ICC]	80	H						
Terminal Color Signal Nama [Sanaiffaction]	25	Y – [With ICC]	8	84 GR						
of Wire	52	L - [Without ICC]	8	H	-					

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Name FUSE BLOCK (J/B) NSIOF-W-CS	F
No.	G
Connector No.	Н
FISI TOM (TRANSMISSION CONTROL MODULE)	I
FF151 TOM TTPANSANSSION OF SEPURE Sepural Name Sepural Nam	J
Connector No. Connector No. Connector Name Color No. Color No. Color No. Color No. Connector Type Connector No. Connector	DLK
s	L
Connector Name MRE TO WIRE	M
WINE TO WINE TKAGEW-NS10 Signal 1	Ν
Colonector Name Colonector	0
POWN Commercial Commer	
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< DTC/CIRCUIT DIAGNOSIS >

Connector No.	ER DOO	POWER DOOR LOCK SYSTEM Connector No. M7 Connector Name WIRE TO WIRE		53 SHI 54 E	SHIELD BR Y			Connector No. Connector Name	M22 KEY SLOT		Connector No. Connector Name	M53 COMBINATION METER	ER	
Connector Type	11	TH80MW-CS 16-TM44	T	 	SHIELD SHIELD R R R R R C C C C C C C C C C C C C C			Connector Type	П		Connector Type H.S. H.S. Electrical States and States a	Type TH40FW-NH TH20FW-NH T 2 8 6 7 0 11 E12 8 6 7 0 0 11	14 15 16 20 40 40	Π _
7 orminal No. m.	C C B B R C C C B B C C C C C C C C C C	Signal Name (Specification)		 				No. of Wire No. of Wire	M24 M24 UN PATA UN PAT	Signal Name [Specification] BAT CLOCK DATA ILL BAT ILL DATA ILL BAT ILL CONNECTOR CONNECTOR	No. of Wheeler No.		Signal Name [Specification] BATTERY POWER SUPPLY COMMUNICATION SIGNAL (METRE-NAME) GROUND ALTERATOR SIGNAL ALTERATOR SIGNAL ARE BAG SIGNAL SECHETY INDICATOR SIGNAL GROUND METER CONTROL SWITCH GROUND GROUND WENTER STATION SIGNAL (GP-PULSE) FARARION BERAGE SIPPLY GROUND COMMUNICATION SIGNAL (GP-PULSE) FARARION BERAGE SIPPLY GROUND VEHICLE SPEED SIGNAL (GP-PULSE) FARARION BERAGE SUPPLY SIGNAL SELECT SWITCH SIGNAL SELECT SWITCH SIGNAL TERP AN GREET SWITCH SIGNAL TERP AN GREET SWITCH SIGNAL TERP SWITCH SWITCH SIGNAL TERP SWITCH SWITCH SIGNAL TERP SWITCH SWITCH SWITCH SWITCH SWITCH SWITCH SWITCH SWITCH SWIT	AL (+)
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PO	ER D	POWER DOOR LOCK SYSTEM						
Connector No.	or No.	M66	45	Ь	AMBIENT SENSOR SIGNAL	27	٦	
Connects	Connector Name	UNIFIED METER AND A/G AMP.	46	0	SUNLOAD SENSOR SIGNAL	28		
			47	>	GAS SENSOR SIGNAL	59	re	1
Connector Type	or Type	TH40FW-NH	53	g	IGNITION POWER SUPPLY	31	W	
q			54	0	BATTERY POWER SUPPLY	34	LG	
THE PERSON NAMED IN			55	В	GROUND	35	BR	_
H.S.			56	_	CAN-H	36	W	1
	•	1	57	W	BRAKE FLUID LEVEL SWITCH SIGNAL	37	Α.	_
	8 8	4 5 6 7 8 9 10 11 14 15 16 20	28	В	FUEL LEVEL SENSOR GROUND	38	. 0	
	07 77 17	00 00 40 00 00 00 00 00 00 00 00 00 00 0	29	ЗĐ	INTAKE SENSOR GROUND	43	Ь	1
			09	_	IN-VEHICLE SENSOR GROUND	44	7	
			19	BR	AMBIENT SENSOR GROUND	45	5	
Terminal	Color	[minimum of minimum of	62	SB	SUNLOAD SENSOR GROUND	46	٨	1
N	of Wire	olgnal Name [opecinication]	63	۳	ION MODE SIGNAL			
4	۵	STOP LAMP SWITCH SIGNAL	65	0	ECV SIGNAL			
2	7	MANUAL MODE SHIFT UP SIGNAL	69	٦	A/C LAN SIGNAL			
9	0	PADDLE SHIFTER UP SIGNAL	70	ď	EACH DOOR MOTOR POWER SUPPLY			
7	g	COMMUNICATION SIGNAL (AMP>METER)	7.1	В	GROUND			
00	_	VEHICLE SPEED SIGNAL (2-PULSE)	72	۵	CAN-L			
6	SB	FRONT SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)						
01	W	MANUAL MODE SIGNAL						
Ξ	g	NON-MANUAL MODE SIGNAL	Connector No.	r No.	M116			
14	H	COMMUNICATION SIGNAL (LCD->AMP.)			LOWN OF LOWN			
20	_	ION SENSOR SIGNAL	Connector Name	r Name	WIRE TO WIRE			
23	>	AT SNOW SWITCH SIGNAL	Connector Type		TK36MW-NS10			
25	>	MANUAL MODE SHIFT DOWN SIGNAL	9					
56	G	PADDLE SHIFTER DOWN SIGNAL	ほ					
27	PT PT	COMMUNICATION SIGNAL (METER->AMP.)	Si					
28	~	VEHICLE SPEED SIGNAL (8-PULSE)		1 2 3 4	11 12 18 18 18 18 18 18 18 18 18 18 18 18 18			
30	^	PARKING BRAKE SWITCH SIGNAL		6 7 8 9 10	10 21222323433828232828			
34	Υ	COMMUNICATION SIGNAL (AMP>LCD)						
38	_	BLOWER MOTOR CONTROL SIGNAL						
١			Terminal	Color	Signal Name [Specification]			
Connector No.	or No.	M67	Ö.	or wire				
Connect	Connector Name	UNIFIED METER AND A/C AMP.	- (n 3	1			
Connector Time	or Two	TU325W-NID	7 0	Λ-	1 1			
		100	,	, ,	- Dagata VVV			
13			. 4	2 2	- [With VQ engine]			
Y			· uc	2	- [With VK engine]			
		7	5	В	- [With VQ engine]			
	41 42 43	41 42 43 44 45 46 47 53 54 55 56	9	œ				
	57 58 59	9 60 61 62 63 65 65 69 70 71 72	7	В	1			
			6	٦	- [With VK engine]			
			6	۳	- [With VQ engine]			
Terminal	⊢	Signal Name [Specification]	10	ч	-			
No.	of Wire		17	LG	-			
41	^	ACC POWER SUPPLY	18	ď	_			
42	>	FUEL LEVEL SENSOR SIGNAL	19	0	1			
43	œ	INTAKE SENSOR SIGNAL	20	≻	1			
44	_	IN-VEHICLE SENSOR SIGNAL	26	>				

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< DTC/CIRCUIT DIAGNOSIS >

NO N	А
M121 THAGFGY-NH THAGFGY-NH Signal Name [Speeification] Signal Name [Speeification] LUGGAGE ROOM ANT- LUGGAGE ROOM ANT- LUGGAGE ROOM ANT- LUGGAGE ROOM ANT- BACK DOOR OPENIR REQUEST SW HEW WANN BUZZER (END ROOM) REAR WIDER STOP POSITION BACK DOOR OPENIR REQUEST SW REAR IN DOOR SW REAR IN DOOR SW REAR IN DOOR SW REAR IN DOOR SW REAR LH DOOR SW	В
	С
19 19 19 19 19 19 19 19	D
MM3FB-LC Signal Name [Specification] BOM (BODY CONTROL MODULE) MASFB-LC AND BOWER WINDOW POWER SUPPLY (BAT) POWER WINDOW POWER SUPPLY (BAT) BOM (BODY CONTROL MODULE) MI 19 BCM (BODY CONTROL MODULE) MI 19 Signal Name [Specification] MI 19 BCM (BODY CONTROL MODULE) MI 19 Signal Name [Specification] MI 19 BCM (BODY CONTROL MODULE) MI 19 Signal Name [Specification] MI 19 BCM (BODY CONTROL MODULE) MI 19 Signal Name [Specification] MI 19 Signal Name [Specification] MI 19 MI 19 Signal Name [Specification] MI 19 SIGNAL LIA LOCK CUITPUT BCM (BODY CONTROL MODULE) ACC NAD ACC NAD TURN SIGNAL LIA (FRONT) TURN SIGNAL LIA (FRONT)	Е
MITS BOM (BODY CONTROL MODULE) MAGFB-LC BAT (FC/L) POWER WINDOW POWER SUPPLY (BAT) BOM (BODY CONTROL MODULE) NSIGFW-CS WITHOUT Signal Name [Specification] NSIGFW-CS NSIGFW-CS NSIGFW-CS Signal Name [Specification] NSIGFW-CS Signal Name [Specification] NT (POST DEL LOX COUPPUT DRIVER DOOR UNLOCK OUTPUT DRIVER DOOR UNLOCK OUTPUT ALL DOOR FUEL LID LOX COUPPUT ALL DOOR FUEL LID LOX COUPPU	F
	G
100 V 100	Н
- [With LCC] - [Without LCC] -	I
Withold	J
	DL
2 2 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Part System] ment system]	L
When the intertainment system - [With out entertainment system] - [Without entertainment system]	М
WIRE TO WIRE THBOWN-OSIG-TNA Signal Name Signal Name Signal Name With botte enter With botte With botte With content Wi	N
Connector Name WIRE TO WIRE	0
JC	жwa2985GB Р

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PON		POWER DOOR LOCK SYSTEM		[00777				
Connector No.	or No.	M122	Connector No.	r No.	M123	4	5 D	1	7
Connect	Connector Name	BCM (BODY CONTROL MODULE)	Connector Name	r Name	BCM (BODY CONTROL MODULE)	2	es :	1	
						9	ä	1	_
Connect	Connector Type	TH40FB-NH	Connector Type	r Type	TH40FG-NH	7	g	I	_
đĮ			ąĮ.			00	>	T	_
1			李			o	<u>9</u>	I	
H.S.			H.S.			13	m	1	
	00 00 00	7 (1) (2) (2) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		601 603 603	Control and the last first less feet feet feet feet feet feet feet f	14	0	I	_
	111 110 109			151 150 149 14		12	> (1	-
						- 61	5	1	
						50	P	1	
						21	SHELD	I	_
Terminal		Signal Name [Specification]	Terminal	Color	Signal Name [Specification]	55	×	T	
No.	of Wire		No.	of Wire		23	<u></u>	1	-
72	œ	ROOM ANT2-	112	æ	RAIN SENSOR SERIAL LINK	24	ŋ	ı	_
73	g	ROOM ANT2+	113	а	OPLICAL SENSOR	25	>	1	_
74	SB	PASSENGER DOOR ANT-	116	BR	STOP LAMP SW 1	26	œ	_	
75	BR	PASSENGER DOOR ANT+	118	Ф	STOP LAMP SW 2	31	0	_	
9/	>	DRIVER DOOR ANT-	119	SB	DR DOOR UNLOCK SENSOR	32	٨	ī	
77	97	DRIVER DOOR ANT+	121	ВR	KEY SLOT SW	33	97	1	
78	>	ROOM ANTI-	123	М	IGN F/B	34	æ	1	
79	띪	ROOM ANT1+	124	P	PASSENGER DOOR SW	35	>	1	_
80	æ	NATS ANT AMP.	132	0	POWER WINDOW SW COMM	36	٥	ī	_
81	*	NATS ANT AMP.	134	GR	LOCK IND	37	æ	1	_
82	۵	IGN RELAY (F/B) CONT	137		RECEIVER/SENSOR GND	38	~	- [With automatic drive positioner]	_
88	g	KEYLESS ENTRY RECEIVER SIGNAL	138	>	SENSOR POWER SUPPLY	38	U	- [Without automatic drive positioner]	_
87	æ	COMRISM INDIT 5	140	۵	d/N Talks	36	α		_
8	ś >	COMBI SW INDITE	141	2 ر	SECURITY INDICATOR OUTPUT	8 9	۵ ۵	п	$\overline{}$
80	g	MS HSIId	142	c	COMBI SW OUTBILL 5	41	۵	1	_
G	9 0	HNAC	143	۵	COMBI SW OUTBUT 1	. 42	_ c	1	_
6	-	H-NAC	144		COMBLSW OUTPUT 2	: 43	-	1	т
65	٥	KEY SLOT II I	145	[-	COMBLSW OUTPILE 3	44	>	1	т
88	>	dNI NO	146	87.	COMBI SW OUTPUT 4	45	_	1	т
35	c	ACC RELAY CONT	150	e e	DRIVER DOOR SW	46	*	1	т
96	g	A/T SHIFT SELECTOR POWER SLIPPLY	151	٣	REAR WINDOW DEFORGER RELAY CONT				٦.
97	-	S/L CONDITION 1							
86	۵	S/I CONDITION 2							
66	۵	SHIFT P	Connector No.	r No.	M124				
100	U	PASSENGER DOOR REQUEST SW							
0	g	DRIVER DOOR REQUEST SW	Connector Name	r Name	WIRE TO WIRE				
102	0	BLOWER FAN MOTOR RELAY CONT	Connector Type	r Type	TH40MW-CS15				
103	æ	KEYLESS ENTRY RECEIVER POWER SUPPLY	ſ						
106	>	S/L UNIT POWER SUPPLY	E						
107	9	COMBI SW INPUT 1	Į.						
108	œ	COMBI SW INPUT 4		1 2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15				
109	>	COMBI SW INPUT 2		16 17 18 19	17 18 19 20 21 22 23 24 25 26 36 37 38 39 40 41 42 43 44 45 46				
110	g	HAZARD SW		272829	30[31]32[33[34]35 [47]48[49[50[51]52[53[54[55]				
-	9	WWO THINK							
	5								
			Terminal No.	Color of Wire	Signal Name [Specification]				
			6	>	1				
			,						

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< DTC/CIRCUIT DIAGNOSIS > **INTELLIGENT KEY SYSTEM** Α Wiring Diagram - INTELLIGENT KEY SYSTEM -INFOID:0000000005239639 DATA LINK CONNECTOR (M24) В C To CAN system (With active AFS) To CAN system (Without active AFS) D COMBINATION METER (M53) FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA) (M3) Е FUSE BLOCK (J/B) (M1), (M2),(^{EZZ}E F UNIFIED METER CONTROL UNIT **√** KEY 10A M123 BCM (BODY CONTROL MODULE) (M118), (M119), (M120), (M122), Н IGNITION SWITCH ON or START 10A UNIFIED METER AND A/C AMP. (M66) (M67) IGNITION SWITCH ACC or ON 10A J KEY SLOT DLK 10**A** L INTELLIGENT KEY SYSTEM M

E106 M6

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M6

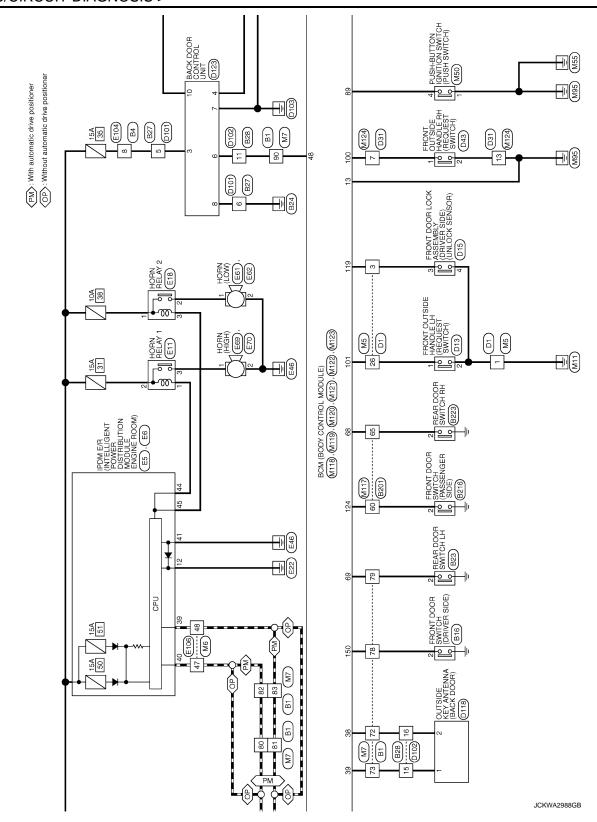
96 Me Me

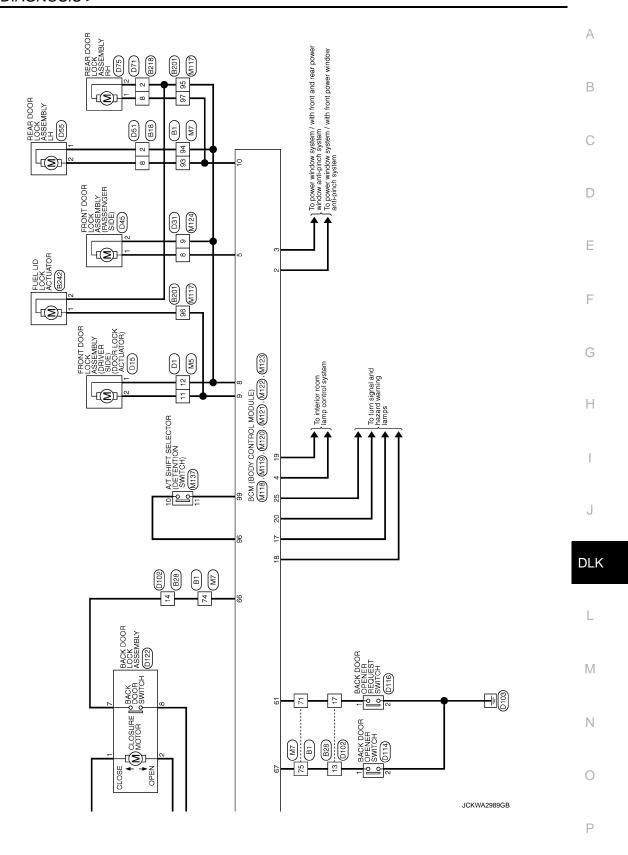
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BATTERY



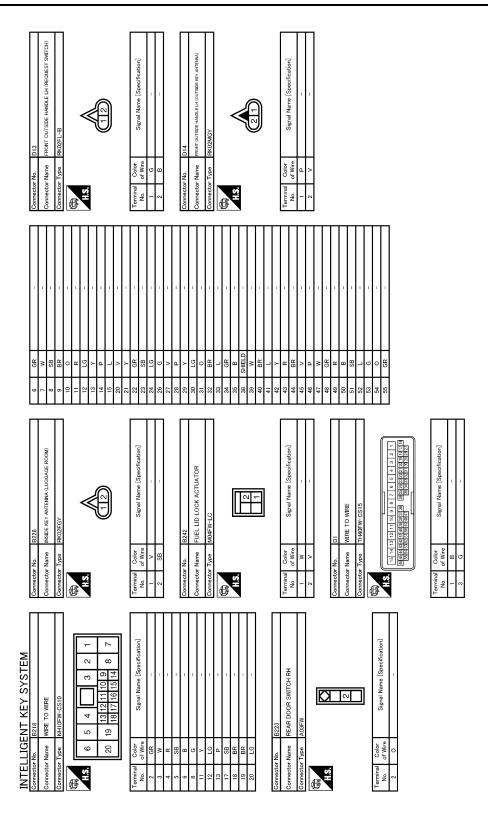


	Connector No. B18	Connector Name WIRE TO WIRE	Connector Type NH10FW-CS10	€	, 	10	7 6	20 19 12 15 16 19	41 01 01 /1 01		la l	No. of Wire) M	× 5 4	t	ł	H		- 12 LG -	- 13 P	- 1 1 -	- 0 81 -	- C	Н		_	Connector No. B23	Connector Name REAR DOOR SWITCH LH	т	Connector Type AUSHW				0		Signal Name [Specification]		Terminal Color Signal Name [Specification]	of Wire	2 W -							
Γ	Connector No. B4	Connector Name WIRE TO WIRE	- Connector Type NS12FW-CS	-		5 4 3	0 4 7	0	1		nal Color	e.	A >	7 6	t	- S	φ	8	H	- 10 BR	- 11 0	- 12 GR			- Connector No. B16	- FRONT DOOP SWITCH (DRIVER SIDE)	_	Connector Type A03FW				c	-		-	Color	or wire	= 2 GR		1							
ı	7	54 BR	Ś	57 P	59 SHIFT D	7 09	61 P	Ė	H	Н	4	+) /9 /8	- 0	F	╁	L	73 W	┞	75 0	76 LG	Н	78 GR	Н	80 F	81 P	H	+	+	85 X > 30	╀	H	89 BR	M 06	+	+	93 BR	+	+		+	98 GR	Н				
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DLK-137 Revision: 2009 August 2010 FX35/FX50



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Revision: 2009 August **DLK-139** 2010 FX35/FX50

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Commector Type E06FGY-RS	Connector Type TTP24FW-NH	Connector No. D116 Connector Name BACK DOOR OPENER REQUEST SWITCH	5 4 7 6
	121110 9 8 7 6 5 4 3 2 1 242322212019181716151413	Connector Type TK02MER-P	2 SB
			Connector No. D123
Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	12	
5 -	5		Connector Type NSI0FW-CS
2	3 7		•
Н	SHIELD	No. of Wire Signal Name [Specification]	S.
	T 0	2 B	5 6 7 8 10
Connector No. D101	× · ·		2 1 2
Connector Name WIRE TO WIRE	J &	Connector No. D118	
Connector Type M06FW-LC	10 SHIELD -	و ا	la
•	11 W	Т	No. of Wire
<u> </u>	+		2 0 HALF SW
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SB	Connector No. D114	l	
6 GR = -	Connector Name BACK DOOR OPENER SWITCH	Connector No. D122	
	Connector Type TK02MBR-P	e e	
	匮	Connector Type NS08FW-CS	
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Connector No. E70 Connector Type POIFE-A Terminal Color Name Signal Name [Specification] Connector Type RK09-BR Terminal Color Signal Name [Specification] Terminal Color Signal Name [Specification] Terminal Color Signal Name [Specification] To of Wee Signal Name [Specification] The Color Signal Name [Specification] The HX3-Terminal Color Signal Name [Specification] The Color Signal Name [Specification]	A B C
Connector Name HORN (LOW) Connector Type POIFB-A Terminal Color Name HORN (LOW) Connector Name HORN (HIGH) Connector Name Color Signal Name (Specification) Terminal Color Signal Name (Specification)	E F G
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INTELLIGENT KEY SYSTEM Connector No. Es Connector No. Es Connector No. Connector No. Connector Type Connector Type Connector Type Connector No. Connec	M N O
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DLK-141 Revision: 2009 August 2010 FX35/FX50

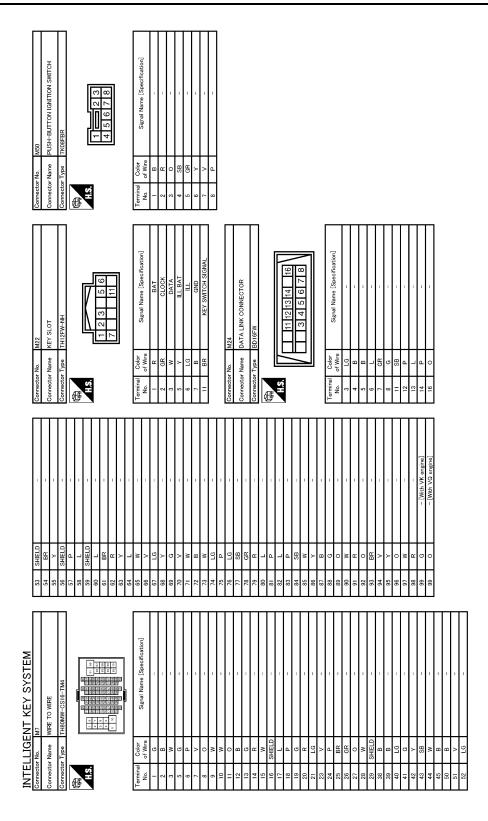
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Connector No. E104	12	g	1	64	_	-	7A R -
Connector Name WIRE TO WIRE	13	œ :	1	65	ο.	-	8A L –
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Connector Type NSTZMW-US	υ 6	SHELD SB	1 1	69	J H	1 1	Connector No M2
	2	-		2 7	t		Τ
	82	۵	1	72	0	1	Connector Name FUSE BLOCK (J/B)
123 - 45	19	g	1	73	⊦	ı	Connector Type NS10FW-CS
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lai	22	>	- [Without ICC]	80	SB	-	108 9B 8B 7B 6B 5B
re	23	ŋ	1	81	٦	1	
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5 R -	56	SHIELD		98		-	1B LG -
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8 SB -	59	97	-	88	0	-	4B G –
- 5T 6	30	0	1	88	-	1	- 0 89 O
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Connector No. E106	36	۵	-	92	H		
Connector Name WIRE TO WIRE	37	Υ	-	96	W	1	Connector No. M3
.	38	GR	-	100	Υ	_	Connector Name FLISE RL OCK (L/B)
Connector Type TH80FW-CS16-TM4	39	ΓG	-				
₫.	41	\dashv	1	Į			Connector Type NS12FW-CS
	45	+	1	Conne	Connector No.	M1	₫ <u></u>
	43	œ (11 1	Conne	Connector Name	FUSE BLOCK (J/B)	a Arthr
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nal Color	49	gg	1		9	3A2A 1A	
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500		MOS	00	2	MOO	9	٥	SHALL ON SENSOR SIGNAL
Connector Name	or Name	COMBINATION METER	Connector Name	r Name	UNIFIED METER AND A/C AMP.	ş Ç	>	GAS SENSOR SIGNAL
Connector Type	or Type	THADEW-NH	Connector Type	r Type	TH40FW-NH	23		Y Iddition power Stippi
			ľ			54	0	BATTERY POWER SUPPLY
修			修			22	ш	GROUND
(S)			S			26	٦	CAN-H
					7	22	М	BRAKE FLUID LEVEL SWITCH SIGNAL
	21 22 23 2-	5 6 7 10 11 14 15 16 14 25 26 27 28 29 30 31 33 34 36 37 38 39 40		21 22 23	25 26 27 28 30 34 36 38 40	28	ш	FUEL LEVEL SENSOR GROUND
						29	æ	INTAKE SENSOR GROUND
						9	٦	IN-VEHICLE SENSOR GROUND
	ı.					19	H	AMBIENT SENSOR GROUND
Terminal		Signal Name [Specification]	Terminal	Color	Signal Name [Specification]	62	SB	SUNLOAD SENSOR GROUND
No	of Wire		Ö.	of Wire		63	œ	ION MODE SIGNAL
-	0 9	BATTERY POWER SUPPLY	4 (١.	STOP LAMP SWITCH SIGNAL	65	ο.	ECV SIGNAL
7 0	2 8	COMMUNICATION SIGNAL (METER-) AMP.)	n	7	MANUAL MODE SHIFT OF SIGNAL	60 6	، ا	A/C LAN SIGNAL
2 4	5 0	COMMONICATION SIGNAL (AMP.: ZMETER)	م ه	9	COMMINICATION SIGNAL (AMP - METER)	2 2	r a	EACH DOOR MOTOR POWER SUPPLY
9	3	AI TERNATOR SIGNAL	- α	<u> </u>	VEHICLE SPEED SIGNAL (2-PLILSE)	72		CAN-
7	۵	AIR BAG SIGNAL	6	SB	FRONT SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)			
10	9	SECURITY INDICATOR SIGNAL	01	×	MANUAL MODE SIGNAL			
15	a	GROUND	Ξ	g	NON-MANUAL MODE SIGNAL	Connector No.	r No.	M104
16	В	METER CONTROL SWITCH GROUND	14	æ	COMMUNICATION SIGNAL (LCD->AMP.)		,	
21	۳	IGNITION POWER SUPPLY	20	7	ION SENSOR SIGNAL	Connector Name	r Name	REMOTE REYLESS ENTRY RECEIVER
22	В	GROUND	23	>	AT SNOW SWITCH SIGNAL	Connector Type	r Type	JAB04FB
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)	25	>	MANUAL MODE SHIFT DOWN SIGNAL	4		
25	>	COMMUNICATION SIGNAL (AMP>LCD)	26	g	PADDLE SHIFTER DOWN SIGNAL	厚		
26	٣	VEHICLE SPEED SIGNAL (8-PULSE)	27	PT	COMMUNICATION SIGNAL (METER->AMP.)	S		
27	^	PARKING BRAKE SWITCH SIGNAL	28	ч	VEHICLE SPEED SIGNAL (8-PULSE)			
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL	30	۸	PARKING BRAKE SWITCH SIGNAL			1 2 4
29	SB	SEAT BELT BUCKLE SW (DRIVER SIDE)	34	>	COMMUNICATION SIGNAL (AMP>LCD)			
30	ß	PASSENGER SEAT BELT WARNING SIGNAL	38	٦	BLOWER MOTOR CONTROL SIGNAL			
31	_	WASHER LEVEL SWITCH SIGNAL						
34	0	ILL CON OUT				Terminal	Color	Signal Name [Specification]
36	ΓG	SELECT SWITCH SIGNAL	Connector No.	r No.	M67	Š.	of Wire	
37	SB	ENTER SWITCH SIGNAL	Connector Name	r Name	UNIFIED METER AND A/C AMP.	-	œ	GND
38	_	TRIP A/B RESET SWITCH SIGNAL				2	S.	SIGNAL OUTPUT
39	۵	ILLUMINATION CONTROL SWITCH SIGNAL (-)	Connector Type	r Type	TH32FW-NH	4	BR	BATTERY
40	0	ILLUMINATION CONTROL SWITCH SIGNAL (+)	1					
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			No.	of Wire	Signal Name [Specification]			
			41	>	ACC POWER SUPPLY			
			42	>	FUEL LEVEL SENSOR SIGNAL			
			43	œ	INTAKE SENSOR SIGNAL			
			44	97	IN-VEHICLE SENSOR SIGNAL			

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INTELLIGENT KEY SYSTEM

Manual Control Contr		>		3		200	C KOOM LAMP LIMER
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Convector Type Conv	\$ 3 8 8 8 8 6 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 00	- [Without ICC]	+		Connector No.	M120
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Second Control Contr	8 8 8 8	ی لـ	- [Without ICC] - [Without ICC]	001		Connector Type	Т
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Secretarion	1	1	- [with ICC]	Connector Name	BCM (BODY CONTROL MODULE)	S.	70 00 00
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Si SHELD	- 49	۸	- [Without ICC]	S.			
Signal Name [Specification] Color Framinal Color Color	- 20	SHIEL	-		£	⊢	
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Signal Name Specification Connector Name Connecto	- 53	5	-				
Terminal Color C	- 54	٦	-			Н	
60 LG	28	۵	-	_			
1	09 -	ΓC	-				
Connector Type Fig. Conn	- 61	ч	-	1 W	BAT (F/L)	Connector No.	M121
Signature Commercial Name - 62	SB	-	Н	POWER WINDOW POWER SUPPLY (BAT)	Connector Nam		
Connector Type TH4 Connector Type - 63	^	-	_	POWER WINDOW POWER SUPPLY (RAP)	00000		
Second Branch	- 64	≻	I			Connector Type	Г
Signature Connector Name Connector	- 65	BR	ı			þ	
Signature Sign	99 –	0	-	Connector No.	M119	国	
Signature Commonton Comm		Α	_	Connector Name	BCM (BODY CONTROL MODILLE)	\ \ \	
13 15 15 15 15 15 15 15		SHIEL	- Q	COLLINGUID I VAILLE	DOM (DOD I COMINCE MODEL)		
1 SB		g	-	Connector Type	NS16FW-CS	27 77	47 46 45 44 43 67 66 65 64 63
13	17	S	1	4			
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1		PC	-			H	
Si		œ	-	_	Cimpl Name [Consideration]		
Signature Sign		٦	-		Ognal value Lobectication	47 Y	IGN RELAY (IPDM E/R) CONT
Sign Color Color		Y	-	4 P	INT ROOM LAMP PWR SUPPLY (BAT SAVE)		BK DOOR OPENER SW OPERATION
Secondary Seco	- 83	0	-	۶ ۸	PASSENGER DOOR UNLOCK OUTPUT		
S6 SB	- 84	W	-	7 Y	STEP LAMP OUTPUT		
S6 B 9 G DRIVER DOOR FLIEL LID UNLOCK OUTPUT 55 0	- 85	SB	-	> 8	ALL DOOR, FUEL LID LOCK OUTPUT	64 L	I-KEY WARN BUZZER (ENG ROOM)
10 BR REAR DOOR UNLOCK OUTPUT 56 LG	- 8	В	-	\dashv	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	Н	
91 L - 11 R BAT (FUSE) 67 P 92 L - - 13 B GND 68 BR 93 G - 15 Y ACCI ND 69 R 94 W - (With VK engins) 17 W TURN SIGNAL LRI (FRONT)	- 87	Ь	1		REAR DOOR UNLOCK OUTPUT		
92 L - 13 B GAND 68 BR 92 L - 15 Y ACC IND 69 R 94 W - (World VIX engine) 17 W TURN SIGNAL IR (FRONT)	- 91	_	1	_	BAT (FUSE)	_	
33 G - - 5 Y ACC IND 69 R 94 W - [With VK engine] 17 W TURN SIGNAL RH (FRONT)	- 92	-	1	+	GND	+	
94 W - [With VK engine] 17 W		g	1	+	ACC IND	┥	
		≯	- [With VK engine]	\dashv	TURN SIGNAL RH (FRONT)		

JCKWA3000GB

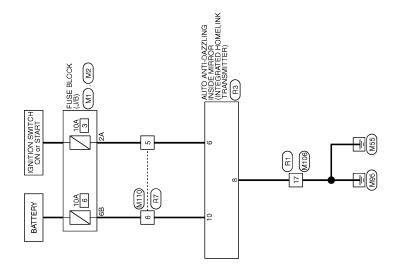
INTELLIGENT KEY SYSTEM

					Tu Tu	П				П											nd .	П]													А
	ELECTOR			10 11	Signal Name [Specification]	1			1 1	ı	. .			INSIDE KEY ANTENNA (CONSOLE)			«	(F	J		Signal Name [Specification]	1	1													В
M137	me A/T SHIFT SELECTOR	pe TH12FW-NH		2 8 6 8 2 1	Color Sign	. A	\ 	B 0	0 %	8 8 8	75 W		П		pe RK02FGY			T.	ע		Color Sign	5	ı ı													С
Connector No.	Connector Name	Connector Type	是 H.S.		Terminal O		3 2	5	7 8	Н	$^{\rm H}$		Connector No.	Connector Name	Connector Type	Œ	Ŧ.S.				Terminal O		2													D
												rive positioner]								ENT CENTER)								fication]								Е
1	1 1	1 1	1 1 1	1 1 1	1 1	1	1 1	1 1	1 1	1		th automatic d		1	1 1	1	1 1			INSIDE KEY ANTENNA (INSTRUMENT CENTER)			<	\triangleleft	(12)			Signal Name [Specification] -	1							F
<u></u>	B SB	5 >	C B B	, 5 9 7	SHELD W	a 5	> a	0 >	DI SB	8 > 0		15	8 0	: a	LG	- ×	œ 3	•	No. M131	_e	Т				_		-	color of Wire BR	>							G
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	. MODULE)			100 101 101 100 100 100 100 100 100 100	Specification]	SERIAL LINK	SENSOR MP SW 1	MP SW 2 OCK SENSOR	OT SW	R DOOR SW	LOCK IND	ENSOR GND VER SUPPLY	N/P	OUTPUT 5	OUTPUT 1	OUTPUT 3	OUTPUT 4	IGGER RELAY CONT						12 13 14 15	38(37) 28(33) 40(41) 42(43) 44(45) 48	त्रिका का क्षां कर कर कर कि		Specification]								I
1123	BCM (BODY CONTROL MODULE)	TH40FG-NH	الے	12 13 14 14 14 14 14 15	Signal Name [Specification]	RAIN SENSOR SERIAL LIN	OPLICAL SENSOR STOP LAMP SW 1	STOP LAMP SW 2 DR DOOR UNLOCK SENSOR	KEY SLOT	PASSENGER DOOR SW	LOCK	RECEIVER/SENSOR GND SENSOR POWER SUPPLY	FILE SHIFT	COMBI SW OUTPUT 5	COMBLSW	COMBI SW OUTPUT 3	COMBI SW	REAR WINDOW DEFOGGER RELAY CONT		M124	WIRE TO WIRE	TH40MW-CS15		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	161718192021222242526 3637383			Signal Name [Specification]								J
Connector No.	не	ector Type	是 E	101 101 101 101 101 101 101 101 101 101	Terminal Color		113 P	118 P	121 BR	$^{\rm H}$	\mathbb{H}	137 B	140 R	$\frac{1}{1}$	143 P	Н	146 SB	Н		Connector No.	Connector Name N	Connector Type T	Œ	(Si	1617181920	27282830		nal	3							DLK
Γ						П	Π	Ī	П	П	П	- AL			T	П	T	PLY	T	_		ļ	_		T	П										L
INTELLIGENT KEY SYSTEM Connector No. M122	BCM (BODY CONTROL MODULE)			000 100 100 100 101 100 101	Signal Name [Specification]	ROOM ANT2-	SENGER DOOR ANT-	PASSENGER DOOR ANT+ DRIVER DOOR ANT-	RIVER DOOR ANT+	ROOM ANT1+	NATS ANT AMP.	I RELAY (F/B) CONT ENTRY RECEIVER SIGN	COMBI SW INPUT 5	PUSH SW	CAN-L	KEY SLOT ILL	ON IND	A/T SHIFT SELECTOR POWER SUPPLY	S/L CONDITION 1	SHIFT P	GER DOOR REQUEST SY	FAN MOTOR RELAY COL	TRY RECEIVER POWER SI UNIT POWER SUPPLY	COMBI SW INPUT 1	COMBL SW INPUT 4	HAZARD SW	S/L UNIT COMM									M
NT KEY	BCM (BODY C	TH40FB-NH		00 100 100 100 100 100 100 100 100 100	Sign		PAS	PAS	D			IGN						A/T SHIFT			PASSEN	BLOWER	KEYLESS ENT S/L													Ν
VTELLIGE	эц	Connector Type		11 10 100 100 100 100 100 100 100 100 1	nal Color	Н	SB	BB >	Pl >	- H 6	+	₽ R	Щ	. g	4	LG L	> 0	g E	_ a	œ	υ <u>წ</u>	0	¥ ≥	១	α >	Ш	GR									0
IN	Conne	Conne	是 H.S.		Terminal	72	73	75	77	6 2	8 18	83	87	88	90	92	93	96	98	66	2 2	102	2 2	101	80 60	110	=				JCKW	/A30r	01GF	3		U
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INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM - INFOID:000000005239640



INTEGRATED HOMELINK TRANSMITTER

67/L0/6007 JCKWA3002GB

INTEGRATED HOMELINK TRANSMITTER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

Name Control Control		А
Control Fig. Cont	Warre Specification IGN GND GND BAT Almo (Specification	В
NUTCOMATED HOMELINK TRANSMITTER State Control of the part	MARE TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	С
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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
TIX WIF LIX III	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
PR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
TR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT/AUTO	Off
FR WIPER INT	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
KK WIFEK ON	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
KK WIPEK IINI	Rear wiper switch INT	On
DD WACHED CW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
KK WIFEK STOP	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
TURN SIGNAL K	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
TORN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAIVIP SVV	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
HI BEAW 3VV	Lighting switch HI	On
HEAD LAMD CW 1	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
HEAD LAIVIF 3VV 2	Lighting switch 2ND	On
DACCING CW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOC SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off	_
2000 0W DD	Driver door closed	Off	_
DOOR SW-DR	Driver door opened	On	_
2007 014/ 40	Passenger door closed	Off	_
OOOR SW-AS	Passenger door opened	On	_
2000 014/ 00	Rear RH door closed	Off	_
DOOR SW-RR	Rear RH door opened	On	
2000 0144 01	Rear LH door closed	Off	_
OOOR SW-RL	Rear LH door opened	On	
2000 0141 014	Back door closed	Off	
OOR SW-BK	Back door opened	On	_
2014 0014 0144	Other than power door lock switch LOCK	Off	_
CDL LOCK SW	Power door lock switch LOCK	On	_
	Other than power door lock switch UNLOCK	Off	_
CDL UNLOCK SW	Power door lock switch UNLOCK	On	_
(E) (O) (I I O) (I	Other than driver door key cylinder LOCK position	Off	_
(EY CYL LK-SW	Driver door key cylinder LOCK position	On	
(E) (O) (I II O) ()	Other than driver door key cylinder UNLOCK position	Off	_
(EY CYL UN-SW	Driver door key cylinder UNLOCK position	On	_
EY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	
IAZADD CW/	Hazard switch is OFF	Off	
HAZARD SW	Hazard switch is ON	On	_
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off	
R CANCEL SW	NOTE: The item is indicated, but not monitored.	Off	
R/BD OPEN SW	Back door opener switch OFF	Off	
N/BD OF LIN SW	While the back door opener switch is turned ON	On	_
RNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off	
KE-LOCK	LOCK button of the Intelligent Key is not pressed	Off	
KKL-LOOK	LOCK button of the Intelligent Key is pressed	On	
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off	
KIL-ONLOOK	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	
ANE-I AINIO	PANIC button of the Intelligent Key is pressed	On	_
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off	_
INL-F/VV OFEIN	UNLOCK button of the Intelligent Key is pressed and held	On	
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off	
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On	
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V	_
A HOAL SENSUR	Dark outside of the vehicle	Close to 0 V	_

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Monitor Item	Condition	Value/Status
REQ SW -DR	Driver door request switch is not pressed	Off
YEQ SW -DIX	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
NLQ 3W -A3	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
INLEQ SW -BD/TIN	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
FUSH 3W	Push-button ignition switch (push switch) is pressed	On
ION DIVO E/D	Ignition switch in OFF or ACC position	Off
IGN RLY2 -F/B	Ignition switch in ON position	On
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
BRAKE SW I	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
DDAKE OW O	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
DETE/CANCL OW	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
CET DALIAL CAL	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
0/1 1 0 0 1 /	Steering is unlocked	Off
S/L -LOCK	Steering is locked	On
0/1 11011 0017	Steering is locked	Off
S/L -UNLOCK	Steering is unlocked	On
0/L DEL AV/ E/D	Ignition switch in OFF or ACC position	Off
S/L RELAY-F/B	Ignition switch in ON position	On
UNU / OEN DD	Driver door is unlocked	Off
UNLK SEN -DR	Driver door is locked	On
DUOLLOW IDDM	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
ION DIVA E/D	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On
DETE OW IDDM	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
OFT DN 12214	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On
057.5 1:	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On

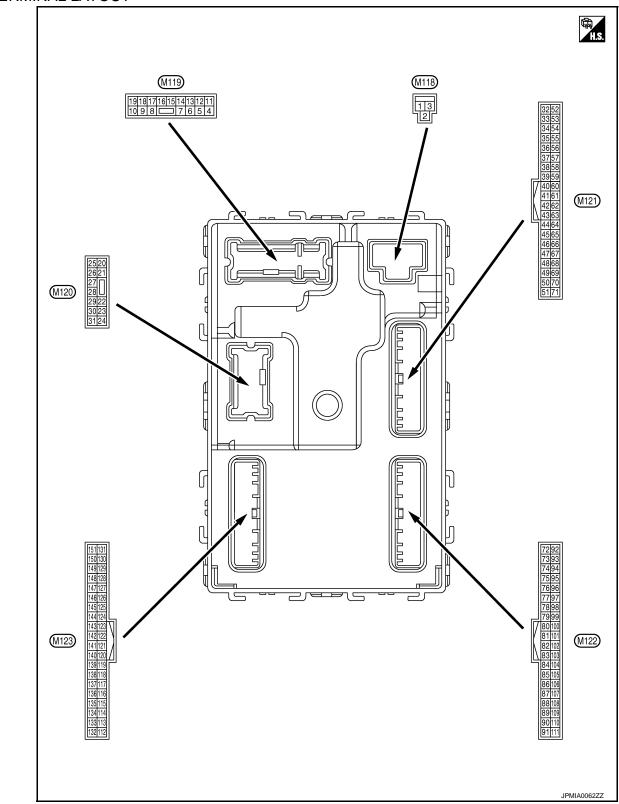
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
LINGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
3/L LOOK-IF DIVI	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
3/L UNLK-IPDIVI	Steering is unlocked	On
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
5/L RELAY-REQ	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
_	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
D OK EL AC	Steering is locked	Reset
D OK FLAG	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
-KWI ENG STKT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
ZEV CW. CLOT	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIDM ID 4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIDM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done

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Monitor Item	Condition	Value/Status
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFIRM IDT	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
174	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
1173	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
172	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
iri	The ID of first Intelligent Key is registered to BCM	Done

TERMINAL LAYOUT



PHYSICAL VALUES

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	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	12 V
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V
		Interior room lamp			battery saver is activated. oom lamp power supply)	0 V
4 (P)	Ground	power supply (Battery saver signal)	Output	ed.	battery saver is not activat- or room lamp power supply)	12 V
5	Ground	Passenger door UN-	Output	Passanger door	UNLOCK (Actuator is activated)	12 V
(V)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V
7	Cround	Cton laws	0454	Cton lower	ON	0 V
(Y)	Ground	Step lamp	Output	Step lamp	OFF	12 V
8	Ground	All doors, fuel lid	Cutnut	All doors fuel lid	LOCK (Actuator is activated)	12 V
(V)	Ground	LOCK	Output	All doors, fuel lid	Other than LOCK (Actuator is not activated)	0 V
9	Ground	Driver door, fuel lid	Outrout	Driver door, fuel	UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK	Output	lid	Other than UNLOCK (Actuator is not activated)	0 V
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door	UNLOCK (Actuator is activated)	12 V
(BR)	Orouna	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground		Ignition switch ON	ı	0 V
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(Y)					ACC or ON	0 V
					Turn signal switch OFF	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	F
			-		Turn signal switch OFF	0 V	6
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0	(
						PKID0926E 6.5 V	L
				Other than under	condition	5.0 V	
19 (SB)	Ground	Room lamp timer	Output	(Door is unlocke	mp timer is activated. ed. etc) unction is activated.	0 V	,
					Turn signal switch OFF	0 V	
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0	(
					Turn signal switch OFF	PKID0926E 6.5 V	
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	D
26			_		OFF (Stopped)	0 V	
(P)	Ground	Rear wiper	Output	Rear wiper	ON (Operated)	12 V	
34	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	1
(SB)	Ground	na (–)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
35	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Glound	na (+)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
38	Ground	Back door antenna (–	Output	When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(B)	Clound)	Cuipui	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
39	Ground	Back door antenna	Output	When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Giodid	(+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V 0 V

	inal No. e color)	Description	1		0 199	Value	Δ
+	- COIOI)	Signal name	Input/ Output		Condition	(Approx.)	
48	Ground	Back door opener	Output	Back door opener	Not pressed	12 V	Е
(W)	0.00	switch operation	o anp an	switch	Pressed	0 V	
52	Ground	Starter relay control	Output	Ignition switch	When selector lever is in P or N position	12 V	(
(LG)		,	2 3 4 3 3	ON	When selector lever is not in P or N position	0 V	_
61 (W)	Ground	Back door opener request switch	Input	Back door request switch	ON (Pressed) OFF (Not pressed)	0 V	
64 (L)	Ground	Intelligent Key warning buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding Not sounding	1.0 V 0 V 12 V	C
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms JPMIA0016GB	H
					Not in stop position	0 V	
66	0	Deal Leave Wil		Bart Isaac Kal	OFF (Door close)	12 V	DI
(LG)	Ground	Back door switch	Input	Back door switch	ON (Door open)	0 V	
					Pressed	0 V	
67 (P)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) ₁₅ 10 5 0 **10ms JPMIA0594GB 8.5 - 9.0 V	N N
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close) ON (Door open)	(V) 15 10 5 0 JPMIA0594GB 8.5 - 9.0 V 0 V	F

	ninal No. e color)	Description			O and distant	Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	(V) ₁₅ 10 5 0 ***10ms JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
72	Ground Room antenna 2 (–) (Center console) Output OFF	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB		
(R)		(Center console)	Guipai	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
73	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(G)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

	ninal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
74		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB	
(SB) Grour	Ground	tenna (-)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1 1 1 1 1 1 1 1 1 1	
75 Crawnel	Constitution	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	(V) 15 10 5 0 JMKIA0062GB	
(BR)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
76	Ground	Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V)	Giodrid	(-)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

	inal No. e color)	Description			On a disting	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
77		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(LG)	Ground	(+)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1
78	Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(Y)	Glodina				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0062GB
(BR)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
+ (VVir	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	В
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting Ignition switch is pressed while inserting the Intelligent Key into the key slot.		Just after pressing ignition switch. Pointer of tester should move.	
82	Ground	Ignition relay [Fuse	Output	Ignition switch	OFF or ACC	0 V	
(P)	Ground	block (J/B)] control	Output	ignition switch	ON	12 V	D
83 (CD)	Ground	Remote keyless entry receiver communica-	Input/ Output	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	F
(GR)		tion		When operating e Key	ither button on the Intelligent	(V) 15 10 5 0 1 ms JMKIA0065GB	- -

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	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
87	Ground	Combination switch	Input	Combination	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
(BR)		INPUT 5		switch	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

	inal No.	Description				Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α.
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E F
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	Н
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	J DLK
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB	M
89	Ground	Push-button ignition	Input	Push-button ignition switch (Push	Pressed	0 V	0
(SB)	C.Garia	switch (Push switch)		switch)	Not pressed	12 V	1
90 (P)	Ground	CAN-L	Input/ Output		_	_	Р
91 (L)	Ground	CAN-H	Input/ Output		_	_	

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
					OFF	12 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 JPMIA0015GB
					ON	6.5 V 0 V
93	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(V)		·	·		ON or ACC	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Ground	ACC relay control	Output	ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Ground	tion No. 1	mpat	Cite and a second	UNLOCK status	12 V
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)		tion No. 2			UNLOCK status	0 V
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V
(R)		tion switch			Any position other than P	12 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(O)	Ground	lay control	Output	iginuon switch	ON	12 V
103 (BR)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF		12 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	12 V 0 V	В
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	C D
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	F
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB	H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	DLK L
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	M N

Revision: 2009 August **DLK-167** 2010 FX35/FX50

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
		Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
	Ground				Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0038GB 1.3 V
108 (R)					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

	inal No.	Description				Value	Δ
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB	E F
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	G H
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	J DLK L
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	M
					ON	0 V	0
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB	Р

	inal No.	Description				Value
+ (VVir	e color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111 (GR)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 5 0 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
-					15 seconds or later after UNLOCK	0 V
112 (GR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 JPMIA0156GB 8.7 V
113	Ground	Ontical consor	Innut	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V
116 (BR)	Ground	Stop lamp switch 1	Input		_	Battery voltage
		Stop lamp switch 2 (Without ICC)		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
118	Ground		Input		ON (Brake pedal is depressed)	Battery voltage
(P)	Ground	Stop lamp switch 2	Input	Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF		0 V
		(With ICC)		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)	(V) ₁₅ 10 5 0 → 10ms JPMIA0594GB
					UNLOCK status	8.5 - 9.0 V 0 V
				When the Intellige	(Unlock switch sensor ON) nt Key is inserted into key slot	12 V
121 (BR)	Ground	Key slot switch	Input	_	nt Key is not inserted into key	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)			F ***	5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ON	Battery voltage

Terminal No. (Wire color)		Description		2		Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) ₁₅ 10 5 0 → 10ms JPMIA0594GB	В
					ON (Door opene)	8.5 - 9.0 V 0 V	D
132 (O)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	E F
						10.2 V 12 V	
134		LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage	Н
(GR)	Ground				ON	0 V	П
137 (B)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V	ı
138	Ground	Sensor power supply	Output	Ignition switch	OFF	0 V	
(Y)	Orodria	Corroor power suppry	Output	ignition switch	ACC or ON	5.0 V	
140 (R)	Ground	Selector lever P/N position	Input	Selector lever	P or N position	12 V	J
(11)		position			Except P and N positions ON	0 V 0 V	
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 11.3 V	L
					OFF	12 V	N
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V	
					Lighting switch 1ST Lighting switch HI	(V)	0
					Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms JPMIA0031GB	Р

Terminal No.		Description				
(Wire color)		Signal name	Input/	Condition		Value (Approx.)
143 (P)	Ground	Combination switch OUTPUT 1	Output		All switches OFF	0 V
				Combination switch	(Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	5 0 JPMIA0032GB 10.7 V
		Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
144 (G)	Ground				Front washer switch ON (Wiper intermittent dial 4)	
					Rear wiper switch ON (Wiper intermittent dial 4)	(V)
					Rear washer switch ON (Wiper intermittent dial 4)	10 5 0
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB
					All switches OFF	0 V
	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch INT/ AUTO	(V)
145					Front wiper switch LO	15
(L)					Lighting switch AUTO	2 ms
						10.7 V
146 (SB)	Ground	Combination switch OUTPUT 4		Combination switch (Wiper intermit- tent dial 4)	All switches OFF Front fog lamp switch ON	0 V
					Lighting switch 2ND	(V)
					Lighting switch PASS	15
			Output		Turn signal switch LH	5 0 JPMIA0035GB 10.7 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) ₁₅ 10 5 0	
					ON (Door open)	0 V	
151	Ground	Rear window defog- ger relay control Output	Output	Rear window de- fogger	Active	0 V	
(G)			Calput		Not activated	Battery voltage	

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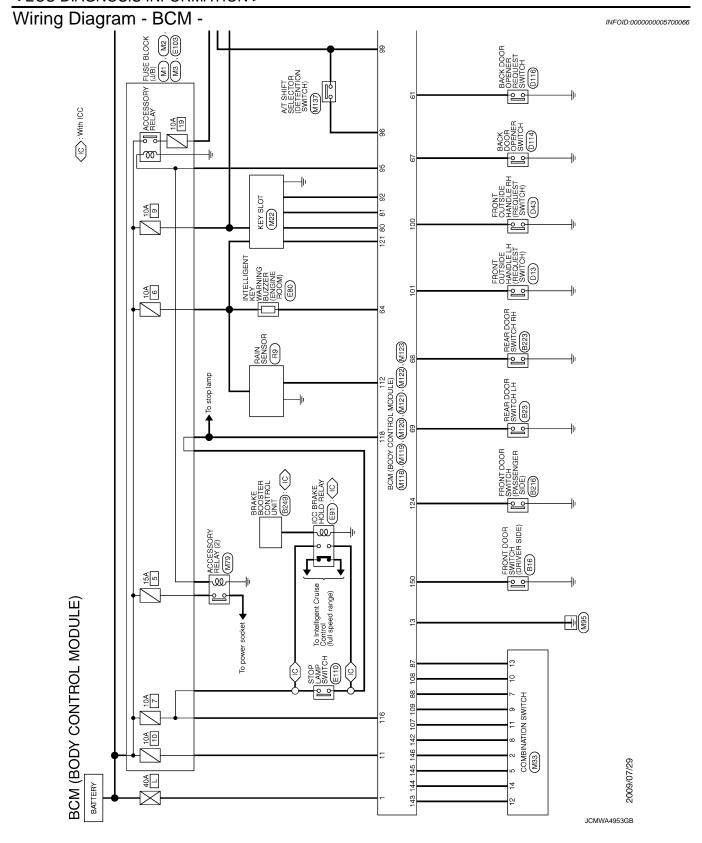
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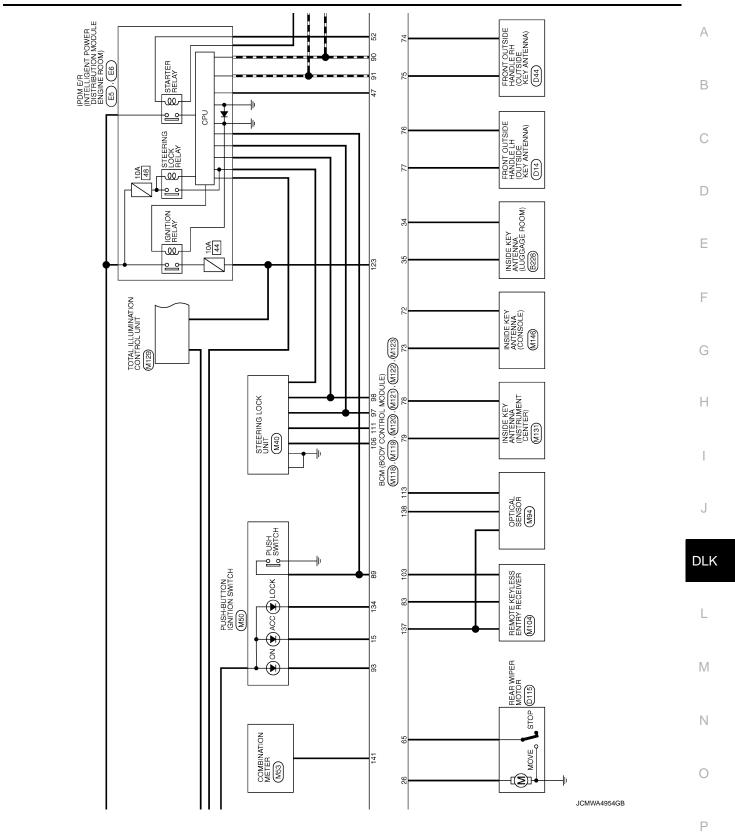
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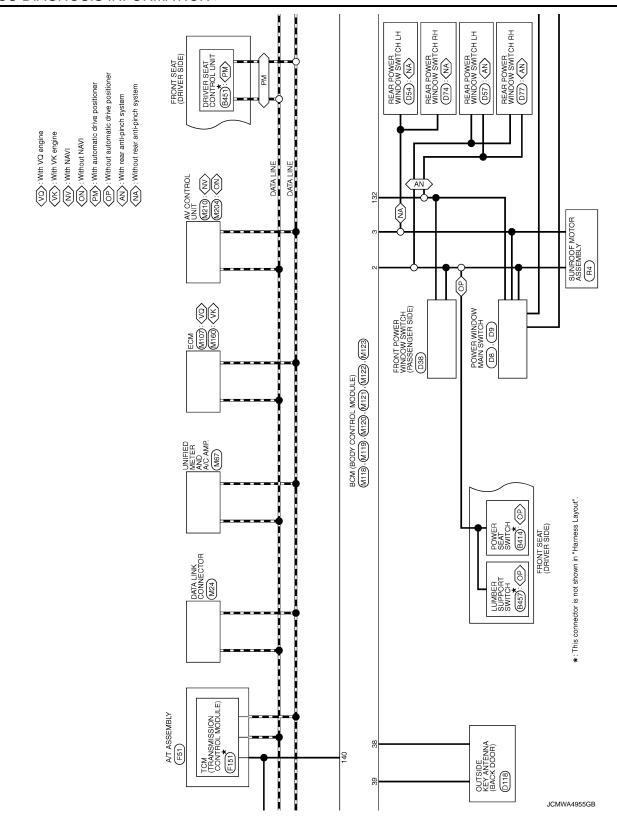
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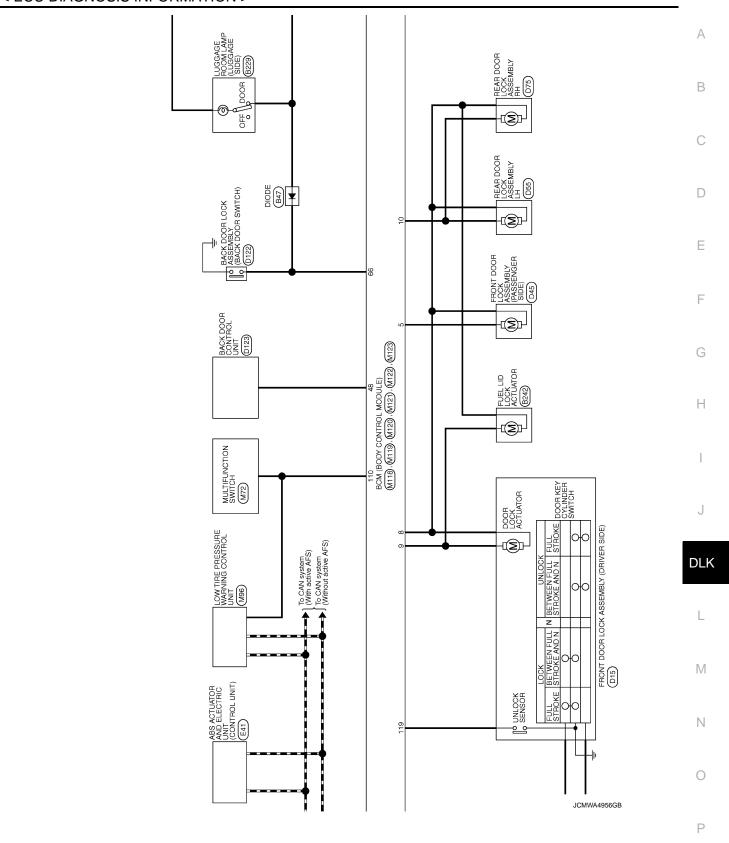
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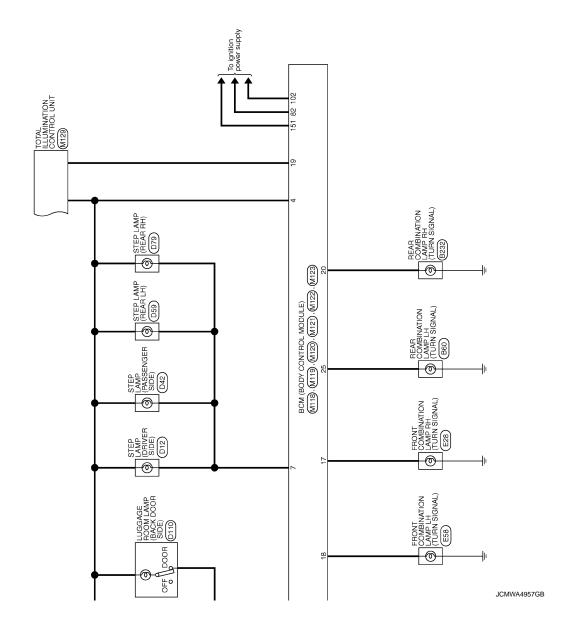
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< ECU DIAGNOSIS INFORMATION >

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Connector No. MI21 Connector Type TH40FGY-NH TH40FGY-NH TH3 TH35 TH36FGY-NH	Terminal Color Signal Name [Specification] No. SB	
MII9 Corrector No. MII9 Corrector Name BCM (BODY CONTROL MODULE) Corrector Type NSI BFW-CS MSI BFW-CS MS	Terminal Color Signal Name Specification No. of Wire P INT ROOULAMP PWIR SPREY, NEAVE S	D
BCM (BODY CONTROL MODULE) Connector No. MX3 Connector Name Comment No. Connector Type THISFW-NH	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] No. of Wire of Color of Wire of Wire of Wire of Wire of Color of Wire of	

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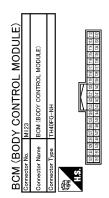
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FAIL-SAFE CONTROL BY DTC

Fail-safe

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

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent Starter control relay signal Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Power position: IGN Selector lever P/N position signal: Except P and N positions (0 V) Interlock/PNP switch signal (CAN): OFF Status 2 Ignition switch is in the ON position Selector lever P/N position signal: P or N position (battery voltage) PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

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< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

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

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

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

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF \Rightarrow 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.

< ECU DIAGNOSIS INFORMATION >

- Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

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

Priority	DTC	
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM U1010: CONTROL UNIT(CAN)	
3	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING 	
	 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW 	
	 B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW 	
	 B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY 	
4	 B2609: S/L STATUS B260A: IGNITION RELAY B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT 	
	 B260F: ENG STATE SIG LOST B2612: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC 	
	 B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE 	
	 B26E9: S/L STATUS B26EA: KEY REGISTRATION U0415: VEHICLE SPEED SIG 	
5	B2621: INSIDE ANTENNAB2622: INSIDE ANTENNAB2623: INSIDE ANTENNA	
6	B26E7: TPMS CAN COMM	

DTC Index

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INFOID:0000000005700068

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-17, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
No DTC is detected. Further testing may be required.	_	_	_	_
U1000: CAN COMM	_	_	_	BCS-35
U1010: CONTROL UNIT(CAN)	_	_	_	BCS-36
U0415: VEHICLE SPEED SIG	_	_	_	BCS-37
B2013: ID DISCORD BCM-S/L	×	×	_	<u>SEC-50</u>
B2014: CHAIN OF S/L-BCM	×	×	_	<u>SEC-51</u>
B2190: NATS ANTENNA AMP	×	_	_	SEC-42
B2191: DIFFERENCE OF KEY	×	_	_	SEC-45
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-48
B2195: ANTI SCANNING	×	_	_	<u>SEC-49</u>
B2553: IGNITION RELAY	_	×	_	PCS-50
B2555: STOP LAMP	_	×	_	<u>SEC-54</u>
B2556: PUSH-BTN IGN SW	_	×	×	<u>SEC-56</u>
B2557: VEHICLE SPEED	×	×	×	<u>SEC-58</u>
B2560: STARTER CONT RELAY	×	×	×	SEC-59
B2562: LOW VOLTAGE	_	×	_	BCS-38
B2601: SHIFT POSITION	×	×	×	SEC-60
B2602: SHIFT POSITION	×	×	×	<u>SEC-63</u>
B2603: SHIFT POSI STATUS	×	×	×	<u>SEC-65</u>
B2604: PNP SW	×	×	×	<u>SEC-68</u>
B2605: PNP SW	×	×	×	<u>SEC-70</u>
B2606: S/L RELAY	×	×	×	<u>SEC-72</u>
B2607: S/L RELAY	×	×	×	<u>SEC-73</u>
B2608: STARTER RELAY	×	×	×	<u>SEC-75</u>
B2609: S/L STATUS	×	×	×	<u>SEC-77</u>
B260A: IGNITION RELAY	×	×	×	PCS-52
B260B: STEERING LOCK UNIT	_	×	×	<u>SEC-81</u>
B260C: STEERING LOCK UNIT	_	×	×	<u>SEC-82</u>
B260D: STEERING LOCK UNIT	_	×	×	SEC-83
B260F: ENG STATE SIG LOST	×	×	×	SEC-84
B2612: S/L STATUS	×	×	×	SEC-88
B2614: ACC RELAY CIRC	_	×	×	PCS-54
B2615: BLOWER RELAY CIRC	_	×	×	PCS-56
B2616: IGN RELAY CIRC	_	×	×	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	SEC-92
B2618: BCM	×	×	×	PCS-60
B2619: BCM	×	×	×	SEC-94
B261A: PUSH-BTN IGN SW	_	×	×	<u>SEC-95</u>
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-98

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
B2621: INSIDE ANTENNA	_	×	_	<u>DLK-61</u>
B2622: INSIDE ANTENNA	_	×	_	DLK-63
B2623: INSIDE ANTENNA	_	×	_	DLK-65
B26E7: TPMS CAN COMM	_	_	_	BCS-39
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-86
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	SEC-87

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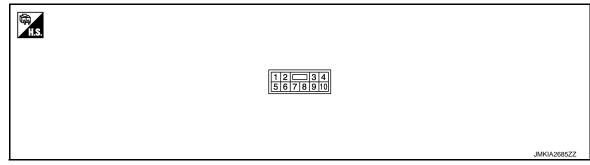
Р

< ECU DIAGNOSIS INFORMATION >

BACK DOOR CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

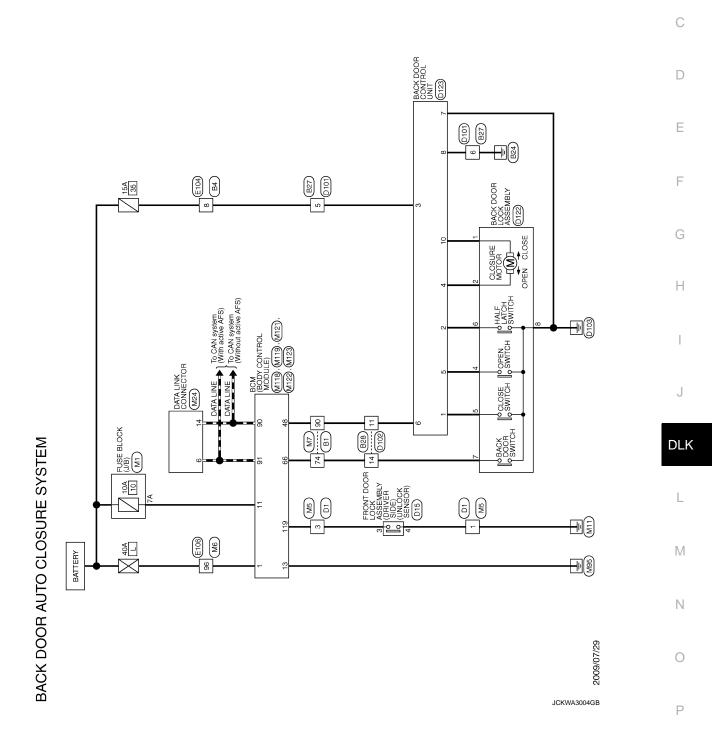
	inal No. e color)	Description		Condition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	Condition	(Approx.)
1 (L)	Ground	Close switch signal	Input	Back door Fully open \rightarrow half \rightarrow fully close	$\begin{array}{c} \text{Battery voltage} \rightarrow 0 \rightarrow \text{Battery} \\ \text{voltage} \end{array}$
2 (O)	Ground	Half-latch switch	Input	Back door Fully open \rightarrow half \rightarrow fully close	0 → Battery voltage
3 (SB)	Ground	Battery power supply (Fusible link)	Input	Ignition switch OFF	Battery voltage
4 (G)	Ground	Closure motor close signal	Output	Back door Fully open \rightarrow half \rightarrow fully close	$0 \rightarrow Battery \ voltage \rightarrow 0$
5 (P)	Ground	Open switch	Input	Back door Fully open \rightarrow half \rightarrow fully close	Battery voltage → 0 → Battery voltage
6	Ground	Back door opener	Input	Back door opener switch is pressed	0
(W)	Ground	switch signal	mpat	Other than above	Battery voltage
7 (B)	Ground	Ground		Ignition switch ON	0
8 (GR)	Ground	Ground	_	Ignition switch ON	0
10 (V)	Ground	Closure motor open signal	Output	Back door Fully open \rightarrow half \rightarrow fully close	0 o Battery voltage o 0



INFOID:0000000005239647

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BACK	BACK DOOR AUTO CLOSURE SYSTEM	EM						
Connector No.	B1		53 SHIELD	- QT	Connector No.	B4	Connector No. B28	
Connector Name	me WIRE TO WIRE	S	# # PB		Connector Name	WIRE TO WIRE	Connector Name WIRE TO WIRE	
Connector Type	pe TH80FW-CS16-TM4	n iñ	56 SHIELD		Connector Type	NS12FW-CS	Connector Type TH24MW-NH	Т
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< ECU DIAGNOSIS INFORMATION >

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Revision: 2009 August **DLK-189** 2010 FX35/FX50

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	32	SB	-	94	Н	-	
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< ECU DIAGNOSIS INFORMATION >

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Revision: 2009 August **DLK-191** 2010 FX35/FX50

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Connector No.	No. M.	ZV	53	3 SHIELD	O	Connector No. M24	Connector No. M119
Connector Name		WIRE TO WIRE	54	BR BR		Connector Name DATA LINK CONNECTOR	Connector Name BCM (BODY CONTROL MODULE)
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confiector Type	٦	I H8UMW=CS10=1M4	8 [7		Connector Type BD10FW	Connector Type NST0FW-CS
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2	m	1	89	H	1	4 B	5 V PASSENGER DOOR UNLOCK OUTPUT
က	Μ	1	69	5	1	- B	7 Y STEP LAMP OUTPUT
2	ŋ	1	70	H	1	- 7 9	8 V ALL DOOR, FUEL LID LOCK OUTPUT
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BAC	K DOC	BACK DOOR AUTO CLOSURE SYSTEM		S	NATO ANT AND	Ş	4	מוס מיטוושט שוט
Corniector No.	т	MIZI	8 5	<u>Y</u>	NATS ANT AME	130	< م	SENSOB DOWER SINDLY
Connect	Connector Name	BCM (BODY CONTROL MODULE)	82	2	IGN RELAY (F/B) CONT	140	- 02	SHIFT N/P
Connector Type	Т	TH40FGY-NH	83	GR	KEYLESS ENTRY RECEIVER SIGNAL	141	5	SECURITY INDICATOR OUTPUT
ą			87	BR	COMBI SW INPUT 5	142	0	COMBI SW OUTPUT 5
厚			88	^	COMBI SW INPUT 3	143	Д	COMBI SW OUTPUT 1
H.S.			88	SB	PUSH SW	144	ŋ	COMBI SW OUTPUT 2
	51 50 40 48	2 27 46 45 44 49 40 41 40 30 138 37 38 35 34 39 39	06	۵	CAN-L	145	-	COMBI SW OUTPUT 3
	71 70 69 68	8 67 666 655 64 63 62 61 60 59 58 57 56 55 54 53 52	91	ا ا	CAN-H	150	g d	COMBL SW OUTPUL 4
			93	3 >	ON IND	151	g	REAR WINDOW DEFOGGER RELAY CONT
			92	0	ACC RELAY CONT			
Terminal	_	Signal Name [Specification]	96	GR	A/T SHIFT SELECTOR POWER SUPPLY			
Š.	or wire	- INO MOOD BOOM INT	97	- ا	S/L CONDITION 1			
5 5	3 >	LIGGAGE ROOM ANT+	8 8	. 0	SHIET P			
88		BACK DOOR ANT-	100	: 0	PASSENGER DOOR REQUEST SW			
38	×	BACK DOOR ANT+	101	SB	DRIVER DOOR REQUEST SW			
47	>-	IGN RELAY (IPDM E/R) CONT	102	0	BLOWER FAN MOTOR RELAY CONT			
48	М	BK DOOR OPENER SW OPERATION	103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY			
25	97	STARTER RELAY CONT	106	W	S/L UNIT POWER SUPPLY			
61	W	BACK DOOR OPENER REQUEST SW	107	LG	COMBI SW INPUT 1			
64	٦	I-KEY WARN BUZZER (ENG ROOM)	108	ď	COMBI SW INPUT 4			
65	0	REAR WIPER STOP POSITION	109	≻	COMBI SW INPUT 2			
99	S	BACK DOOR SW	110	G	HAZARD SW			
67	ا ۵	BACK DOOR OPENER SW	Ξ	æ	S/L UNIT COMM			
88 8	£ 0	REAR RH DOOR SW						
So.	r	KEAR LH DOOR SW	Connector No	Г	66174			
			Connecto	Т	M123			
Connector No.	Γ	M122	Connector Name		BCM (BODY CONTROL MODULE)			
Connect	Connector Name	BCM (BODY CONTROL MODILLE)	Connecto	Connector Type	TH40FG-NH			
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			No.	of Wire	Signal Name [Specification]			
Terminal	_	Simpl Name Carried	112	GR	RAIN SENSOR SERIAL LINK			
No	of Wire	oignal name Lopecincauorij	113	۵	OPLICAL SENSOR			
72	ď	ROOM ANT2-	116	BR	STOP LAMP SW 1			
73	5	ROOM ANT2+	118	Д	STOP LAMP SW 2			
74	SB	PASSENGER DOOR ANT-	119	SB	DR DOOR UNLOCK SENSOR			
75	BR	PASSENGER DOOR ANT+	121	BR	KEY SLOT SW			
9/	>	DRIVER DOOR ANT-	123	*	IGN F/B			
LL I	P.	DRIVER DOOR ANT+	124	P.G	PASSENGER DOOR SW			
78	> 8	ROOM ANT1-	132	0 5	POWER WINDOW SW COMM			
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Revision: 2009 August **DLK-193** 2010 FX35/FX50

JCKWA3010GB

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

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

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

ALL DOOR

ALL DOOR: Diagnosis Procedure

INFOID:0000000005239648

${f 1}$.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to DLK-67, "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 <u>DLK-72</u>, "<u>DRIVER SIDE</u>: <u>Component Function Check</u>" (driver side). Refer to <u>DLK-72</u>, "<u>PASSENGER SIDE</u>: <u>Component Function Check</u>" (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-74, "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-36, "Intermittent Incident".

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000005239649

CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).

Refer to DLK-74, "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-36, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

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

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure	INFOID:0000000005239650
1. CHECK DOOR LOCK ACTUATOR	
Check door lock actuator (passenger side). Refer to DLK-75, "PASSENGER SIDE : Component Function Check".	
s the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
Confirm the operation again.	
s the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-36, "Intermittent Incident"</u> . NO >> GO TO 1.	
REAR LH	
REAR LH : Diagnosis Procedure	INFOID:0000000005239651
1. CHECK DOOR LOCK ACTUATOR	
Check door lock actuator (rear LH).	
Refer to DLK-76, "REAR LH: Component Function Check". s the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
Confirm the operation again.	
s the result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".	
NO >> GO TO 1.	
REAR RH	
REAR RH : Diagnosis Procedure	INFOID:000000005239652
1. CHECK DOOR LOCK ACTUATOR	
Check door lock actuator (rear RH).	
Refer to DLK-76, "REAR RH: Component Function Check". s the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
Confirm the operation again.	
s the result normal?	
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.	

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

Diagnosis Procedure

INFOID:0000000005239653

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-194, "ALL DOOR : Diagnosis Procedure".

2. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to DLK-81, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH Α DRIVER SIDE DRIVER SIDE: Description INFOID:0000000005239654 В NOTE: Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "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) D Intelligent Key is removed from key slot. Ignition switch is in the OFF position. No Intelligent Keys are inside the vehicle. Е DRIVER SIDE: Diagnosis Procedure INFOID:0000000005239655 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-200, "Description". 2.CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT" Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT". Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 3. NO >> Set "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT". 3.check door request switch Check door request switch (driver side). Refer to <u>DLK-88</u>, "Component Function Check". DLK 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-94, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. N ${f 5.}$ CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check Intermittent Incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1. Р PASSENGER SIDE PASSENGER SIDE : Description INFOID:0000000005239656

NOTE:

• Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "Work Flow".

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< 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:0000000005239657

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 <u>DLK-200</u>, "<u>Description</u>".

2.check "Lock/unlock by I-key" setting in "work support"

Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".

Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".

3.CHECK DOOR REQUEST SWITCH

Check door request switch (passenger side).

Refer to DLK-88, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger side).

Refer to DLK-94, "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-36, "Intermittent Incident".

NO >> GO TO 1.

BACK DOOR

BACK DOOR: Description

INFOID:0000000005239658

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>. "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 >

< SYMPTOM DIAGNOSIS > BACK DOOR: Diagnosis Procedure	00000005239659
1. CHECK REMOTE KEYLESS ENTRY FUNCTION	F
Check remote keyless entry function.	
Does door lock/unlock with Intelligent key button?	[
YES >> GO TO 2.	
NO >> Go to <u>DLK-200, "Description"</u> .	(
2.CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT"	
Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".	
Refer to <u>DLK-54</u> , "INTELLIGENT KEY: <u>CONSULT-III Function (BCM - INTELLIGENT KEY)"</u> .	
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-90. "Component Function Check".	F
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).	ŀ
Refer to DLK-94, "Component Function Check".	
<u>Is the inspection result normal?</u> 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-36, "Intermittent Incident".	DI
NO >> GO TO 1.	
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DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "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:0000000005239661

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 <u>DLK-194</u>, "ALL <u>DOOR</u>: <u>Diagnosis Procedure"</u>.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to DLK-83, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.check intelligent key

Check Intelligent Key.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK KEY SLOT

Check key slot.

Refer to DLK-101, "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-36, "Intermittent Incident".

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS > SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR RE-QUEST SWITCH Description INFOID:0000000005239662 В NOTE: Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>. "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) D Intelligent Key is removed from key slot. • Ignition switch is in the OFF position. No Intelligent Keys are inside the vehicle. Е Diagnosis Procedure INFOID:0000000005239663 1. CHECK DOOR LOCK FUNCTION F Check door lock function by door request switch. Does door lock/unlock with door request switch? YES >> GO TO 2. NO >> • Go to <u>DLK-197</u>, "<u>DRIVER SIDE</u>: <u>Description</u>" (driver side). • Go to DLK-197, "PASSENGER SIDE: Description" (passenger side). Н • Go to DLK-198, "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-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)". Is the inspection result normal? YES >> GO TO 3. NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT". 3.CONFIRM THE OPERATION DLK Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1. Ν

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SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLI-GENT KEY

Description INFOID:000000005239664

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "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:0000000005239665

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 <u>DLK-194</u>, "ALL <u>DOOR</u>: <u>Diagnosis Procedure"</u>.

2.CHECK "DOOR LOCK-UNLOCK SET" SETTING IN "WORK SUPPORT"

Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".

Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "DOOR LOCK-UNLOCK SET" of "WORK SUPPORT".

${f 3.}$ CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE	Α
Diagnosis Procedure	В
1. CHECK POWER DOOR LOCK OPERATION	
Check power door lock operation.	С
Does door lock/unlock using door lock and unlock switch? YES >> GO TO 2. NO >> Go to DLK-194, "ALL DOOR : Diagnosis Procedure". 2 OUT OK YELLOUE FOR FOR SIGNAL.	D
2.CHECK VEHICLE SPEED SIGNAL Check combination meter. Refer to SEC-58, "DTC Logic". Is the inspection result normal?	Е
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION	F
Confirm the operation again.	G
Is the result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.	Н
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IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000005239667

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-194, "ALL DOOR : Diagnosis Procedure".

2.CHECK BCM

Check DTC for BCM.

Refer to DLK-183, "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-36, "Intermittent Incident".

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	_
P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OP-	
ERATE	А
Diagnosis Procedure	В
1. CHECK POWER DOOR LOCK OPERATION	
Check power door lock operation.	С
Does door lock/unlock using door lock and unlock switch?	
YES >> GO TO 2. NO >> Go to <u>DLK-194, "ALL DOOR : Diagnosis Procedure"</u> .	D
2.check tcm	D
Check DTC for TCM.	_
Refer to TM-332, "DTC Index". Is the inspection result normal?	Е
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	F
3. CONFIRM THE OPERATION	
Confirm the operation again.	G
<u>Is the result normal?</u>	
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.	ш
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AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description INFOID:0000000005239669

NOTE:

• Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "Work Flow".

Diagnosis Procedure

INFOID:0000000005239670

1. CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT"

Check "AUTO LOCK SET" setting in "WORK SUPPORT".

Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTO LOCK SET" setting in "WORK SUPPORT".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

WELCOME LIGHT FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

WELCOME LIGHT FUNCTION DOES NOT OPERATE Α Description INFOID:0000000005239671 NOTE: В Before performing the diagnosis following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "Work Flow". Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom. C CONDITIONS OF VEHICLE (OPERATION CONDITIONS) Intelligent Key system (door lock function) is normal. All operation conditions are satisfied. Refer to DLK-33, "WELCOME LIGHT FUNCTION: System Descrip-D tion". Diagnosis Procedure INFOID:0000000005239672 Е CHECK WELCOME LIGHT FUNCTION SETTING Check "WELCOME LIGHT OP SET" and "WELCOME LIGHT SELECT" setting in "WORK SUPPORT". Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". F Is the function active? YES >> GO TO 2. NO >> Set "WELCOME LIGHT OP SET" and "WELCOME LIGHT SELECT" setting in "WORK SUP-PORT". 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-197, "DRIVER SIDE: Description". 3.check interior room Lamp control system Check interior room lamp control system. Refer to INL-6, "System Description". Does the room lamp and puddle lamp turn ON? YES >> GO TO 4. DLK NO >> Go to INL-180, "Symptom Table". 4.REPLACE BCM Replace BCM. Refer to BCS-83, "Removal and Installation". >> GO TO 5. 5. CONFIRM THE OPERATION M Confirm the operation again. Is the result normal? N YES >> INSPECTION END NO >> GO TO 1. Р

PANIC ALARM FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

PANIC ALARM FUNCTION DOES NOT OPERATE

Description INFOID:000000005239673

NOTE:

- Before performing the diagnosis following procedure, check "Work Flow". Refer to <u>DLK-8</u>. "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:0000000005239674

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 <u>DLK-200</u>, "<u>Description</u>".

2. CHECK VEHICLE SECURITY ALARM OPERATION

Check vehicle security alarm operation.

Does alarm (headlamp and horn) activate?

YES >> GO TO 3.

NO >> Go to <u>DLK-200</u>, "<u>Description</u>".

3.CHECK "PANIC ALARM SET" SETTING IN "WORK SUPPORT"

Check "PANIC ALARM SET" setting in "WORK SUPPORT".

Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set "PANIC ALARM SET" setting in "WORK SUPPORT".

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

HAZARD AND HORN REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HAZARD AND HORN REMINDER DOES NOT OPERATE	Λ
Description INFOID.000000005239675	A
 NOTE: Before performing the diagnosis following procedure, check "Work Flow". Refer to <u>DLK-8. "Work Flow".</u> Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom. 	В
CONDITIONS OF VEHICLE (OPERATION CONDITIONS) • Ignition switch is in the OFF or LOCK position. • Intelligent Key is removed from key slot.	D
Diagnosis Procedure	
1. CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"	Е
Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT". Refer to DLK-54, "INTELLIGENT KEY) : CONSULT-III Function (BCM - INTELLIGENT KEY).	_
Is the inspection result normal? YES >> GO TO 2.	F
NO >> Set "HAZARD ANSWER BACK" setting in "WORK SUPPORT".	
2.CHECK "HORN WITH KEYLESS LOCK" SETTING IN "WORK SUPPORT".	G
Check "HORN WITH KEYLESS LOCK" setting in "WORK SUPPORT". Refer to DLK-54 , "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".	Н
Is the inspection result normal?	11
YES >> GO TO 3. NO >> Set "HORN WITH KEYLESS LOCK" setting in "WORK SUPPORT".	1
3.CHECK HAZARD WARNING LAMP	,
Check hazard warning lamp. Refer to DLK-110, "Component Function Check".	J
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	DLK
4.CHECK HORN	
Check horn. Refer to DLK-105, "Component Function Check".	L
Is the inspection result normal?	
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	M
5.CONFIRM THE OPERATION	
Confirm the operation again.	Ν
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.	0
	Р

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Description

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "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:0000000005239678

1. CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"

Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "HAZARD ANSWER BACK" in "WORK SUPPORT".

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

Check "ANS BACK I-KEY LOCK" setting in "WORK SUPPORT".

Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "ANS BACK I-KEY LOCK" in "WORK SUPPORT".

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

Check "ANS BACK I-KEY UNLOCK" setting in "WORK SUPPORT".

Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT".

4. CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to DLK-110, "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-97, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

$\mathbf{6}.\mathsf{CONFIRM}$ THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY REMINDER FUNCTION DOES NOT OPERATE	٨
Description INFOID:000000005239679	А
 NOTE: Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8, "Work Flow"</u>. Understand the operation when does it work, refer to <u>DLK-36, "KEY REMINDER FUNCTION: System Description"</u>. 	В
Diagnosis Procedure	D
1. CHECK "ANTI KEY LOCK IN FUNCTI" SETTING IN "WORK SUPPORT" Check "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT". Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 2. NO >> Set "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT". 2. CHECK DOOR SWITCH	D E F
Check door switch. Refer to DLK-69, "Component Function Check".	G
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK INSIDE KEY ANTENNA	Н
Check inside key antenna. Refer to DLK-61, "DTC Logic" (instrument center). Refer to DLK-63, "DTC Logic" (console). Refer to DLK-65, "DTC Logic" (luggage room).	J
Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK UNLOCK SENSOR	DLK
Check unlock sensor. Refer to DLK-92, "Component Function Check". Is the inspection result normal?	L
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	M
5.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.	N
	Р

KEY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY WARNING DOES NOT OPERATE

Description INFOID:000000005239681

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>. "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-39, "WARNING FUNCTION: System
 Description".
- · Door lock function is normal.

Diagnosis Procedure

INFOID:0000000005239682

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to <u>DLK-108</u>, "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-69, "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-101, "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-107, "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-103, "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-36, "Intermittent Incident".

OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

OFF POSITION WARNING DOES NOT OPERATE
Description INFOID:000000005239683
 NOTE: Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>. "Work <u>Flow"</u>. Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to <u>DLK-39</u>. "WARNING FUNCTION: System <u>Description"</u>. Door lock function is normal.
Diagnosis Procedure
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 <u>DLK-183, "DTC_Index"</u> . 2.CHECK BUZZER (COMBINATION METER)
Check buzzer (combination meter). Refer to <u>DLK-108</u> , "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-97, "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-69, "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-36, "Intermittent Incident". NO >> GO TO 1.

P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

P POSITION WARNING DOES NOT OPERATE

Description INFOID:0000000005239685

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8. "Work</u> 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-39, "WARNING FUNCTION: System
- · Door lock function is normal.

Diagnosis Procedure

INFOID:0000000005239686

1. CHECK TRANSMISSION RANGE SWITCH

Check DTC for BCM.

Refer to DLK-183, "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-97, "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-108, "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-69, "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 <u>DLK-61</u>, "<u>DTC Logic"</u> (instrument center). Refer to <u>DLK-63</u>, "<u>DTC Logic"</u> (console).

Refer to <u>DLK-65</u>, "<u>DTC Logic</u>" (luggage room).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

f 6.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to DLK-107, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

P POSITION WARNING DOES NOT OPERATE

ZONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-36. "Intermittent Incident". NO >> GO TO 1.

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ACC WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ACC WARNING DOES NOT OPERATE

Description INFOID:0000000005239687

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "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-39, "WARNING FUNCTION: System
 Description".
- · Door lock function is normal.

Diagnosis Procedure

INFOID:0000000005239688

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 <u>DLK-183, "DTC_Index"</u>.

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to DLK-108, "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-107, "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-36, "Intermittent Incident".

TAKE AWAY WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS > TAKE AWAY WARNING DOES NOT OPERATE Α DOOR IS OPEN **DOOR IS OPEN: Description** INFOID:0000000005239689 В NOTE: Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "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-39, "WARNING FUNCTION: System Description". D Door lock function is normal. DOOR IS OPEN: Diagnosis Procedure INFOID:0000000005239690 Е 1. CHECK POWER POSITION Check if ignition switch position is changing or not. Does ignition switch position change? F YES >> GO TO 2. NO >> Check DTC for BCM. Refer to DLK-183, "DTC Index". 2.CHECK BUZZER (COMBINATION METER) Check buzzer (combination meter). Refer to DLK-108, "Component Function Check". Н 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-107, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO DLK >> Repair or replace the malfunctioning parts. 4. CHECK DOOR SWITCH Check door switch (driver side). Refer to DLK-69, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. ${f 5}.$ CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. N Refer to DLK-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. **6.**CHECK INSIDE KEY ANTENNA Check inside key antenna. Refer to DLK-61, "DTC Logic" (instrument center).

Is the inspection result normal?
YES >> GO TO 7.

Refer to <u>DLK-63</u>, "<u>DTC Logic</u>" (console). Refer to <u>DLK-65</u>, "<u>DTC Logic</u>" (luggage room).

NO >> Repair or replace the malfunctioning parts.

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

7.CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to DLK-103, "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-36, "Intermittent Incident".

NO >> GO TO 1.

ANY DOOR OPEN TO ALL DOORS CLOSED

ANY DOOR OPEN TO ALL DOORS CLOSED: Description

INFOID:0000000005239691

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to DLK-8, "Work
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "WARNING FUNCTION: System Description".
- Door lock function is normal.

ANY DOOR OPEN TO ALL DOORS CLOSED: Diagnosis Procedure

INFOID:0000000005239692

1. CHECK DOOR SWITCH

Check door switch (driver side).

Refer to DLK-69, "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-107, "Component Function Check".

Is the inspection result normal?

>> GO TO 3. YES

NO >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to <u>DLK-61</u>, "<u>DTC Logic</u>" (instrument center).

Refer to <u>DLK-63</u>, "<u>DTC Logic</u>" (console). Refer to <u>DLK-65</u>, "<u>DTC Logic</u>" (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-36, "Intermittent Incident".

NO >> GO TO 1.

PUSH-BUTTON IGNITION SWITCH OPERATION

DLK-218 Revision: 2009 August 2010 FX35/FX50

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

NOTE:

PUSH-BUTTON IGNITION SWITCH OPERATION: Description INFOID:00000005239693
NOTE: • Before performing the diagnosis in the following procedure, check "Work Flow". Refer to DLK-8 . "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 <u>DLK-39</u>, <u>"WARNING FUNCTION: System Description"</u>.
Door lock function is normal.
PUSH-BUTTON IGNITION SWITCH OPERATION: Diagnosis Procedure INFOID:00000005239694
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 DLK-183, "DTC Index".
2.CHECK PUSH-BUTTON IGNITION SWITCH
Check push-button ignition switch.
Refer to PCS-64, "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-108, "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.
Relef to DEK-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-61 , "DTC Logic" (instrument center). Refer to DLK-63 , "DTC Logic" (console).
Refer to DLK-65, "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-36, "Intermittent Incident".
NO >> GO TO 1.
INTELLIGENT KEY IS REMOVED FROM KEY SLOT
INTELLIGENT KEY IS REMOVED FROM KEY SLOT: Description

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TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to DLK-8. "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 <u>DLK-39</u>, "WARNING FUNCTION: System Description".
- · Door lock function is normal.

INTELLIGENT KEY IS REMOVED FROM KEY SLOT: Diagnosis Procedure

INFOID:00000000005239696

1. CHECK KEY SLOT

Check key slot.

Refer to DLK-101, "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-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 <u>DLK-61, "DTC Logic"</u> (instrument center). Refer to <u>DLK-63, "DTC Logic"</u> (console).

Refer to DLK-65, "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-103, "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-36, "Intermittent Incident".

NO >> GO TO 1.

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE Α Description INFOID:0000000005239697 NOTE: Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>. "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-39, "WARNING FUNCTION: System Description". Diagnosis Procedure INFOID:0000000005239698 D ${f 1}$.CHECK "LO- BATT OF KEY FOB WARN" SETTING IN "WORK SUPPORT" Check "LO-BATT OF KEY FOB WARN" setting in "WORK SUPPORT". Е Refer to DLK-54, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 2. F NO >> Set "LO- BATT OF KEY FOB WARN" setting in "WORK SUPPORT". 2 .check intelligent key battery Check Intelligent Key battery. Refer to DLK-99, "Component Function Check". Is the inspection result normal? Н YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3 .CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-107, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. >> Repair or replace the malfunctioning parts. NO 4. CHECK INSIDE KEY ANTENNA DLK Check inside key antenna. Refer to <u>DLK-61</u>, "<u>DTC Logic</u>" (instrument center). Refer to DLK-63, "DTC Logic" (console). Refer to <u>DLK-65</u>, "<u>DTC Logic</u>" (luggage room). Is the inspection result normal? M YES >> GO TO 5. >> Repair or replace the malfunctioning parts. NO CONFIRM THE OPERATION N Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1. Р

DOOR LOCK OPERATION WARNING DOES NOT OPERATE WITH DOOR RE-QUEST SWITCH

< SYMPTOM DIAGNOSIS >

DOOR LOCK OPERATION WARNING DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Description INFOID:0000000005239699

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to DLK-8, "Work
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "WARNING FUNCTION: System Description".

Diagnosis Procedure

INFOID:0000000005239700

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 <u>DLK-197</u>, "<u>DRIVER SIDE</u>: <u>Description</u>" (driver side).

- Go to DLK-197, "PASSENGER SIDE : Description" (passenger side).
- Go to DLK-198, "BACK DOOR: Description" (back door).

2. CHECK DOOR SWITCH

Check door switch (driver side).

Refer to <u>DLK-69</u>, "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-97, "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 <u>DLK-61, "DTC Logic"</u> (instrument center). Refer to <u>DLK-63, "DTC Logic"</u> (console).

Refer to DLK-65, "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-36, "Intermittent Incident".

NO >> GO TO 1.

KEY ID WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY ID WARNING DOES NOT OPERATE

Description INFOID:0000000005239701

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-8</u>, "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-39, "WARNING FUNCTION: System
 Description".

Diagnosis Procedure

1.CHECK INTELLIGENT KEY

Check Intelligent Key.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.

Refer to DLK-107, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

 ${f 3.}$ CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

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INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Description INFOID:0000000005239703

NOTE:

Before performing the diagnosis in the following procedure, check "Work Flow". Refer to DLK-8, "Work Flow".

Diagnosis Procedure

INFOID:0000000005239704

1.CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter.

Refer to <u>DLK-118</u>, "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-36, "Intermittent Incident".

NO >> GO TO 1.

BACK DOOR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >		
BACK DOOR DOES NOT OPERATE		А
OPEN/CLOSURE FUNCTION		/ (
OPEN/CLOSURE FUNCTION : Diagnosis Procedure	INFOID:000000005239705	В
1. CHECK POWER SUPPLY AND GROUND CIRCUIT		
Check power supply and ground circuit. Refer to DLK-67 , "BACK DOOR CONTROL UNIT: Diagnosis Procedure".		С
Is the inspection result normal?		
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.		D
2.CHECK BACK DOOR CLOSURE MOTOR		
Check back door closure motor.		Е
Refer to <u>DLK-117, "Diagnosis Procedure"</u> .		
Is the inspection result normal? YES >> GO TO 3.		F
NO >> Repair or replace the malfunctioning parts.		1
3.confirm the operation		
Confirm the operation again.		G
Is the result normal?		
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.		Н
OPEN FUNCTION		
OPEN FUNCTION : Diagnosis Procedure	INFOID:000000005239706	I
	IIVF-01D.0000000003239700	
1.CHECK BACK DOOR OPENER SWITCH		J
Check back door opener switch. Refer to <u>DLK-86</u> , "Component Function Check".		
Is the inspection result normal?		
YES >> GO TO 2.		DLK
NO >> Repair or replace the malfunctioning parts.		
2.CHECK BACK DOOR OPENER SWITCH OPERATION SIGNAL CIRCUIT		L
Check back door opener switch operation signal circuit. Refer to DLK-79 , "Component Function Check".		
Is the inspection result normal?		M
YES >> GO TO 3.		
NO >> Repair or replace the malfunctioning parts.		Ν
3.CONFIRM THE OPERATION		1.4
Confirm the operation again. Is the result normal?		
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".		0
NO >> GO TO 1.		
CLOSURE FUNCTION		Р
CLOSURE FUNCTION : Diagnosis Procedure	INFOID:000000005239707	
1.CHECK HALF LATCH SWITCH		
Check half latch switch. Refer to <u>DLK-115</u> , " <u>Diagnosis Procedure</u> ".	-	

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Is the inspection result normal?

BACK DOOR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK OPEN SWITCH

Check open switch.

Refer to DLK-111, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK CLOSE SWITCH

Check close switch.

Refer to DLK-113, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK CLOSURE MOTOR

Check closure door motor.

Refer to DLK-117, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

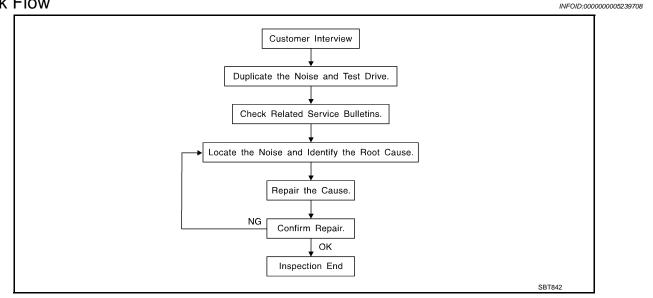
Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

Work Flow



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-231, "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
- 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

clip or fastener/incorrect clearance.

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.

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< SYMPTOM DIAGNOSIS >

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
 Refer to <u>DLK-229</u>, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department.

CAUTION:

Never use excessive force as many components are constructed of plastic and may be damaged.

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm $(3.94 \times 5.31$ in)/76884-71L01: 60×85 mm $(2.36 \times 3.35$ in)/76884-

71L02:15 \times 25 mm (0.59 \times 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 \times 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97 \times 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 \times 50 mm (1.18 \times 1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

 $68370-4B000: 15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad/}68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

< SYMPTOM DIAGNOSIS >

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

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
- 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
- A/C control unit and cluster lid C
- 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
- Inside handle escutcheon to door finisher
- 3. Wiring harnesses tapping
- 4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

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

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

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< SYMPTOM DIAGNOSIS >

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:

- Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 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:

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

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

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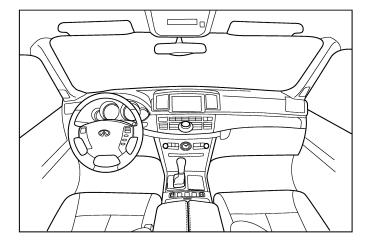
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

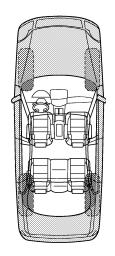
Dear Infiniti Customer:

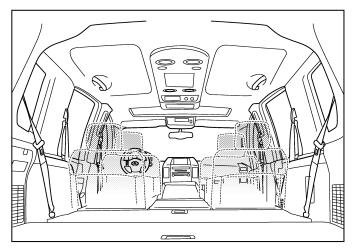
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service consultant or technician to ensure we confirm the noise you are hearing.

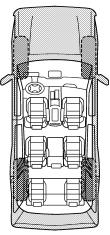
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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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Briefly describe the location where the no	ise occurs:			
II. WHEN DOES IT OCCUR? (please ch	eck the box	es that ap	ply)	
□ anytime□ 1st time in the morning□ only when it is cold outside□ only when it is hot outside	☐ whe	sitting oun it is rain or dusty contribute or sitting on the contribute of the contr	ing or wet	
III. WHEN DRIVING:	IV. WH	AT TYPE	OF NOIS	Ē
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: miles or mi	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	PERSONN	IEL		
Test Drive Notes:				
		YES	NO	Initials of person
		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 confir	m renair	YES	NO	
- Noise verified on test drive	•			

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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

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NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- Perform the necessary repair operation.

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PRECAUTIONS

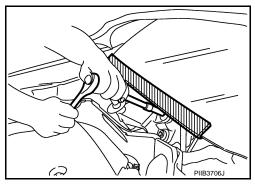
< PRECAUTION >

- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- Perform self-diagnosis check of all control units using CONSULT-III.

Precaution for Procedure without Cowl Top Cover

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



Work

- 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.

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PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Special Service Tools

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

	Tool number ent-Moore No.) Tool name	Description	
(J-39570) Chassis ear	SIIAO993E	Locates the noise	
(J-43980) NISSAN Squeak and Rat- tle Kit	SIIA0994E	Repairs the cause of noise	

Commercial Service Tools

	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	PIIB7923J	Removes the clips, pawls, and metal clips
Power tool		
	PIIB1407E	

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REMOVAL AND INSTALLATION

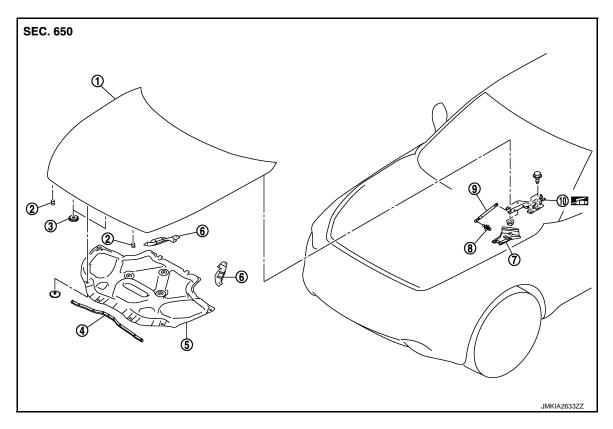
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY: Exploded View

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REMOVAL



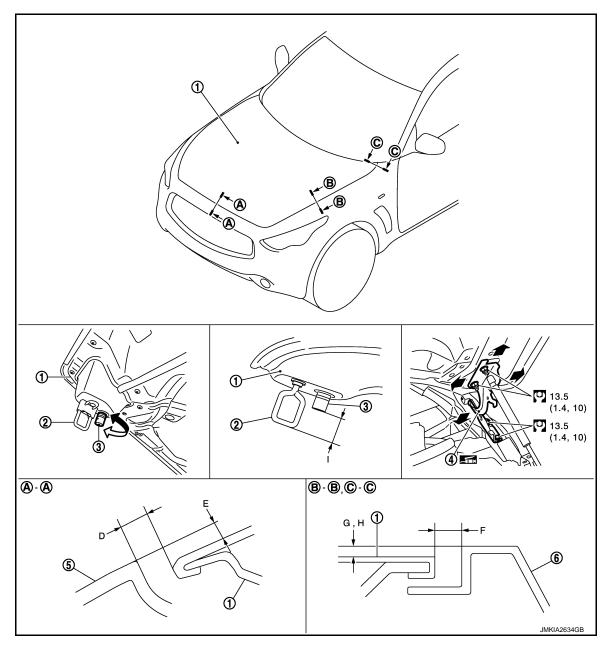
- 1. Hood assembly
- 4. Radiator core seal
- 7. Hood hinge cover
- 10. Hood hinge

- 2. Hood bumper rubber
- Hood insulator
- 8. Stud ball

- 3. Seal
- 6. Inner cover
- 9. Hood stay

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

ADJUSTMENT



- Hood assembly
 Hood hinge
- Hood striker
- 5. Front bumper fascia
- Hood bumper rubber
- 6. Front fender

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

HOOD ASSEMBLY: Removal and Installation

CAUTION:

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

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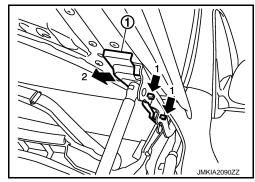
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Remove hood hinge cover (LH/RH) (1).

NOTE:

While pushing the pawls, pull hood hinge cover in the direction of the arrow.

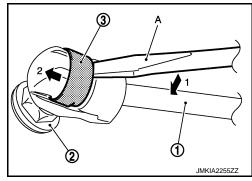


- 3. Support hood assembly with a proper material to prevent it from falling.

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).



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- 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-238, "HOOD ASSEMBLY: Adjustment".
- Washer nozzle and washer tube: Refer to WW-117, "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

Check the clearance and the surface height between hood and each part by seeing and touching. Fitting standard dimension in the table below should be satisfied.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

					Unit: mm (in)
	Portion			Standard	Difference (LH/RH, MAX)
Hood – Front bumper fascia	per A – A		Clearance	2.6 - 5.6 (0.102 - 0.220)	_
	A-A	E	Surface height	-2.0 - 0.5 (-0.079 - 0.020)	_
Hood – Front fender	D D	F	Clearance	2.5 - 4.5 (0.098 - 0.177)	2.0 (0.079)
	B – B	G	Surface height	0 - 0.0 (-0.118 - 0.000)	_
	C – C	Н	Surface height	-1.0 - 1.0 (-0.039 - 0.039)	_
Hood striker – Bumper rubber	_	ı	Height difference	32.3 – 33.3 (1.272 – 1.311)	_

- 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.
- 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.
- Check that hood lock primary latch is securely engaged with striker by dropping hood from approximately 200 mm (7.874 in) height or pressing lightly on the hood.
 CAUTION:

Never drop hood from a height of 300 mm (11.811 in) or more.

- 6. Install as static closing face of hood is 94 490 N (9.6 50.0 kg, 21.1 110 lb). **NOTE:**
 - Exercise vertical force on right side and left side of hood lock.
 - Do not simultaneously press both sides.
- 7. After adjustment, tighten hood hinge mounting nuts to the specified torque.

CAUTION:

- 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

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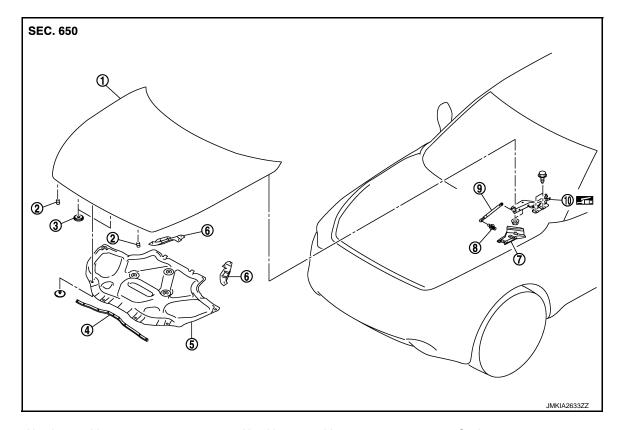
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HOOD HINGE: Exploded View

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- 1. Hood assembly
- 4. Radiator core seal
- Hood hinge cover
- 10. Hood hinge

- 2. Hood bumper rubber
- 5. Hood insulator
- 8. Stud ball

- 3. Seal
- 6. Inner cover
- 9. Hood stay

Refer to <u>GI-4, "Components"</u> for symbols in the figure.

HOOD HINGE: Removal and Installation

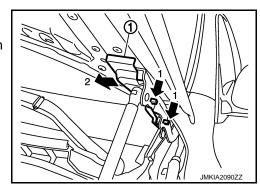
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REMOVAL

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-237, "HOOD ASSEMBLY: Removal and Installation".
- 3. Remove front fender. Refer to <u>DLK-245</u>, "Removal and Installation".
- 4. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Install in the reverse order of removal.

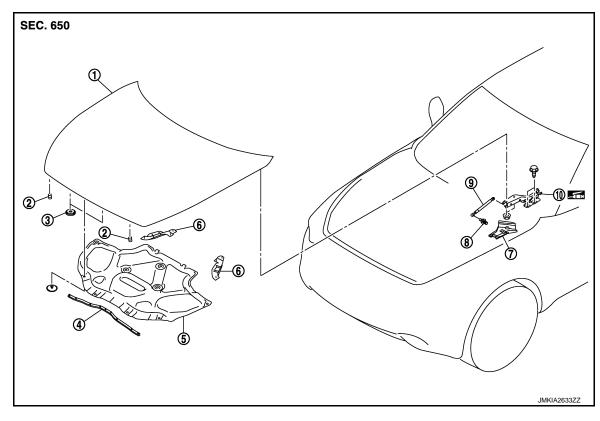
CAUTION:

• Apply anticorrosive agent onto the mounting surface.

- 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-238, "HOOD ASSEMBLY: Adjustment".

HOOD STAY

HOOD STAY: Exploded View



- Hood assembly
- 4. Radiator core seal
- Hood hinge cover
- 10. Hood hinge

- 2. Hood bumper rubber
- 5. Hood insulator
- 8. Stud ball

- 3. Seal
- 6. Inner cover
- Hood stay

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

HOOD STAY: Removal and Installation

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.

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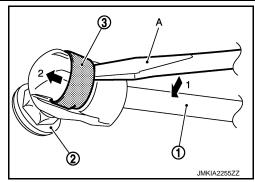
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HOOD

< REMOVAL AND INSTALLATION >

- 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.

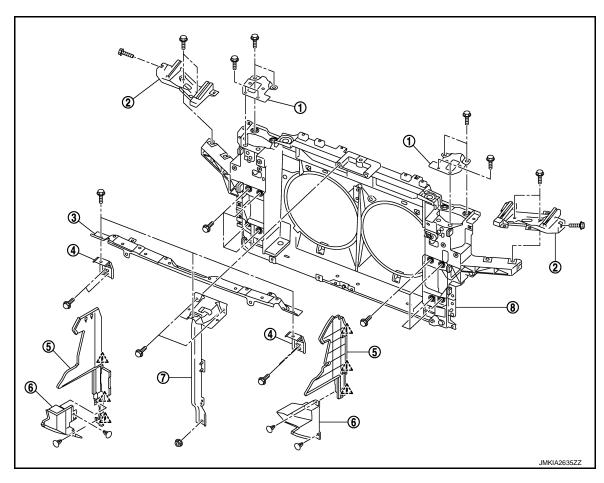


INSTALLATION

Install in the reverse order of removal.

RADIATOR CORE SUPPORT

Exploded View INFOID:0000000005239724



- Hood lock bracket (LH/RH)
- Front bumper side retainer (LH/RH)
- Hood lock stay
- : Pawl

- 2. Head lamp bracket (LH/RH)
- 5. Air guide upper (LH/RH)
- Radiator core support
- Front bumper upper retainer
- Air guide lower (LH/RH) 6.

Removal and Installation

REMOVAL

- 1. Use refrigerant collecting equipment to discharge the refrigerant. Refer to HA-25, "Collection and Charge".
- Remove floor under cover. Refer to <u>EXT-31</u>, "Removal and Installation".
- 3. Remove front bumper fascia, front bumper fascia lower, energy absorber and bumper reinforcement. Refer to EXT-13, "Removal and Installation".
- Drain engine coolant from radiator.
 - VQ35HR models: Refer to <u>CO-8</u>, "<u>Draining</u>".
 - VK50VE models: Refer to <u>CO-33</u>, "<u>Draining</u>".
- 5. Remove engine coolant reservoir tank. Refer to CO-14, "Exploded View".
- 6. Remove air guide lower (LH/RH).
- 7. Remove air guide upper (LH/RH).
- 8. Remove front combination lamp (LH/RH). Refer to EXL-227, "Exploded View".
- 10. Remove mounting bolts and then remove head lamp bracket (LH/RH).

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Disconnect hood lock switch connector from head lamp bracket (RH).

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RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

- 11. Remove mounting bolts and then remove hood lock bracket assembly (LH/RH).
- 12. Remove washer tank and washer tank inlet. Refer to WW-114, "Exploded View".
- 13. Remove ambient sensor. Refer to HAC-180, "Exploded View".
- Remove GAS sensor (with intelligent A/C). Refer to <u>HAC-185, "Exploded View"</u>.
- 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".
- Remove ICC sensor integrated unit (with intelligent cruse control model). Refer to CCS-184, "Exploded View".
- 19. Remove intelligent key warning buzzer. Refer to <u>DLK-284, "Removal and Installation"</u>.
- 20. Remove power steering oil cooler.
 - VQ35HR models: Refer to <u>ST-48</u>, "VQ35HR: Exploded View".
 - VK50VE models: Refer to <u>ST-49, "VK50VE : Exploded View"</u>.
- 21. Disconnect harness connector of refrigerant pressure sensor. Refer to <u>HAC-186, "Exploded View"</u>.
- 22. Remove condenser assembly and condenser pipe assembly. Refer to HA-47, "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.
 - VQ35HR, 2WD models: Refer to TM-176, "2WD : Exploded View".
 - VQ35HR, AWD models: Refer to TM-178, "AWD: Exploded View".
 - VK50VE models: Refer to TM-359, "Exploded View".
- 24. Remove radiator upper hose and lower hose at radiator side.
 - VQ35HR models: Refer to CO-24, "Exploded View".
 - VK50VE models: Refer to CO-46, "Exploded View".
- 25. Remove radiator.
 - VQ35HR models: Refer to CO-14, "Removal and Installation".
 - VK50VE models: Refer to CO-39, "Removal and Installation".
- 26. Remove crash zone sensor. Refer to SR-21, "Removal and Installation".
- 27. Disconnect harness connector of cooling fan.
 - VQ35HR models: Refer to <u>CO-17</u>, "<u>Exploded View</u>".
 - VK50VE models: Refer to CO-42, "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)
 - VQ35HR models: Refer to CO-17, "Exploded View".
 - VK50VE models: Refer to CO-42, "Exploded View".
 - Front bumper side retainer (LH/RH)

INSTALLATION

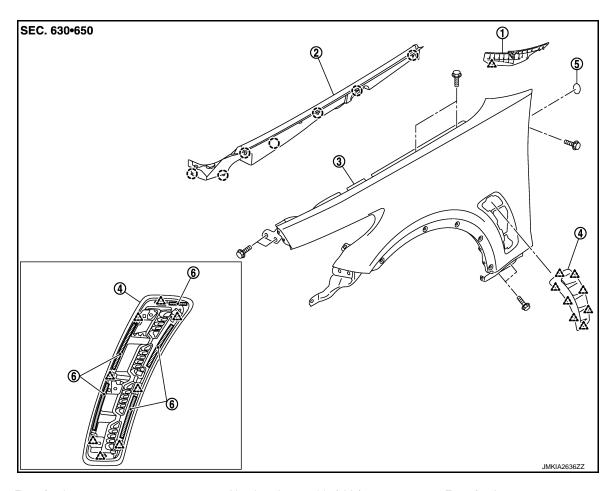
Install in the reverse order of removal.

CAUTION:

- After installation, replenish the following parts.
- Refrigerant: Refer to <u>HA-25</u>, "<u>Collection and Charge</u>" (VQ35HR models) or <u>HA-81</u>, "<u>Collection and Charge</u>" (VK50VE models).
- Engine coolant: Refer to CO-9, "Refilling" (VQ35HR models) or CO-34, "Refilling" (VK50VE models).
- A/T fluid: Refer to TM-160, "Changing" (VQ35HR models) or TM-342, "Changing" (VK50VE models).
- Power steering oil: Refer to ST-12, "Inspection".
- After installation, adjust the following parts.
- ICC sensor integrated unit (with intelligent cruse control model): Refer to <u>CCS-13</u>, "<u>ADDITIONAL</u> <u>SERVICE WHEN REPLACING CONTROL UNIT (ICC SENSOR INTEGRATED UNIT)</u>: Special Repair Requirement".
- Front combination lamp: Refer to EXL-224, "Aiming Adjustment Procedure".
- Perform camera image calibration. Refer to <u>AV-462</u>, "CALIBRATING CAMERA IMAGE (AROUND <u>VIEW MONITOR</u>): Work <u>Procedure</u>"

FRONT FENDER

Exploded View



- Front fender cover
- 4. Front fender duct assembly
- 2. Hood seal assembly (side)
- Seal

- 3. Front fender
- 6. Double-faced adhesive tape (t: 0.8 mm, 0.031 in)

Removal and Installation

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 font 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".
- Remove front bumper fascia. Refer to <u>EXT-13</u>, "<u>Removal and Installation</u>".
- 5. Remove center mud guard. Refer to EXT-29, "Removal and Installation".
- Remove front combination lamp. Refer to <u>EXL-228</u>, "<u>Removal and Installation</u>".
- 7. Remove front fender cover.
- 8. Remove mounting bolts and remove front fender. **CAUTION:**

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FRONT FENDER

< REMOVAL AND INSTALLATION >

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-238, "HOOD ASSEMBLY: Adjustment".
- Front door: Refer to <u>DLK-249</u>, "<u>DOOR ASSEMBLY</u>: Adjustment".
- Front combination lamp: Refer to EXL-224, "Aiming Adjustment Procedure".
- Perform camera image calibration. Refer to <u>AV-462</u>, "CALIBRATING CAMERA IMAGE (AROUND <u>VIEW MONITOR)</u>: Work <u>Procedure</u>".

Disassembly and Assembly

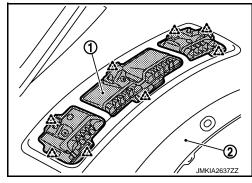
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- 1. Remove fender protector (front). Refer to EXT-25, "FENDER PROTECTOR: Removal and Installation".
- 2. Disengage pawls of front fender duct (1) assembly from front fender (2) to remove.

CAUTION:

When removing front fender duct assembly, peel off the double-faced adhesive tape at a time, and carefully to remove it.





FRONT DOOR

< REMOVAL AND INSTALLATION >

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY: Exploded View

INFOID:0000000005239729

Α

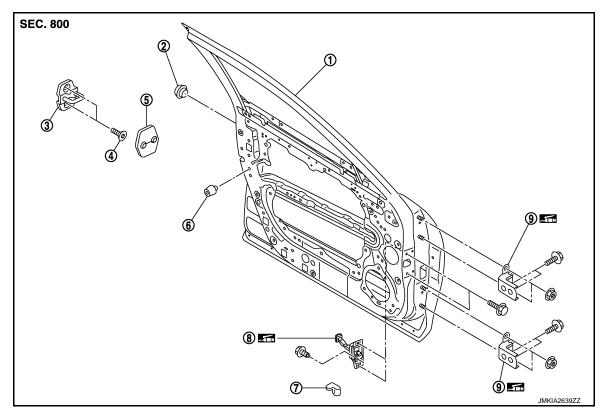
В

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REMOVAL



- 1. Front door panel
- 4. TORX bolt
- 7. Door check link cover
- 2. Grommet
- 5. Door striker cover
- 8. Door check link
- Refer to GI-4. "Components" for symbols in the figure.

- 3. Door striker
- 6. Bumper rubber
- 9. Door hinge (upper/lower)

ADJUSTMENT

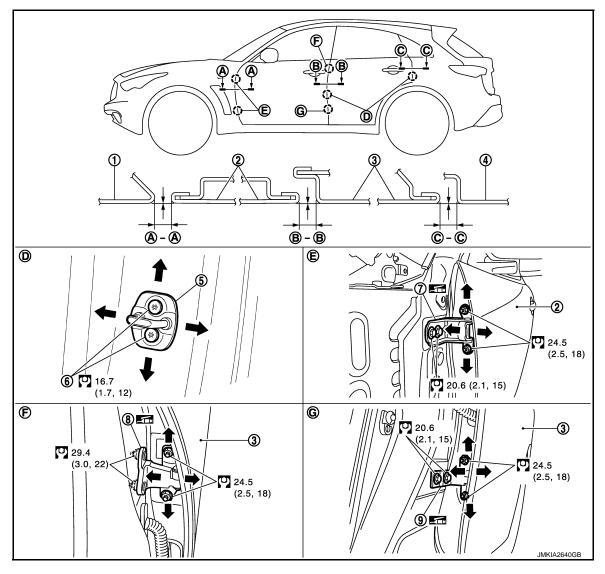
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Front fender

2. Front door

- Body side outer
- 5. Door striker
- 7. Front door hinge (upper/lower)
- 8. Rear door hinge (upper)
- 3. Rear door
- 6. TORX bolt
- 9. Rear door hinge (lower)

INFOID:0000000005239730

Refer to $\underline{\text{GI-4.}}$ "Components" for symbols in the figure.

DOOR ASSEMBLY: Removal and Installation

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.
- After installation, check door open/close, lock/unlock operation.

FRONT DOOR

< REMOVAL AND INSTALLATION >

- After installation, perform the fitting adjustment. Refer to DLK-249, "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

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)

INFOID:0000000005239731

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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)	-1.0 - 1.0 (-0.039 - 0.039)

- 1. Remove front fender. Refer to <u>DLK-245</u>, "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.
- 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-245, "Removal and Installation".

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DLK

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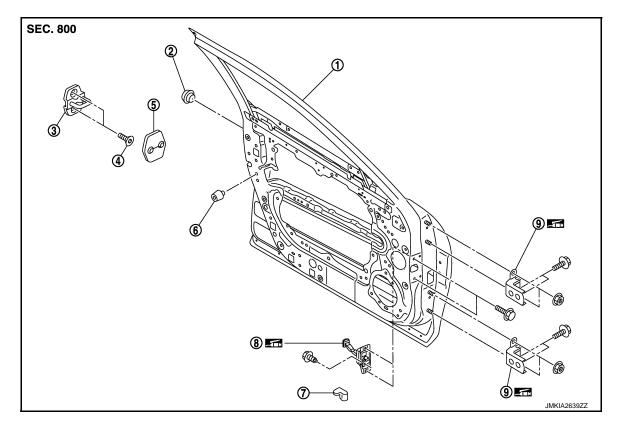
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Revision: 2009 August **DLK-249** 2010 FX35/FX50

DOOR STRIKER: Exploded View

INFOID:0000000005239732



- Front door panel
- TORX bolt
- 7. Door check link cover
- Grommet
- 5. Door striker cover
- 8. Door check link
- Refer to GI-4, "Components" for symbols in the figure.

- 3. Door striker
- 6. Bumper rubber
- Door hinge (upper/lower)

DOOR STRIKER: Removal and Installation

REMOVAL

- Remove door striker cover.
- 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-249, "DOOR ASSEMBLY: Adjustment".

DOOR HINGE

INFOID:0000000005239733

DOOR HINGE: Exploded View

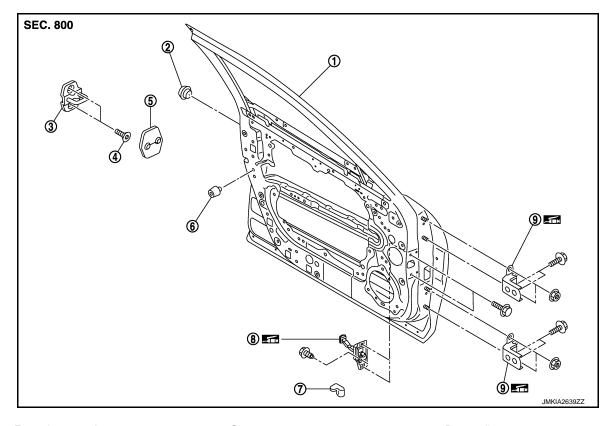
INFOID:0000000005239734

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- Front door panel
- 4. TORX bolt
- 7. Door check link cover
- 2. Grommet
- Door striker cover
- 8. Door check link

- 3. Door striker
- 6. Bumper rubber
- 9. Door hinge (upper/lower)

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

DOOR HINGE: Removal and Installation

INFOID:0000000005239735

REMOVAL

- Remove front fender. Refer to <u>DLK-245</u>, "Removal and Installation".
- 2. Remove front door assembly. Refer to DLK-248, "DOOR ASSEMBLY: Removal and Installation".
- 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 <u>DLK-249, "DOOR ASSEMBLY: Adjust-ment".</u>
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

DOOR CHECK LINK

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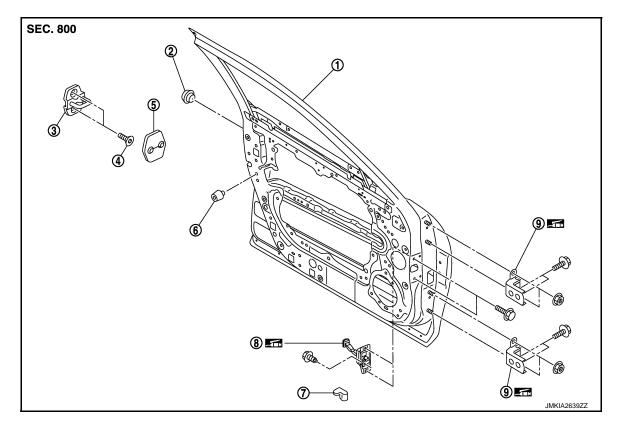
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DOOR CHECK LINK: Exploded View

INFOID:0000000005239736



- Front door panel
- TORX bolt
- 7. Door check link cover
- Grommet
- 8.

Door striker cover

- Door check link
- Refer to GI-4, "Components" for symbols in the figure.

- 3. Door striker
- 6. Bumper rubber
- Door hinge (upper/lower)

DOOR CHECK LINK: Removal and Installation

REMOVAL

1. Remove front door finisher. Refer to INT-11, "Removal and Installation".

5.

- 2. Fully close the front door window.
- 3. Remove front door speaker. Refer to AV-139, "Removal and Installation" (without navigation) or AV-336, "Removal and Installation" (single monitor navigation) or AV-567, "Removal and Installation" (twin monitor 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.

INFOID:0000000005239737

REAR DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000005239738

Α

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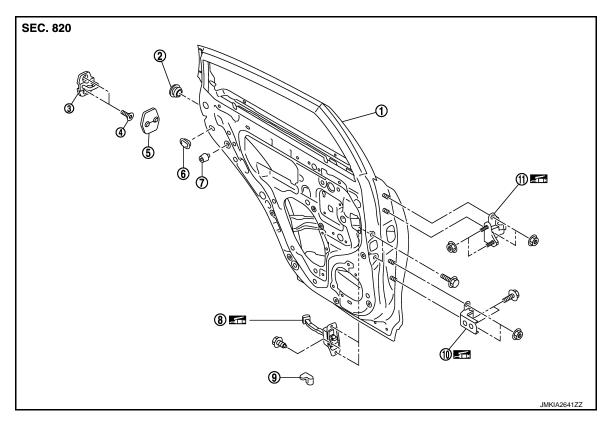
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REMOVAL



- 1. Rear door panel
- 4. TORX bolt
- 7. Bumper rubber
- 10. Door hinge (lower)
- 2. Grommet
- 5. Door striker cover
- 8. Door check link
- 11. Door hinge (upper)
- 3. Door striker
- 6. Grommet
- 9. Door check link cover

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

ADJUSTMENT

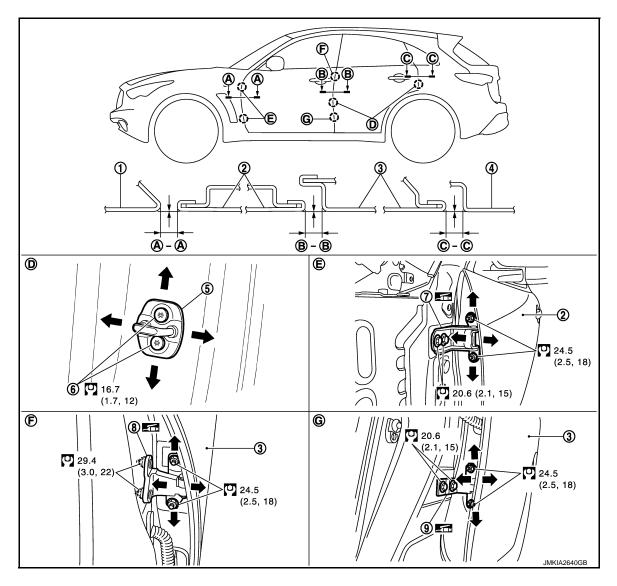
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1. Front fender

Body side outer

- 2. Front door
- Door striker
- 7. Front door hinge (upper/lower)
- 8. Rear door hinge (upper)
- 3. Rear door
- 6. TORX bolt
- 9. Rear door hinge (lower)

Refer to $\underline{\text{GI-4.}}$ "Components" for symbols in the figure.

DOOR ASSEMBLY: Removal and Installation

INFOID:0000000005239739

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

- 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.
- After installation, check door open/close, lock/unlock operation.

REAR DOOR

< REMOVAL AND INSTALLATION >

- After installation, perform the fitting adjustment. Refer to DLK-255, "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:0000000005239740

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)
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Portion		Clearance	Surface height
Front door – Rear door	B – B	3.0 - 5.0 (0.118 - 0.197)	-1.0 - 1.0 (-0.039 - 0.039)
Rear door – Body side outer	C – C	3.0 - 5.0 (0.118 - 0.197)	-1.0 - 1.0 (-0.039 - 0.039)

- Remove center pillar lower garnish. Refer to INT-17, "Removal and Installation". 1.
- 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.
- 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.
- Install center pillar lower garnish. Refer to <u>INT-17</u>, "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

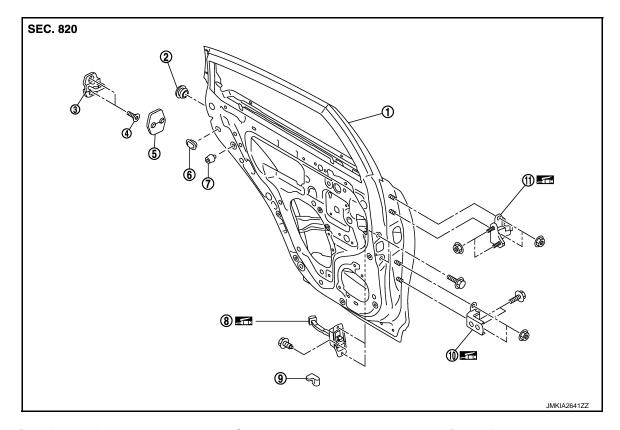
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DLK-255 Revision: 2009 August 2010 FX35/FX50

DOOR STRIKER: Exploded View

INFOID:0000000005239741



- 1. Rear door panel
- 4. TORX bolt
- 7. Bumper rubber
- 10. Door hinge (lower)
- 2. Grommet
- Door striker cover
- 8. Door check link
- 11. Door hinge (upper)
- 3. Door striker
- 6. Grommet
- 9. Door check link cover

Refer to $\underline{\mbox{GI-4.}\mbox{"}\mbox{Components"}}$ for symbols in the figure.

DOOR STRIKER: Removal and Installation

INFOID:0000000005239742

REMOVAL

- 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 <u>DLK-255</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjust-ment</u>".

DOOR HINGE

DOOR HINGE: Exploded View

INFOID:0000000005239743

Α

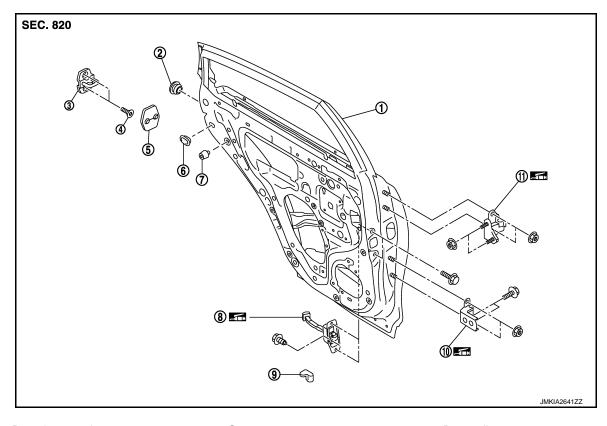
В

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- Rear door panel
- 4. TORX bolt
- Bumper rubber 7.
- 10. Door hinge (lower)
- Grommet
- 5. Door striker cover
- Door check link 8.
- 11. Door hinge (upper)
- 3. Door striker
- 6. Grommet
- 9. Door check link cover

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

DOOR HINGE: Removal and Installation

INFOID:0000000005239744

REMOVAL

- Remove center pillar lower garnish. Refer to INT-17, "Removal and Installation".
- Remove rear door assembly. Refer to <u>DLK-254</u>, "<u>DOOR ASSEMBLY</u>: <u>Removal and Installation</u>". 2.
- 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 <u>DLK-255</u>, "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

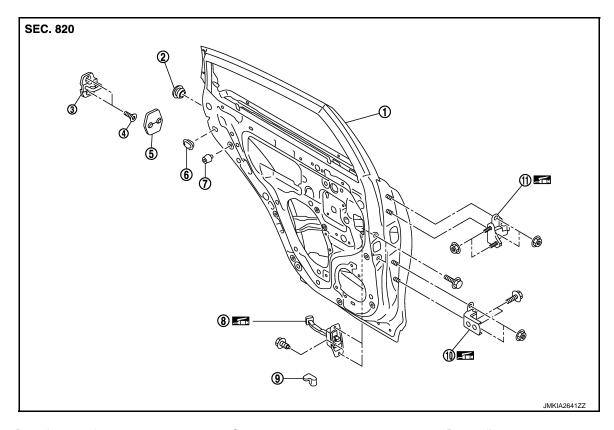
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DLK-257 Revision: 2009 August 2010 FX35/FX50

DOOR CHECK LINK: Exploded View

INFOID:0000000005239745



- 1. Rear door panel
- 4. TORX bolt
- 7. Bumper rubber
- 10. Door hinge (lower)
- Grommet
- Door striker cover
- 8. Door check link
- 11. Door hinge (upper)
- Door striker
- 6. Grommet
- 9. Door check link cover

Refer to $\underline{\mbox{GI-4, "Components"}}$ for symbols in the figure.

DOOR CHECK LINK: Removal and Installation

INFOID:0000000005239746

REMOVAL

- 1. Remove rear door finisher. Refer to INT-14, "Removal and Installation".
- 2. Fully close the rear door window.
- Remove rear door speaker. Refer to <u>AV-140</u>, "<u>Removal and Installation</u>" (without navigation) or <u>AV-337</u>, "<u>Removal and Installation</u>" (single monitor navigation) or <u>AV-568</u>, "<u>Removal and Installation</u>" (twin monitor 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

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY: Exploded View

INFOID:0000000005239747

Α

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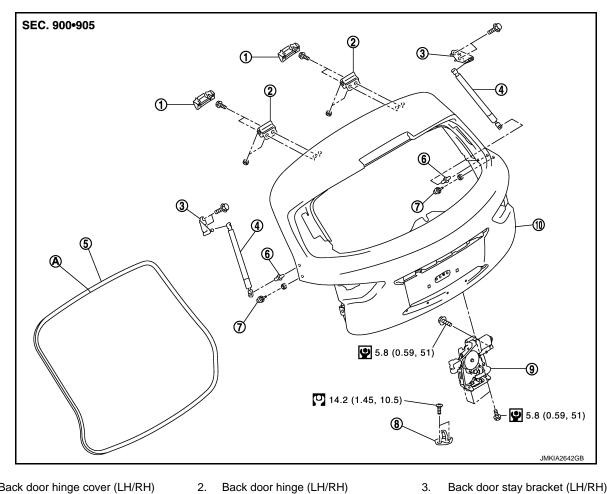
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REMOVAL



- Back door hinge cover (LH/RH)
- 4.
- 7. Bumper rubber (LH/RH)
- 10. Back door assembly
- : Center mark

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

- Back door stay (LH/RH)
- Back door weather-strip 5.

 - Back door striker

- Back door stay bracket (LH/RH) 3.
- Stud ball (LH/RH) 6.
- Back door lock assembly

ADJUSTMENT

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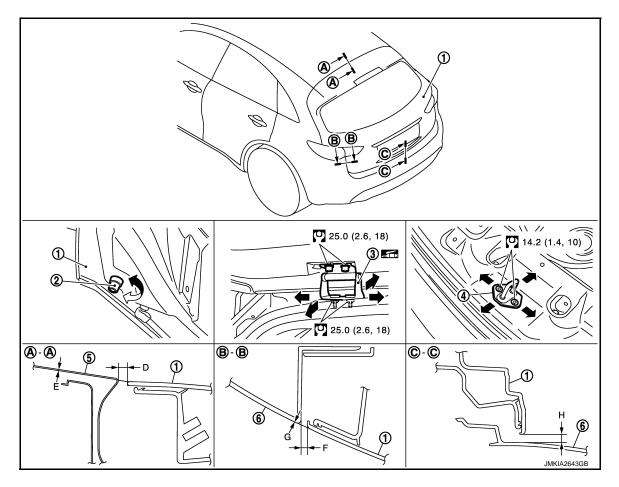
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2010 FX35/FX50

DLK-259

Revision: 2009 August



- Back door assembly
 Back door striker
- 2. Bumper rubber
- 5 Roof

- 3. Back door hinge
- 6. Rear bumper fascia

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

BACK DOOR ASSEMBLY: Removal and Installation

INFOID:0000000005239748

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, back door plate and back door hinge cover. Refer to INT-32, "Removal and Installation".
- 2. Remove clips of headlining at rear end. Refer to INT-24, "Removal and Installation".
- Disconnect connectors and 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-32, "Exploded View" and WW-129, "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 back door stay. Refer to DLK-264, "BACK DOOR STAY: Removal and Installation".
- 9. Remove back door hinge mounting bolts on back door and remove back door assembly.

BACK DOOR

< REMOVAL AND INSTALLATION >

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-261, "BACK DOOR ASSEMBLY:</u> Adjustment".
- After installation, perform the camera image calibration. Refer to AV-245, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR): Work Procedure" (single monitor) or AV-462, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR): Work Procedure" (twin monitor).

BACK DOOR ASSEMBLY: Adjustment

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)

INFOID:0000000005239749

Α

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Portion				Standard
Back door – Roof	A – A	D	Clearance	5.0 - 9.0 (0.197 - 0.354)
		Е	Surface height	-0.4 - 3.6 (-0.016 - 0.142)
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	Н	Clearance	5.0 - 9.0 (0.197 - 0.354)

- 1. Remove back door hinge cover. Refer to INT-32, "Removal and Installation".
- 2. Loosen back door hinge mounting bolts (back door side).
- Loosen bumper rubber.
- Remove luggage rear plate mask. Refer to <u>INT-29</u>, "Removal and Installation".
- 5. Loosen back door striker mounting bolts.
- 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.
- Check the clearance and surface height.
- 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.
- 9. Install back door hinge cover and luggage rear plate mask. Refer to INT-32, "Removal and Installation" and INT-29, "Removal and Installation".

BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that it becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

Р

DLK-261 Revision: 2009 August 2010 FX35/FX50

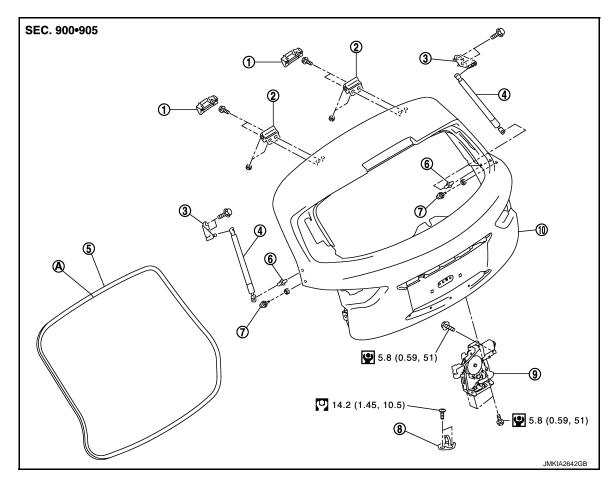
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BACK DOOR STRIKER: Exploded View

INFOID:0000000005239750



- 1. Back door hinge cover (LH/RH)
- 4. Back door stay (LH/RH)
- 7. Bumper rubber (side) (LH/RH)
- 10. Back door assembly
- A : Center mark
- Refer to GI-4, "Components" for symbols in the figure.
- 2. Back door hinge (LH/RH)
- 5. Back door weather-strip
- 8. Back door striker

- 3. Back door stay bracket (LH/RH)
- 6. Stud ball (LH/RH)
- 9. Back door lock assembly

BACK DOOR STRIKER: Removal and Installation

REMOVAL

- Remove luggage rear plate mask. Refer to <u>INT-29</u>, "Removal and Installation".
- Remove mounting bolts, and then remove back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-261, "BACK DOOR ASSEMBLY: Adjustment"</u>.

BACK DOOR HINGE

INFOID:0000000005239751

BACK DOOR HINGE: Exploded View

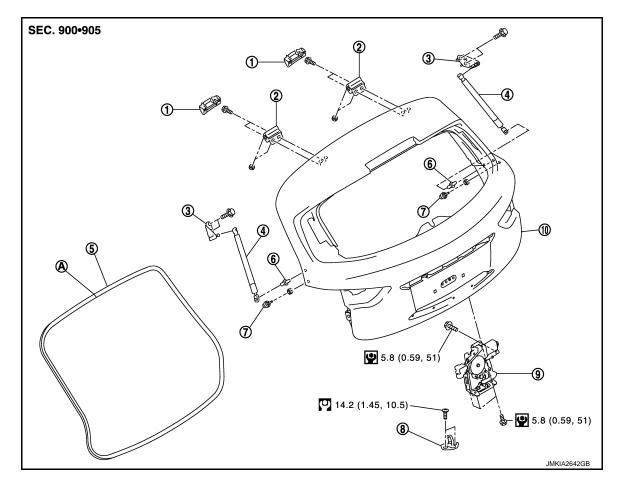
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- Back door hinge cover (LH/RH)
- 4. Back door stay (LH/RH)
- 7. Bumper rubber (side) (LH/RH)
- 10. Back door assembly
- A : Center mark
- Refer to GI-4, "Components" for symbols in the figure.
- 2. Back door hinge (LH/RH)
- 5. Back door weather-strip
- Back door striker

- 3. Back door stay bracket (LH/RH)
- 6. Stud ball (LH/RH)
- 9. Back door lock assembly

BACK DOOR HINGE: Removal and Installation

REMOVAL

- 1. Remove luggage side lower finisher and luggage side upper finisher. Refer to INT-29, "Removal and Installation".
- 2. Using a remover tool, remove headlining clip at the rear side of headlining, and then remove rear side of headlining. Refer to <u>INT-24</u>, "Removal and Installation".
- Remove back door assembly. Refer to <u>DLK-260</u>, "BACK <u>DOOR ASSEMBLY</u>: Removal and Installation".
- 4. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to DLK-261, "BACK DOOR ASSEMBLY: Adjustment".

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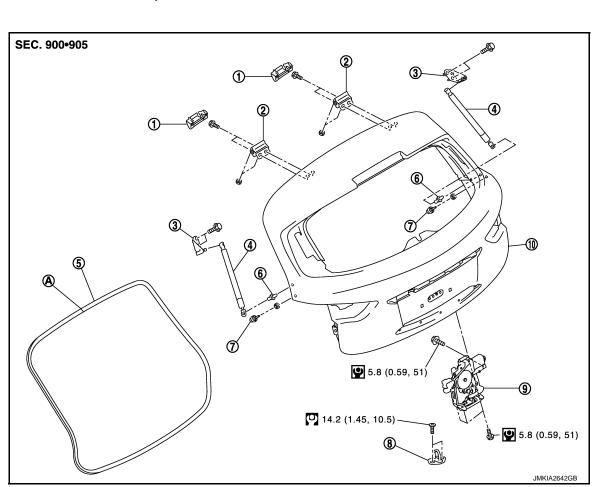
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Revision: 2009 August **DLK-263** 2010 FX35/FX50

After installation, perform the camera image calibration. Refer to <u>AV-245</u>, "<u>CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)</u>: <u>Work Procedure</u>" (single monitor) or <u>AV-462</u>, "<u>CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)</u>: <u>Work Procedure</u>" (twin monitor).

BACK DOOR STAY

BACK DOOR STAY: Exploded View



- 1. Back door hinge cover (LH/RH)
- 4. Back door stay (LH/RH)
- 7. Bumper rubber (side) (LH/RH)
- 10. Back door assembly
- A : Center mark

- 2. Back door hinge (LH/RH)
- 5. Back door weather-strip
- 8. Back door striker

3. Back door stay bracket (LH/RH)

INFOID:0000000005239755

INFOID:0000000005239754

- 6. Stud ball (LH/RH)
- Back door lock assembly

BACK DOOR STAY: Removal and Installation

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

REMOVAL

1. 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.

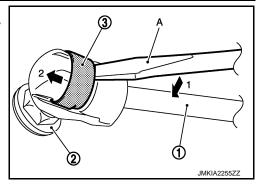
2. Remove mounting bolts of back door stay (body side).

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BACK DOOR

< REMOVAL AND INSTALLATION >

- Remove the metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (back door side) by using a flat-bladed screwdriver (A).
- Remove back door stay (back door side).



Remove mounting bolts of back door stay bracket, and then remove stud ball assembly.

INSTALLATION

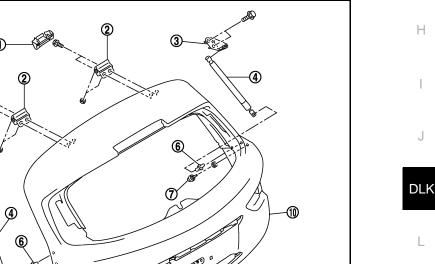
Install in the reverse order of removal.

SEC. 900-905

CAUTION:

After installation, check back door open/close operation. BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP: Exploded View



5.8 (0.59, 51

14.2 (1.45, 10.5)

- Back door hinge cover (LH/RH) 4. Back door stay (LH/RH)
- 7. Bumper rubber (side) (LH/RH)

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

- 10. Back door assembly
- : Center mark

- Back door hinge (LH/RH)
- Back door weather-strip
- Back door striker

- 6. Stud ball (LH/RH)
- Back door lock assembly

3. Back door stay bracket (LH/RH)

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5.8 (0.59, 51)

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DLK-265 Revision: 2009 August 2010 FX35/FX50 Α

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BACK DOOR

< REMOVAL AND INSTALLATION >

BACK DOOR WEATHER-STRIP: Removal and Installation

INFOID:0000000005239757

REMOVAL

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

CAUTION:

Never pull strongly on weather-strip.

INSTALLATION

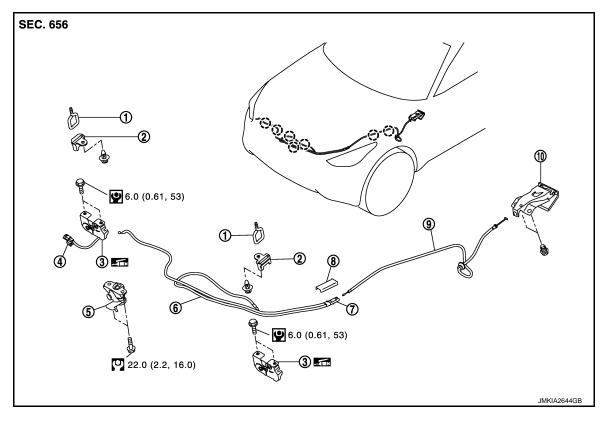
- 1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.
- 2. Pull weather-strip gently to ensure that there is no loose section.

NOTE:

Check that weather-strip fits tightly in each corner and luggage rear plate.

HOOD LOCK

Exploded View INFOID:0000000005239758



- Hood striker (LH/RH)
- Hood switch
- Hood lock control cable protector 7.
- 2. Hood lock cover (LH/RH)
- Secondary latch 5.
- Hood lock control cable protector cover
- 3. Hood lock (LH/RH)
- 6. Hood lock control cable (front)
- Hood lock control cable (rear) 9.

10. Hood lock opener

: Clip

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

Removal and Installation

REMOVAL

CAUTION:

Before removal, confirm how the hood lock control cable is allocated and connected.

- Remove air duct (inlet). Refer to EM-29, "Exploded View".
- Remove engine room cover (LH/RH) (VK50VE models). Refer to EM-175, "Removal and Installation". 2.
- Remove air cleaner case assembly (RH). Refer to EM-29, "Removal and Installation". 3.
- 4. Disconnect hood switch connector from head lamp bracket (RH).
- Remove mounting bolts and remove hood lock bracket (LH/RH).
- 6. Disconnect hood lock control cable (front) from hood lock (LH/RH).
- 7. Disassembly hood lock from hood lock bracket (LH/RH).
- 8. Remove fender protector (LH). Refer to EXT-25, "FENDER PROTECTOR: Removal and Installation".
- Remove clips of hood seal assembly (side) (LH) at the front side.

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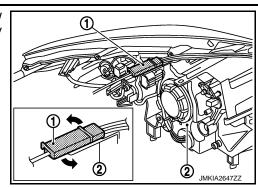
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DLK-267 Revision: 2009 August 2010 FX35/FX50

HOOD LOCK

< REMOVAL AND INSTALLATION >

 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.
- Remove grommet on the lower dash, pull hood lock control cable (rear) toward the passenger compartment.

CAUTION:

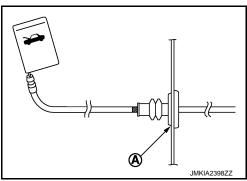
While pulling, never damage (peeling) the outside of the hood lock control cable.

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 <u>DLK-238</u>, "HOOD ASSEMBLY: Adjustment".
- After installation, perform the inspection. Refer to <u>DLK-268</u>, "Inspection".

Inspection INFOID:000000005239760

NOTE:

If the hood lock cable is bent or deformed, replace it.

- Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] by hood weight.
- While operating hood opener, carefully check that the front end of hood is raised by approximately 20 mm (0.787 in). Also check that hood opener returns to the original position.
- 3. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or less.
- 4. Install so that static closing force of hood is 94 490 N (9.6 50.0 kg, 21.1 110 lb).

NOTE:

- Exert vertical force on right side and left side of hood lock.
- Do not simultaneously press both sides.
- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

Revision: 2009 August **DLK-268** 2010 FX35/FX50

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK: Exploded View

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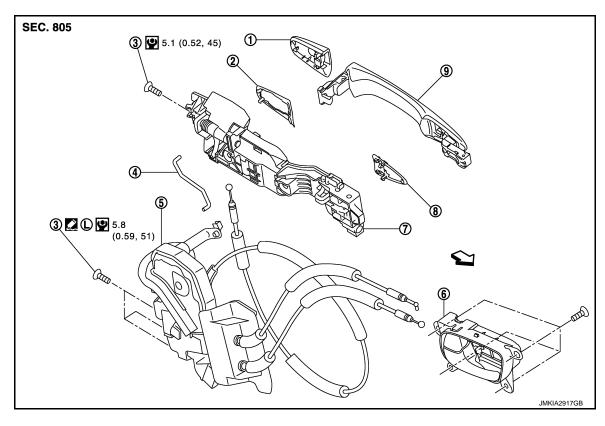
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Door key cylinder assembly (driver

Outside handle escutcheon (passenger side)

- Key rod (driver side)
- Outside handle bracket
- : Vehicle front

Rear gasket

TORX bolt

Inside handle

- Door lock assembly
- Front gasket 9. Outside handle

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

DOOR LOCK: Removal and Installation

Remove front door finisher. Refer to INT-11, "Removal and Installation".

8.

- Remove front door glass. Refer to GW-18, "Removal and Installation".
- 3. Remove front door module assembly. Refer to GW-21, "Removal and Installation".
- Remove door key cylinder assembly (outside handle escutcheon), outside handle, outside handle bracket, rear gasket and front gasket. Refer to <u>DLK-271, "OUTSIDE HANDLE: Removal and Installation"</u>.
- Remove door lock assembly TORX bolts.
- Disconnect door lock actuator connector, and then remove door lock assembly. 6.
- 7. Remove key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

REMOVAL

Check door lock cables are properly engaged with inside handle and outside handle.

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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

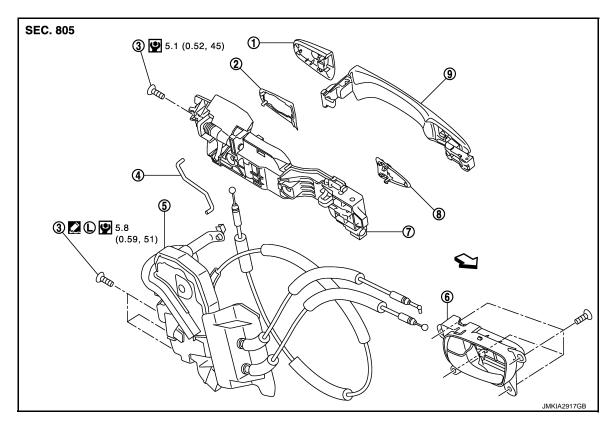
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door open/close, lock/unlock operation.

INSIDE HANDLE

INSIDE HANDLE: Exploded View

INFOID:0000000005239763

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- Door key cylinder assembly (driver side)
 - Outside handle escutcheon (passenger side)
- 4. Key rod (driver side)
- 5. Door lock assembly
- Outside handle bracket 8. Front
- Front gasket

Rear gasket

- 6. Inside handle
- Outside handle

TORX bolt

: Vehicle front

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

INSIDE HANDLE: Removal and Installation

REMOVAL

- Remove front door finisher. Refer to <u>INT-11</u>, "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

OUTSIDE HANDLE: Exploded View

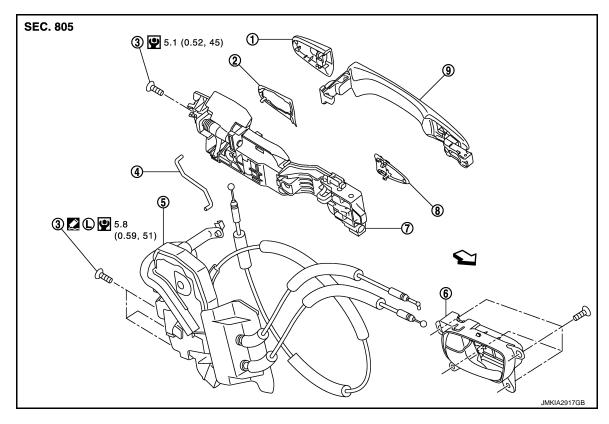
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- Door key cylinder assembly (driver side)
 - Outside handle escutcheon (passenger side)
- 4. Key rod (driver side)
- 7. Outside handle bracket

Door lock assembly

Rear gasket

8. Front gasket

5.

- TORX bolt
- 6. Inside handle
- 9. Outside handle

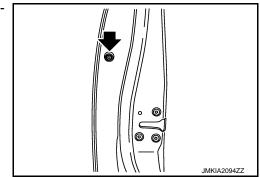
Refer to $\underline{\text{GI-4. "Components"}}$ for symbols in the figure.

OUTSIDE HANDLE: Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to INT-11, "Removal and Installation".
- Remove front door glass. Refer to <u>GW-18</u>, "<u>Removal and Installation</u>".
- 3. Remove front door module assembly. Refer to GW-21, "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.
- Remove door side grommet, and loosen TORX bolt from grommet hole.

=: TORX bolt



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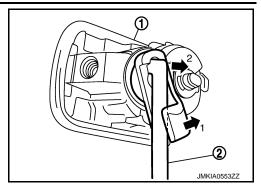
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Revision: 2009 August **DLK-271** 2010 FX35/FX50

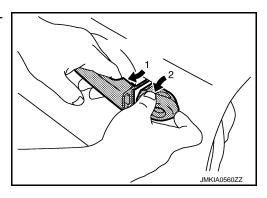
FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

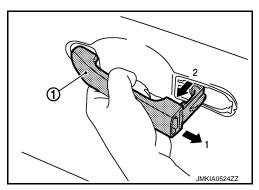
6. Reach in to separate key rod (2) connection [on the door key cylinder assembly (1)] (driver side).



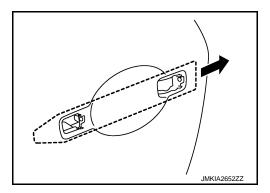
7. While pulling outside handle, remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).



8. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



- 9. Remove front gasket and rear gasket.
- 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

DOOR LOCK

DOOR LOCK: Exploded View

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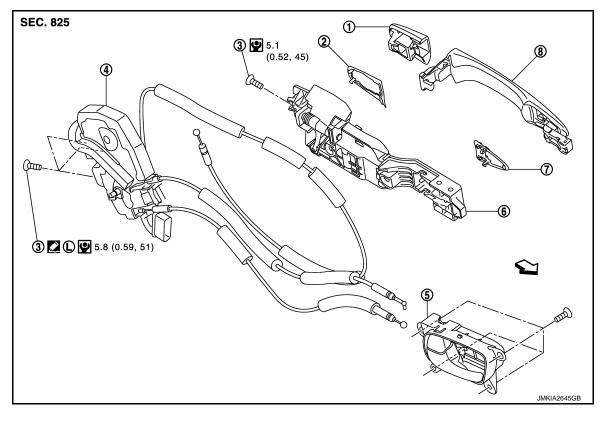
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- Outside handle escutcheon
- Door lock assembly
- Front gasket
- ⟨
 ⇒ : Vehicle front

- 2. Rear gasket
- 5. Inside handle
- Outside handle

- TORX bolt 3.
- 6. Outside handle bracket

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

DOOR LOCK: Removal and Installation

REMOVAL

- 1. Remove outside handle escutcheon, outside handle, rear gasket and front gasket. Refer to DLK-275. "OUTSIDE HANDLE: Removal and Installation".
- Remove rear door finisher. Refer to <u>INT-14</u>, "Removal and Installation".
- Remove sealing screen, rear door glass and rear door sash. Refer to <u>GW-24. "Removal and Installation"</u>.
- 4. Remove outside handle bracket. Refer to DLK-275, "OUTSIDE HANDLE: Exploded View".
- Remove door lock assembly TORX bolts.
- 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

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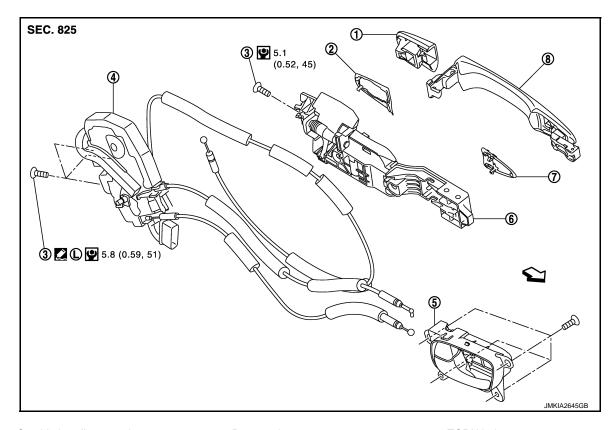
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INSIDE HANDLE: Exploded View

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- 1. Outside handle escutcheon
- 4. Door lock assembly
- 7. Front gasket
- : Vehicle front

- 2. Rear gasket
- 5. Inside handle
- 8. Outside handle

- 3. TORX bolt
- 6. Outside handle bracket

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

INSIDE HANDLE: Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-14, "Removal and Installation".
- 2. Disconnect door lock cables from inside handle.
- 3. Remove inside handle mounting screws, and then remove inside handle.

INSTALLATION

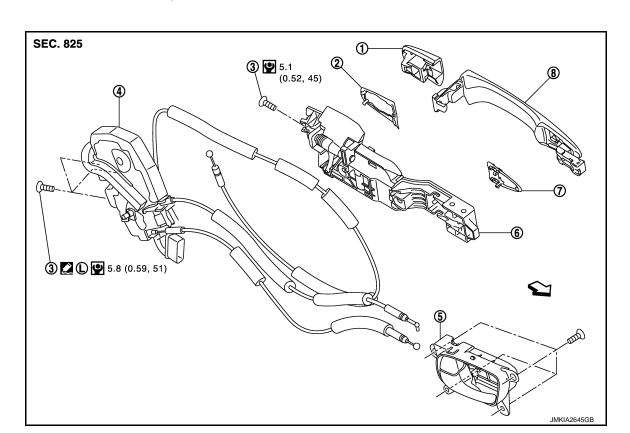
Install in the reverse order of removal.

CAUTION:

- Check door lock cables are properly engaged with inside handle.
- After installation, check door open/close, lock/unlock operation.

OUTSIDE HANDLE

OUTSIDE HANDLE: Exploded View



- Outside handle escutcheon
- Door lock assembly 4.
- Front gasket
- ⟨
 ⇒ : Vehicle front

- 2. Rear gasket
- Inside handle 5.
- 8. Outside handle

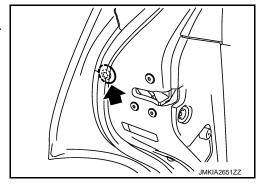
- 3. TORX bolt
- Outside handle bracket

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

OUTSIDE HANDLE: Removal and Installation

REMOVAL

- 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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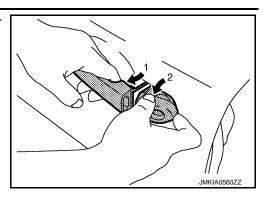
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DLK-275 Revision: 2009 August 2010 FX35/FX50

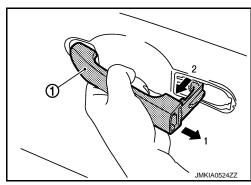
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

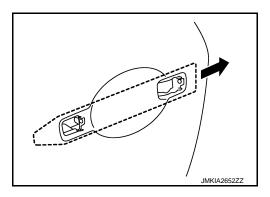
While pulling outside handle, remove outside handle escutcheon.



4. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



- 5. Remove rear door finisher. Refer to INT-14, "Removal and Installation".
- 6. Remove sealing screen. Refer to GW-24, "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

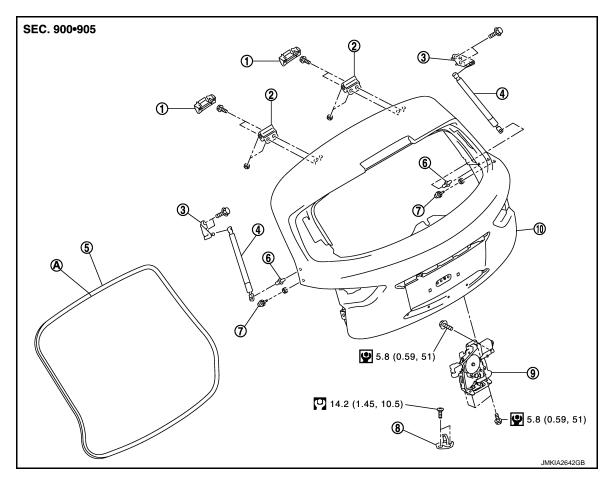
Install in the reverse order of removal.

CAUTION:

- · Check door lock cable is properly engaged with outside handle bracket.
- After installation, check door open/close, lock/unlock operation.

BACK DOOR LOCK

Exploded View



- 1. Back door hinge cover (LH/RH)
- 4. Back door stay (LH/RH)
- 7. Bumper rubber (side) (LH/RH)
- 10. Back door assembly
- A : Center mark

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

- 2. Back door hinge (LH/RH)
- 5. Back door weather-strip
- B. Back door striker

- 3. Back door stay bracket (LH/RH)
- 6. Stud ball (LH/RH)
- 9. Back door lock assembly

Removal and Installation

1. Remove back door finisher inner. Refer to INT-32, "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

Install in the reverse order of removal.

CAUTION:

REMOVAL

After installation, check back door open/close, lock/unlock operation.

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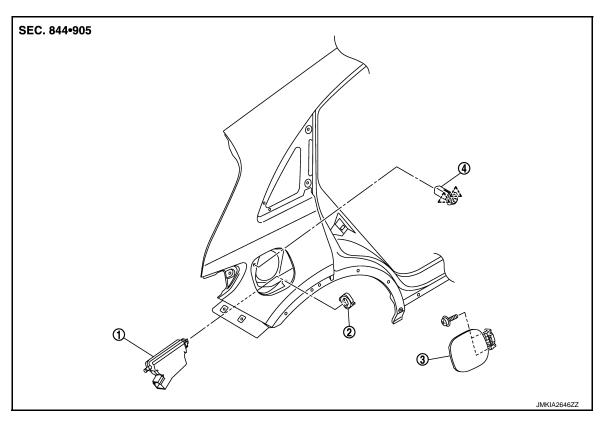
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Revision: 2009 August **DLK-277** 2010 FX35/FX50

FUEL FILLER LID OPENER

Exploded View



- 1. Fuel filler lid lock actuator
- 4. Lock & cable assembly
- ,^ : Pawl

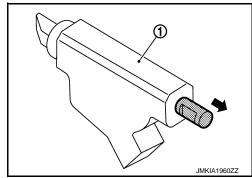
2. Lock nut

3. Fuel filler lid assembly

Removal and Installation

NOTE:

When fuel filler lid lock actuator (1) is a defective operation, pull the rod to open fuel filler lid.



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REMOVAL

- 1. Remove luggage side finisher lower (RH). Refer to INT-29, "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 >

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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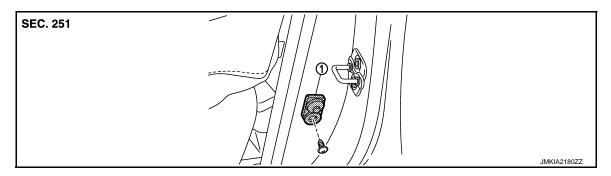
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DOOR SWITCH

Exploded View



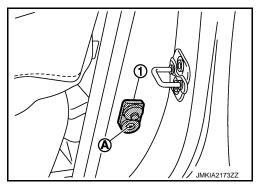
1. Door switch

Removal and Installation

INFOID:0000000005239778

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 INSTRUMENT CENTER

INSTRUMENT CENTER: Exploded View

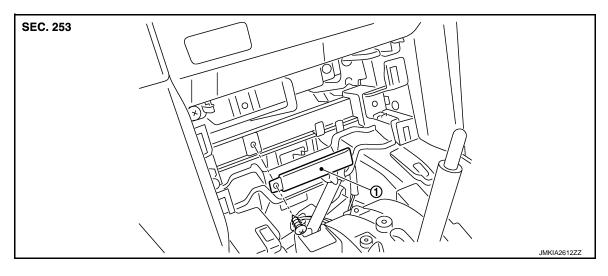
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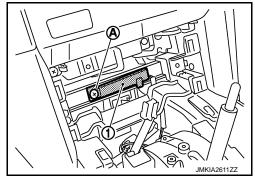
1. Inside key antenna (instrument center)

INSTRUMENT CENTER: Removal and Installation

INFOID:0000000005239780

REMOVAL

- 1. Remove the console finisher assembly. Refer to IP-22. "Removal and Installation".
- 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.

CONSOLE

CONSOLE: Exploded View

INFOID:0000000005239781

Refer to IP-22, "Exploded View".

CONSOLE: Removal and Installation

REMOVAL

1. Remove the console pocket and rear finisher. Refer to IP-22, "Removal and Installation".

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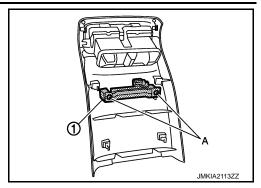
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INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

2. Remove the inside key antenna mounting screw (A), and then remove inside key antenna (console) (1).



INSTALLATION

Install in the reverse order of removal.

LUGGAGE ROOM

LUGGAGE ROOM: Exploded View

Refer to INT-28, "Exploded View".

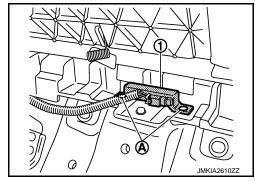
LUGGAGE ROOM: Removal and Installation

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REMOVAL

- 1. Remove the luggage floor finisher front. Refer to INT-29, "Removal and Installation".
- 2. Remove the inside key antenna (luggage room) mounting clip (A), and then remove inside key antenna (luggage room) (1).



INSTALLATION

Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View

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Refer to DLK-271, "OUTSIDE HANDLE: Exploded View".

DRIVER SIDE: Removal and Installation

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REMOVAL

Remove the front outside handle LH. Refer to DLK-271, "OUTSIDE HANDLE: Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

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PASSENGER SIDE: Exploded View

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Refer to DLK-271, "OUTSIDE HANDLE: Exploded View".

PASSENGER SIDE: Removal and Installation

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REMOVAL

Remove the front outside handle RH. Refer to DLK-271, "OUTSIDE HANDLE: Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

BACK DOOR

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BACK DOOR: Exploded View

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Refer to INT-32, "Exploded View".

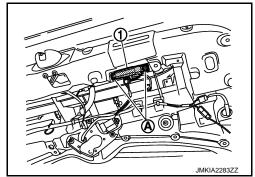
BACK DOOR: Removal and Installation

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REMOVAL

1. Remove the back door finisher inner. Refer to EXT-49, "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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INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY WARNING BUZZER

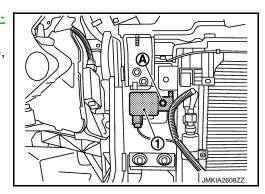
Exploded View

Refer to EXT-12, "Exploded View".

Removal and Installation

REMOVAL

- 1. Remove the fender protector. Refer to <u>EXT-25</u>, "FENDER PRO-<u>TECTOR</u>: Removal and Installation".
- 2. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



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INSTALLATION

Install in the reverse order of removal.

BACK DOOR CONTROL UNIT

< REMOVAL AND INSTALLATION >

BACK DOOR CONTROL UNIT

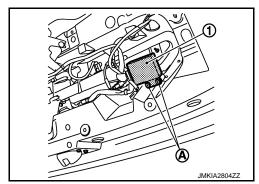
Exploded View

Refer to DLK-277, "Exploded View".

Removal and Installation

REMOVAL

- 1. Remove the back door finisher inner. Refer to EXT-49, "Removal and Installation".
- 2. Remove the back door control unit mounting bolts (A), and then remove back door control unit (1).



INSTALLATION

Install in the reverse order of removal.

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KEY SLOT

< REMOVAL AND INSTALLATION >

KEY SLOT

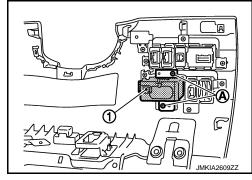
Exploded View

Refer to IP-11, "Exploded View".

Removal and Installation

REMOVAL

- 1. Remove the instrument lower panel LH. Refer to IP-12, "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.

REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

REMOTE KEYLESS ENTRY RECEIVER

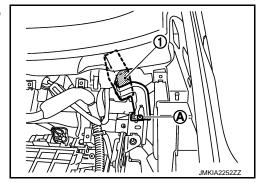
Exploded View

Refer to IP-11, "Exploded View".

Removal and Installation

REMOVAL

- 1. Remove the instrument lower panel RH. Refer to IP-12, "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.

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INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

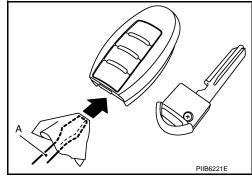
INTELLIGENT KEY BATTERY

Removal and Installation

- Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
- Insert a flat-bladed screwdriver (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.



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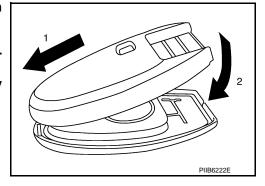
3. Replace the battery with new one.

Battery replacement : Coin-type lithium battery (CR2025)

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

CAUTION:

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



Revision: 2009 August **DLK-288** 2010 FX35/FX50