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Removal and Installation		С

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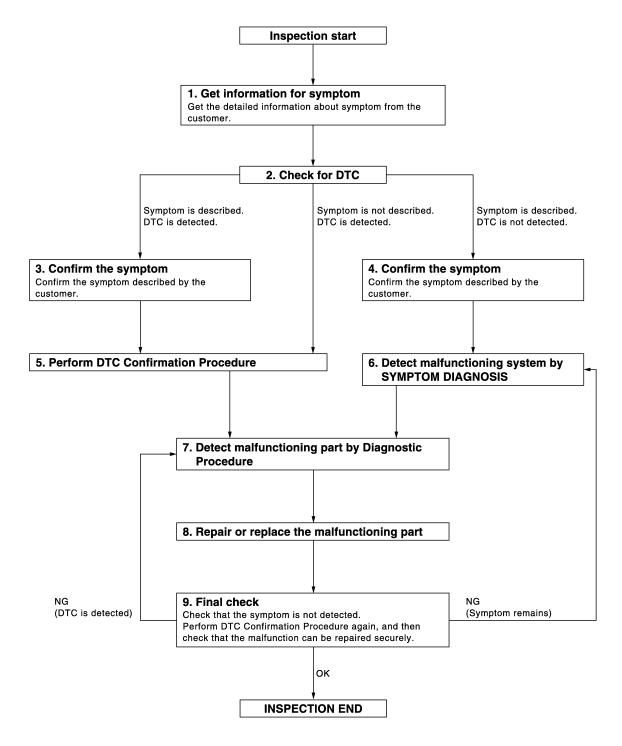
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BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000005517430

OVERALL SEQUENCE



DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

1. GET INFORMATION FOR SYMPTOM	А
Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).	A
	В
>> GO TO 2. 2.CHECK FOR DTC	
	С
 Check DTC for BCM and Automatic back door. Perform the following procedure if DTC is displayed. Record DTC and freeze frame data (Print them out with CONSULT-III.) Erase DTC. 	D
 Study the relationship between the cause detected by DTC and the symptom described by the customer. Check related service bulletins for information. 	
Is any symptom described and any DTC detected?	Е
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.	F
3. CONFIRM THE SYMPTOM	F
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.	G
>> GO TO 5.	Н
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.	I
	J
>> GO TO 6.	
5.PERFORM DTC CONFIRMATION PROCEDURE	DLK
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 <u>DLK-244, "DTC Inspection Priority Chart"</u> (BCM) or <u>DLK-259,</u> <u>"DTC Inspection Priority Chart"</u> (automatic back door control unit) 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.	M
Is DTC detected?	Ν
YES >> GO TO 7. NO >> Refer to <u>GI-39, "Intermittent Incident"</u> .	
6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS	
	0
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.	Ρ
>> GO TO 7.	1
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.

DLK-11

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.

 $\mathbf{8}$. 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.
- 3. 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

< BASIC INSPECTION >	[WITH INTELLIGENT KEY SYSTEM]	
INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REMOVING BAT	TERY NEGATIVE TERMINAL	A
ADDITIONAL SERVICE WHEN REMOVING BATTE scription	ERY NEGATIVE TERMINAL : De-	В
The automatic back door system must be initialized anytime the bahas been disconnected.		С
ADDITIONAL SERVICE WHEN REMOVING BATTE cial Repair Requirement	•	D
1.INITIALIZATION		
 Close back door. Open the back door with automatic open operation. NOTE: 		E
Do not stop the automatic operation until back door is fully operation	en.	F
>> WORK END ADDITIONAL SERVICE WHEN REPLACING CO	NTROL UNIT	G
ADDITIONAL SERVICE WHEN REPLACING CON	INFOID:00000005517433	Н
Perform the system initialization when replacing BCM, replacing Intelligent Key.		
ADDITIONAL SERVICE WHEN REPLACING CON-	TROL UNIT : Special Repair Re-	
Refer to the CONSULT-III operation manual for the initialization pro-	ocedure.	J

INSPECTION AND ADJUSTMENT

L

M

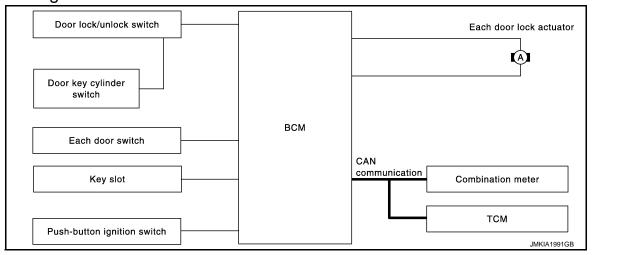
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SYSTEM DESCRIPTION POWER DOOR LOCK SYSTEM

System Diagram



System Description

INFOID:000000005517436

INFOID:000000005517435

DOOR LOCK FUNCTION

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

Door Key Cylinder

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

Selective unlock operation mode can be changed using "DOOR LOCK-UNLOCK SET" mode in "WORK SUP-PORT". Refer to <u>DLK-55, "DOOR LOCK : 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 follows.

Vehicle Speed Sensing Auto Door Lock*1

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

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

P Range Interlock Door Lock

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

Setting change of Automatic Door Lock/Unlock Function

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

(B) With CONSULT-III

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

DLK-14

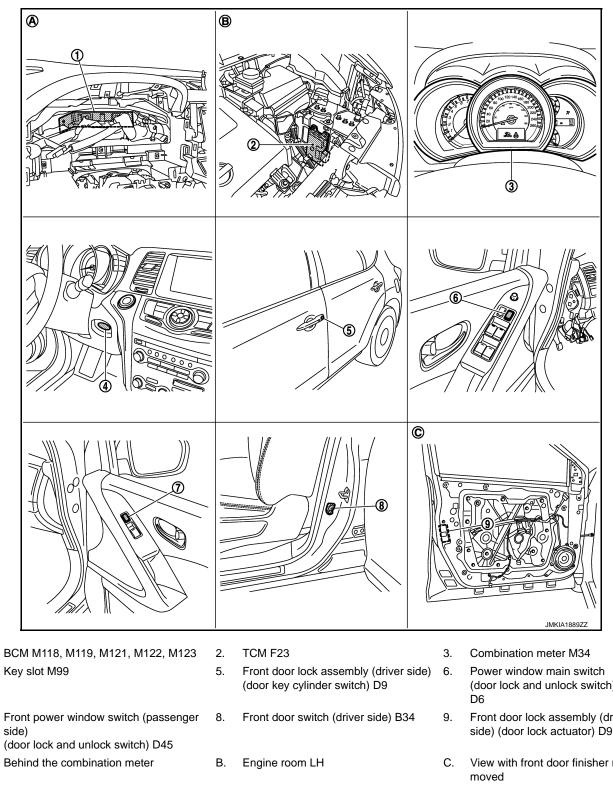
POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

🕅 Without CONSULT- III The automatic door lock function ON/OFF can be switched by performing the following operation. А 1. Close all doors (door switch OFF) Turn ignition switch ON В Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 sec-3. onds after turning the ignition switch ON. 4. The switching is completed when the hazard warning lamp blinks. $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink D AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION) The automatic door lock/unlock function is the function that unlocks all doors linked with the key position or shift position. It has 2 types as follows. Е 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 F 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. Н 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 of CONSULT-III. 🕅 Without CONSULT- III The automatic door lock/unlock function ON/OFF can be switched by performing the following operation. 1. Close all doors below (door switch OFF) 2. Turn ignition switch ON DLK 3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON. 4. The switching is completed when the hazard warning lamp blinks. L $\mathsf{OFF}\to\mathsf{ON}$: 2 blinks $ON \rightarrow OFF$: 1 blink M *1: This function is set to ON before delivery. Ν Ρ

< SYSTEM DESCRIPTION >

Component Parts Location



Component Description

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- (door lock and unlock switch) D5,
- Front door lock assembly (driver side) (door lock actuator) D9
- View with front door finisher re-

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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.

Revision: 2009 September

DLK-16

2010 Murano

POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Item	Function
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Door key cylinder switch	 Input lock or unlock signal to power window main switch. Power window main switch transmits door lock/unlock signal to BCM.
Key slot	Input key insert/remove signal to BCM.
Combination meter	 Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. Transmits vehicle speed signal to CAN communication line.
ТСМ	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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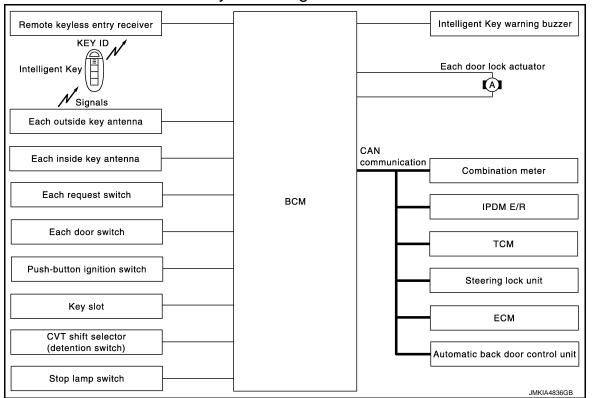
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< SYSTEM DESCRIPTION >

INTELLIGENT KEY SYSTEM INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Diagram



INTELLIGENT KEY SYSTEM : System Description

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

The driver should always carry the Intelligent Key

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

Function	Description	Refer
Door lock function	Lock/unlock can be performed by pressing the request switch.	DLK-21
Remote keyless entry func- tion	Lock/unlock can be performed by pressing the remote controller button of the In- telligent Key.	<u>DLK-30</u>
Back door open function	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	<u>DLK-26</u>
Key reminder function	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	<u>DLK-35</u>
Warning function	If an action that does not meet the operating condition of the Intelligent Key sys- tem is taken, the buzzer goes off to inform the driver.	<u>DLK-37</u>
Engine start function	The engine be turned on while carrying the Intelligent Key.	<u>SEC-9</u>

< SYSTEM DESCRIPTION >

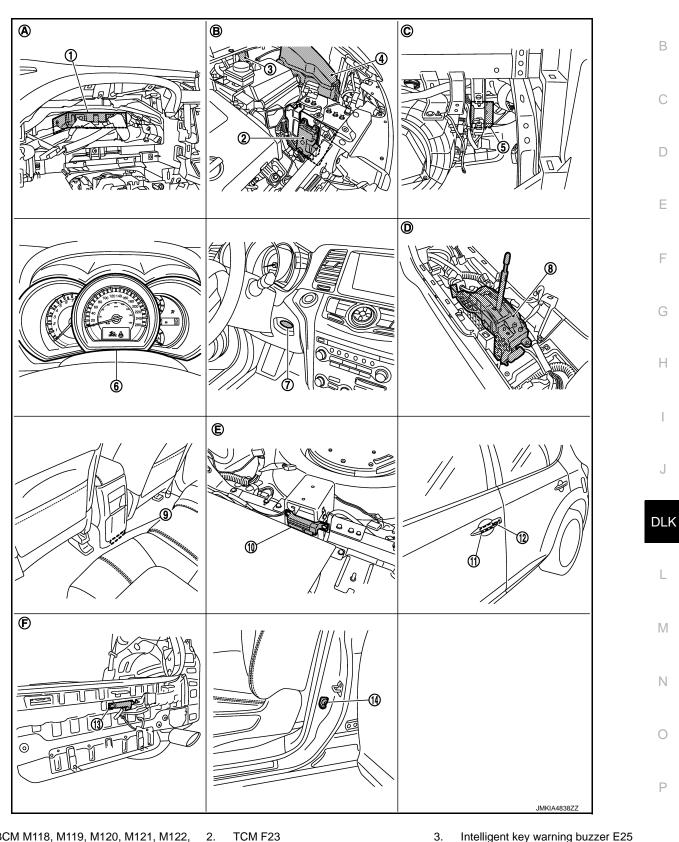
[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM : Component Parts Location

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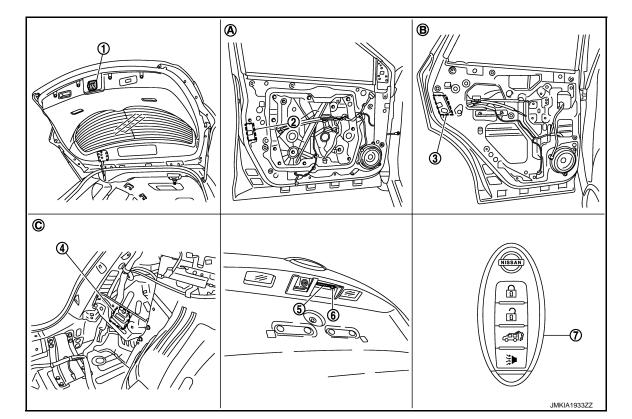


- BCM M118, M119, M120, M121, M122, 1. M123
- IPDM E/R E10, E11 4.
- 7. Key slot M99

- Remote keyless entry receiver M78 5.
- 8. CVT shift selector (detention switch) M57
- 3. Intelligent key warning buzzer E25
- Combination meter M34 6.
- 9. Inside key antenna (console) M262

10. Inside key antenna (luggage room) B86 11. Front outside handle LH (outside key antenna) D12

- Outside key antenna (rear bumper) B85 14. Front door switch (driver side) B34
 - B. Engine room (LH)
 - E. Under the rear seat seatback
- 12. Front outside handle LH (request switch) D11
- C. Behind the instrument lower panel RH
- F. View with rear bumper removed



 Back door lock assembly With automatic back door: D179 Without automatic back door: D180

< SYSTEM DESCRIPTION >

Behind the combination meter

Behind the center console

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- 4. Automatic back door control unit B7, B8
- 7. Intelligent Key
- A. View with front door finisher removed
- 2. Front door lock assembly (driver side) D9 3. Rear door lock assembly LH D85
- 5. Back door opener switch assembly (open- 6. er switch) D186
- B. View with rear door finisher removed
- Back door opener switch assembly (request switch) D186
- C. Behind the luggage side finisher lower (LH)

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INTELLIGENT KEY SYSTEM : Component Description

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

DLK-20

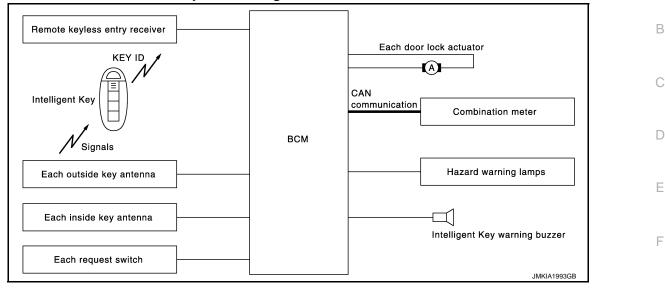
INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION > DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram



DOOR LOCK FUNCTION : System Description

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Only when pressing the door request switch, it is possible to lock and unlock the door by carrying the Intelli- $_{\rm H}$ gent Key.

OPERATION DESCRIPTION

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

OPERATION CONDITION

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

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

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< SYSTEM DESCRIPTION >

The outside key antenna detection area of door lock/unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver, passenger door handles and (1) and the back door request switch (2). However, this operating range depends on the ambient conditions.

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[WITH INTELLIGENT KEY SYSTEM]

SELECTIVE UNLOCK FUNCTION

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

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

HAZARD AND BUZZER REMINDER FUNCTION

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

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

Operating Function of Hazard and Buzzer Reminder

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

How to Change Hazard and Buzzer Reminder Mode

Refer to DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

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

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

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

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-56.</u> "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

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

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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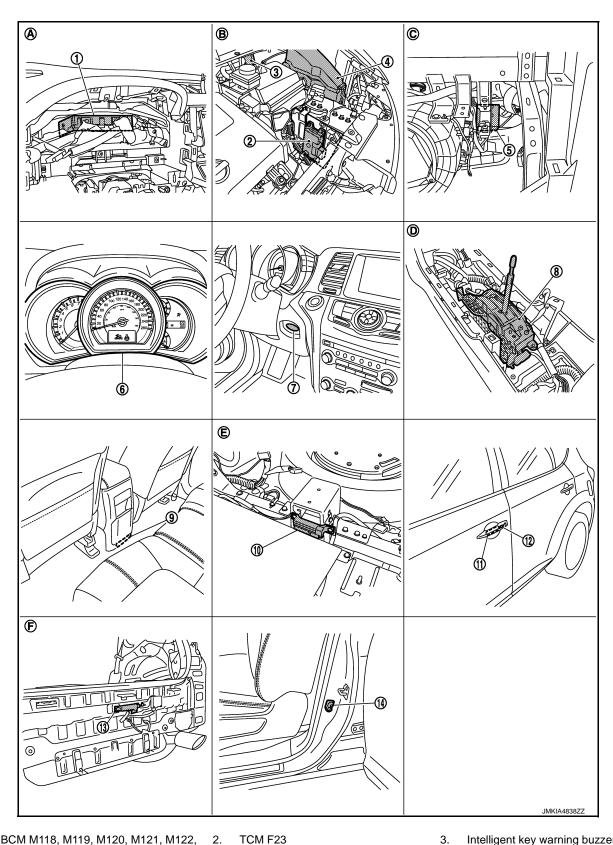
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< SYSTEM DESCRIPTION >

DOOR LOCK FUNCTION : Component Parts Location



- BCM M118, M119, M120, M121, M122, 1. M123
- IPDM E/R E10, E11 4.
- 7. Key slot M99

- Remote keyless entry receiver M78 5.
- 8. CVT shift selector (detention switch) M57
- Intelligent key warning buzzer E25 3.
- Combination meter M34 6.
- 9. Inside key antenna (console) M262

INTELLIGENT KEY SYSTEM [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Behind the combination meter

Behind the center console

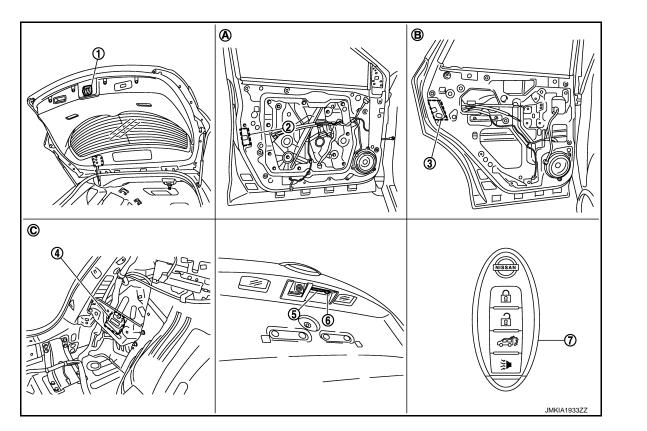
Outside key antenna (rear bumper) B85

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



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

DOOR LOCK FUNCTION : Component Description

Item	Function
BCM	Controls the door lock function.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Door request switch	Input lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Combination meter	Receives hazard warning lamp signal from BCM and blinks turn signal indicators.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

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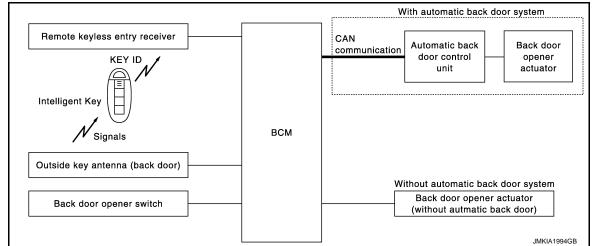
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< SYSTEM DESCRIPTION >

BACK DOOR OPEN FUNCTION

BACK DOOR OPEN FUNCTION : System Diagram



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 <u>DLK-21</u>, "<u>DOOR LOCK FUNCTION</u>: <u>System Description</u>".

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

Refer to <u>DLK-44, "System Description"</u> for the automatic back door operation.

BACK DOOR OPEN

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

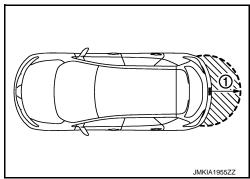
OPERATION CONDITION

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

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



< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

HAZARD AND BUZZER REMINDER FUNCTION

Back door opening operation by back door opener switch, the hazard warning lamps and buzzer will blink or A honk 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	Inside key antenna	Outside key antenna (Rear bumper)	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Back door opener switch	C D E
Back door open function by back door opener switch (Carrying Intelligent Key)	×	×	×	×	×	×	×	×		×	×		×	
Hazard and buzzer reminder function for door lock/unlock operation									×	×	×	×		G

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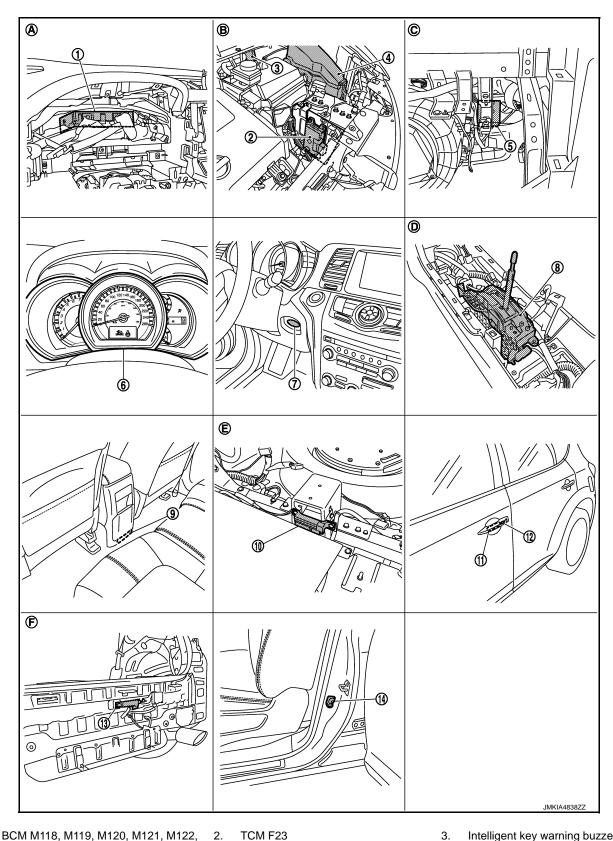
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< SYSTEM DESCRIPTION >

BACK DOOR OPEN FUNCTION : Component Parts Location



- BCM M118, M119, M120, M121, M122, 1. M123
- IPDM E/R E10, E11 4.
- 7. Key slot M99

- Remote keyless entry receiver M78 5.
- 8. CVT shift selector (detention switch) M57
- Intelligent key warning buzzer E25 3.
- Combination meter M34 6.
- 9. Inside key antenna (console) M262

Revision: 2009 September

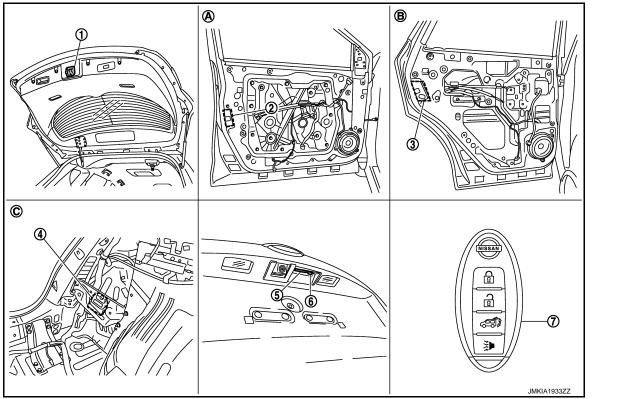
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- 10. Inside key antenna (luggage room) B86
- 13. Outside key antenna (rear bumper) B85
- Behind the combination meter Α.
- D. Behind the center console
- Front outside handle LH (outside key 11. antenna) D12
- 14. Front door switch (driver side) B34
- Engine room (LH) В.
- E. Under the rear seat seatback
- 12. Front outside handle LH (request switch) D11

[WITH INTELLIGENT KEY SYSTEM]

- C. Behind the instrument lower panel RH
- F. View with rear bumper removed



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

BACK DOOR OPEN FUNCTION : Component Description

Item	Function	
BCM	Controls the back door open function and room lamp function.	
Back door opener switch	Input press/degrees signal to BCM.	0
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.	
Door switch	Input door open/close condition to BCM.	P
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.	

DLK-29

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Item

Function

Intelligent Key warning buzzer

Warns the user of the back door open/close condition and inappropriate operations with the

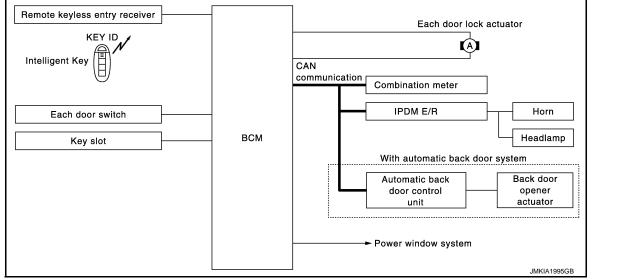
buzzer sound.

Automatic back door control unit

Controls back door open/close automatically.

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Diagram



REMOTE KEYLESS ENTRY FUNCTION : System Description

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

OPERATION

Remote keyless entry system controls operation of the

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

OPERATION AREA

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

DOOR LOCK/UNLOCK FUNCTION

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

OPERATION CONDITION

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

AUTOMATIC BACK DOOR OPEN FUNCTION

< SYSTEM DESCRIPTION >

When back door button of Intelligent Key is pressed for more than 1 second, back door open automatically for detailed description, refer to <u>DLK-44, "System Description"</u>.

SELECTIVE UNLOCK FUNCTION

When an LOCK signal is transmitted from Intelligent Key, all doors will be locked. When an UNLOCK signal is transmitted from Intelligent Key once, driver's door will be unlocked. Then, if an UNLOCK signal is transmitted from Intelligent Key again within 60 seconds, all other door will be unlocked.

HAZARD AND HORN REMINDER FUNCTION

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

Operating Function of Hazard and Horn Reminder

	C n	node	S mode				
Intelligent Key operation	Lock	Unlock	Lock	Unlock	- 6		
Hazard warning lamp blink	Twice	Once	Twice	—	-		
Horn sound	Once	—	—	—	F		

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

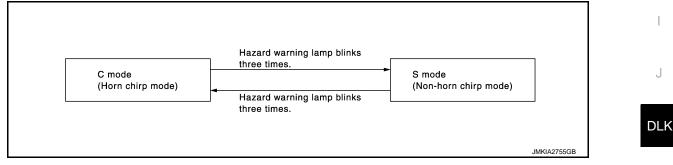
How to Change Hazard and Horn Reminder Mode

With CONSULT-III

Refer to DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Without CONSULT-III

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



AUTO DOOR LOCK FUNCTION

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

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

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-56.</u> "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, PIDM 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-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

DLK-31

[WITH INTELLIGENT KEY SYSTEM]

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< SYSTEM DESCRIPTION >

KEYLESS POWER WINDOW DOWN (OPEN) FUNCTION

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

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

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

While retained power operation activate, Keyless power window down (open) function cannot be operated. Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUP-PORT". Refer to <u>DLK-56</u>, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

LIST OF OPERATION RELATED PARTS

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

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

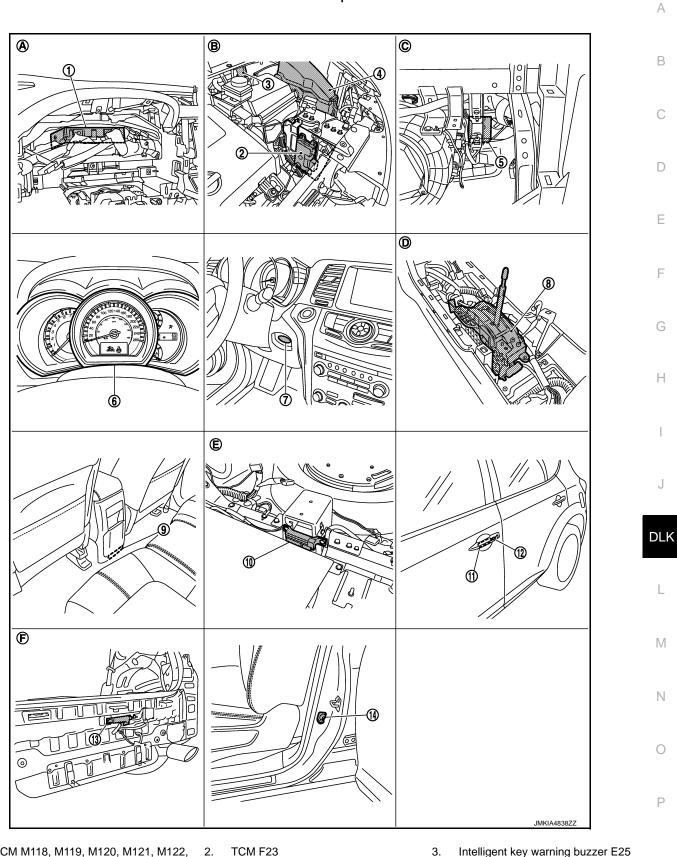
< SYSTEM DESCRIPTION >

INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY FUNCTION : Component Parts Location

INFOID:000000005575260



- BCM M118, M119, M120, M121, M122, 1. M123
- IPDM E/R E10, E11 4.
- 7. Key slot M99

- Remote keyless entry receiver M78 5.
- 8. CVT shift selector (detention switch) M57
- 3. Intelligent key warning buzzer E25
- Combination meter M34 6.
- 9. Inside key antenna (console) M262

10. Inside key antenna (luggage room) B86

Behind the combination meter

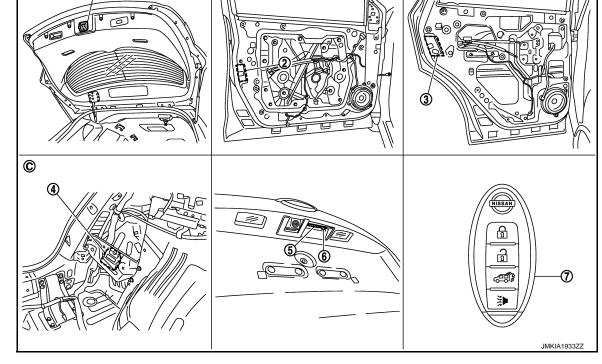
Behind the center console

Outside key antenna (rear bumper) B85

13.

Α.

D.



- 1. Back door lock assembly With automatic back door: D179 Without automatic back door: D180
- 4. Automatic back door control unit B7, B8
- 7. Intelligent Key
- A. View with front door finisher removed
- 2. Front door lock assembly (driver side) D9 3. Rear door lock assembly LH D85

B

- 5. Back door opener switch assembly (open- 6. er switch) D186
 - View with rear door finisher removed
- (request switch) D186
 - C. Behind the luggage side finisher lower (LH)

Back door opener switch assembly

REMOTE KEYLESS ENTRY FUNCTION : Component Description

В.

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

KEY REMINDER FUNCTION

11. Front outside handle LH (outside key antenna) D12

- 14. Front door switch (driver side) B34
- B. Engine room (LH)
- E. Under the rear seat seatback
- 12. Front outside handle LH (request switch) D11

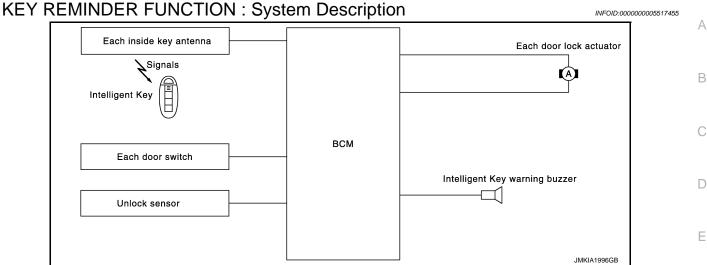
[WITH INTELLIGENT KEY SYSTEM]

- C. Behind the instrument lower panel RH
- F. View with rear bumper removed

INFOID:000000005517454

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]



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 is in lock state 	All doors unlock
Door is open or closed	 Right after all doors are closed under the following conditions Intelligent Key is inside the vehicle Any door is opened All doors are locked by door lock and unlock switch or door lock knob 	 All doors unlock Honk Intelligent Key warning buzzer
Back door is closed	 Right after back door is closed under the following conditions Intelligent Key is inside vehicle All doors (except back door) are closed All doors (except back door) are locked 	 All doors unlock Back door can open with back door opener switch Honk Intelligent Key warning buzzer

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

CAUTION:

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

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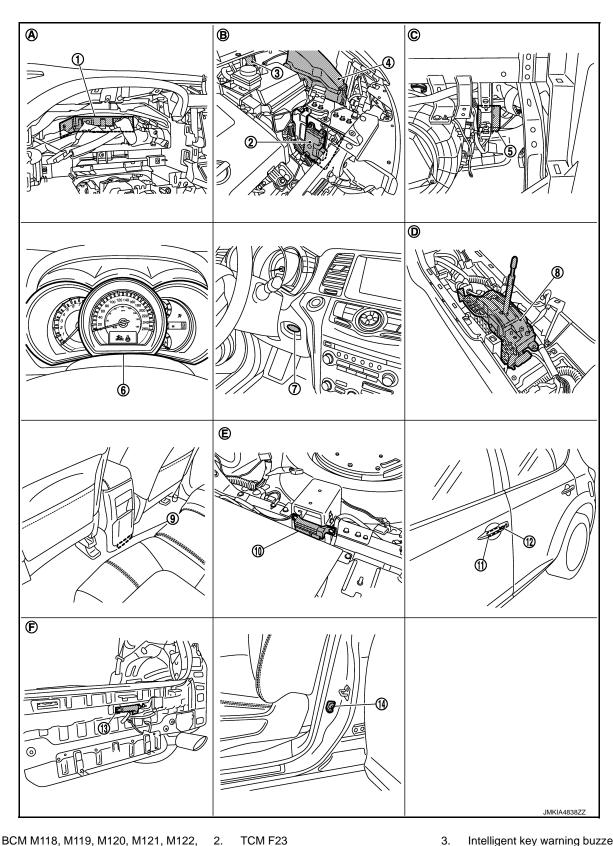
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< SYSTEM DESCRIPTION >

KEY REMINDER FUNCTION : Component Parts Location



- BCM M118, M119, M120, M121, M122, 1. M123
- IPDM E/R E10, E11 4.
- 7. Key slot M99

- Remote keyless entry receiver M78 5.
- 8. CVT shift selector (detention switch) M57
- Intelligent key warning buzzer E25 3.
- Combination meter M34 6.
- 9. Inside key antenna (console) M262

INTELLIGENT KEY SYSTEM [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

13. Outside key antenna (rear bumper) B85

Behind the combination meter

Behind the center console

Α.

D.

- 10. Inside key antenna (luggage room) B86 11. Front outside handle LH (outside key antenna) D12
 - 14. Front door switch (driver side) B34
 - В. Engine room (LH)
 - E. Under the rear seat seatback
- 12. Front outside handle LH (request switch) D11

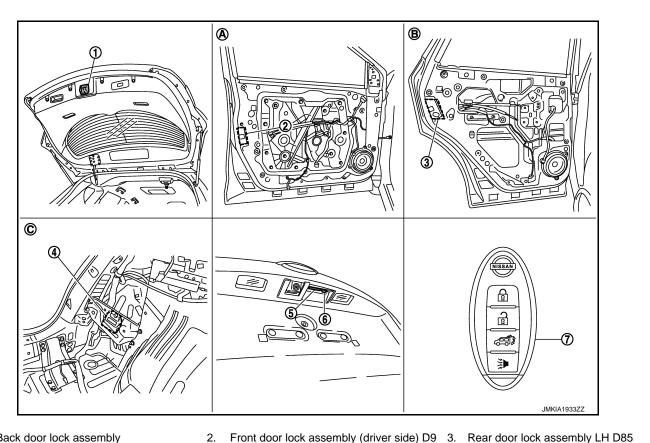
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- C. Behind the instrument lower panel RH
- F. View with rear bumper removed



- Back door lock assembly 1. With automatic back door: D179 Without automatic back door: D180
- Automatic back door control unit B7, B8 4.
- 7. Intelligent Key

View with front door finisher removed Α

В. View with rear door finisher removed

er switch) D186

Back door opener switch assembly (open- 6.

C. Behind the luggage side finisher

(request switch) D186

WARNING FUNCTION

WARNING FUNCTION : System Description

2.

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OPERATION DESCRIPTION

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

- Intelligent Key system malfunction
- OFF position warning
- P position warning
- ACC warning
- Take away warning
- Door lock operation warning
- Key warning
- Intelligent Key insert information
- Engine start information

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2010 Murano

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lower (LH)

Back door opener switch assembly

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< SYSTEM DESCRIPTION >

- Steering lock informationIntelligent key low battery warning
- Key ID warning
- Key ID warning

OPERATION CONDITION

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

Warning/Inform	nation functions	Operation procedure
Intelligent Key system mal	function	When a malfunction is detected on BCM, "KEY" warning lamp will illuminate.
	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 been closed. NOTE: OFF position (For external) active only when each of the sequence has occurred as below: P position warning \rightarrow ACC warning \rightarrow OFF position warning (For internal) \rightarrow OFF position warning (For internal)
P position warning		Shift position: Except P position.Engine is running to stopped (Ignition switch is ON to OFF).
ACC warning		 During P position warning is in active mode, shift position has changed P position. Ignition switch: ACC position.
	Door is open to close	 Ignition switch: Except 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.
	Push button-ignition switch operation	 Ignition switch: Except LOCK position. Press push-button ignition switch. Intelligent Key can not be detected inside the vehicle.
	Take away through win- dow	 Engine is running. Key ID verification every 30 seconds when registered Intelligent Key can not be detected inside the vehicle. After vehicle speed verification, the registered Intelligent Key can not be detect inside the vehicle.
	Intelligent Key is removed from key slot	• When Intelligent Key is removed from key slot, Intelligent Key can not be detected inside the vehicle.
Door lock operation warn-	Request switch operation	 When request switch is pushed (lock operation) under the following conditions. All door is closed. All door is unlocked. Intelligent Key is inside vehicle.
ing	Intelligent Key button op- eration	 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 OFF position. Driver side door switch: ON (Driver side door is open). Intelligent Key is inserted in key slot.
Intelligent Key insert inforn	nation	 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.

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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Warning/Infor	mation functions	Operation procedure	
	Ignition switch is ON posi- tion	 Ignition switch: ON position. Shift position: P position. Engine is stopped.	А
Engine start information	Ignition switch is except ON position	 Ignition switch: Except ON position. Shift position: P position. Intelligent Key is inserted in key slot or Intelligent Key can be detected inside the vehicle. 	B
Steering lock information		When steering lock can not be released after ignition switch is turned ON.	0
Intelligent Key low battery	r warning	When Intelligent Key is low battery, BCM is detected after ignition switch is turned ON.	D
Key ID warning		When registered intelligent Key can not be detected inside the vehicle after ig- nition switch is turned ON.	

WARNING METHOD

The following table shows the alarm or warning methods with chime.

Information display (combination meter), "KEY" indicator or key slot illumination when the warning conditions are met.

					Warning	g chime	
Warning/Informa	ation functions	"KEY" warn- ing lamp	Information display (combination meter)	Key slot il- lumination	Combination meter buzzer	Intelligent Key warning buzzer	G
Intelligent Key system	m malfunction	Illuminate	—	—	—	—	Н
OFF position warn-	For internal	—	—	—	Activate	—	
ing	For external	—	—	—	_	Activate	
P position warning		_	BIE SHIFT		Activate	_	ا J DLK
ACC warning			PUSH JMKIA0047GB				L
	Door is open to close	_		Blink	Activate	Activate	Ν
	Door is open	—		Flash	_	—	
Take away warning	Push-ignition switch operation	_	NO	Flash	Activate	_	0
g	Take away through window	_		Flash	Activate	_	
	Intelligent Key is removed from key slot	—	JMKIA0036GB	Flash			Ρ
Door lock operation	Request switch operation	_	_	_	_	Activate	
warning	Intelligent Key operation	_	_	—	—	Activate	

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

				Warning	g chime
Warning/Information functions	"KEY" warn- ing lamp	Information display (combination meter)	Key slot il- lumination	Combination meter buzzer	Intelligent Key warning buzzer
Key ID warning	_	NO KEY			
Key warning	_	JMKIA0035GB	Flash	Activate	_
Intelligent Key insert information	_	JMKIA0034GB	Flash		
Engine start information	_	BRAKE BRAKE		_	_
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.

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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	A B C D
Intelligent Key system ma	lfunction										×	×				×	
OFF position warning	For internal				×					×	×	×					Е
or position warning	For external				×				×			×					
P position warning				×						×	×	×	×		×		
ACC warning				×						×	×	×	×		×		F
	Door is open or close	×			×		×		×	×	×	×	×	×			
	Door is open	×			×		×				×	×	×	×			G
Take away warning	Push-ignition switch oper- ation	×		×			×			×	×	×	×	×			0
, ,	Take away through win- dow	×					×			×	×	×	×	×			Н
	Intelligent Key is removed from key slot	×	×				×				×	×	×	×			
Door lock operation warni	ng	×	×		×	×	×	×	×			×					1
Key ID warning		×	×	×			×				×	×	×				
Key warning		×	×		×					×	×	×	×	×			J
Intelligent Key insert infor	mation	×	×	×	×		×				×	×	×	×			
Engine start information	Ignition switch is ON posi- tion	×	×	×			×				×	×	×		×		DLK
Engine start information	Ignition switch is except ON position	×	×	×			×				×	×	×				
Steering lock information				×							×	×	×				L
Intelligent Key low battery	warning	×					×				×	×	×				

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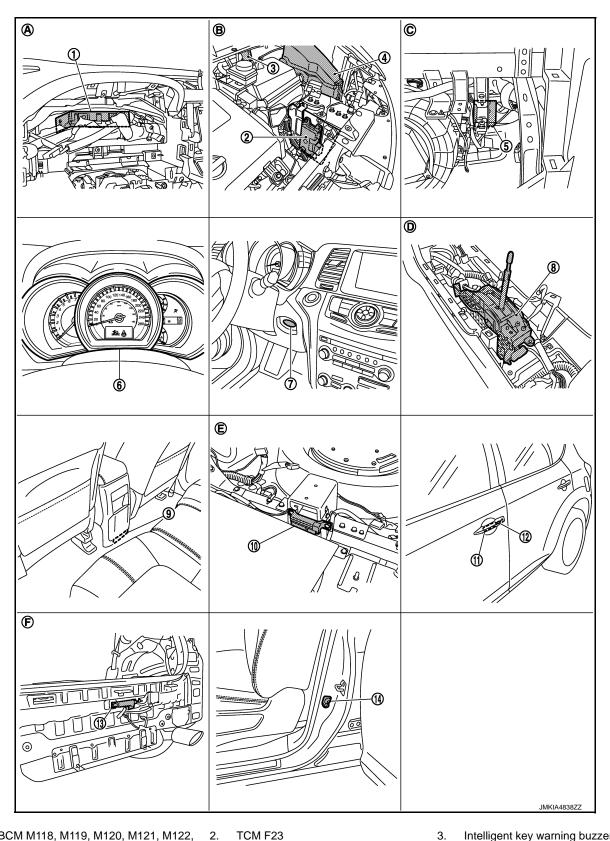
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< SYSTEM DESCRIPTION >

WARNING FUNCTION : Component Parts Location

INFOID:000000005575262



- BCM M118, M119, M120, M121, M122, 1. M123
- IPDM E/R E10, E11 4.
- 7. Key slot M99

- Remote keyless entry receiver M78 5.
- 8. CVT shift selector (detention switch) M57
- Intelligent key warning buzzer E25 3.
- Combination meter M34 6.
- 9. Inside key antenna (console) M262



Revision: 2009 September

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

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

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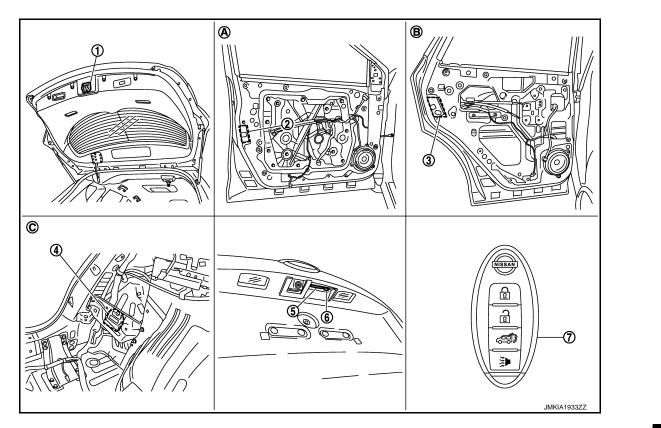
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[WITH INTELLIGENT KEY SYSTEM]

- C. Behind the instrument lower panel RH
- F. View with rear bumper removed



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

(request switch) D186

Back door opener switch assembly

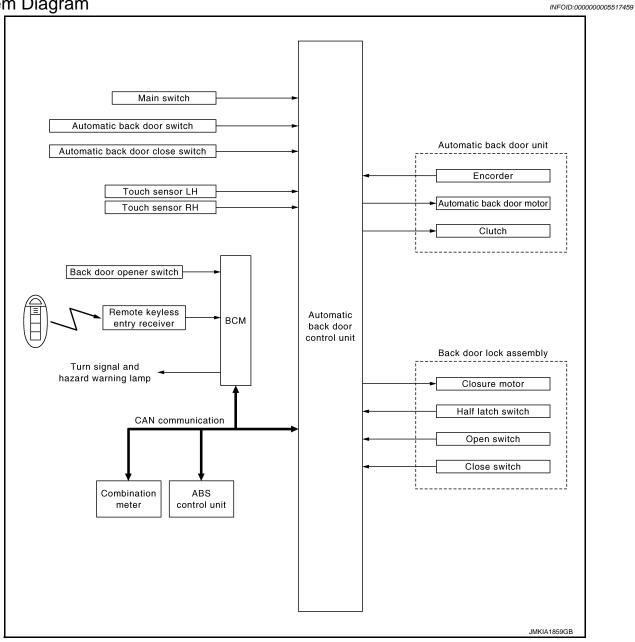
C. Behind the luggage side finisher lower (LH)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM





System Description

INFOID:000000005517460

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

AUTOMATIC BACK DOOR FUNCTIONS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

OPERATION ENABLE CONDITION

	Automa	atic back doc	or switch	Intellig	ent Key	Automat- ic back door close switch		Back door opener switch		
Operating direction	Fully close	ed ightarrow Open	$\begin{array}{l} \text{Fully open} \\ \rightarrow \text{Closed} \end{array}$	$\begin{array}{l} Fully \\ closed \rightarrow \\ Open \end{array}$	$\begin{array}{l} \text{Fully open} \\ \rightarrow \text{Closed} \end{array}$	$\begin{array}{l} \text{Fully open} \\ \rightarrow \text{Closed} \end{array}$	Fully close	d ightarrow Open		
Main switch	-	_	—	_	_	ON	0	N		
Ignition position	ON	ACC/ LOCK	_	Key is removed from key slot.		_	ON	ACC/ LOCK		
Shift selector lever	P position	—	—	_	—	_	P position	_		
Vehicle speed				0 k	m/h					
Back door lock condition	-	_	—	_	—	—	Unk	ock*		
Touch sensor			1	No	rmal					
Power supply (Automatic power back door control unit)				Approx. 11	V or more					

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

CONTROL IF NOT WITHIN THE OPERATION CONDITIONS DURING THE OPERATION If the back door is not within the operation conditions during the operation, the automatic back door control unit performs the control as follows.

Item (Condition)	Back door condition
Main Switch (ON \rightarrow OFF)	Motor: OFF Clutch: OFF (Intermittent clutch function)
Key slot (OFF \rightarrow ON)	The operation is continued

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< SYSTEM DESCRIPTION >

Item (Condition)		Back door condition
 Vehicle stop condition (open operation) IGN ON and shift P position→IGN ON and other than P position IGN OFF and shift N position → IGN ON and N position 	The operation is continu	led
Operation condition release during the opera- tion start announcement condition	Automatic back door fur	nction does not operate
Vehicle speed (0 km/h) \rightarrow More than 0 km/h)	Open operation	Operation stop and intermittent clutch function [Back door fully closed or buzzer sounds until the vehicle stops (pattern C)]
	Close operation	The operation is continued [buzzer sounds (pattern C) until back door fully closed]
	Open operation	Close operation: the operation is continued (If the pinch is detected after that, the system switches to the intermittent clutch function)
Touch concer	Close operation	Intermittent clutch function
Touch sensor (Normal \rightarrow Open)	Closure (close) opera- tion	Closure (open) operation and buzzer sounds (pattern B)
	Closure [open (return the latch to the neutral position)]	The operation is continued
Operation time (More than approx. 30 sec.)	Intermittent clutch functi	ion
	Open/close operation	The operation is continued
Back door opener switch	Closure (close) opera- tion	Closure (open) operation and back door open
$(OFF \to ON)$	Closure [open (return the latch to the neutral position)]	Back door open
Malfunction detected (IGN circuit, half latch switch and back door state)	Intermittent clutch functi	ion

TIME CHART FOR AUTOMATIC POWER BACK DOOR SYSTEM

Fully Closed to Fully Open Operation

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

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Component	Parts	Status	1	2	3		4	5	
		ON							
	Half latch switch	OFF							
		ON							
	Open switch	OFF					╡╸┛		—
Back door lock		ON					<u> </u>		
assembly	Close switch	OFF]		L		
	Back door closure motor	ON							
	(open)	OFF			L				_
	Back door closure motor	ON							
	(close)	OFF							_
	Clutch	ON			Г				
		OFF							
Automatic back	Automatic back door motor	ON			Г				_
door unit	(open)	OFF							
	Automatic back door motor	ON							
	(close)	OFF							_
_	Automatic back door buzzer	ON					T4		-
		OFF							J
_	Hazard	ON				- 1			
		OFF			J				_
			I	ł	1		I	1	
								JMKIA1860	GB
T1: 50 msec	.	T2:	200 msec.				50 msec.		
T4: 750 mse	ec.	T5:	100 msec.			T6: 3	50 msec.		

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

NOTE:

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

Fully Open to Fully Closed Operation

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

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2010 Murano

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Component	Parts	Status	1	2		3	(4)	5
		ON				-		
	Half latch switch	OFF						
	Open switch	ON						
		OFF						
Back door	Close switch	ON))			
lock assembly		OFF						
	Back door closure	ON			\mathbb{N}	l		
	motor (close)	OFF						
	Back door closure	ON			$\langle \rangle$			
	motor (open)	OFF						
	Clutch	ON			-((1	
		OFF						
Automatic back	Automatic back door	ON						
door unit	motor (open)	OFF						
	Automatic back door	ON			_)}			
	motor (close)	OFF				L		
_	Automatic back door buzzer	ON			┶╢║┌─┐			
		OFF	T5			6 J T6 J	1	
_	Hazard	ON						
		OFF						
								JMKIA1861GI

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

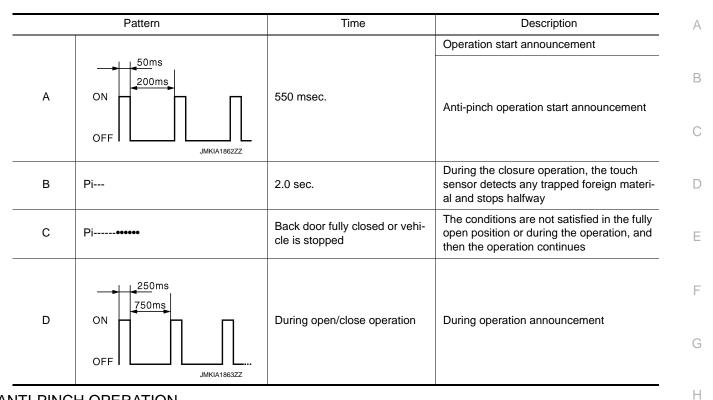
WARNING BUZZER

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

Operation Condition

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]



ANTI-PINCH OPERATION

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

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

Operation Condition

Detection method		Encoder pulse	Touch sensor			
Applicable operation	n	Open/close operation	Close operation			
Operation when any trapped for-	Stop the vehicle	Buzzer sounds (pattern A) and reverse operation	 Buzzer sounds (pattern A) and the back door stops in the fully-open position after reverse operation During closure (close) operation (at main switch OFF): Closure [open (neutral position return)] operation 			
eign material is de- tected	Running the ve- hicle	No reverse operation (buzzer sounds, pattern C)	 The back door reverses a certain amount, and then reverses automatically to perform the auto close operation During closure (close) operation (at main switch ON Closure (open) operation 			
Non-reverse area		 Just after starting the mo- tor operation Full range of closure oper- ation Driving 	Back door open operation			
Switch operation du eration	iring reverse op-	Receive				
Number of allowabl	e reverse opera-	Perform the intermittent clutch ation direction	n function after 2 reverse operations regardless of the oper			

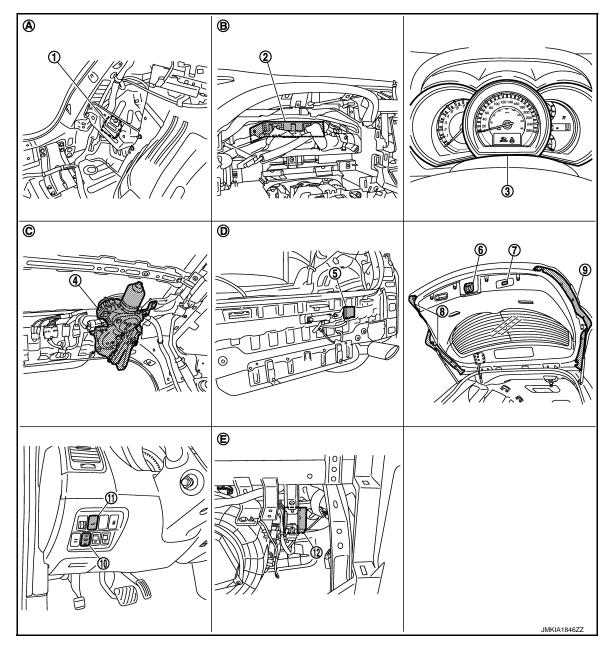
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AUTOMATIC BACK DOOR SYSTEM [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000005517461



- 1. Automatic back door control unit B7, B8
- 4. Automatic back door unit B76
- 7. Automatic back door close switch D178
- 10. Automatic back door main switch M110
- A. Behind the luggage side finisher lower (LH)
- D. Behind the rear bumper

- 2. BCM M119, M121, M122, M123
- 5. Automatic back door warning buzzer 6. B27
- 8. Touch sensor LH D165
- 11. Automatic back door switch M111
- B. Behind the combination meter
- E. Behind the instrument lower panel RH

- 3. Combination meter M34
 - . Back door lock assembly D179
- 9. Touch sensor RH D164
- 12. Remote keyless entry receiver M78
- C. Behind headlining assembly

AUTOMATIC BACK DOOR SYSTEM [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Component Description

INFOID:000000005517462

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

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FUEL FILLER LID OPENER

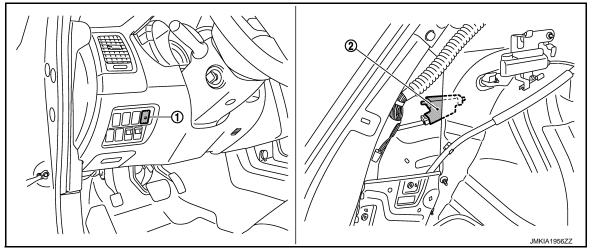
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

INFOID:000000005517463

FUEL FILLER LID OPENER

Component Parts Location



- 1. Fuel lid opener switch M108 2.
- Fuel lid opener actuator B58

INTEGRATED HOMELINK TRANSMITTER < SYSTEM DESCRIPTION > [WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER

Component Description

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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Revision: 2009 September

INFOID:000000005517464

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DIAGNOSIS SYSTEM (BCM) COMMON ITEM

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

INFOID:000000005683339

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 opera- tion manual.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	Read and save the vehicle specification.Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

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

NOTE:

• *1: For models with rain sensor this mode is displayed, but is not used.

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

FREEZE FRAME DATA (FFD)

DIAGNOSIS SYSTEM (BCM) [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

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

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer	r value) of the moment a particular DTC is detected	
	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 except P position.)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT	Power position status of the moment a particular DTC is detected	While turning power supply position from "RUN" to "ACC" (Emer- gency stop operation)	
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"	
Vehicle Condition	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 posi- tion 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 steer- ing is locked.)	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	 The number is 0 wher The number increases whenever ignition swit 	t ignition switch is turned ON after DTC is detected a malfunction is detected now. If like $1 \rightarrow 2 \rightarrow 338 \rightarrow 39$ after returning to the normal condition inch OFF \rightarrow ON.	

DOOR LOCK

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

INFOID:000000005701181

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.

Revision: 2009 September

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DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode.
AUTOMATIC DOOR LOCK 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) P RANGE: All doors are locked when shifting the selector lever from P position to other than the P position
AUTOMATIC DOOR UNLOCK SELECT	 Automatic door unlock function mode can be selected from the following in the mode. MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2: All doors are unlocked when shifting the selector lever from any position other than the P to P position MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 4: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position
AUTOMATIC LOCK/UNLOCK SET	 Automatic door lock/unlock function mode can be selected from the following in this mode. Off: non-operational Unlock Only: door unlock operation only Lock Only: door lock operation only Lock/Unlock: lock/unlock operation

DATA MONITOR

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 : CONSULT-III Function (BCM - INTELLIGENT KEY) INFOLD:000000005517467

BCM CONSULT-III FUNCTION

DIAGNOSIS SYSTEM (BCM)

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

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

WORK SUPPORT

Monitor item	Description	D
REMO CONT ID CONFIR	It can be checked whether Intelligent Key ID code is registered or not in this mode.	
AUTO LOCK SET	Auto door lock time can be changed in this mode. MODE 1: 1 minute MODE 2: 5 minutes MODE 3: 30 seconds MODE 4: 2 minutes 	E
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side, passenger side and back door) mode can be changed to operate (ON) or not operate (OFF) in this mode.	
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode.	G
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by back door request switch can be changed to operate (ON) or not operate (OFF) with this mode.	
PANIC ALARM SET	 Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode. MODE 1: 0.5 sec. MODE 2: Non-operation MODE 3: 1.5 sec. 	H
PW DOWN SET	 Unlock button pressing time on Intelligent Key button can be selected from the following with this mode. MODE 1: 3 sec. MODE 2: Non-operation MODE 3: 5 sec. 	J
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be supported.	DLł
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (ON) or not operate (OFF) with this mode.	
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode.	
HAZARD ANSWER BACK	 Hazard reminder function mode can be selected from the following with this mode. LOCK ONLY: Door lock operation only UNLOCK ONLY: Door unlock operation only LOCK/UNLOCK: Lock/unlock operation OFF: Non-operation 	Μ
ANS BACK I-KEY LOCK	 Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following with this mode. Horn chirp: Sound horn Buzzer: Sound Intelligent Key warning buzzer OFF: Non-operation 	N
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) with this mode.	
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. • 70 msec • 100 msec • 200 msec	Ρ
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.	
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode.	

DIAGNOSIS SYSTEM (BCM)

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SELF-DIAG RESULT Refer to <u>DLK-245, "DTC Index"</u>.

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 -RR	NOTE: This item is displayed, but cannot be monitored.
REQ SW -RL	NOTE: This item is displayed, but cannot be monitored.
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY-FB	NOTE: This item is displayed, but cannot be monitored.
CLUCH SW	NOTE: This item is displayed, but cannot be monitored.
BRAKE SW 1	Indicates [ON/OFF]* condition of brake switch power supply.
BRAKE SW 2	Indicates [ON/OFF] condition of brake switch.
DETE/CANCL SW	Indicates [ON/OFF] condition of P position.
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position.
S/L -LOCK	Indicates [ON/OFF] condition of steering lock unit (LOCK). NOTE: For models without steering lock unit this item is not displayed.
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE: For models without steering lock unit this item is not displayed.
S/L RELAY -F/B	Indicates [ON/OFF] condition of ignition switch. NOTE: For models without steering lock unit this item is not displayed.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.
DETE SW -IPDM	Indicates [ON/OFF] condition of P position.
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position.
SFT P -MET	Indicates [ON/OFF] condition of P position.
SFT N -MET	Indicates [ON/OFF] condition of N position.
ENGINE STATE	Indicates [STOP/START/CRANK/RUN] condition of engine states.
S/L LOCK-IPDM	Indicates [ON/OFF] condition of steering lock unit (LOCK). NOTE: For models without steering lock unit this item is not displayed.
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE: For models without steering lock unit this item is not displayed.
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay. NOTE: For models without steering lock unit this item is not displayed.
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h].
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h].
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.

DLK-58

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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

ACTIVE TEST

Test item	Description	
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT-III screen is touched.	
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down will be activated after "ON" on CONSULT-III screen is touched.	J
INSIDE BUZZER	 This test is able to check warning chime in combination meter operation. Take away warning chime sounds when "TAKE OUT" on CONSULT-III screen is touched. Key warning chime sounds when "KEY WARN" on CONSULT-III screen is touched. P position warning chime sounds when "P RNG WARN" on CONSULT-III screen is touched. ACC warning chime sounds when "ACC WARN" on CONSULT-III screen is touched. 	DLK
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer will be activated after "ON" on CONSULT-III screen is touched.	
INDICATOR	 This test is able to check warning lamp operation. "KEY" Warning lamp illuminates when "KEY ON" on CONSULT-III screen is touched. "KEY" Warning lamp flashes when "KEY IND" on CONSULT-III screen is touched. 	Μ
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT-III screen is touched.	Ν
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. NOTE: For models without steering lock unit, "ROTAT" is displayed, but cannot be tested. P position warning displays when "SFT P" on CONSULT-III screen is touched. Intelligent Key insert information displays when "INSRT" on CONSULT-III screen is touched. Intelligent Key low battery warning displays when "BATT" on CONSULT-III screen is touched. Take away through window warning displays when "NO KY" on CONSULT-III screen is touched. Take away warning display when "OUTKEY" on CONSULT-III screen is touched. OFF position warning display when "LK WN" on CONSULT-III screen is touched. 	O

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Test item	Description
TRUNK/GLASS HATCH	This test is able to check back door opener actuator open operation. This actuator opens when "ON" on CONSULT-III screen is touched.
FLASHER	This test is able to check hazard warning lamp operation. The hazard warning lamps will be activated after "ON" on CONSULT-III screen is touched.
HORN	This test is able to check horn operation. The horn will be activated after "ON" on CONSULT-III screen is touched.
IGN CONT2	This test is able to check ignition relay operation. The ignition relay will be activated after "ON" on CONSULT-III screen is touched.
P RANGE	This test is able to check CVT shift selector power supply CVT shift selector power is supplied when "ON" on CONSULT-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	NOTE: This item is displayed, but cannot be tested.
ACC INDICATOR	This test is able to check indicator in push-ignition switch operation. Indicator in push-button ignition switch illuminates when "ON" on CONSULT-III screen is touched.
IGNITION ON IND	This test is able to check indicator in push-ignition switch operation. Indicator in push-button ignition switch illuminates when "ON" on CONSULT-III screen is touched.
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination flash when "ON" on CONSULT-III screen is touched.
AUTOMATIC BACK DOOR	NOTE: This item is displayed, but cannot be tested.
AUTOMATIC SLIDING DOOR	NOTE: This item is displayed, but cannot be tested.

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

ACTIVE TEST

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

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DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT) < SYSTEM DESCRIPTION > [WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

CONSULT-III Function (AUTOMATIC BACK DOOR CONTROL UNIT)

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APPLICATION ITEM

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

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

DATA MONITOR

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

SELF-DIAG RESULT Refer to <u>DLK-259, "DTC Index"</u>.

DTC/CIRCUIT DIAGNOSIS **U1000 CAN COMM CIRCUIT**

BCM

BCM : 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 detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected D with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-27, "CAN Communication Signal Chart".

BCM : DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause	
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN com- munication signal continuously for 2 seconds or more.	CAN communication system	0

BCM : Diagnosis Procedure

1.PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.

2. Check "Self Diagnostic Result".

Is "CAN COMM CIRCUIT" displayed?

>> Refer to <u>LAN-17</u>, "Trouble Diagnosis Flow Chart". >> Refer to <u>GI-39</u>, "Intermittent Incident". YES

NO

AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : 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 detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected Μ with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-27, "CAN Communication Signal Chart". Ν

AUTOMATIC BACK DOOR CONTROL UNIT : DTC Logic

DTC DETECTION LOGIC

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

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

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1.PERFORM SELF DIAGNOSTIC

[WITH INTELLIGENT KEY SYSTEM]

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< DTC/CIRCUIT DIAGNOSIS >

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

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to LAN-17, "Trouble Diagnosis Flow Chart".
- NO >> Refer to <u>GI-39, "Intermittent Incident"</u>.

U1010 CONTROL UNIT (CAN)

<u>< DTC/CIRCUIT DIAGNOSIS ></u> U1010 CONTROL UNIT (CAN) BCM

BCM : DTC Logic

DTC DETECTION LOGIC

CONSULT-II scrip	ption	DTC Detection Condition	Possible cause
CONTROL L	JNIT (CAN)	BCM detected internal CAN communication circuit malfuncti	ion. BCM
Diagnosi	is Proced	lure	INFOID:00000005517477
LACE BCM			
TC [U1010]] is detected	l, replace BCM.	
>> Replace	e BCM. Ref	er to BCS-95. "Removal and Installation"	
Special F	Repair Re	equirement	INFOID:000000005517476
UIRED WO	RKWHEN	REPLACING BCM	
control unit	t. Refer to C	CONSULT-III operation manual NATS-IVIS/NVIS.	
_	BACK DC		
MATIC B	ACK DC ACK DO LOGIC	OR CONTROL UNIT : DTC Logic	INFOID:000000005517479
MATIC B MATIC B TECTION DTC	ACK DO ACK DO LOGIC CONSULT-III play descript CONTROL UNI (CAN)	OR CONTROL UNIT : DTC Logic dis- tion DTC Detection Condition IT Automatic back door control unit detected inter- nal CAN communication circuit malfunction	Possible cause utomatic back door control unit
MATI MATIC ETECT DTC		C BACK DOG ION LOGIC CONSULT-III play descript CONTROL UN (CAN) C BACK DOG	C BACK DOOR CONTROL UNIT C BACK DOOR CONTROL UNIT : DTC Logic TON LOGIC CONSULT-III dis- play description CONTROL UNIT (CAN) C BACK DOOR CONTROL UNIT : Diagnosis Proc

[WITH INTELLIGENT KEY SYSTEM]

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INFOID:000000005517476

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

B2401 IGNITION POWER SUPPLY CIRCUIT

Description

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

DTC Logic

INFOID:000000005517482

INFOID:000000005517481

DTC DETECTION LOGIC

	DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
_	B2401	IGNITION POWER SUPPLY CIRCUIT	 When the automatic power back door control unit detects the following condition for 0.3 second or more Power supply condition (OFF) of automatic back door unit and Ignition position signal (ON) from BCM via CAN 	 Fuse Harness or connectors (Ignition power supply condition circuit is open or shorted)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON and wait for at least 1 second.

2. Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

YES >> Go to <u>DLK-66, "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000005517483

1.CHECK FUSE, FUSIBLE LINK AND CIRCUIT BREAKER

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

Fuse No.	Signal name
3	Ignition power supply

Is the fuse fusing?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

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

Is the measurement value normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

B2403 ENCODER

Description

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

DTC Logic

INFOID:000000005517485

INFOID:000000005517484

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
32403	ENCODER	When the automatic back door control unit cannot re- ceive the signal from the encoder just after starting the open/close operation	 Encoder Harness or connectors (Encoder circuit is open or short- ed) Automatic back door control unit

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

- YES >> Go to DLK-67, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

1.CHECK ENCODER SIGNAL

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

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

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39. "Intermittent Incident".

NO >> GO TO 2.

2. CHECK ENCODER POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 4.

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INFOID:000000005517486

B2403 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK ENCODER POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

NO >> Repair or replace harness.

4.CHECK ENCODER GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK ENCODER SIGNAL CIRCUIT

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

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector Terminal		Continuity
B8	24	B76	5	Existed
00	25		1	LAISIEU

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

Automatic back d	oor control unit		Continuity
Connector	Terminal	Ground	Continuity
Do	24	Ground	Not existed
B8	25	•	NOT EXISTED

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK ENCODER

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

DLK-68

B2403 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+) Automatic back door control unit		-	Condition		Voltage (V)	
		(-)			(Approx.)	
Connector	Terminal					
	24	Ground	Back door	Moving	(V) 15 10 5 0 20ms JMKIA1864ZZ	
B8				Stop	0/Battery voltage	
U	25	Ground	Back door	Moving	(V) 15 10 5 0 	
				Stop	0/Battery voltage	

Is the inspection result normal?

YES

>> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>. >> Replace automatic back door unit. Refer to <u>DLK-354, "POWER BACK DOOR DRIVE ASSEMBLY</u> NO : Removal and Installation".

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< DTC/CIRCUIT DIAGNOSIS >

B2409 HALF LATCH SWITCH

Description

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

DTC Logic

INFOID:000000005517488

INFOID:000000005517489

INFOID:000000005517487

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2409	HALF LATCH SWITCH	When the automatic back door control unit cannot detect the half latch switch ON condition even when the back door is in the open position	 Half latch switch Harness or connectors (Half latch switch circuit is open) Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

- 2. Operate power back door from closed to open.
- 3. Check "Self Diagnostic Result" CONSULT-III.

Is DTC detected?

YES >> Go to DLK-70, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.CHECK HALF LATCH SWITCH SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

1. Turn ignition switch OFF.

2. Disconnect back door lock assembly connector.

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

(+)				
Back door lo	ck assembly	(—)	Voltage (V) (Approx.)	
Connector Terminal			()	
D179	6	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.

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



B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic back door control unit		D	Back door lock assembly		Continuity	
Connector	Terminal	Conne	Connector Termina			
B8	8	D179		6	Existed	
Check continuity bet	ween automatic back	door control ur	nit harness conne	ctor and g	round.	
Automatic	back door control unit					
Connector Terminal		al	Ground		Continuity	
B8	8				Not existed	
ne inspection result n	ormal?					
	omatic back door con	trol unit. Refer	to <u>DLK-370, "Rem</u>	oval and	Installation".	
>> Repair or						
HECK HALF LATCH	I SWITCH GROUND	CIRCUIT				
ck continuity betwee	n back door lock asse	embly harness of	connector and gro	und.		
Back doo	or lock assembly					
Connector	Terminal		Ground		Continuity	
D179	8				Existed	
e inspection result n	ormal?			1		
D >> Repair or rep CHECK HALF LATCH		assembly grour	nd circuit.			
D >> Repair or rep CHECK HALF LATCH fer to <u>DLK-71, "Comp</u> the inspection result no ES >> GO TO 6.	I SWITCH onent Inspection". ormal?			d Installa	tion"	
D >> Repair or rep CHECK HALF LATCH er to <u>DLK-71, "Comp</u> the inspection result no ES >> GO TO 6. D >> Replace bac	I SWITCH onent Inspection". ormal? k door lock assembly.			d Installa	tion".	
 >> Repair or rep CHECK HALF LATCH Ter to <u>DLK-71, "Comp</u> the inspection result means S >> GO TO 6. CO >> Replace bac CHECK INTERMITTER 	I SWITCH onent Inspection". ormal? k door lock assembly. NT INCIDENT			d Installa	tion".	
D >> Repair or rep CHECK HALF LATCH er to <u>DLK-71, "Comp</u> the inspection result no ES >> GO TO 6. D >> Replace bac CHECK INTERMITTE	I SWITCH onent Inspection". ormal? k door lock assembly. NT INCIDENT			d Installa	<u>tion"</u> .	
D >> Repair or rep CHECK HALF LATCH fer to <u>DLK-71, "Comp</u> the inspection result no ES >> GO TO 6.	I SWITCH onent Inspection". ormal? k door lock assembly. NT INCIDENT ent Incident".			<u>d Installa</u>	tion".	
D >> Repair or rep CHECK HALF LATCH fer to <u>DLK-71, "Comp</u> the inspection result m ES >> GO TO 6. D >> Replace bac CHECK INTERMITTE fer to <u>GI-39, "Intermitt</u> >> INSPECTIO	I SWITCH onent Inspection". ormal? k door lock assembly. NT INCIDENT ent Incident".			d Installa	tion".	
D >> Repair or rep CHECK HALF LATCH fer to <u>DLK-71, "Comp</u> the inspection result me ES >> GO TO 6. D >> Replace bac CHECK INTERMITTE fer to <u>GI-39, "Intermitt</u> >> INSPECTIO Imponent Inspect	I SWITCH <u>onent Inspection"</u> . <u>ormal?</u> k door lock assembly. NT INCIDENT <u>ent Incident"</u> . N END ion			d Installa		
D >> Repair or rep CHECK HALF LATCH fer to <u>DLK-71, "Comp</u> the inspection result me ES >> GO TO 6. D >> Replace bac CHECK INTERMITTE fer to <u>GI-39, "Intermitt</u> >> INSPECTIO Imponent Inspect	I SWITCH <u>onent Inspection"</u> . <u>ormal?</u> k door lock assembly NT INCIDENT <u>ent Incident"</u> . N END ion CTION			<u>d Installa</u>		
D >> Repair or rep CHECK HALF LATCH fer to <u>DLK-71, "Comp</u> the inspection result me ES >> GO TO 6. D >> Replace bac CHECK INTERMITTE fer to <u>GI-39, "Intermitt</u> >> INSPECTIO Imponent Inspect	I SWITCH <u>onent Inspection"</u> . <u>ormal?</u> k door lock assembly NT INCIDENT <u>ent Incident"</u> . N END ion CTION			d Installa		
D >> Repair or rep CHECK HALF LATCH fer to <u>DLK-71, "Comp</u> the inspection result me ES >> GO TO 6. D >> Replace bac CHECK INTERMITTE fer to <u>GI-39, "Intermitt</u> >> INSPECTIO IMPONENT INSPEC CHECK HALF LATCH	I SWITCH <u>onent Inspection"</u> . <u>ormal?</u> k door lock assembly. INT INCIDENT <u>ent Incident"</u> . N END ion CTION I SWITCH	. Refer to <u>DLK-</u>		d Installa		
D >> Repair or rep CHECK HALF LATCH er to <u>DLK-71, "Comp</u> the inspection result me ES >> GO TO 6. D >> Replace bac CHECK INTERMITTE er to <u>GI-39, "Intermitt</u> >> INSPECTIO mponent Inspect MPONENT INSPEC CHECK HALF LATCH eck back door lock as	I SWITCH <u>onent Inspection"</u> . <u>ormal?</u> k door lock assembly. NT INCIDENT <u>ent Incident"</u> . N END ion CTION I SWITCH sembly (half latch swi	. Refer to <u>DLK-</u>		d Installa		
D >> Repair or rep CHECK HALF LATCH er to <u>DLK-71, "Comp</u> the inspection result me ES >> GO TO 6. D >> Replace bac CHECK INTERMITTE er to <u>GI-39, "Intermitt</u> >> INSPECTIO mponent Inspect MPONENT INSPEC CHECK HALF LATCH eck back door lock as	I SWITCH <u>onent Inspection"</u> . <u>ormal?</u> k door lock assembly NT INCIDENT <u>ent Incident"</u> . N END ion CTION I SWITCH sembly (half latch swi	. Refer to <u>DLK-</u>		d Installa		
D >> Repair or rep CHECK HALF LATCH fer to <u>DLK-71, "Comp</u> the inspection result me ES >> GO TO 6. D >> Replace back CHECK INTERMITTE fer to <u>GI-39, "Intermitt</u> >> INSPECTIO IMPONENT INSPECTIO MPONENT INSPECTIO CHECK HALF LATCH eck back door lock as	I SWITCH <u>onent Inspection"</u> . <u>ormal?</u> k door lock assembly NT INCIDENT <u>ent Incident"</u> . N END ion CTION I SWITCH sembly (half latch swi	. Refer to <u>DLK-</u>	367, "Removal an Condition	d Installa	INFOID:000000	
D >> Repair or rep CHECK HALF LATCH fer to <u>DLK-71, "Comp</u> the inspection result me ES >> GO TO 6. D >> Replace back CHECK INTERMITTE fer to <u>GI-39, "Intermitt</u> >> INSPECTIO IMPONENT INSPECTIO MPONENT INSPECTIO CHECK HALF LATCH eck back door lock as Term	I SWITCH <u>onent Inspection"</u> . <u>ormal?</u> k door lock assembly NT INCIDENT <u>ent Incident"</u> . N END ion CTION I SWITCH sembly (half latch swi	. Refer to <u>DLK-</u>	367, "Removal an		INF01D:000000	

< DTC/CIRCUIT DIAGNOSIS >

B2416 TOUCH SENSOR RH

Description

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

DTC Logic

INFOID:000000005517492

INFOID:000000005517493

INFOID:000000005517491

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2416	TOUCH SENSOR RH	When the automatic back door control unit detects the open circuit of the touch sensor RH	 Touch sensor RH Harness or connectors (Touch sensor RH circuit is short- ed) Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self diagnostic result" with CONSULT-III.

Is DTC detected?

YES >> Go to DLK-72, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.CHECK TOUCH SENSOR RH SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect touch sensor RH connector.

3. Check voltage between touch sensor RH harness connector and ground.

Touch	(+) sensor RH	()	Voltage (V) (Approx.)	
Connector	Terminal			
D164	1	Ground	6	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK TOUCH SENSOR RH CIRCUIT

1. Disconnect automatic back door control unit connector.

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

DLK-72

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back			Touch sense		Continu	uitv
Connector	Terminal	Conne	ector	Terminal	Contine	ity
B8	16	D1	64	1	Existe	d
. Check continuity be	etween automat	ic back door conti	rol unit harne	ess connector	and ground.	
Automatio	c back door control	unit				
Connector		Terminal	Ground		Continuity	,
B8		16			Not existe	d
s the inspection result r	normal?				1	
		oor control unit. R	efer to <u>DLK-3</u>	370, "Remova	I and Installation	<u>-</u> -
	eplace harness.					
CHECK TOUCH SEI						
Check continuity betwee connector.	en automatic ba	ack door control u	init harness o	connector and	d touch sensor R	H harn
Automatic back	door control unit		Touch senso	or RH	Continu	ity
Connector	Terminal	Conne		Terminal		
B8	15	D16	64	2	Existed	Ł
s the inspection result r YES >> GO TO 5. NO >> Repair or re	eplace harness.					
s the inspection result r YES >> GO TO 5. NO >> Repair or re D.CHECK TOUCH SEP Refer to <u>DLK-73, "Comp</u> s the inspection result r YES >> GO TO 6. NO >> Replace tou D.CHECK INTERMITT Refer to <u>GI-39, "Intermit</u>	eplace harness. NSOR RH <u>ponent Inspections normal?</u> uch sensor RH. ENT INCIDENT	Refer to DLK-356	S. "TOUCH S	ENSOR : Re	moval and Install	ation".
s the inspection result r YES >> GO TO 5. NO >> Repair or re D.CHECK TOUCH SER Refer to <u>DLK-73. "Comp</u> s the inspection result r YES >> GO TO 6. NO >> Replace tou D.CHECK INTERMITT Refer to <u>GI-39, "Intermit</u> >> INSPECTIO	eplace harness. NSOR RH <u>ponent Inspection</u> normal? uch sensor RH. ENT INCIDENT ttent Incident".	Refer to DLK-356	S. "TOUCH S	ENSOR : Re	moval and Install	ation".
s the inspection result r YES >> GO TO 5. NO >> Repair or re D.CHECK TOUCH SEP Refer to <u>DLK-73, "Comp</u> s the inspection result r YES >> GO TO 6. NO >> Replace tou D.CHECK INTERMITT Refer to <u>GI-39, "Intermit</u>	eplace harness. NSOR RH <u>ponent Inspection</u> normal? uch sensor RH. ENT INCIDENT ttent Incident".	Refer to DLK-356	S. "TOUCH S	ENSOR : Re		
s the inspection result r YES >> GO TO 5. NO >> Repair or re D.CHECK TOUCH SER Refer to <u>DLK-73. "Comp</u> s the inspection result r YES >> GO TO 6. NO >> Replace tou D.CHECK INTERMITT Refer to <u>GI-39, "Intermit</u> >> INSPECTIO	eplace harness. NSOR RH <u>ponent Inspection</u> normal? uch sensor RH. ENT INCIDENT ttent Incident".	Refer to DLK-356	5. "TOUCH S	ENSOR : Re		
s the inspection result r YES >> GO TO 5. NO >> Repair or re D.CHECK TOUCH SEP Refer to <u>DLK-73, "Comp</u> s the inspection result r YES >> GO TO 6. NO >> Replace tou D.CHECK INTERMITT Refer to <u>GI-39, "Intermit</u> >> INSPECTIO	eplace harness. NSOR RH <u>ponent Inspection</u> normal? uch sensor RH. ENT INCIDENT ttent Incident". ON END ction	Refer to DLK-356	5. "TOUCH S	ENSOR : Re		<u>ation"</u> .
s the inspection result r YES >> GO TO 5. NO >> Repair or re D.CHECK TOUCH SER Refer to <u>DLK-73, "Comp</u> s the inspection result r YES >> GO TO 6. NO >> Replace tou D.CHECK INTERMITT Refer to <u>GI-39, "Intermit</u> >> INSPECTIO Component Inspect Component Inspect Check touch sensor RH	eplace harness. NSOR RH <u>ponent Inspection</u> normal? uch sensor RH. ENT INCIDENT ttent Incident". ON END ction NSOR RH	Refer to DLK-356	S. "TOUCH S	ENSOR : Re	INFOI	
s the inspection result r YES >> GO TO 5. NO >> Repair or re D.CHECK TOUCH SER Refer to <u>DLK-73, "Comp</u> s the inspection result r YES >> GO TO 6. NO >> Replace tou D.CHECK INTERMITT Refer to <u>GI-39, "Intermit</u> >> INSPECTIO Component Inspect Component Inspect Check touch sensor RH	eplace harness. NSOR RH <u>ponent Inspection</u> normal? uch sensor RH. ENT INCIDENT ttent Incident". ON END ction NSOR RH	Refer to <u>DLK-356</u>	S. "TOUCH S	ENSOR : Re		
s the inspection result r YES >> GO TO 5. NO >> Repair or re D.CHECK TOUCH SER Refer to <u>DLK-73, "Comp</u> s the inspection result r YES >> GO TO 6. NO >> Replace tou D.CHECK INTERMITT Refer to <u>GI-39, "Intermit</u> >> INSPECTIO Component Inspect Component Inspect Check touch sensor RH	eplace harness. NSOR RH <u>ponent Inspection</u> normal? uch sensor RH. ENT INCIDENT ttent Incident". ON END ction NSOR RH	Refer to <u>DLK-356</u>	Condition	ENSOR : Re	INFOI	D:00000000

B2417 TOUCH SENSOR LH

Description

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

DTC Logic

INFOID:000000005517496

INFOID:000000005517495

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2417	TOUCH SENSOR LH	When the automatic back door control unit detects the open circuit of the touch sensor LH.	 Touch sensor LH Harness or connectors (Touch sensor LH circuit is open) Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self diagnostic result" with CONSULT-III.

Is DTC detected?

YES >> Go to <u>DLK-74, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000005517497

1.CHECK TOUCH SENSOR RH SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.check automatic back door control unit output signal

1. Turn ignition switch OFF.

2. Disconnect touch sensor LH connector.

3. Check voltage between touch sensor harness connector and ground.

(+) Touch sensor LH		(-)	Voltage (V) (Approx.)	
Connector	Terminal			
D165	D165 1		6	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK TOUCH SENSOR LH CIRCUIT

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

DLK-74

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic bac	c door control unit		Touch sens	or LH	
Connector	Terminal	Co	onnector	Terminal	Continuity
B8	14		D165	1	Existed
B. Check continuity be	tween automat	ic back door contr	ol unit harness	connector and	ground.
Automati	c back door control	unit			
Connector		Terminal	Grou	nd	Continuity
B8		14			Not existed
Is the inspection result i	normal?				
	tomatic back do place harness.	oor control unit. Re	efer to <u>DLK-37</u>	0, "Removal and	Installation".
4. CHECK TOUCH SE	NSOR LH GRO	UND CIRCUIT			
Check continuity betwe	en automatic ba	ack door control u	nit harness co	nnector and tou	ch sensor LH h
connector.					
Automatic bac	k door control unit		Touch sense	or LH	Continuity
Connector	Termina	al Co	nnector	Terminal	- Continuity
		1			
YES >> GO TO 5. NO >> Repair or re D.CHECK TOUCH SE	eplace harness. NSOR LH		D165	2	Existed
Is the inspection result YES >> GO TO 5. NO >> Repair or re 5.CHECK TOUCH SE Refer to <u>DLK-75. "Com</u> Is the inspection result YES >> GO TO 6.	pormal? eplace harness. NSOR LH <u>ponent Inspection</u> normal? uch sensor LH. ENT INCIDENT	on". Refer to <u>DLK-356</u>			
Is the inspection result in the second se	pormal? eplace harness. NSOR LH <u>ponent Inspection</u> normal? uch sensor LH. ENT INCIDENT	on". Refer to <u>DLK-356</u>			
Is the inspection result in YES >> GO TO 5. NO >> Repair or re 5.CHECK TOUCH SEL Refer to <u>DLK-75. "Comp</u> Is the inspection result in YES >> GO TO 6. NO >> Replace tou 6.CHECK INTERMITT Refer to <u>GI-39, "Intermin</u>	pormal? eplace harness. NSOR LH <u>ponent Inspection</u> normal? uch sensor LH. ENT INCIDENT ttent Incident".	on". Refer to <u>DLK-356</u>			
Is the inspection result in YES $>>$ GO TO 5. NO $>>$ Repair or re 5.CHECK TOUCH SEC Refer to DLK-75. "Complete the inspection result in YES $>>$ GO TO 6. NO $>>$ Replace to 6.CHECK INTERMITT Refer to GI-39, "Intermined of the sector of t	pormal? eplace harness. NSOR LH <u>ponent Inspection</u> normal? uch sensor LH. ENT INCIDENT ttent Incident".	on". Refer to <u>DLK-356</u>			and Installation
Is the inspection result in YES >> GO TO 5. NO >> Repair or re 5.CHECK TOUCH SEL Refer to <u>DLK-75. "Comp</u> Is the inspection result in YES >> GO TO 6. NO >> Replace tou 6.CHECK INTERMITT Refer to <u>GI-39, "Intermin</u> >> INSPECTIO Component Inspection	pormal? eplace harness. NSOR LH <u>ponent Inspection</u> normal? uch sensor LH. ENT INCIDENT ttent Incident". ON END ction	on". Refer to <u>DLK-356</u>			and Installation
Is the inspection result in YES >> GO TO 5. NO >> Repair or re 5.CHECK TOUCH SEL Refer to <u>DLK-75. "Comp</u> Is the inspection result in YES >> GO TO 6. NO >> Replace tou 6.CHECK INTERMITT Refer to <u>GI-39, "Intermin</u> >> INSPECTIO Component Inspection 1.CHECK TOUCH SEL	pormal? eplace harness. NSOR LH <u>ponent Inspection</u> normal? uch sensor LH. ENT INCIDENT tent Incident". ON END ction NSOR LH	on". Refer to <u>DLK-356</u>	. "TOUCH SEN		and Installation
Is the inspection result is the inspection result is NO >> GO TO 5. NO >> Repair or result is the inspection result is th	pormal? eplace harness. NSOR LH <u>ponent Inspection</u> normal? uch sensor LH. ENT INCIDENT ENT INCIDENT ttent Incident". DN END ction	on". Refer to <u>DLK-356</u>	. "TOUCH SEN	JSOR : Removal	INFOID:00000 Resistance (Approx.)
Is the inspection result is the inspection result is NO >> Repair or result is NO >> Repair or result is the inspection result is the inspection result is YES >> GO TO 6. NO >> Replace to 6. NO >> Replace to 6. CHECK INTERMITT Refer to GI-39, "Intermined of the component Inspection Component Inspection Component Inspection Check touch sensor LH	pormal? eplace harness. NSOR LH <u>ponent Inspection</u> normal? uch sensor LH. ENT INCIDENT ENT INCIDENT ttent Incident". DN END ction	on". Refer to <u>DLK-356</u>	. "TOUCH SEN	JSOR : Removal	and Installation

B2418 CLUTCH POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

B2418 CLUTCH POWER SUPPLY CIRCUIT

Description

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

DTC Logic

INFOID:000000005517500

INFOID:000000005517501

INFOID:000000005517499

DTC DETECTION LOGIC

DT	C No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B24	18	CLUTCH POWER SUPPLY CIRCUIT	 When the automatic power back door control unit detects any of the following conditions just after the open/close operation Clutch power supply circuit is shorted. Clutch is shorted. 	 Clutch Harness or connectors (Clutch circuit is shorted) Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

- YES >> Go to <u>DLK-76, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

Diagnosis Procedure

1. CHECK CLUTCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK CLUTCH

1. Connect automatic back door control unit connector and automatic back door unit connector.

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

B2418 CLUTCH POWER SUPPLY CIRCUIT NOSIS > [WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

(+) Automatic back d	oor control unit	nit (–) Condition		Voltage (V)	
Connector	Terminal				(Approx.)
Β7	33	Ground	Automatic back door	Active	(V) 15 10 5 0 5 0 5 5 5 5 5 5 5 5 5 5 5 5 5
				Other than above	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> Replace automatic back door unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

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B2419 OPEN SWITCH

Description

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

DTC Logic

INFOID:000000005517503

INFOID:000000005517502

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2419	OPEN SWITCH	 When the automatic power back door control unit detects any of the following conditions The change of open switch cannot be detected for 1 second or more after starting the closure open output for the 3rd time in a row The change of open switch cannot be detected for 0.5 second or more after starting the closure close output for the 3rd time in a row The condition that the open switch is in the ON position and the close switch is in the OFF position is detected when starting the closure open/close output for the 3rd time in a row 	 Open switch Harness or connectors (Open switch circuit is open or shorted) Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

- YES >> Go to DLK-78, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

1.CHECK OPEN SWITCH SIGNAL

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

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

Is the inspection result normal?

NO >> GO TO 2.

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect back door lock assembly connector.

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

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

Is the inspection result normal?

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

 Disconnect automatic l Check continuity betwee bly harness connector. 	een automatic ba			onnector. or and back door lock assem-
Automatic back do	or control unit	E	Back door lock assembly	Continuity
Connector	Terminal	Conne	ector Term	inal
B8	20	D17		
3. Check continuity betwe	en automatic ba	ick door control	unit harness connecto	or and ground.
Automatic ba	ack door control unit			0
Connector	Term	inal	Ground	Continuity
B8	20)		Not existed
s the inspection result nor	mal?			
		ontrol unit. Refe	r to <u>DLK-370, "Remo</u>	val and Installation".
NO >> Repair or repla				
1. CHECK OPEN SWITCH				
Check continuity between I	back door lock as	ssembly harness	s connector and grour	nd.
Back do	oor lock assembly			
Connector		Terminal	Ground	Continuity
D179		8		Existed
NO >> Repair or repla D.CHECK OPEN SWITCH Refer to <u>DLK-79, "Compon</u>	4			
s the inspection result nor	<u>mal?</u>			
YES >> GO TO 6.		hly Defer to DU		· Domoval and Installation"
YES >> GO TO 6. NO >> Replace back		bly. Refer to <u>DL</u> ł	(-353, "DOOR LOCK	: Removal and Installation".
YES >> GO TO 6. NO >> Replace back O.CHECK INTERMITTEN	T INCIDENT	bly. Refer to <u>DL</u> ł	<u> </u>	: Removal and Installation".
YES >> GO TO 6. NO >> Replace back CHECK INTERMITTEN	T INCIDENT	bly. Refer to <u>DL</u> ł	K-353, "DOOR LOCK	: Removal and Installation".
YES >> GO TO 6. NO >> Replace back of CHECK INTERMITTEN Refer to <u>GI-39, "Intermitten</u>	T INCIDENT	bly. Refer to <u>DL</u> ł	<u> </u>	: Removal and Installation".
YES >> GO TO 6. NO >> Replace back of CHECK INTERMITTEN Refer to <u>GI-39, "Intermitten</u> >> INSPECTION	T INCIDENT <u>at Incident"</u> . END	bly. Refer to <u>DL</u> ł	(-353. "DOOR LOCK	
YES >> GO TO 6. NO >> Replace back of CHECK INTERMITTEN Refer to <u>GI-39, "Intermitten</u> >> INSPECTION	T INCIDENT <u>at Incident"</u> . END	bly. Refer to <u>DL</u> ł	K-353, "DOOR LOCK	: Removal and Installation".
YES >> GO TO 6. NO >> Replace back of CHECK INTERMITTEN Refer to <u>GI-39, "Intermitten</u> >> INSPECTION Component Inspectio	T INCIDENT <u>at Incident"</u> . END on	bly. Refer to <u>DL</u> ł	<u> </u>	
YES >> GO TO 6. NO >> Replace back of CHECK INTERMITTEN Refer to <u>GI-39, "Intermitten</u> >> INSPECTION Component Inspection	T INCIDENT <u>at Incident"</u> . END on FION	bly. Refer to <u>DL</u> ł	K-353, "DOOR LOCK	
YES >> GO TO 6. NO >> Replace back of CHECK INTERMITTEN Refer to <u>GI-39, "Intermitten</u> >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK OPEN SWITCH	T INCIDENT <u>at Incident"</u> . END on FION		K-353, "DOOR LOCK	
YES >> GO TO 6. NO >> Replace back CHECK INTERMITTEN Refer to GI-39, "Intermitten >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK OPEN SWITCH Check back door lock asse	T INCIDENT <u>at Incident"</u> . END on FION H embly (open swite		K-353. "DOOR LOCK	
YES >> GO TO 6. NO >> Replace back of CHECK INTERMITTEN Refer to GI-39, "Intermitten >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK OPEN SWITCH Check back door lock asse	T INCIDENT <u>at Incident"</u> . END on FION H embly (open swite	ch).	K-353, "DOOR LOCK	
YES >> GO TO 6. NO >> Replace back 6.CHECK INTERMITTEN Refer to <u>GI-39, "Intermitten</u> >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK OPEN SWITCH Check back door lock asse	T INCIDENT <u>at Incident"</u> . END on FION H embly (open swite	ch).	Condition	INFOID:00000005517505
YES >> GO TO 6. NO >> Replace back of CHECK INTERMITTEN Refer to GI-39, "Intermitten >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK OPEN SWITCH Check back door lock asse	T INCIDENT <u>at Incident"</u> . END on FION H embly (open swite	ch).		INFOID:000000005517505

YES	>> INSPECTION END
-----	-------------------

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace back door lock assembly. Refer to <u>DLK-353, "DOOR LOCK : Removal and Installation"</u>.

B2420 CLOSE SWITCH

Description

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

DTC Logic

INFOID:000000005517507

INFOID:000000005517506

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	D			
B2420	CLOSE SWITCH	 When the automatic power back door control unit detects any of the following conditions The change of close switch cannot be detected for 3 second or more after starting the closure close output for the 3rd time in a row 	 Close switch Harness or connectors (Close switch circuit is open or shorted) Automatic back door control unit 	E			
DTC CON	PTC CONFIRMATION PROCEDURE						
1.PERFOR	RM DTC CONFIRMA	TION PROCEDURE					
	nition switch ON. e automatic back doo	or 3 times		G			
	Self Diagnostic Resu	ult" with CONSULT-III.		Н			
	YES >> Go to <u>DLK-81, "Diagnosis Procedure"</u> .						
Diagnosis	s Procedure		INFOID:000000005517508	I			
1.снеск	CHECK CLOSE SWITCH SIGNAL						

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect back door lock assembly connector.

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

 (+)				0
 Back door lock	assembly	()	Voltage (V) (Approx.)	0
 Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
 D179	5	Ground	Battery voltage	Р

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

$$\mathbf{3}.$$
CHECK CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.

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B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

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

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

NO >> Repair or replace harness.

4.CHECK CLOSE SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK CLOSE SWITCH

Refer to DLK-150, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly. Refer to <u>DLK-353, "DOOR LOCK : Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

COMPONENT INSPECTION

1.CHECK CLOSE SWITCH

Check back door lock assembly (close switch).

Tern	ninal	Condition		Continuity	
Back door lock asse	embly (close switch)	Con	Condition		
5			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-353, "DOOR LOCK : Removal and Installation"</u>.

B2421 CLUTCH OPERATION TIME

Description

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

DTC Logic

INFOID:000000005517511

INFOID:000000005517512

INFOID:000000005517510

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DTC DETECTION LOGIC

	DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	D	
	B2421	CLUTCH OPERA- TION TIME	When the automatic back door control unit detects the power distribution to the clutch for 2 minutes or more	 Automatic back door control unit Harness or connectors (Clutch circuit is shorted) Battery voltage (low voltage) 	E	
D	C CONFI	RMATION PROC	EDURE		F	
1	1. PERFORM DTC CONFIRMATION PROCEDURE					
1. 2.	 Turn ignition switch ON. Check "Self Diagnostic Result" with CONSULT-III. 					
	DTC detec					
~ ~		a to DLK 02 "Diag	pooie Procedure"			

YES >> Go to DLK-83, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

$1. {\sf check automatic back door control unit output}$

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

	Automatic back	matic back door control unit Automati		k door unit	Continuity	DLK
-	Connector	Terminal	Connector	Terminal	Continuity	
-	B7	32	B76	9	Existed	L
	Di	33		3	LAISIEU	

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

Automatic back door control unit				Continuity	-
	Connector	Terminal	Ground	Continuity	N
	B7	32	Giouna	Not existed	
	Bi	33		Not existed	

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to DLK-370, "Removal and Installation".

NO >> Repair or replace harness.

B2422 BACK DOOR STATE

Description

INFOID:000000005517513

[WITH INTELLIGENT KEY SYSTEM]

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

DTC Logic

INFOID:000000005517514

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2422	BACK DOOR STATE	When the automatic power back door control unit detects a back door position malfunction according to the pulse signal	 Back door mechanism Automatic back door control unit Back door closure (Door open and half latch switch is OFF)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

- YES >> Go to DLK-84, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

1.CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(-	+)			
Back door lo	ck assembly	(-)	Voltage (V) (Approx.)	
Connector	Terminal		(**************************************	
D179 6		Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

$${f 3}.$$
CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back of	loor control unit	Back door lock	assembly	
Connector	Terminal	Connector	Terminal	Continuity
B8	8	D179	6	Existed
Check continuity betw	veen automatic back o	door control unit harness	connector and g	round.
Automatic	back door control unit			0
Connector	Terminal	Grou	nd	Continuity
B8	8			Not existed
the inspection result no	ormal?			
IO >> Repair or rep CHECK HALF LATCH	lace harness. SWITCH GROUND C	ol unit. Refer to <u>DLK-370</u> CIRCUIT nbly harness connector		
Back doo	r lock assembly			
Connector	Terminal	Ground		Continuity
D179	8			Existed
YES >> GO TO 5. NO >> Repair or rep CHECK HALF LATCH	lace back door lock as SWITCH	ssembly ground circuit.		
NO >> Repair or rep O.CHECK HALF LATCH Refer to <u>DLK-85. "Compo</u> <u>is the inspection result no</u> YES >> GO TO 6. NO >> Replace back O.CHECK INTERMITTE	lace back door lock as SWITCH <u>ment Inspection"</u> . <u>ormal?</u> & door lock assembly. I NT INCIDENT	ssembly ground circuit.	PR LOCK : Remo	val and Installat
YES >> GO TO 5. NO >> Repair or rep O.CHECK HALF LATCH Refer to <u>DLK-85. "Compo</u> s the inspection result no YES >> GO TO 6. NO >> Replace back O.CHECK INTERMITTE Refer to <u>GI-39. "Intermitte</u> >> INSPECTION Component Inspect	lace back door lock as SWITCH <u>ment Inspection"</u> . <u>mal?</u> door lock assembly. I NT INCIDENT <u>ent Incident"</u> . I END ON		PR LOCK : Remo	val and Installat
YES >> GO TO 5. NO >> Repair or rep O.CHECK HALF LATCH Refer to <u>DLK-85. "Compo</u> Sthe inspection result no YES >> GO TO 6. NO >> Replace back O.CHECK INTERMITTE Refer to <u>GI-39. "Intermitte</u> >> INSPECTION COMPONENT INSPEC OMPONENT INSPEC	lace back door lock as SWITCH <u>ment Inspection"</u> . <u>mal?</u> door lock assembly. I NT INCIDENT <u>ent Incident"</u> . I END ON STION SWITCH	Refer to <u>DLK-353, "DOC</u>	R LOCK : Remo	
YES >> GO TO 5. NO >> Repair or rep OCHECK HALF LATCH efer to <u>DLK-85.</u> "Compo the inspection result no YES >> GO TO 6. NO >> Replace back OMPONENT INSPECTION COMPONENT INSPECTION COMPONENT INSPECTION CHECK HALF LATCH heck back door lock ass	lace back door lock as SWITCH <u>ment Inspection"</u> . <u>ormal?</u> A door lock assembly. In NT INCIDENT <u>ent Incident"</u> . N END ON STION SWITCH sembly (half latch swite	Refer to <u>DLK-353, "DOC</u>	PR LOCK : Remov	
YES >> GO TO 5. NO >> Repair or rep OCHECK HALF LATCH efer to <u>DLK-85.</u> "Compo the inspection result no YES >> GO TO 6. NO >> Replace back OMPONENT INSPECTION COMPONENT INSPECTION COMPONENT INSPEC OMPONENT INSPEC OMPONENT INSPEC Te	lace back door lock as SWITCH ment Inspection". mmal? door lock assembly. In NT INCIDENT ent Incident". NEND ON SWITCH sembly (half latch switch rminal	Refer to <u>DLK-353, "DOC</u>		
YES >> GO TO 5. NO >> Repair or rep OCHECK HALF LATCH efer to <u>DLK-85.</u> "Compo the inspection result no YES >> GO TO 6. NO >> Replace back OMPONENT INSPECTION COMPONENT INSPECTION COMPONENT INSPEC OMPONENT INSPEC OMPONENT INSPEC Te	lace back door lock as SWITCH <u>ment Inspection"</u> . <u>ormal?</u> A door lock assembly. In NT INCIDENT <u>ent Incident"</u> . N END ON STION SWITCH sembly (half latch swite	Refer to <u>DLK-353. "DOC</u>		INFOID:00000

Is the inspection result normal?

YES >> INSPECTION END NO >> Replace back door lock assembly. Refer to <u>DLK-353, "DOOR LOCK : Removal and Installation"</u>.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME < DTC/CIRCUIT DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

Description

INFOID:000000005517517

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

DTC Logic

INFOID:000000005517518

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2423	AUTOMATIC BACK DOOR MOTOR OPERA- TION TIME	When the automatic power back door control unit and automatic back door motor operate in the same direction for 30 seconds or more continuously	 Clutch Automatic back door motor Back door mechanism Automatic back door unit Battery voltage (low battery) Harness (automatic back door motor circuit is shorted)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

- YES >> Go to <u>DLK-86, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000005517519

1. CHECK AUTOMATIC BACK DOOR MOTOR CIRCUIT

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

Automatic back of	door control unit	Automatic b	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B7	27	B76	7	Existed
וט	29		8	LAISIEU

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

Automatic back d	oor control unit		Continuity
Connector	Terminal	Ground	Continuity
B7	27	Ground	Not existed
Di	29		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

1. Connect automatic back door control unit connector and automatic back door motor connector.

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

DLK-86

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	(+)					
utomatic back doo	or control unit	(-)		ndition	Voltage (V) (Approx.)	
Connector	Terminal	()				
				Active (open)	Battery voltage	
	7	Ground	Automatic back door	Active (close)	(V) 15 10 5 0 	
				Other than above	0	
B76		Ground	Automatic back	Active (close)	Battery voltage	
8	Ground			Active (open)	(V) 15 10 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
	Ŭ	Ground door			5ms JMKIA1865ZZ	
				Other than above	0	

Is the inspection result normal?

>> Replace automatic back door unit. Refer to DLK-354, "POWER BACK DOOR DRIVE ASSEMBLY YES : Removal and Installation"

NO >> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

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B2424 CLOSURE CONDITION

Description

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

DTC Logic

INEOID:000000005517521

INFOID:000000005517522

INFOID:000000005517520

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2424	CLOSURE CONDITION	 When the following conditions are detected after OPEN/CLOSE operation of the back door closure motor Open switch and close switch are ON 	 Harness or connector (Open switch or close switch circuit is shorted) Back door lock assembly

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

- YES >> Go to DLK-88, "Diagnosis Procedure".
- >> INSPECTION END NO

Diagnosis Procedure

1.CHECK OPEN/CLOSE SWITCH SIGNAL

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

Monitor item		Condition		
OPEN SW	Back door lock	Fully closed/Half latch	OFF	
OPEN SW	DACK UOUT IOCK	Open	ON	
CLOSE SW	Back door lock	Open/Half latch	OFF	
OLUSE SVV	DACK UUUT IUCK	Fully closed	ON	

Is the inspection result normal?

YES >> Open switch is OK.

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+) Back door lock a	(+) Back door lock assembly		Voltage (V) (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
 D179	5	Ground	Battery voltage	
0179	4	Ground	Dattery voltage	

Is the inspection result normal?

YES >> GO TO 4. NO

>> GO TO 3.

B2424 CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

1. 2.	Disconnect automatic ba Check continuity betwee bly harness connector.				ness connector ar	nd back door lock assem	
-	Automatic back door c	ontrol unit		Back door loo	Continuity		
_	Connector	Terminal	Conr	nector	Terminal	Continuity	
	B8	19 20	D	179	5	Existed	
3.	Check continuity betwee	en automatic bao	ck door con	trol unit har	ness connector ar	nd ground.	
-	Automatic back				Continuity		
_	Connector	Termir	nal		Ground	Continuity	
	B8	19				Not existed	
		20					
	he inspection result norm		=				
Y N	ES >> Replace automa O >> Repair or replac		ontroi unit. F	keter to <u>DLP</u>	<u>K-370, "Removal a</u>	ind Installation".	
	CHECK CLOSE SWITCH		CUIT				
	eck continuity between ba			ness conne	ctor and ground		
On	eck continuity between be		Sembly nam		cior and ground.		
-	Back door lo	ock assembly				Continuity	
	Connector		rminal (und	Continuity	
_	D179	8				Existed	
Y N	he inspection result norm ES >> GO TO 5. O >> Repair or replac CHECK CLOSE SWITCH	e harness.					
Re	er to <u>DLK-89, "Compone</u>	nt Inspection".					
Y	he inspection result norm ES >> GO TO 6.		hy Defer to			movel and installation"	
ы 6	I		iy. Relei (O	<u>ULN-303,</u>	DOUR LOUN : RE	emoval and Installation".	
ĸe	fer to <u>GI-39, "Intermittent Incident"</u> .						
	>> INSPECTION END						
Сс	mponent Inspectior	ı				INFOID:00000000551752	
СС	MPONENT INSPECTI	ON					
1.	CHECK OPEN/CLOSE S	WITCH					
Ch	eck back door lock assem	nbly (open/close	switch).				
_	Terminal Back door lock assembly	(close switch)		Condit	ion	Continuity	

B2424 CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

5			Fully closed	Existed
5	0	Back door lock	Open/Half latch	Not existed
4	0		Open	Existed
4			Fully closed/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to <u>DLK-353, "DOOR LOCK : Removal and Installation"</u>.

B2622 INSIDE ANTENNA

Description

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

DTC Logic

DTC DETECTION LOGIC

-	DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	D
_	B2622	INSIDE ANTENNA 2 CIRCUIT	An excessive high or low voltage from inside anten- na is sent to BCM.	 Inside key antenna (console) Between BCM ~ Inside key antenna (console) 	E

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT-III

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

Is inside key antenna DTC detected?

- YES >> Refer to DLK-91, "Diagnosis Procedure".
- NO >> Inside key antenna (console) 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 with oscilloscope.

(+)		(+)			
	BCM		(–)	Condition	Signal (Reference value.)
Connector Terminal		Terminal			, , , , , , , , , , , , , , , , , , ,
M122	Concolo	70 79	Ground	Place Intelligent Key inside the vehicle.	(V) 15 0 5 0 1 s JMKIA0062GB
M122	Console	72, 73	Ground	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 •••••••••••••••••••••••••••••
					JMKIA0063GB

Is the inspection result normal?

YES >> GO TO 4.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

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B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

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

B	BCM		Inside key antenna (console)		
Connector	Terminal	Connector	Terminal	Continuity	
M122	72	M305	2	Existed	
101122	73	101000	1		

3. Check continuity between BCM harness connector and ground.

	BCM		Continuity	
	Connector		Ground	Continuity
M122	M122 Console		Ground	Not existed
IVI 122	Console	73		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- 1. Replace inside key antenna (console). (New antenna or other antenna)
- 2. Connect BCM and inside key antenna (console) connector.

3. Check signal between BCM harness connector and ground with oscilloscope.

((+) BCM Connector Terminal		()	Condition	Signal (Reference value.)
M122	Console	72, 73	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 5 10 1 5 10 1 5 10 1 5 10 1 5 10 10 15 10 10 15 10 15 10 15 10 15 10 15 10 15 15 10 15 15 10 15 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15
				Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i> <i>1</i>

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to <u>DLK-361, "CONSOLE : Removal and Installation"</u>.
 NO >> Replace BCM. Refer to <u>BCS-95, "Removal and Installation"</u>.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

B2623 INSIDE ANTENNA

Description

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	D
B2623	INSIDE ANTENNA 3 CIRCUIT	An excessive high or low voltage from inside anten- na is sent to BCM.	 Inside key antenna (luggage room) Between BCM ~ Inside key antenna (luggage room) 	E

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT-III

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

Is inside key antenna DTC detected?

- YES >> Refer to DLK-93, "Diagnosis Procedure".
- NO >> Inside key antenna (luggage room) 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 with oscilloscope.

Terminals				
(+)		(-)	Condition	Signal (Reference value.)
BCM connector	Terminal	(-)		(,
21	24.25	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
21 Luggage room	room 34, 35	Ground	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 •••••••••••••••••••••••••••••

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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INFOID:000000005517531

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B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

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

В	BCM		Inside key antenna		
Connector	Terminal	Connector	Terminal	Continuity	
M121	34	B49	2	Existed	
M121	35	D49	1	LAISIEU	

3. Check continuity between BCM harness connector and ground.

BC	CM		
Connector	Terminal	Ground	Continuity
M121	34	Ground	Not existed
WITZ I	35		Not existed

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- 1. Replace inside key antenna (luggage room). (New antenna or other antenna)
- 2. Connect BCM and inside key antenna (luggage room) connector.

3. Check signal between BCM harness connector and ground with oscilloscope.

(+) BCM Connector Terminal		()	Condition	Signal (Reference value.)	
	Connector			Place Intelligent Key inside the vehicle.	
M121	Luggage room	34, 35	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 (luggage room). Refer to <u>DLK-362, "LUGGAGE ROOM : Removal</u> and Installation".

NO >> Replace BCM. Refer to <u>BCS-95, "Removal and Installation"</u>.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

P < DTC/CIRCUIT DIAGNOS POWER SUPPLY A	SIS >	-	CIRCUIT VITH INTELLIGENT KEY SYSTEM]	٨
BCM (BODY CONTR	OL MODULE)			А
BCM (BODY CONTRO	OL MODULE) :	Diagnosis Procedu	ure INFOID:000000005517533	В
1. CHECK FUSE AND FUS	IBLE LINK			D
Check that the following fuse	e and fusible link are	e not fusing.		С
Terminal No.		Signal name	Fuse and fusible link No.	
1	В	attery power supply	L	D
11 Is the fuse fusing?	11		10	
blown. NO >> GO TO 2. 2.CHECK POWER SUPPL 1. Turn ignition switch OFF 2. Disconnect BCM connect 3. Check voltage between	tors.	ector and ground.		F
(+)			
В	СМ	(-)	Voltage (Approx.)	Н
Connector	Terminal			
M118 M119	1	Ground	Battery voltage	
Is the measurement value no				
YES >> GO TO 3. NO >> Repair harness 3. CHECK GROUND CIRCU Check continuity between Bo	JIT	stor and ground.		J
B	СМ			
Connector	Terminal	Ground	Continuity	L
M119	13		Existed	
Is the inspection result norm YES >> INSPECTION E NO >> Repair harness AUTOMATIC BACK E	ND or connector. DOOR CONTR		s Procedure INFOID:00000005517534	M
1. CHECK FUSE, FUSIBLE	LINK AND CIRCUI	T BREAKER		0
Check that the following fuse	e, fusible link and ci	rcuit breaker are not fus	ing.	
Fuse and fu	isible link No.		Signal name	Р
	J			
	breaker		Battery power supply	
	6			
	3		Ignition power supply	

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- > [WITH INTELLIGENT KEY SYSTEM]
- YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

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

Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness.

DOOR SWITCH [WITH INTELLIGENT KEY SYSTEM] < DTC/CIRCUIT DIAGNOSIS > DOOR SWITCH А WITH AUTOMATIC BACK DOOR WITH AUTOMATIC BACK DOOR : Description INFOID:000000005517535 В Detects door open/close condition. WITH AUTOMATIC BACK DOOR : Component Function Check INFOID:000000005517536 **1.**CHECK FUNCTION With CONSULT-III D Check door switches ("DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR" and "DOOR SW-BK") in Data Monitor" mode with CONSULT-III. Ε Monitor item Condition DOOR SW-DR DOOR SW-AS F DOOR SW-RL CLOSE \rightarrow OPEN: OFF \rightarrow ON DOOR SW-RR DOOR SW-BK Is the inspection result normal? >> Door switch is OK. YES Н >> Refer to DLK-97, "WITH AUTOMATIC BACK DOOR : Diagnosis Procedure". NO WITH AUTOMATIC BACK DOOR : Diagnosis Procedure INFOID:000000005517537 1. CHECK DOOR SWITCH INPUT SIGNAL Turn ignition switch OFF. 1. Disconnect malfunctioning door switch connector. 2. 3. Check signal between malfunctioning door switch harness connector and ground with oscilloscope. DLK L

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< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	(+)			Voltage (V)	
Conn	Door switch	Terminal	()	Voltage (V) (Approx.)	
Driver side	B34	2		(V) 15 10 5 0 10 ms JPMIA0011GB	
Passenger side	B220	2		(V) 15 10 5 0 10 ms JPMIA0011GB	
Rear LH	B221	2	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB	
Rear RH	B71	2		(V) 15 10 5 0 10 ms JPMIA0011GB	
Back door	D179	7		(V) 15 10 5 0 10 ms JPMIA0011GB	

Is the inspection result normal?

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

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

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector.

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

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM			D	oor switch		Quatinuitu	
Connector	Termi	nal	Connector		Terminal	Continuity	
M123	150)	B34 (Driver sid	e)			
WI125	124	4 В	220 (Passenger	side)	2		
	69		B221 (Rear LH	H)	2	Existed	
M121	68		B71 (Rear RH	l)			
	66		D179 (Back do	or)	7		
Check continuity betwo	een BCM ha	arness conneo	ctor and grou	nd.			
	BCM						
Connector		Terr	ninal			Continuity	
		150 (Dri	ver side)		_		
M123		124 (Pass	enger side)	Gr	round		
		69 (Re	ear LH)			Not existed	
M121		68 (Re	ear RH)				
		66 (Ba	ck door)	4			
CHECK BACK DOOR S	back door lo	ock assembly		witch) harn	ess connecto	or and ground.	
Back door lock ass	embly (back do					Continuity	
Connector		Terminal		Ground			
D179 the inspection result nor	10	8				Existed	
YES >> GO TO 4. NO >> Repair or repla .CHECK DOOR SWITC efer to <u>DLK-99, "WITH A</u> the inspection result nor YES >> GO TO 5. NO >> Replace mal • Door switch: • Back door lo <u>Installation</u> ".	ace harness H UTOMATIC mal? functioning Refer to <u>DL</u> ock assembl	BACK DOOR door switch. <u>K-360, "Rem</u> ly (back door	oval and Insta	allation".		<u>-OCK : Removal a</u>	
.CHECK INTERMITTEN		1					
efer to <u>GI-39, "Intermitter</u>	<u>it inclaent"</u> .						
>> INSPECTION							
>> INSPECTION ITH AUTOMATIC E		OR : Com	ponent Ins	pection		INFOID:00000000551	
	BACK DC	OR : Com	ponent Ins	spection		INFOID:00000000551	

< DTC/CIRCUIT DIAGNOSIS >

	Terminal			Continuity	
	Door switch		Door switch condition	Continuity	
Each door	2	Ground part of door	Pressed	Not existed	
Each door	2	switch	Released	Existed	
Back door	7	8	Pressed	Not existed	
Dack 0001	I	0	Released	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO

>> Replace malfunction door switch.

- Door switch: Refer to <u>DLK-360, "Removal and Installation"</u>.
- Back door lock assembly (back door switch): Refer to <u>DLK-353</u>, "DOOR LOCK : Removal and <u>Installation</u>".

WITHOUT AUTOMATIC BACK DOOR

WITHOUT AUTOMATIC BACK DOOR : Description

Detects door open/close condition.

WITHOUT AUTOMATIC BACK DOOR : Component Function Check

INFOID:000000005517540

INFOID:000000005517539

1.CHECK FUNCTION

With CONSULT-III

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

Monitor item	Condition	
DOOR SW-DR		
DOOR SW-AS		
DOOR SW-RL	$CLOSE \to OPEN \colon OFF \to ON$	
DOOR SW-RR		
DOOR SW-BK		

<u>Is the inspection result normal?</u> YES >> Door switch is OK.

YES >> Door switch is OK.
 NO >> Refer to <u>DLK-100</u>, "WITHOUT AUTOMATIC BACK DOOR : Diagnosis Procedure".

WITHOUT AUTOMATIC BACK DOOR : Diagnosis Procedure

INFOID:000000005517541

1. CHECK DOOR SWITCH INPUT SIGNAL

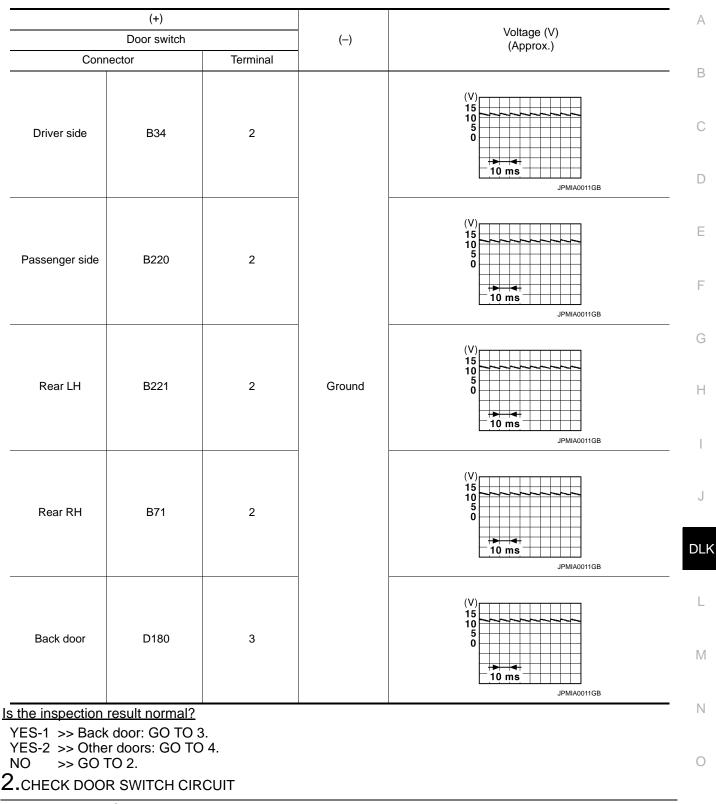
1. Turn ignition switch OFF.

2. Disconnect malfunctioning door switch connector.

3. Check signal between malfunctioning door switch harness connector and ground with oscilloscope.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]



1. Disconnect BCM connector.

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

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< DTC/CIRCUIT DIAGNOSIS >

BCM		Door switch	Continuity	
Connector	Terminal Connector		Terminal	Continuity
M123	150	B34 (Driver side)	B34 (Driver side)	
W123	124	B220 (Passenger side)	2	
	69	B221 (Rear LH)	2	Existed
M121	68	B71 (Rear RH)		
	66	D180 (Back door)	3	

3. Check continuity between BCM harness connector and ground.

BCM		Continuity	
Connector	Terminal	-	Continuity
M123	150 (Driver side)	-	
101123	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-95, "Removal and Installation".

NO >> Repair or replace harness.

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

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR SWITCH

Refer to DLK-102, "WITHOUT AUTOMATIC BACK DOOR : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO

- >> Replace malfunctioning door switch.

 - Door switch: Refer to <u>DLK-360, "Removal and Installation"</u>.
 Back door lock assembly (back door switch): Refer to <u>DLK-353, "DOOR LOCK : Removal and</u> Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

WITHOUT AUTOMATIC BACK DOOR : Component Inspection

INFOID:000000005517542

1. CHECK DOOR SWITCH

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

< DTC/CIRCUIT DIAGNOSIS >

	Terminal		Door switch condition	Continuity	
	Door switch		Door switch condition	Continuity	
Each door	2	Ground part of door	Pressed	Not existed	•
Each door	door 2	switch	Released	Existed	-
Back door	3	4	Pressed	Not existed	-
DACK UUUI	3	4	Released	Existed	-

Is the inspection result normal?

YES >> INSPECTION END NO

>> Replace malfunction door switch.

- Door switch: Refer to DLK-360, "Removal and Installation".
- Back door lock assembly (back door switch): Refer to DLK-353, "DOOR LOCK : Removal and Installation".

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DOOR LOCK AND UNLOCK SWITCH DRIVER SIDE

DRIVER SIDE : Description

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

With CONSULT-III

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

Monitor item	C	ondition	
CDL LOCK SW	LOCK	: ON	
CDE LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDE UNEOCK SW	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-104</u>, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

1.CHECK POWER WINDOW SWITCH

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

Does power window (driver side) operate?

- YES >> Replace power window main switch.
- NO >> Go to <u>PWC-104</u>, "Diagnosis Procedure".

PASSENGER SIDE

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

With CONSULT-III

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

Monitor item	C	ondition	
CDL LOCK SW	LOCK	: ON	
	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDE DIVEOCR SW	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-104</u>, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1.CHECK POWER WINDOW SWITCH

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INFOID:000000005517543

INFOID:000000005517546

INEOID:000000005517545

INFOID:000000005517547

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
 Turn ignition switch ON. Check passenger side power window operation. 	
Does power window (passenger side) operate?	
YES >> Replace power window switch (passenger side) NO >> Go to <u>PWC-104, "Diagnosis Procedure"</u> .	

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DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

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-106, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE : Diagnosis Procedure

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.

	+) ock assembly	(–) Condition of door lo and unlock switc		k Voltage (V) (Approx.)	
Connector	Terminal			(
D9	1	Ground	LOCK	$0 \rightarrow Battery \ voltage \rightarrow 0$	
D9	2	Ground	UNLOCK	$0 \rightarrow Battery \ voltage \rightarrow 0$	

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side). Refer to <u>DLK-321, "DOOR ASSEMBLY : Removal</u> and Installation".

NO >> GO TO 2.

2.check door lock actuator circuit

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

B	BCM		Front door lock assembly (driver side)		
Connector	Terminal	Connector	Terminal	Continuity	
M119	8	D9	1	Existed	
101119	9	59	2	LXISIEU	

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M119	8		Not existed	
101119	9		NOT EXISTED	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-95, "Removal and Installation"</u>.

NO >> Repair or replace harness. PASSENGER SIDE INFOID:000000005517550

INFOID:000000005517551

ASSENGER SIDE :	Descript	ion				
	•					INFOID:00000000551755
ocks/unlocks the door wit	-					
ASSENGER SIDE : Component Function Check						INFOID:00000000551755
CHECK FUNCTION						
Use CONSULT-III to p Touch "ALL LCK" or "A						
the inspection result nor		Sereek that	it works normany.			
ES >> Door lock actu						
IO >> Refer to <u>DLK-</u>			-	<u>edure"</u> .		
ASSENGER SIDE :	. Diagnos	is Procedu	ure			INFOID:00000000551755
CHECK DOOR LOCK A	ACTUATOR	SIGNAL				
Turn ignition switch OF						
Disconnect front door Check voltage betwee				e) harness	connector	and ground.
	T			-		
(+) Front door lock assembly (pa	assenger side)	(—)	Condition of door			tage (V)
	Terminal	()	unlock swite	ch	(Approx.)	
D48	5	Ground	LOCK		$0 \rightarrow Batte$	ry voltage $\rightarrow 0$
D46	6	Ground	UNLOCK		$0 \rightarrow Battery \ voltage \rightarrow 0$	
Removal and I O >> GO TO 2.	Installation".	2 4	с ,			OR ASSEMBLY
CHECK DOOR LOCK A Disconnect BCM conn Check continuity betw ness connector.		arness conn	ector and front do	oor lock as	sembly (pa	ssenger side) har
Disconnect BCM conn Check continuity betw	veen BCM h	arness conn				
Disconnect BCM conn Check continuity betw ness connector.	veen BCM h		ector and front do Front door lock asser Connector	mbly (passeng		ssenger side) har Continuity
Check continuity betw ness connector. BCM Connector	veen BCM h		Front door lock asser Connector	mbly (passeng Tern	jer side)	Continuity
Disconnect BCM conn Check continuity betw ness connector. BCM Connector M119	veen BCM h 1 Termina 8 5	I	Front door lock asser Connector D48	mbly (passeng Tern	jer side) ninal	
Disconnect BCM conn Check continuity betw ness connector. BCM Connector	veen BCM h 1 Termina 8 5	I	Front door lock asser Connector D48	mbly (passeng Tern	jer side) ninal 5	Continuity
Disconnect BCM conn Check continuity betw ness connector. BCM Connector M119 Check continuity betwe	veen BCM h 1 Termina 8 5	I	Front door lock asser Connector D48	mbly (passeng Tern	ger side) ninal 5 5	Continuity Existed
Disconnect BCM conn Check continuity betw ness connector. BCM Connector M119 Check continuity betwe	veen BCM ha	II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Front door lock asser Connector D48	mbly (passeng Tern t	ger side) ninal 5 5	Continuity
Disconnect BCM conn Check continuity betw ness connector. BCM Connector M119 Check continuity betwo	veen BCM ha	Irness conne	Front door lock asser Connector D48 ector and ground.	mbly (passeng Tern t	yer side) ninal 5 5	Continuity Existed
Disconnect BCM conn Check continuity betw ness connector. BCM Connector M119 Check continuity betw Connector M119	veen BCM ha	II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Front door lock asser Connector D48 ector and ground.	mbly (passeng Tern t	yer side) ninal 5 5	Continuity Existed Continuity
Disconnect BCM conn Check continuity betw ness connector. BCM Connector M119 Check continuity betw Connector M119 the inspection result nor	veen BCM ha	Irness conne	Front door lock asser Connector D48 ector and ground. Grou	nbly (passeng	yer side) ninal 5 5	Continuity Existed Continuity
Disconnect BCM conn Check continuity betw ness connector. BCM Connector M119 Check continuity betw Connector M119	veen BCM ha	Terminal 8 5 CS-95, "Rem	Front door lock asser Connector D48 ector and ground. Grou	nbly (passeng	yer side) ninal 5 5	Continuity Existed Continuity

REAR LH : Description

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

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-108, "REAR LH : Diagnosis Procedure"</u>.

REAR LH : Diagnosis Procedure

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			()	
 D85	1	Ground	Lock	$0 \rightarrow Battery \ voltage \rightarrow 0$	
000	2	Ground	Unlock	$0 \rightarrow Battery \ voltage \rightarrow 0$	

Is the inspection result normal?

YES >> Replace rear door lock assembly LH. Refer to <u>DLK-326</u>, "<u>DOOR ASSEMBLY</u> : <u>Removal and</u> <u>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	СМ	Rear door lock assembly LH Connector Terminal		Continuity
Connector	Terminal			Continuity
M119	8		1	Existed
101119	10	D85	2	LAISIEU

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M119	8	Ground	Not existed	
	10		NOT EXISTED	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-95. "Removal and Installation"</u>.

NO >> Repair or replace harness.

REAR RH

REAR RH : Description

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

1.CHECK FUNCTION

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DLK-108

[WITH INTELLIGENT KEY SYSTEM]

INFOID:000000005517556

INFOID:000000005517557

DOOR LOCK ACTUATOR [WITH INTELLIGENT KEY SYSTEM] < DTC/CIRCUIT DIAGNOSIS > 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 <u>DLK-109</u>, "REAR RH : Diagnosis Procedure". **REAR RH : Diagnosis Procedure** INFOID:000000005517560 1. CHECK DOOR LOCK ACTUATOR SIGNAL Turn ignition switch OFF. Disconnect rear door lock assembly RH. Check voltage between rear door lock assembly RH harness connector and ground.

1.

1.

2.

- 2.
- 3.

 (+ Rear door lock	,	()	Condition of door lock and unlock switch	Voltage (V) (Approx.)	E
 Connector	Terminal	-		(Αρριοχ.)	
 D105	5	Ground	Lock	$0 \rightarrow Battery \ voltage \rightarrow 0$	F
D105	6	Ground	Unlock	$0 \rightarrow Battery \ voltage \rightarrow 0$	

Is the inspection result normal?

YES	>> Replace rear door lock assembly RH. Refer to DLK-326, "DOOR ASSEMBLY : I	Removal and ⁽
	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. 2.

E	BCM	Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M119	8	D105	5	Existed
WIT19	10		6	LAISIEU

3. Check continuity between BCM harness connector and ground.

E	BCM		Continuity
Connector	Terminal	Ground	Continuity
M119	8	Ground	Not Existed
101119	10		INOL EXISTED

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-95, "Removal and Installation".

NO >> Repair or replace harness. Μ

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< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER ACTUATOR

Description

Back door opener actuator open back door from BCM.

Component Function Check

1.CHECK FUNCTION

1. Perform Active Test ("TRUNK/GLASS HATCH") with CONSULT-III.

2. Touch "OPEN" and check that back door opens.

Is the inspection result normal?

YES >> Back door opener actuator is OK.

NO >> Refer to DLK-110, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly.

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

(+) Back door lock	assembly	()	Condition of back door opener switch	Voltage (V) (Approx.)
Connector	Terminal	-	opener switch	(, , , , , , , , , , , , , , , , , , ,
D180	1	Ground	ON	$0 \rightarrow \text{Battery voltage} \rightarrow 0$

Is the inspection result normal?

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

NO >> GO TO 2.

2.check back door opener actuator circuit

1. Disconnect BCM connector.

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

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

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M120	23		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-95, "Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3.}$ CHECK BACK DOOR OPENER ACTUATOR GROUND CIRCUIT

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

-	Back door lo	ock assembly	Continuity	
_	Connector	Terminal	Ground	Continuity
_	D180	2		Existed

INFOID:000000005517561

INFOID:000000005517562

BACK DOOR OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection normal?

YES	>> Replace back door lock assembly. Refer to DLK-353, "DOOR LOCK : Removal and Installation"	A
NO	>> Repair or replace harness.	

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< DTC/CIRCUIT DIAGNOSIS >

KEY CYLINDER SWITCH

Description

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

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" with CONSULT-III. Refer to <u>DLK-55, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)"</u>.

Monitor item	Co	ndition	
KEY CYL LK-SW	Lock	: ON	
KET OTE LK-SW	Neutral / Unlock	: OFF	
KEY CYL UN-SW	Unlock	: ON	
KET OTL ON-SW	Neutral / Lock	: OFF	

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
- NO >> Refer to <u>DLK-112, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000005517566

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

······································	+) sembly (driver side)	(-)	Voltage (V) (Approx.)
Connector	Terminal		()
D9	5	Ground	5
59	6	Ground	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

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

Power winde	ow main switch	Front door lock as	sembly (driver side)	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
D5	4	- D9	6	Existed	
05	6	- 09	5	Existed	

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

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	dow main switch		
Connector	Terminal	Crowned	Continuity
D5	4	Ground	Not existed
	6		
Is the inspection result nor YES >> Replace powe NO >> Repair or repla 3.CHECK DOOR KEY CY	r window main switch. R ace harness.	Refer to <u>PWC-119, "Removal ar</u> DUND CIRCUIT	nd Installation".
		y (driver side) harness connect	or and ground.
Front door lock a	assembly (driver side)		0
Connector	Terminal	Ground	Continuity
D9	4		Existed
Is the inspection result nor YES >> GO TO 4. NO >> Repair or repla			
4.CHECK DOOR KEY CY	LINDER SWITCH		
Is the inspection result nor	mal?		
YES >> GO TO 5. NO >> Replace front of and Installation	door lock assembly (driv <u>n"</u> .	ver side). Refer to <u>DLK-321, "D</u>	OOR ASSEMBLY : Remova
NO >> Replace front of	door lock assembly (driv <u>1"</u> . T INCIDENT	ver side). Refer to <u>DLK-321, "D</u>	OOR ASSEMBLY : Remova
YES >> GO TO 5. NO >> Replace front on and Installation 5.CHECK INTERMITTEN	door lock assembly (driv <u>n"</u> . T INCIDENT <u>nt Incident"</u> . END on	ver side). Refer to <u>DLK-321, "D</u>	OOR ASSEMBLY : Remova
YES >> GO TO 5. NO >> Replace front of and Installation 5.CHECK INTERMITTEN Refer to GI-39, "Intermitter >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK DOOR KEY CY 1. Turn ignition switch OF 2. Disconnect front door	door lock assembly (driv <u>n"</u> . T INCIDENT <u>It Incident"</u> . END ON FION /LINDER SWITCH =F. lock assembly (driver sid	ver side). Refer to <u>DLK-321, "D</u> de) (key cylinder switch) conne key cylinder switch) terminals.	INFOID:00000000551756;
YES >> GO TO 5. NO >> Replace front of and Installation 5.CHECK INTERMITTEN Refer to GI-39, "Intermitter >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK DOOR KEY CY 1. Turn ignition switch OF 2. Disconnect front door	door lock assembly (driv <u>n"</u> . T INCIDENT <u>at Incident"</u> . END ON FION /LINDER SWITCH =F. lock assembly (driver side) (H	de) (key cylinder switch) conne key cylinder switch) terminals.	INFOID:00000000551756
YES >> GO TO 5. NO >> Replace front of and Installation 5.CHECK INTERMITTEN Refer to GI-39, "Intermitter >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK DOOR KEY CY 1. Turn ignition switch OF 2. Disconnect front door lock a	door lock assembly (driv <u>n"</u> . T INCIDENT <u>Int Incident"</u> . END ON FION /LINDER SWITCH =F. lock assembly (driver side) (k assembly (driver side) (k	de) (key cylinder switch) conne key cylinder switch) terminals. Key position	INFOID:00000000551756;
YES >> GO TO 5. NO >> Replace front of and Installation 5.CHECK INTERMITTEN Refer to GI-39, "Intermitter >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK DOOR KEY CY 1. Turn ignition switch OF 2. Disconnect front door 3. Check front door lock a	door lock assembly (driv <u>n"</u> . T INCIDENT <u>Int Incident"</u> . END ON FION /LINDER SWITCH =F. lock assembly (driver side) (k assembly (driver side) (k	de) (key cylinder switch) conne key cylinder switch) terminals. Key position Unlock	ector.
YES >> GO TO 5. NO >> Replace front of and Installation 5.CHECK INTERMITTEN Refer to GI-39, "Intermitter >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK DOOR KEY CM 1. Turn ignition switch OF 2. Disconnect front door 3. Check front door lock assembly	door lock assembly (driv <u>n"</u> . T INCIDENT <u>Int Incident"</u> . END ON FION /LINDER SWITCH =F. lock assembly (driver side) (k assembly (driver side) (k	de) (key cylinder switch) conne key cylinder switch) terminals. Key position	ector.
YES >> GO TO 5. NO >> Replace front of and Installation 5.CHECK INTERMITTEN Refer to GI-39, "Intermitter >> INSPECTION Component Inspection COMPONENT INSPECT 1.CHECK DOOR KEY CM 1. Turn ignition switch OF 2. Disconnect front door 3. Check front door lock assembly	door lock assembly (driv <u>n"</u> . T INCIDENT <u>Int Incident"</u> . END DN FION (LINDER SWITCH FF. lock assembly (driver side) (H nal (driver side) connector	de) (key cylinder switch) conne key cylinder switch) terminals. Key position Unlock Neutral / Lock	ector.

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Replace front door lock assembly (driver side). Refer to <u>DLK-321, "DOOR ASSEMBLY : Removal</u> and Installation".

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Description

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

1. CHECK FUNCTION

With CONSULT-III

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

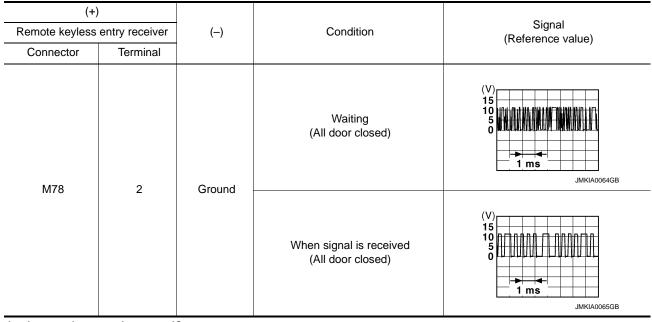
NO >> Refer to <u>DLK-114</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000005517570

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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



Is the inspection result normal?

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

NO >> GO 10 2.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

1. Disconnect BCM connector and remote keyless entry receiver connector

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

B	СМ	Remote keyless entry receiver Terminal Connector Terminal		Continuity
Connector	Terminal			Continuity
M122	83	M78	2	Existed

3. Check continuity between BCM harness connector and ground.

INFOID:000000005517568

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Connector M122 ne inspection result norm S >> Replace BCM. D >> Repair or replace CHECK REMOTE KEYL Disconnect remote keyl Check voltage between (+) Remote keyless entr Connector	Refer to <u>BCS-95</u> , ce harness betwe ESS ENTRY RE less entry receive remote keyless	, "Removal and Ir een BCM and rem CEIVER POWER er.	note keyless entry recei	
te inspection result norm S >> Replace BCM. D >> Repair or replace CHECK REMOTE KEYL Disconnect remote keyl Check voltage between (+) Remote keyless entr	nal? Refer to <u>BCS-95</u> , ce harness betwe ESS ENTRY RE less entry receive n remote keyless of	een BCM and rem CEIVER POWER	note keyless entry recei	ver.
S >> Replace BCM. >> Repair or replace CHECK REMOTE KEYL Disconnect remote keyl Check voltage between (+) Remote keyless entr	Refer to <u>BCS-95</u> , ce harness betwe ESS ENTRY RE less entry receive remote keyless	een BCM and rem CEIVER POWER	note keyless entry recei	
(+) Remote keyless entr	ry receiver			
Remote keyless entr	-			
	-		s	ignal
Connector	lerminal	()	(Reference value)	
M78	4	Ground	(V) 15 10 5 4 4 1 5 10 5 10 5 10 5 10 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	
				eiver harness conr
BCM		Remote k	eyless entry receiver	
BCM Connector	Terminal	Remote ke		eiver harness conr
	Terminal 103		eyless entry receiver	
Connector M122	103	Connector M78	eyless entry receiver Terminal	- Continuity
Connector M122 Check continuity betwe	103	Connector M78	eyless entry receiver Terminal	Continuity Existed
Connector M122 Check continuity betwe E Connector	103 een BCM connect BCM Termina	Connector M78 or and ground.	eyless entry receiver Terminal	Continuity Existed Continuity
Connector M122 Check continuity betwe Connector M122	103 een BCM connect BCM Termina 103	Connector M78 or and ground.	eyless entry receiver Terminal 4	Continuity Existed
Connector M122 Check continuity betwe Connector M122 ne inspection result norm S >> Replace BCM.	103 een BCM connect 3CM Termina 103 nal? Refer to <u>BCS-95</u> ce harness betwee ESS ENTRY RE	Connector M78 or and ground. al 	eyless entry receiver Terminal 4 Ground Stallation". hote keyless entry recei D CIRCUIT	Continuity Existed Continuity Not existed Ver.
Connector M122 Check continuity betwe Connector M122 Me inspection result norm S >> Replace BCM. >> Repair or replace CHECK REMOTE KEYL eck continuity between result	103 een BCM connect 3CM Termina 103 nal? Refer to <u>BCS-95</u> ce harness betwee ESS ENTRY RE	Connector M78 or and ground. al 	eyless entry receiver Terminal 4 Ground Stallation". hote keyless entry recei D CIRCUIT	Continuity Existed Continuity Not existed ver.
Connector M122 Check continuity betwe Connector M122 Me inspection result norm S >> Replace BCM. >> Repair or replace CHECK REMOTE KEYL eck continuity between result	103 een BCM connect 3CM Termina 103 nal? Refer to <u>BCS-95</u> , ce harness betwe ESS ENTRY RE emote keyless er	Connector M78 or and ground. al 	eyless entry receiver Terminal 4 Ground Stallation". hote keyless entry recei D CIRCUIT	Continuity Existed Continuity Not existed Ver.

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

1. Disconnect BCM connector.

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

B	CM	Remote keyles	s entry receiver	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M123	137	M78	1	Existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-95. "Removal and Installation"</u>.

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH

Description

Output back door open signal to BCM.

Component Function Check

1.CHECK FUNCTION

Check back door opener switch ("TR/BD OPEN SW") in "Data Monitor mode with CONSULT-III. • When back door opener switch is turned to "ON".

Monitor item		Condition	
	Back door op	ener switch is pressed: ON	
TR/BD OPEN SW	Back door opener switch is released: OFF		E
ls the inspection result normal? YES >> Back door opener switch is OK. NO >> Refer to <u>DLK-117, "Diagnosis Pro</u>	ocedure".		F
Diagnosis Procedure 1.check back door open input sign	VAL	INFOID:	:0000000005517573 G
 Turn ignition switch OFF. Disconnect back door opener switch con Check voltage between back door opene 		connector and ground.	H
(+)	()	Voltage (V)	

	(+) Back door opener switch assembly		Voltage (V) (Approx.)	
Connector	Terminal	_	(/(\$))	– J
D186	1	Ground	(V) 15 10 5 0 10 ms JPMA0011GB	DLK

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M121	67		Not existed	

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INFOID:000000005517571

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-95, "Removal and Installation"</u>.

NO >> Repair harness or connector.

$\mathbf{3}$.check back door opener switch ground circuit

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

Back door opene	r switch assembly		Continuity	
Connector	Terminal	Ground	Continuity	
D186	2		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR OPENER SWITCH

Refer to DLK-118, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly. Refer to <u>DLK-367, "Removal and Installation"</u>.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:000000005517574

1. CHECK BACK DOOR OPENER SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly. Refer to <u>DLK-367, "Removal and Installation"</u>.

DOOR REQUEST SWITCH

WITH INTELLIGENT KEY SYSTEM

	TC/CIRCUIT D	IAGNOSIS >	СН	[W]		NT KEY SYSTEM]
	scription					A
		ck operation to B	CM			
_		Inction Check				INFOID:000000005517576
_	CHECK FUNCT		-			
				V-AS") in Data Mo	nitor mode	C
<u> </u>						
		Monitor item			Condition	
	DR REQ SW AS REQ SW				est switch is pressed:	
				Door reque	st switch is released:	
		equest switch is C	OK. Inosis Procedure".			F
Dia	agnosis Proc	edure				INFOID:000000005517577
1.0		UTPUT SIGNAL				G
2. 3.				quest switch) conr side handle (requ		ess connector and \vdash
_		(+)			Vol	tage (V)
		outside handle (reque	-	()		pprox.)
	Conn Driver side	D11	Terminal			J
	Passenger side	D50	1	Ground	(V) 15 10 5 0 	JMKIA0059GB
ls ti	ne inspection re	sult normal?				
N			CH CIRCUIT			N
1. 2.	Disconnect BC	M connector. ity between BCN		tor and malfuncti	oning front outsi	de handle (request
_	В	СМ	front o	utside handle (request	switch)	Continuity
_	Connector	Terminal		nector	Terminal	-
	M122	101	LH (driver side) RH (passenger side)	D11 D50	- 1	P
_		100	(passeriger side)	200		

3. Check continuity between BCM harness connector and ground.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M122	101	Ground	Not existed
WIZZ	100		NOT EXISTED

Is the inspection result normal?

- YES >> Replace BCM. Refer to <u>BCS-95, "Removal and Installation"</u>.
- NO >> Repair or replace harness between BCM and malfunctioning front outside handle (request switch).

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 4.

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

4.CHECK DOOR REQUEST SWITCH

Refer to DLK-120, "Component Inspection".

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace malfunctioning front outside handle (request switch). Refer to <u>DLK-346, "OUTSIDE HAN-</u> <u>DLE : Removal and Installation"</u>.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1.CHECK DOOR REQUEST SWITCH

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

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

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace front outside handle. Refer to <u>DLK-346, "OUTSIDE HANDLE : Removal and Installation"</u>.

INEOID:000000005517578

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR REQUEST SWITCH

Description

Transmits lock/unlock operation to BCM.

Component Function Check

1.CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Back door request switch is OK. NO >> Refer to <u>DLK-121</u>, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK BCM OUTPUT SIGNAL

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

	-) r switch assembly	(-)	Voltage (V) (Approx.)	I
Connector	Terminal		(())	
D186	4	Ground	(V) 15 10 5 0 10 ms JPMIA0016GB	J DLK

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check back door request switch circuit

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

BC	CM	Back door opene	r switch assembly	Continuity	(
Connector	Terminal	Connector	Terminal	Continuity	
M121	61	D186	4	Existed	

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity	
 Connector Terminal		Ground	Continuity	
 M121	61		Not existed	

Is the inspection result normal?

А

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INFOID:000000005517579

INFOID:000000005517580

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace BCM. Refer to <u>BCS-95, "Exploded View"</u>.
- NO >> Repair harness or connector.

$\mathbf{3}$.check back door request switch ground circuit

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

Back door opene	r switch assembly		Continuity
Connector	Connector Terminal		Continuity
D186	3		Existed

Is the inspection result normal?

YES >> GO TO 4.

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

4.CHECK BACK DOOR REQUEST SWITCH

Refer to DLK-122, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly. Refer to <u>DLK-367, "Removal and Installation"</u>.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:000000005517582

1. CHECK BACK DOOR REQUEST SWITCH

Check back door opener switch assembly terminals.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly. Refer to <u>DLK-367, "Removal and Installation"</u>.

UNLOCK SENSOR

[WITH INTELLIGENT KEY SYSTEM]

UNLOCK SENSO	R		
Description			INFOID:000000005517583
Detects door lock conditio	n of driver door.		
Component Functio	n Check		INFOID:000000005517584
1.CHECK FUNCTION			
Check unlock sensor ("DC	OR STAT-DR") in	"Data Monitor" mode.	
Monitor	tem		Condition
DOOR STAT-DR		Front door lock (driver side) LC	
Is the inspection result no		Front door lock (driver side) UI	NLOCK: ON
scope.	FF. lock assembly (dr n front door lock a		ess connector and ground with oscillo-
(+			Voltage (V)
Front door lock ass	Terminal	()	(Approx.)
D9	3	Ground	(V) 15 10 0 10 ms JPMIA0012GB
Is the inspection result no YES >> GO TO 3. NO >> GO TO 2.	rmal?		

2. CHECK UNLOCK SENSOR CIRCUIT

1. Disconnect BCM connector.

< DTC/CIRCUIT DIAGNOSIS >

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

					0
B	CM	Front door lock as	sembly (driver side)	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M123	119	D9	3	Existed	Р

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Connector Terminal		Continuity
M123	119		Not existed

Ν

UNLOCK SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-95, "Removal and Installation"</u>.

NO >> Repair harness or connector.

$\mathbf{3}$.check unlock sensor ground circuit

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

Front door lock as	sembly (driver side)		Continuity
Connector	r Terminal Ground	Ground	Continuity
D9	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

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

4.CHECK UNLOCK SENSOR

Refer to DLK-124, "Component Inspection".

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace front door lock assembly (driver side). Refer to <u>DLK-342, "DOOR LOCK : Removal and</u> <u>Installation"</u>.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:000000005517586

1.CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.

- 2. Disconnect front door lock assembly (driver side).
- 3. Check front door lock assembly terminals.

Front door lock ass	embly (driver side)	Front door lock assembly (driver side) condition	Continuity	
Term	inal	From door lock assembly (unver side) condition		
3	Δ	Unlock	Existed	
	4	Lock	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front lock assembly (driver side). Refer to <u>DLK-342, "DOOR LOCK : Removal and Instal-</u> lation".

OUTSIDE KEY ANTENNA

[WITH INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT				[WITH	INTELLIGENT KEY SYSTEM]
UTSIDE KI	EY ANTE	NNA			
escription					INFOID:00000000551758
etects whether li tegrated in front				side) and installed	in rear bumper.
omponent F	unction C	heck			INFOID:00000000551758
CHECK DOOR	REQUEST S	SWITCH			
neck door reque	st switch. Ref	er to DLK-	-119, "Compone	ent Function Checl	<u><"</u>
the inspection r (ES >> GO T IO >> Refer CHECK FUNC) 2. to <u>DLK-119, '</u>		Procedure".		
e sure that Intelli	gent Key is ir	each outs	ide key antenn	a detection range.	
	le key antenr	ia is OK.	·	sed?	
	to <u>DLK-125.</u>	Diagnosis	<u>Frocedure</u> .		
adnosis Pro					INIEQID-00000000551750
agnosis Pro .CHECK OUTS	DE KEY ANT	ENNA INF	PUT SIGNAL 1		INFOID:00000000551758
CHECK OUTS	DE KEY ANT			ground with oscillos	
CHECK OUTS Turn ignition s Check signal (+	DE KEY ANT witch OFF. between BCM	1 harness c	connector and (cope.
CHECK OUTS Turn ignition s Check signal (+ BC	DE KEY ANT witch OFF. between BCN		connector and (ground with oscillos	
CHECK OUTS Turn ignition s Check signal (+	DE KEY ANT witch OFF. between BCM	1 harness c	connector and (cope. Signal
CHECK OUTS Turn ignition s Check signal (+ BC Connector	DE KEY ANT witch OFF. between BCM A Terminal de 76, 77	1 harness c	connector and (cope. Signal

YES >> Replace BCM. Refer to BCS-95, "Removal and Installation"

>> GO TO 2. NO

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

Disconnect BCM connector and malfunctioning front outside handle connector or outside key antenna 1. (rear bumper) connector.

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

DLK-125

Ρ

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

В	BCM		Outside key antenna	
Connector	Terminal	Connector	Terminal	- Continuity
	77	D12 (driver side)	1	
M122	76		2	-
101122	75	D52 (passenger side)	1	Existed
	74		2	Existed
M121	39	B85 (rear humper)	1	-
	38	B85 (rear bumper)	2	†

3. Check continuity between BCM harness connector and ground.

BC	CM		Continuity
Connector	Terminal		Continuity
	74	-	
M122	75	Ground	
IVI I ZZ	76	- Ground	Not existed
	77	-	NOL EXISTED
M121	38		
101121	39		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace malfunctioning outside key antenna. (New antenna or other antenna)

2. Connect BCM connector and outside key antenna (New antenna or other antenna) connector.

3. Check signal between BCM harness connector and ground with oscilloscope.

	(+) BCM		()	Condition		Signal (Reference value.)
С	onnector	Terminal				
	Driver side	77				
M122	Passenger side	75	Ground	Door request switch is	When Intelligent Key is in the antenna de- tection area.	(V) 15 10 5 0 1 s JMKIA0062GB
M121	Rear bumper	39	Ground	pushed	When Intelligent Key is not in the antenna detection area.	(V) 15 10 0 1 s JMKIA0063GB

Is the inspection result normal?

NO >> Replace BCM. Refer to <u>BCS-95, "Removal and Installation"</u>.

DLK-126

YES-1 >> Replace malfunctioning front outside handle (LH or RH). Refer to <u>DLK-346. "OUTSIDE HANDLE :</u> <u>Removal and Installation"</u>.

YES-2 >> Replace outside key antenna (Rear bumper). Refer to <u>DLK-363, "REAR BUMPER : Removal and</u> <u>Installation"</u>.

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER INTELLIGENT KEY WARNING BUZZER Description Answers back and warns for an inappropriate operation. Component Function Check 1.CHECK FUNCTION Check Intelligent Key warning buzzer ("OUTSIDE BUZZER") in Active Test r Is the inspection result normal? YES >> Intelligent Key warning buzzer (engine room) is OK. NO >> Refer to DLK-127, "Diagnosis Procedure". Diagnosis Procedure 1. CHECK FUSE 1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES >> Replace the blown fuse after repairing the affected circuit if a fu: NO >> GO TO 2. 2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connect (+) Intelligent Key warning buzzer YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. <th>INTELLIGENT KEY SYSTEM</th>	INTELLIGENT KEY SYSTEM
Answers back and warns for an inappropriate operation. Component Function Check 1.CHECK FUNCTION Check Intelligent Key warning buzzer ("OUTSIDE BUZZER") in Active Test restricts to the inspection result normal? YES >> Intelligent Key warning buzzer (engine room) is OK. NO >> Refer to DLK-127, "Diagnosis Procedure". Diagnosis Procedure 1.CHECK FUSE 1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES YES >> Replace the blown fuse after repairing the affected circuit if a fust NO NO >> Replace the blown fuse after repairing the affected circuit if a fust NO YES >> Replace the blown fuse after repairing buzzer connector. 2. CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer (-) Connector Terminal E25 1 Ground Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer in th	
Answers back and warns for an inappropriate operation. Component Function Check 1.CHECK FUNCTION Check Intelligent Key warning buzzer ("OUTSIDE BUZZER") in Active Test rest to is the inspection result normal? YES >> Intelligent Key warning buzzer (engine room) is OK. NO >> Refer to DLK-127, "Diagnosis Procedure". Diagnosis Procedure 1.CHECK FUSE 1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES YES >> Replace the blown fuse after repairing the affected circuit if a fusion >> GO TO 2. 2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connect (+) (-) Connector Terminal E25 1 Ground Is the inspection result normal? YES YES > GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3. 3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 1. Disconnect BCM connector. 2. 2. Check continuity between BCM harness connector and Intelligent Key wa	INFOID:0000000551759
Component Function Check 1.cHECK FUNCTION Check Intelligent Key warning buzzer ("OUTSIDE BUZZER") in Active Test restress to a sthe inspection result normal? YES >> Intelligent Key warning buzzer (engine room) is OK. NO NO >> Refer to DLK-127, "Diagnosis Procedure". Diagnosis Procedure 1.cHECK FUSE 1. Turn ignition switch OFF. 2. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. s fuse fusing? YES >> Replace the blown fuse after repairing the affected circuit if a fus. NO NO >> GO TO 2. 2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connector 2. Check voltage between Intelligent Key warning buzzer pays and the stress connector. 2. Check routin result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3.cHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer power supply of 3.check continuity between BCM harness connector and Intelligent Key warning buzzer [Connector] 3. Check continuity between BCM harness connector an	nn 012.000000000170.
1.CHECK FUNCTION Check Intelligent Key warning buzzer ("OUTSIDE BUZZER") in Active Test rest to seven the inspection result normal? YES >> Intelligent Key warning buzzer (engine room) is OK. NO >> Refer to DLK-127, "Diagnosis Procedure". Diagnosis Procedure 1. CHECK FUSE 1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES >> Replace the blown fuse after repairing the affected circuit if a fus: NO NO >> GO TO 2. 2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connect (+) (-) Connector Terminal E25 1 Ground Is the inspection result normal? YES YES > GO TO 3. NO NO >> Repair or replace Intelligent Key warning buzzer power supply of Steps of CO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of Steps of CO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of Steps of Connector. 1. Disconnect BCM connector.	
Check Intelligent Key warning buzzer ("OUTSIDE BUZZER") in Active Test r Selection result normal? YES >> Intelligent Key warning buzzer (engine room) is OK. NO >> Refer to DLK-127, "Diagnosis Procedure". Diagnosis Procedure 1. CHECK FUSE 1 1. Turn ignition switch OFF. 2. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES >> Replace the blown fuse after repairing the affected circuit if a fusion >> GO TO 2. 2. CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. 1. Disconnect Intelligent Key warning buzzer connector. 2. 2. Check voltage between Intelligent Key warning buzzer harness connect (-) (+) Intelligent Key warning buzzer (-) 2. Check voltage between Intelligent Key warning buzzer power supply of Connector Terminal Ground 2. Ste inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of Connector CRCUIT 3. 3. CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer MIntelligent Key warning buzzer	INFOID:00000000551755
Is the inspection result normal? YES >> Intelligent Key warning buzzer (engine room) is OK. NO >> Refer to DLK-127, "Diagnosis Procedure". Diagnosis Procedure 1. CHECK FUSE 1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES >> Replace the blown fuse after repairing the affected circuit if a fust NO NO >> GO TO 2. 2. CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connect (+) (-) Connector Terminal E25 1 Ground Is the inspection result normal? YES YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3. 3. CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1 1. Disconnect BCM connector. 2 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer Connector 3. Check continuity between BCM harness connector and Intelligent Key warning buzzer M121	
YES >> Intelligent Key warning buzzer (engine room) is OK. NO >> Refer to DLK-127, "Diagnosis Procedure". Diagnosis Procedure 1. CHECK FUSE 1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES >> Replace the blown fuse after repairing the affected circuit if a fust NO NO >> GO TO 2. 2. CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connect (+) Intelligent Key warning buzzer (-) Connector Terminal E25 1 Ground Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3. CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer BCM Intelligent Key warning buzzer M121 64 E25	node.
NO >> Refer to <u>DLK-127, "Diagnosis Procedure"</u> . Diagnosis Procedure 1. CHECK FUSE 1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. <u>is fuse fusing?</u> YES >> Replace the blown fuse after repairing the affected circuit if a fusion of the second connect of the second connect of the second connector. 2. CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connector. 2. Check voltage between Intelligent Key warning buzzer harness connector. 2. Check roltage between Intelligent Key warning buzzer harness connector. 2. Check voltage between Intelligent Key warning buzzer power supply of the inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3. CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer Monector Terminal Connector Terminal Connector Terminal Monector Terminal Moneteeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	
1. CHECK FUSE 1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES >> Replace the blown fuse after repairing the affected circuit if a fusion of the second structure of the second	
1. CHECK FUSE 1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES >> Replace the blown fuse after repairing the affected circuit if a fusion of the second structure of the second	INFOID:0000000551755
1. Turn ignition switch OFF. 2. Check 10 A fuse, [No.6, located in fuse block (J/B)]. Is fuse fusing? YES >> Replace the blown fuse after repairing the affected circuit if a fust NO NO >> GO TO 2. 2. CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. CHECk voltage between Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connect (+) Intelligent Key warning buzzer (-) Connector Terminal E25 1 Ground Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3. ACHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer BCM Intelligent Key warning buzzer M121 64 E25	
 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 fusion >> GO TO 2. CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR Disconnect Intelligent Key warning buzzer connector. Check voltage between Intelligent Key warning buzzer harness connect (-) (-)	
YES >> Replace the blown fuse after repairing the affected circuit if a fusion NO >> GO TO 2. 2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer connector. 2. Connector Terminal E25 1 Ground Ground Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3. CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer MI21 64	
NO >> GO TO 2. 2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connect (+) Intelligent Key warning buzzer (-) Connector E25 1 Ground s the inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3. CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer Mo BCM Intelligent Key warning buzzer M121 64	
2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIR 1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connect (+) Intelligent Key warning buzzer (-) Connector E25 1 Ground Is the inspection result normal? YES YES Second To 3. NO Scheck INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer Mode Scheck Continuity between BCM harness connector and Intelligent Key warning buzzer Mode Scheck Continuity between BCM harness connector and Intelligent Key warning buzzer Mode Scheck Continuity between BCM harness connector and Intelligent Key warning buzzer Mitelligent Key warning buzzer Mitelligent Key warning buzzer	e is blown.
1. Disconnect Intelligent Key warning buzzer connector. 2. Check voltage between Intelligent Key warning buzzer harness connect (+) Intelligent Key warning buzzer (-) Connector E25 1 Ground Intelligent result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply control 3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer BCM Intelligent Key warning buzzer M121 64 E25	CUIT
2. Check voltage between Intelligent Key warning buzzer harness connect (+) Intelligent Key warning buzzer Connector E25 1 Ground Is the inspection result normal? YES YES Second To 3. NO Second To 23. NO Second To 24. Check INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzz BCM Intelligent Key warning buzz Connector Terminal Connector Terminal M121 64 E25	
Intelligent Key warning buzzer (-) Connector Terminal E25 1 Ground Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer BCM Intelligent Key warning buzzer M121 64 E25	or and ground.
Connector Terminal E25 1 Ground s the inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of S.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer BCM Intelligent Key warning buzzer M121 64 E25	
E25 1 Ground s the inspection result normal? YES >> GO TO 3. YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of 3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. 2. Check continuity between BCM harness connector and Intelligent Key warning buzz BCM Intelligent Key warning buzz Connector Terminal M121 64 E25	Voltage (V) (Approx.)
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of a connect Intelligent Key WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer Image: BCM Intelligent Key warning buzzer Image: Connector Terminal Connector Terminal M121 64	
YES >> GO TO 3. NO >> Repair or replace Intelligent Key warning buzzer power supply of S.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. 2. Check continuity between BCM harness connector and Intelligent Key warning buzz BCM Intelligent Key warning buzz Connector Terminal M121 64	Battery voltage
NO >> Repair or replace Intelligent Key warning buzzer power supply of 3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT 1. Disconnect BCM connector. 2. 2. Check continuity between BCM harness connector and Intelligent Key warning buzz BCM Intelligent Key warning buzzer Connector Terminal M121 64 E25	
1. Disconnect BCM connector. 2. Check continuity between BCM harness connector and Intelligent Key warning buzz BCM Intelligent Key warning buzz Connector Terminal M121 64 E25	rcuit.
BCM Intelligent Key warning buzz Connector Terminal Connector Terminal M121 64 E25 E25	
BCMIntelligent Key warning buzzConnectorTerminalConnectorTerrM12164E2555	
ConnectorTerminalConnectorTermM12164E255	arning buzzer harness connector
M121 64 E25	er Continuitu
	inal Continuity
3. Check continuity between BCM harness connector and ground.	Existed
BCM	
Connector Terminal Ground	Continuity
M121 64	Not existed
Is the inspection result normal?	

Check DLK-128, "Component Inspection".

Is the inspection result normal?

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Replace BCM. Refer to <u>BCS-95, "Removal and Installation"</u>.

NO >> Replace Intelligent Key warning buzzer. Refer to <u>DLK-365, "Removal and Installation"</u>.

Component Inspection

INFOID:000000005517593

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 <u>DLK-365, "Removal and Installation"</u>.

INTELLIGENT KEY

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY			٨
Description		INFOID:00000005517594	А
 The following functions are available w Door lock/unlock Back door open (with automatic back Engine start Remote control entry function and panel 	k door system)		B
Component Function Check		INFOID:000000005517595	
1.CHECK FUNCTION			D
Check remote keyless entry receiver ("RKE OPE COUN1") in Data Mo	onitor mode with CONSULT-III.	_
Monitor item	(Condition	E
RKE OPE COUN1	Check that the numerical value is cha	nging while operating on the Intelligent Key.	
<u>Is the inspection result normal?</u> YES >> Intelligent Key is OK. NO >> Refer to <u>DLK-129</u> , "Diagne	osis Procedure".		F
Diagnosis Procedure		INF0ID:00000005517596	G
1.CHECK INTELLIGENT KEY BATTE	ERY		Н
Check by connecting a resistance (ap current value becomes about 10 mA. Standard : Approx. 2.5 - Is the measurement value within the s YES >> Replace Intelligent Key. NO >> Replace Intelligent Key "Component Inspection".	3.0V	F D K LITERIM BATTERY GR XXX 3V	J
_ <u></u> .			DLK
Component Inspection		OCC0607D	L
1. REPLACE INTELLIGENT KEY BA	TTERY		
 Release the lock knob at the back Insert a flat-blade screwdriver (A) slit of the corner and twist it to se lower part. CAUTION: 	wrapped with a cloth into the	ve the mechanical key.	M
 Do not touch the circuit board The key fob is water-resistant immediately wipe it dry. 			0
			Р

3. Replace the battery with new one.

< DTC/CIRCUIT DIAGNOSIS >

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INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

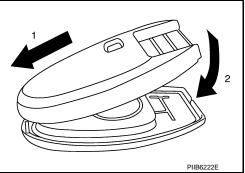
- Align the tips of the upper and lower parts, and then push them together until it is securely closed.
 CAUTION:
 - When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
 - After replacing the battery, check that all Intelligent Key functions work normally.

Is the inspection result normal?

- YES >> Intelligent Key is OK.
- NO >> Check remote keyless entry receiver. Refer to <u>DLK-114</u>, <u>"Component Function Check"</u>.

Special Repair Requirement

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



INFOID:000000005517598

[WITH INTELLIGENT KEY SYSTEM]

Jacorintian					
Description					
Detect whether Intelligent Key i Immobilizer antenna amp chec		insponder.			
Component Function C	heck		INFOID:000000005517600		
1.CHECK FUNCTION					
Check key slot ("KEY SW -SLC	T") in Data Monitor	mode with CONSULT-III.			
Monitor iter	n	Condit	tion		
		Key is inserted in key slot: ON			
KEY SW-SLOT		Key is removed from key slot: OFF			
Is the inspection result normal? YES >> Key slot is OK. NO >> Refer to <u>DLK-131</u> ,		<u>re"</u> .			
Diagnosis Procedure			INFOID:000000005517601		
1.CHECK FUSE					
Is fuse fusing? YES >> Replace the blown NO >> GO TO 2. 2.CHECK KEY SLOT POWEF		the affected circuit if a fuse is	blown.		
		r and ground.			
2. Check voltage between slo		r and ground.			
2. Check voltage between slo	t harness connector		Voltage (V)		
2. Check voltage between slo	t harness connector	r and ground.	Voltage (V) (Approx.)		
2. Check voltage between slo (+) (+) Key sk Connector M99	ot Terminal				
2. Check voltage between slo (+) (+) Key slo Connector M99 Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace k 3.CHECK KEY SLOT GROUN	t harness connector ot Terminal 1 2 tey slot power supply ND CIRCUIT	(-) Ground	(Approx.)		
2. Check voltage between slo (+) Key slo Connector M99 Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace k 3.CHECK KEY SLOT GROUN Check continuity between key s	t harness connector Terminal 1 2 Sey slot power supply ND CIRCUIT slot harness connect	(-) Ground	(Approx.)		
2. Check voltage between slo (+) (+) Key slo Connector M99 Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace k 3.CHECK KEY SLOT GROUN	t harness connector Terminal 1 2 Sey slot power supply ND CIRCUIT slot harness connect	(-) Ground	(Approx.)		
2. Check voltage between slo (+) (+) Key slo Connector M99 Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace k 3.CHECK KEY SLOT GROUN Check continuity between key slo Key slo Key slo Key slo	t harness connector Terminal 1 2 2 2 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	(-) Ground y circuit. tor and ground.	(Approx.) Battery voltage		
2. Check voltage between slo (+) (+) Key slo Connector M99 Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace k 3.CHECK KEY SLOT GROUN Check continuity between key slo Key slo Connector	t harness connector Terminal 1 2 2 2 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	(-) Ground y circuit. tor and ground. Ground	(Approx.) Battery voltage		

< DTC/CIRCUIT DIAGNOSIS >

KEY SLOT

< DTC/CIRCUIT DIAGNOSIS >

BC	M	Ke	Key slot		
Connector	Terminal	Connector	Terminal	Continuity	
M123	121	M99 11		Existed	
Check continuity be	tween BCM harness	connector and grou	nd.		
	ВСМ				
Connector	Termina		Ground	Continuity	
M123				Not existed	
the inspection result n YES >> GO TO 5. NO >> Repair or re O.CHECK KEY SLOT					
Refer to <u>DLK-132, "Com</u>	ponent Inspection".				
s the inspection result n	ormal?				

YES >> GO TO 6.
 NO >> Replace key slot. Refer to <u>DLK-366, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:000000005517602

1.CHECK KEY SLOT

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

Key	y slot	Condition	Continuity	
Ter	minal	Condition		
1	11	Intelligent Key inserted	Existed	
I		Intelligent Key removed	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key slot. Refer to <u>DLK-366, "Removal and Installation"</u>.

KEY SLOT ILLUMINATION

KEY SLOT ILLUMINA	TION				
Description					INFOID:000000005517603
Blinks when Intelligent Key inse	ertion is required	l.			
Component Function C	heck				INFOID:000000005517604
CHECK FUNCTION					
Check key slot illumination ("KE	Y SLOT ILLUM	I") Active Test mod	le.		
s the inspection result normal?					
YES >> Key slot function is					
NO >> Refer to <u>DLK-133</u> ,		edure".			
Diagnosis Procedure					INFOID:000000005517605
1. CHECK FUSE					
 Turn ignition switch OFF. Check 10 A fuse, [No.9, loc 	pated in fuse blo	ck (1/B)]			
s fuse fusing?					
YES >> Replace the blown	fuse after repair	ing the affected cir	cuit if a fuse	is blown.	
NO \rightarrow GO TO 2. 2.CHECK KEY SLOT ILLUMII					
Check voltage between key slo					
		ground.			
(+)		Condition		Key slot	Voltage (V)
Key slot Connector Terminal	()	Condition	' il	lumination	(Approx.)
	0	Intelligent Key in	nserted	OFF	Battery voltage
M99 6	Ground	Intelligent Key re	emoved	ON	0
s the inspection result normal? YES >> GO TO 3. NO >> GO TO 4. CHECK KEY SLOT CIRCUI Disconnect BCM and key s Check continuity between I	T lot connector.	nnector and key sl	lot harness co	onnector.	
BCM		Kev	slot		
	Ferminal	Connector	Termina	al	Continuity
M122	92	M99	6		Existed
 Check continuity between I 	BCM harness co	nnector and groun	id.		
BCM					Continuity
Connector	Terminal		Ground		
M122	92				Not existed
s the inspection result normal?			lation".		

< DTC/CIRCUIT DIAGNOSIS >

KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

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

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

Is the inspection result normal?

YES >> GO TO 5.

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

${f 5.}$ CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key	/ slot		Continuity	
Connector	Connector Terminal		Continuity	
M99	7		Existed	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace key slot ground circuit.

6.CHECK KEY SLOT

Refer to DLK-134, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace key slot. Refer to <u>DLK-366, "Removal and Installation"</u>.

7.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

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-366, "Removal and Installation"</u>.

HORN FUNCTION

[WITH INTELLIGENT KEY SYSTEM]

H	ORN FUNCTI	ON						
De	escription						INFOID:000000005517607	ŀ
Pe	rform answer-back	for each operation	on with horn.					E
Сс	omponent Fund	ction Check					INFOID:000000005517608	L
1.	CHECK FUNCTIO	N						C
1.	Select "HORN" in			ONSULT-II	Ι.			
2.	Check the horn (h	nigh/low) operation	on.					[
-		t item			Des	cription		
	HORN	ON	Horn relay			ON (for 20	ms)	E
Y	the operation norma ES >> Horn func O >> Go to <u>DL</u> t		s Procedure".					
Di	agnosis Proce	dure					INFOID:000000005517609	I
1.	CHECK HORN FU	NCTION						(
Ch	eck horn function w	vith horn switch						
	the horns sound?							
	ES >> GO TO 2. O >> Go to HR	N-2, "Wiring Diac	aram - HORN	_"				
-	CHECK HORN RE			<u> </u>				
1. 2. 3.	Turn ignition switc Perform "ACTIVE Check voltage bet Horn re	TEST" ("HORN' tween horn relay			ground.			
-	Connector	Terminal			Test item		Voltage (V) (Approx.)	
-	E5	1	Ground	HORN	ON		Battery voltage $\rightarrow 0 \rightarrow$ Battery voltage	D
_					Other than	above	Battery voltage	ļ
	the inspection resul							
	ES >> GO TO 4. O >> GO TO 3.							[
-	CHECK HORN RE							
1. 2. 3.	Turn ignition swite Disconnect IPDM Check continuity b	ch OFF. E/R connector a				ay harness	connector.	
-	IF	PDM E/R			Horn relay			(
-	Connector	Termina	l	Connector		Terminal	Continuity	
-	E11	44		E5		1	Existed	
4.	Check continuity b	between driver s	eat control uni	t harness	connector a	and ground		
4. -	Check continuity b	between driver s	eat control uni	t harness	connector a	and ground	Continuity	

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Is the inspection result normal?

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Not existed

HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

>> INSPECTION END

COMBINATION METER DISPLAY FUNCTION < DTC/CIRCUIT DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]	
COMBINATION METER DISPLAY FUNCTION	А
Description INFOID:00000005517610	~
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 <u>DLK-137, "Diagnosis Procedure"</u> .	E
Diagnosis Procedure	
1. CHECK COMBINATION METER	F
Refer to <u>MWI-76, "DTC Index"</u> . <u>Is the inspection result normal?</u>	G
YES >> GO TO 2. NO >> Check combination meter. Refer to <u>MWI-4, "Work flow"</u> .	
2. CHECK INTERMITTENT INCIDENT	Н
Refer to GI-39, "Intermittent Incident".	
>> INSPECTION END	I

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BUZZER (COMBINATION METER)

Description

Performs operation method guide and warning with buzzer.

Component Function Check

1.CHECK FUNCTION

1. Check the operation with "INSIDE BUZZER" in the Active Test.

2. Touch "TAKE OUT", "KNOB" or "KEY" on screen.

Is the inspection result normal?

Yes >> Warning buzzer into combination meter is OK.

No >> Refer to <u>DLK-138</u>, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK METER BUZZER CIRCUIT

Refer to WCS-24, "Component Function Check".

Is the inspection result normal?

Yes >> GO TO 2.

No >> Repair or replace meter buzzer circuit.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

INFOID:000000005517613

INFOID:000000005517614

KEY WARNING LAMP

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS	>	[WITH INTELLIGEN	IT KEY SYSTEM]
KEY WARNING LAM	Ρ		
Description			INFOID:000000005517616
Performs operation method gu	ide and war	rning together with buzzer.	
Component Function C	heck		INFOID:000000005517617
1. CHECK FUNCTION			
Check the operation with "INDI	CATOR" in	"Active Test" mode with CONSULT-III.	
Test item		Condition	
	KEY ON	Key warning lamp illuminates	
INDICATOR	KEY IND	Key warning lamp flashes	
Diagnosis Procedure	MD		INFOID:000000005517618
1.CHECK KEY WARNING LA	MP		
Refer to <u>MWI-4, "Work flow"</u> .			
Is the inspection result normal?	2		
Yes >> GO TO 2.		- La companya da se da	
No >> Repair or replace P 2.CHECK INTERMITTENT IN) lamp circuit.	
Refer to <u>GI-39, "Intermittent Inc</u>	<u>Juent</u> .		
>> INSPECTION END)		
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HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Description

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

Component Function Check

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-140, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-83, "Wiring Diagram - TURN AND HAZARD WARNING LAMPS -" (For xenon type) or EXL-268, "Wiring Diagram - TURN AND HAZARD WARNING LAMPS -" (For halogen type)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace hazard warning switch circuit. Refer to EXL-164, "Symptom Table".

2. CHECK INTERMITTENT INCIDENT

Refer to GI-39. "Intermittent Incident".

>> INSPECTION END

[WITH INTELLIGENT KEY SYSTEM]

INFOID:000000005517619

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AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC BACK DOOR CLOSE SWITCH

Description

Automatic back door system can be operated (only close operation) from back door area by automatic back $_{\rm B}$ door close switch.

Component Function Check

1.CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Automatic back door close switch is OK.

NO >> Refer to DLK-141, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+)	(-) Voltage (V)		
Automatic back of	Automatic back door close switch		Voltage (V) (Approx.)	
Connector	Terminal			
D178			Battery voltage	J

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door close switch connector.

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

Automatic back	door control unit	Automatic back c	loor close switch	Continuity	ļ.
Connector	Terminal	Connector	Terminal	Continuity	
B8	4	D178	1	Existed	N

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

Automatic back	door control unit		Continuity	0
Connector	Terminal	Ground	Continuity	
B8	4		Not existed	Р

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH GROUND CIRCUIT

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

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AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to DLK-142, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door close switch. Refer to <u>DLK-373, "Removal and Installation"</u>.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Check automatic back door close switch.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door close switch. Refer to <u>DLK-373, "Removal and Installation"</u>.

INFOID:000000005517625

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MAIN SWITCH

AUTOMATIC BACK DOOR MAIN SWITCH

Description

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

Component Function Check

< DTC/CIRCUIT DIAGNOSIS >

1.CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Automatic back door main switch is OK.

NO >> Refer to DLK-143, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+)				I
Automatic back door main switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
M110	1	Ground	Battery voltage	J

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH CIRCUIT

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

					M
Automatic back	ack door control unit Automatic back door main switch Continuity				-
Connector	Terminal	Connector	Terminal	Continuity	
B8	17	M110	1	Existed	N

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

Automatic back door control unit connector	Terminal	Ground	Continuity	0	
B8	17		Not existed		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3.}$ CHECK AUTOMATIC BACK DOOR MAIN SWITCH GROUND CIRCUIT

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

DLK-143

[WITH INTELLIGENT KEY SYSTEM]

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AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door main switch			Continuity	
Connector	Terminal	Ground	Continuity	
M110	3		Existed	
4 4 4	10			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Refer to DLK-144, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door main switch. Refer to <u>DLK-372, "Removal and Installation"</u>.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door main switch. Refer to <u>DLK-372, "Removal and Installation"</u>.

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC BACK DOOR SWITCH

Description

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

Component Function Check

1. CHECK FUNCTION

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

Monitor item	Cor	dition		Status
		Pressed		ON
AUTO BD SW	Automatic back door switch	Released		OFF
the inspection result normal?				
ES >> Automatic back do				
	"Diagnosis Procedure".			
iagnosis Procedure				INFOID:0000000055
.CHECK AUTOMATIC BACK	COOR CONTROL UNIT C	UTPUT		
Turn ignition switch OFF. Disconnect automatic bacl Check voltage between au	door switch connector. tomatic back door switch ha	irness connecto	or and ground	l.
(+)				
Automatic back d	oor switch	(—)	Voltage (V) (Approx.)	
				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Connector	Terminal			(
Connector M111 the inspection result normal? YES >> GO TO 3. NO >> GO TO 2.	1	Ground	Ba	attery voltage
M111 the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. .CHECK AUTOMATIC BACP Disconnect automatic back	1 2			attery voltage
M111 the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. .CHECK AUTOMATIC BACP Disconnect automatic back Check continuity between	1 C DOOR SWITCH CIRCUIT door control unit connector automatic back door contro		connector an	attery voltage d automatic back d
M111 the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. .CHECK AUTOMATIC BACP Disconnect automatic back Check continuity between switch harness connector.	1 C DOOR SWITCH CIRCUIT door control unit connector automatic back door contro	: ol unit harness utomatic back door	connector an	attery voltage
M111 the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. .CHECK AUTOMATIC BACH Disconnect automatic back Check continuity between switch harness connector. Automatic back door co	1 2 C DOOR SWITCH CIRCUIT c door control unit connector automatic back door control ontrol unit	: ol unit harness utomatic back door ector	connector an	attery voltage d automatic back d
M111 the inspection result normal' YES >> GO TO 3. NO >> GO TO 2CHECK AUTOMATIC BACH Disconnect automatic back Check continuity between switch harness connector. Automatic back door co Connector	1 2 C DOOR SWITCH CIRCUIT C door control unit connector automatic back door control ontrol unit Automatic 2 2 2	: ol unit harness utomatic back door ector	connector an switch Terminal	attery voltage d automatic back d - Continuity Existed
M111 the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. .CHECK AUTOMATIC BACH Disconnect automatic back Check continuity between switch harness connector. Automatic back door contended B8	1 2 C DOOR SWITCH CIRCUIT C door control unit connector automatic back door control ontrol unit Au Terminal 2 M1 ^o automatic back door control	: ol unit harness utomatic back door ector	connector an switch Terminal	attery voltage d automatic back d - Continuity Existed ground.
M111 the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. .CHECK AUTOMATIC BACH Disconnect automatic back Check continuity between switch harness connector. Automatic back door continuity between service B8 Check continuity between	1 2 C DOOR SWITCH CIRCUIT C door control unit connector automatic back door control ontrol unit Au Terminal 2 M1 ^o automatic back door control	: ol unit harness utomatic back door ector	connector an switch Terminal	attery voltage d automatic back d - Continuity Existed
M111 the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. .CHECK AUTOMATIC BACH Disconnect automatic back Check continuity between switch harness connector. Automatic back door continuity B8 Check continuity between Automatic back door continuity B8 Check continuity between	1 2 C DOOR SWITCH CIRCUIT a door control unit connector automatic back door control ontrol unit Automatic 2 M1 ⁺ automatic back door control por control unit	: ol unit harness utomatic back door ector 11 unit harness c	connector an switch Terminal	attery voltage d automatic back d - Continuity Existed ground.

J.CHECK AUTOMATIC BACK DOOR SWITCH GROUND CIRCUIT

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

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[WITH INTELLIGENT KEY SYSTEM]

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AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic back	door switch		Continuity
Connector	Terminal	Ground	Continuity
M111	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR SWITCH

Refer to DLK-146, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch. Refer to <u>DLK-374, "Removal and Installation"</u>.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1.CHECK AUTOMATIC BACK DOOR SWITCH

Check automatic back door switch.

Terr	minal	Conditio	n	Continuity	
Automatic ba	ck door switch	Condition		Continuity	
1	2	Automatic back door switch	Pressed	Existed	
I	Z	Automatic back door switch	Released	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door switch. Refer to <u>DLK-374, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

OPEN SWITCH

Description

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

Component Function Check

1.CHECK FUNCTION

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

Monitor item		Cond	dition			Status	
	Pack door look		Fully closed/Ha	alf latch		OFF	
OPEN SW	Back door lock		Open			ON	
<u>s the inspection result no</u> YES >> Open switch i NO >> Refer to <u>DLK-</u>		<u>cedure"</u> .					
iagnosis Procedure	е					INFOID:000000005517	
CHECK AUTOMATIC	BACK DOOR CONTF	ROL UNIT	OUTPUT				
 Turn ignition switch C Disconnect back door Check voltage betwee 	r lock assembly conne		ness connecto	r and gro	und.		
	(+)		(-)		N	Voltage (V)	
	or lock assembly				(Approx.)		
Connector	Terminal						
YES >> GO TO 3.	4 rmal?		Ground		Ba	ttery voltage	
s the inspection result no YES >> GO TO 3. NO >> GO TO 2. CHECK OPEN SWITC Disconnect automatic Check continuity betw bly harness connecto	rmal? H CIRCUIT back door control un veen automatic back o r.		or. ol unit harness				
s the inspection result no YES >> GO TO 3. NO >> GO TO 2. 2.CHECK OPEN SWITC . Disconnect automatic 2. Check continuity betw bly harness connecto Automatic back of	rmal? H CIRCUIT back door control un veen automatic back o r.	door contro	or. ol unit harness Back door lock a	assembly	or and ba		
s the inspection result no YES >> GO TO 3. NO >> GO TO 2. CHECK OPEN SWITC Disconnect automatic Check continuity betw bly harness connecto Automatic back of Connector	rmal? H CIRCUIT back door control un veen automatic back o r. door control unit Terminal	door contro	or. ol unit harness Back door lock a nnector	assembly Term	or and ba	ack door lock asser Continuity	
s the inspection result no YES >> GO TO 3. NO >> GO TO 2. CHECK OPEN SWITC Disconnect automatic Check continuity betw bly harness connecto Automatic back of B8	rmal? H CIRCUIT back door control un veen automatic back o r. door control unit Terminal 20	door contro Con	Or. Ol unit harness Back door lock a nnector	assembly Term 4	or and ba	ck door lock asser Continuity Existed	
s the inspection result no YES >> GO TO 3. NO >> GO TO 2. CHECK OPEN SWITC Disconnect automatic Check continuity between bly harness connector Automatic back of Connector B8	rmal? H CIRCUIT back door control un veen automatic back o r. door control unit Terminal 20	door contro Con	Or. Ol unit harness Back door lock a nnector	assembly Term 4	or and ba	ck door lock asser Continuity	
s the inspection result no YES >> GO TO 3. NO >> GO TO 2. CHECK OPEN SWITC Disconnect automatic Check continuity between bly harness connector Automatic back of Connector B8 B8 Check continuity between bly	rmal? H CIRCUIT back door control un veen automatic back o r. door control unit Terminal 20	door contro Con	Or. Ol unit harness Back door lock a nnector	assembly Term 4	or and ba	Continuity Existed Ound.	
s the inspection result no YES >> GO TO 3. NO >> GO TO 2. CHECK OPEN SWITC Disconnect automatic Check continuity betw bly harness connecto Automatic back o Connector B8 B. Check continuity betw	rmal? H CIRCUIT back door control un veen automatic back o r. door control unit Terminal 20 veen automatic back o	door contro Con	Or. Ol unit harness Back door lock a nnector	assembly Term 4 connecto	or and ba	ck door lock asser Continuity	

Check continuity between back door lock assembly connector and ground.

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OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >		[WITH INTE	ELLIGENT KEY SYSTEM]
Back door lock assembly			
Connector	nector Terminal		Continuity
D179	8		Existed
Is the inspection result normal?YES>> GO TO 4.NO>> Repair or replace harm 4. CHECK OPEN SWITCH	ess.		
Refer to DLK-148. "Component InsIs the inspection result normal?YES >> GO TO 5.NO >> Replace back door lock5.CHECK INTERMITTENT INCIDE	k assembly. Refer to <u>DL</u>	.K-353. "DOOR LOCK :	Removal and Installation".
Refer to <u>GI-39, "Intermittent Incider</u> >> INSPECTION END	<u>nt"</u> .		
Component Inspection COMPONENT INSPECTION			INFOID:000000005517637

1.CHECK OPEN SWITCH

Check back door lock assembly (open switch).

Term	Terminal Back door lock assembly (open switch)		Condition	Continuity
Back door lock asse			onation	Continuity
1	Q	Back door lock	Open	Existed
+	0	Dack door lock	Fully closed/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to <u>DLK-353, "DOOR LOCK : Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

CLOSE SWITCH

Description

The close switch is integrated in the door lock assembly, and it detects the close condition of the back door $_{\sf B}$ lock.

Component Function Check

1.CHECK FUNCTION

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

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

Is the inspection result normal?

- YES >> Close switch is OK.
- NO >> Refer to <u>DLK-149</u>, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CLOSE SWITCH CIRCUIT

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

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

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

Automatic back door control unit			Continuity	-
Connector	Terminal	Ground	Continuity	P
B8	19		Not existed	_ 1

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to DLK-370, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK CLOSE SWITCH GROUND CIRCUIT

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

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2010 Murano

CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	Back door lock assembly			Opertionity
С	onnector	Terminal	Ground	Continuity
	D179	8		Existed
Is the inspection	on result normal?			
YES >> GO	O TO 4.			
NO >> Re	epair or replace ha	ness.		
4.CHECK CL	OSE SWITCH			

Refer to <u>DLK-150</u>, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to <u>DLK-353, "DOOR LOCK : Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

COMPONENT INSPECTION

1.CHECK CLOSE SWITCH

Check back door lock assembly (close switch).

Terr	Terminal		Condition	
Back door lock ass	embly (close switch)			Continuity
5	5		Fully closed	Existed
	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-353, "DOOR LOCK : Removal and Installation"</u>.

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

HALF LATCH SWITCH

Description

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

Component Function Check

1.CHECK FUNCTION

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

		Condition		Status
		Fully closed/H	alf latch	OFF
HALF LATCH SW	Back door lock	Open		ON
the inspection result norr	nal?			
ES >> Half latch switc				
	51, "Diagnosis Procedu	<u>ire"</u> .		
iagnosis Procedure				INFOID:000000005
.CHECK AUTOMATIC B	ACK DOOR CONTROL	UNIT OUTPUT		
Turn ignition switch OF				
Disconnect back door l Check voltage betweer			r and ground	
Check vollage between			n and ground.	
(-)	(-)		
Half latc	switch			Voltage (V) (Approx.)
Connector	Terminal			
D (7 0	6	Ground Ba		Battery voltage
D179 the inspection result norr (ES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S		Ground		Dattery voltage
the inspection result norr (ES >> GO TO 3. NO >> GO TO 2.	WITCH CIRCUIT	onnector.	connector.	Dattery Voltage
the inspection result norr YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic b	MITCH CIRCUIT wack door control unit co en automatic back door	onnector.		
the inspection result norr YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic to Check continuity between	MITCH CIRCUIT wack door control unit co en automatic back door	onnector. r control unit harness		Continuity
the inspection result norr YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic to Check continuity between Automatic back door	WITCH CIRCUIT wack door control unit co en automatic back door	onnector. r control unit harness Back door lock	assembly	
the inspection result norr YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic b Check continuity betwee Automatic back door Connector	WITCH CIRCUIT wack door control unit co en automatic back door or control unit Terminal 8	onnector. r control unit harness Back door lock Connector D179	assembly Terminal 6	Continuity Existed
the inspection result norr YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic b Check continuity betwee Automatic back door Connector B8 Check continuity betwee	WITCH CIRCUIT wack door control unit co en automatic back door or control unit Terminal 8	onnector. r control unit harness Back door lock Connector D179	assembly Terminal 6	Continuity Existed ground.
the inspection result norr YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic b Check continuity betwee Automatic back door Connector B8 Check continuity betwee	WITCH CIRCUIT wack door control unit co en automatic back door or control unit Terminal 8 en automatic back door	onnector. r control unit harness Back door lock Connector D179	assembly Terminal 6 connector and	Continuity Existed
the inspection result norr YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic to Check continuity betwee Automatic back door Connector B8 Check continuity betwee Automatic back	WITCH CIRCUIT wack door control unit co en automatic back door or control unit Terminal 8 en automatic back door ck door control unit	onnector. r control unit harness Back door lock Connector D179 r control unit harness	assembly Terminal 6 connector and	Continuity Existed ground.
the inspection result norr YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic b Check continuity betwee Automatic back door Connector B8 Check continuity betwee Automatic back Connector	WITCH CIRCUIT wack door control unit co en automatic back door or control unit Terminal 8 en automatic back door ck door control unit Terminal 8 8	onnector. r control unit harness Back door lock Connector D179 r control unit harness	assembly Terminal 6 connector and	Continuity Existed ground. Continuity
the inspection result norm YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic b Check continuity betwee Automatic back door Connector B8 Check continuity betwee Automatic back door Connector B8 Check continuity betwee Automatic back B8 the inspection result norm YES >> Replace autom	WITCH CIRCUIT wack door control unit co en automatic back door or control unit Terminal 8 en automatic back door ck door control unit Terminal 8 atic back door control u	onnector. r control unit harness Back door lock Connector D179 r control unit harness Grou	assembly Terminal 6 connector and nd	Continuity Existed ground. Continuity Not existed
the inspection result norr YES >> GO TO 3. NO >> GO TO 2. .CHECK HALF LATCH S Disconnect automatic b Check continuity betwee Automatic back door Connector B8 Check continuity betwee Automatic back Connector B8 the inspection result norr	WITCH CIRCUIT Pack door control unit co en automatic back door r control unit Terminal 8 en automatic back door ck door control unit Terminal 8 nal? atic back door control u ce harness.	Dennector. r control unit harness Back door lock Connector D179 r control unit harness Grout unit. Refer to <u>DLK-370</u>	assembly Terminal 6 connector and nd	Continuity Existed ground. Continuity Not existed

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INFOID:000000005517642

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Back door lock	Back door lock assembly		Continuity
Connector	Terminal	Ground	Continuity
D179	8		Existed
the inspection result normal	<u>?</u>		
YES >> GO TO 4.			

NO >> Repair or replace harness.

4.CHECK HALF LATCH SWITCH

Refer to DLK-152, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to <u>DLK-353, "DOOR LOCK : Removal and Installation"</u>.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

COMPONENT INSPECTION

1.CHECK HALF LATCH SWITCH

Check back door lock assembly (half latch switch).

Terminal		Back door lock position	Continuity
Back door lock assembly (h	alf latch switch) connector	Back door lock position	Continuity
6	6 8	Open	Existed
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-353, "DOOR LOCK : Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

TOUCH SENSOR RH

Check continuity being ness connector.	loor control unit Terminal 16 ween automatic back back door control unit Termina	Connector D164 k door control ur	uch sensor RH Terminal 1 nit harness connector Ground	Continuity Existed and ground. Continuity
Check continuity being ness connector.	Terminal 16 ween automatic back	Connector D164	Terminal 1	Existed
Check continuity beiness connector.	Terminal 16	Connector D164	Terminal 1	Existed
Check continuity be ness connector. Automatic back of Connector	Terminal	Connector	Terminal	
Check continuity be ness connector.				Continuity
Check continuity be ness connector.	oor control unit	To	uch sensor RH	0
	ic back door control u		nit harness connecto	r and touch sensor RH har-
NO >> GO TO 2. .CHECK TOUCH SEN	SOR RH CIRCUIT			
YES >> GO TO 3.				
D164 the inspection result n	-		Ground	D
Connector	Term 1		Ground	6
	Fouch sensor RH	inal	(-)	(Approx.)
	(+)			Voltage (V)
Turn ignition switch Disconnect touch se Check voltage betwo		harness conne	ctor and ground.	
CHECK AUTOMATIC		FROL UNIT OUT	ſPUT	
H : Diagnosis Pro	cedure			INFOID:000000005517648
	K-153, "RH : Diagnos	<u>is Procedure"</u> .		
<u>the inspection result n</u> YES >> Touch senso				
		Dete	ct obstruction	ON
TOUCH SEN RH	Touch sensor RH	Othe	r than below	OFF
Monitor item		Conditio	n	Status
heck touch sensor RH	("TOUCH SEN RH")	in Data Monitor	mode.	
CHECK FUNCTION				
H:Component F	unction Check			INFOID:000000005517647
the back door during t				any trapped foreign material
			door and it datacte	
			door and it datacte	NA 012.000000000000000000
H : Description			door and it datacts	INFOID:000000005517646

3. CHECK TOUCH SENSOR RH GROUND CIRCUIT

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< DTC/CIRCUIT DIAGNOSIS >

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR RH

Refer to DLK-154, "RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace touch sensor RH. Refer to DLK-356, "TOUCH SENSOR : Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

RH : Component Inspection

1.CHECK TOUCH SENSOR RH

Check touch sensor RH.

	Terminal Touch sensor RH		Condition	
1	2	Touch sensor RH	Detect obstruction	120 Ω or less
I	2		Other than above	1 kΩ ± 10%

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor RH. Refer to <u>DLK-356, "TOUCH SENSOR : Removal and Installation"</u>. LH

LH : Description

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

LH : Component Function Check

INFOID:000000005517651

1.CHECK FUNCTION

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

Monitor item	C	Status	
TOUCH SEN LH	Touch sensor LH	Other than below	OFF
TOBER SER EN		Detect obstruction	ON

Is the inspection result normal?

YES >> Touch sensor LH is OK.

NO >> Refer to <u>DLK-155, "LH : Diagnosis Procedure"</u>.

[WITH INTELLIGENT KEY SYSTEM]

LH : Diagnosis Proce	edure				INFOID:000000005517652
1. CHECK AUTOMATIC E	ACK DOOR CONTR	ROL UNIT OU	TPUT		
 Turn ignition switch Ol Disconnect touch sens Check voltage betwee 	sor LH connector.	ess connecto	r and grou	nd.	
	(+)				
Touc	h sensor LH		()		Voltage (V) (Approx.)
Connector	Termina	ıl			
D165	1		Grour	nd	6
Is the inspection result nor YES >> GO TO 3. NO >> GO TO 2. 2.CHECK TOUCH SENS					
 Disconnect automatic Check continuity betw ness connector. 	back door control un een automatic back				I touch sensor LH har-
Automatic back do			Touch ser		Continuity
Connector	Terminal	Conne		Terminal	
B8	14	D16	-	1	Existed
 Check continuity betw 	een automatic back	door control u	nit harnes	s connector and	ground.
Automatic ba	ack door control unit				
Connector	Terminal		Grou	und	Continuity
B8	14				Not existed
s the inspection result nor YES >> Replace autor NO >> Repair or repla CHECK TOUCH SENS Check continuity between connector.	natic back door conti ace harness. OR LH GROUND CI	RCUIT			
Automatic back d	oor control unit		Touch sens	sor I H	
Connector	Terminal	Connec		Terminal	- Continuity
B8	15	D165		2	Existed
the inspection result nor YES >> GO TO 4. NO >> Repair or repla CHECK TOUCH SENS	mal? ace harness.				
Refer to <u>DLK-156, "LH : Co</u>		<u>"</u> .			
Is the inspection result nor	mal?				
YES >> GO TO 5. NO >> Replace touch	sensor LH. Refer to	DI K-356 "T	OUCH SE	NSOR · Remova	l and Installation"
5. CHECK INTERMITTEN		<u>DER 000, T</u>			<u>. and motulation</u> .
Refer to <u>GI-39, "Intermitter</u>					
>> INSPECTION	END				

< DTC/CIRCUIT DIAGNOSIS >

< DTC/CIRCUIT DIAGNOSIS >

LH : Component Inspection

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[WITH INTELLIGENT KEY SYSTEM]

1.CHECK TOUCH SENSOR LH

Check touch sensor LH.

	rminal sensor LH	- Cc	ndition	Resistance (Approx.)
1	2	Touch sensor LH	Detect obstruction	120 Ω or less
I	2		Other than above	$1 \text{ k}\Omega \pm 10\%$

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor LH. Refer to <u>DLK-356, "TOUCH SENSOR : Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS > ENCODER

Description

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

Component Function Check

1.CHECK FUNCTION

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

Monitor item		Condition		Status
	De als de an	Moving		Change HI or LO
ENCODER A	Back door	Stop		No change HI or LO
	De als de an	Moving		Change HI or LO
ENCODER B	Back door	Stop		No change HI or LO
he inspection result norr	<u>nal?</u>			
ES >> Encoder is OK O >> Refer to <u>DLK-1</u>	57, "Diagnosis Pro	ocedure".		
agnosis Procedure				INFOID:000000
CHECK ENCODER PO	WER SUPPLY			
Turn ignition switch OF Disconnect automatic I Check voltage betweer	back door unit conr		nnector and grou	nd.
	(+)			
Automatic back	door unit connector	(()	Voltage (V) (Approx.)
Connector	Termina	I		, , , ,
B76	2	Gro	ound	Battery voltage
he inspection result norr ES >> GO TO 3. O >> GO TO 2.	<u>mai?</u> WER SUPPLY CIR			
Disconnect automatic I Check continuity betwo unit harness connector	back door control u een automatic bac	init connector. k door control unit ł		or and automatic bac
Disconnect automatic I Check continuity betwee unit harness connector Automatic back doo	pack door control u een automatic bac r or control unit	init connector. k door control unit k Automatic ba	ack door unit	or and automatic bac
Disconnect automatic I Check continuity betwee unit harness connector Automatic back door Connector	back door control u een automatic bac r or control unit Terminal	init connector. k door control unit k Automatic ba Connector	ack door unit Terminal	Continuity
Disconnect automatic I Check continuity betwee unit harness connector Automatic back doo Connector B8	oack door control u een automatic bac r control unit Terminal 26	Init connector. k door control unit k Automatic ba Connector B76	ack door unit Terminal 2	Continuity Existed
Disconnect automatic I Check continuity betwee unit harness connector Automatic back door Connector	oack door control u een automatic bac r control unit Terminal 26	Init connector. k door control unit k Automatic ba Connector B76	ack door unit Terminal 2	Continuity Existed
Disconnect automatic I Check continuity betwee unit harness connector Automatic back doo Connector B8 Check continuity betwee	oack door control u een automatic bac r control unit Terminal 26	Init connector. k door control unit k Automatic ba Connector B76	ack door unit Terminal 2	Continuity Existed and ground.
Disconnect automatic I Check continuity betwee unit harness connector Automatic back doo Connector B8 Check continuity betwee	back door control u een automatic bac r control unit Terminal 26 een automatic back	Init connector. k door control unit h Automatic ba Connector B76 k door control unit ha	ack door unit Terminal 2	Continuity Existed

YES >> Replace automatic back door control unit. Refer to <u>DLK-370. "Removal and Installation"</u>. NO >> Repair or replace harness. А

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< DTC/CIRCUIT DIAGNOSIS >

3.CHECK ENCODER GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK ENCODER SIGNAL CIRCUIT

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

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

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

Automatic back d	oor control unit		Continuity
Connector	Terminal	Ground	Continuity
B8	24	Ground	Not existed
Во	25		Not existed

Is the inspection result normal?

YES >> Replace automatic back door unit. Refer to <u>DLK-354, "POWER BACK DOOR DRIVE ASSEMBLY</u> : <u>Removal and Installation</u>".

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS > CLUTCH

Description

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

Diagnosis Procedure

1. CHECK CLUTCH OUTPUT SIGNAL CIRCUIT

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

					E
Automatic back	door control unit	Automatic bac	ck door unit	Continuity	-
Connector	Terminal	Connector	Terminal	Continuity	
B7	32	B76	9	Existed	F
Bi	33	070	3	Existed	_

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

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK CLUTCH

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

(+)					
Automatic back de	oor control unit	(-)	Cor	dition	Voltage (V) (Approx.)
Connector	Terminal				(, ++, -, -,)
	32				0
Β7	33	Ground	Automatic back door	Active	(V) 15 10 5 0
				Other than above	0

Is the inspection result normal?

YES >> Clutch is OK.

NO >> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

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AUTOMATIC BACK DOOR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC BACK DOOR MOTOR

Description

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

Diagnosis Procedure

INFOID:000000005517660

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1. CHECK AUTOMATIC BACK DOOR MOTOR CIRCUIT

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

Automatic back of	Automatic back door control unit		Automatic back door unit	
Connector	Terminal	Connector	Terminal	Continuity
B7	27	B76	7	Existed
DI	29	670	8	Existed

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

Automatic back d	oor control unit		Continuity
Connector	Terminal	Ground	Continuity
B7	27	Giouria	Not existed
DI	29		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

1. Connect automatic back door control unit connector and automatic back door motor connector.

2. Check voltage between automatic back door unit and ground.

AUTOMATIC BACK DOOR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Term	ninals				
(+)			Co	ondition	Voltage (V)
Automatic back door control unit connector	Terminal	()			(Approx.)
				Active (open)	Battery voltage
	7	Ground	Automatic back door	Active (close)	(V) 15 10 5 0 10 5 0 10 5 0 10 10 10 10 10 10 10 10 10
B76				Other than above	0
670				Active (close)	Battery voltage
	8	Ground	Automatic back door	Active (open)	(V) 15 10 5 0
				Other than above	
					0

Is the inspection result normal?

YES >> Replace automatic back door unit. Refer to <u>DLK-354, "POWER BACK DOOR DRIVE ASSEMBLY</u> <u>: Removal and Installation"</u>.

NO >> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR CLOSURE MOTOR

Description

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

Diagnosis Procedure

INFOID:000000005517662

INFOID:000000005517661

1. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

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

Automatic back of	loor control unit	Back door loc	k assembly	Continuity
Connector	Terminal	Connector	Terminal	- Continuity
	11		1	Not existed
B8	11		2	Existed
Bõ	40	D179	1	Existed
	12		2	Not existed

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

Automatic back d	oor control unit		Continuity
Connector	Terminal	Ground	Continuity
B8	11	Ground	Not existed
Do	12		NOI EXISIEU

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.check back door closure motor circuit

1. Connect automatic back door control unit connector and back door lock assembly connector.

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

-) Automatic back	-) door control unit	()	Conc	lition	Voltage (V) (Approx.)
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	11			Close operation	Battery voltage
B8	D0		Back door closure	Other than above	0
Do	10	Ground	Back door closure	Open operation	Battery voltage
	12			Other than above	0

Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to <u>DLK-353, "DOOR LOCK : Removal and Installation"</u>.

NO >> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
AUTOMATIC BACK DOOR WARNING BUZZE	R

Performs operation method guide and warning with buzzer. Performs operation method guide and warning with buzzer. Performs operation method guide and warning with buzzer. Performs Procedure Performs Procedure Performs Procedure Performs Procedure Performs with OFF. Performs and provide a door warning buzzer connector. Performs with OFF. Performs and the back door warning buzzer connector. Performs with outge between automatic back door warning buzzer harness connector and ground. Performs performs performance back door warning buzzer harness connector and ground. Performs performs performed by the performance back door control unit a ground battery voltage Performs back door control unit Automatic back door warning buzzer harness connector and automatic back door warning buzzer harness connector. Performs back door control unit Automatic back door warning buzzer harness connector and ground. Performs back door control unit Automatic back door warning buzzer harness connector and ground. Performs back door control unit Automatic back door warning buzzer harness connector. Patients back door control unit Automatic back door warning buzzer harness connector. Patients back door control unit Automatic back door warning buzzer harness connector and ground. Performs to text door control unit Automatic back door warning buzzer harness connector and ground. Performs to text door control unit Automatic back door warning buzzer harness connector and ground. Performs to text door control unit Automatic back door warning buzzer harness connector and ground. Performs to text door control unit Automatic back door warning buzzer harness connector and ground. Performs to text door control unit Automatic back door warning buzzer harness connector and ground. Performs to text door control unit Automatic back door warning buzzer harness connector and ground. Performs to text door control unit Automatic back door warning buzzer harness connector and ground. Performs to text door warning buzzer. Performs to text door warning buzzer					
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Turn ignition switch OFF. Disconnect automatic back door warning buzzer connector. Check voltage between automatic back door warning buzzer harness connector and ground. (+) Voltage (V) (Approx.) Connector Terminal B27 1 Ground B27 2 Exited NO >> Repair or replace harness. CHECK AUTOMATIC BACK DOOR WARNING BUZZER OUTPUT SIGNAL CIRCUIT Disconnect automatic back door control unit connector. Check continuity between automatic back door control unit harness connector and automatic back door warning buzzer harness connector. Automatic back door control unit Automatic back door control unit B8 1 B27 2 Existed Existed Existed<	.CHECK AUTOMATIC B	ACK DOOR WARNI	NG BUZZER POWE	R SUPPLY CIRCU	IT
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YES >> GO TO 2. NO >> Repair or replace harness. .CHECK AUTOMATIC BACK DOOR WARNING BUZZER OUTPUT SIGNAL CIRCUIT . Disconnect automatic back door control unit connector. . Check continuity between automatic back door control unit harness connector and automatic back door warning buzzer harness connector. <u>Automatic back door control unit</u> <u>B8</u> 1 B27 2 <u>Connector</u> Terminal Continuity <u>B8</u> 1 B27 2 <u>Automatic back door control unit</u> <u>Continuity</u> <u>B8</u> 1 B27 2 <u>Automatic back door control unit</u> <u>Continuity</u> <u>B8</u> 1 B27 2 <u>Automatic back door control unit</u> <u>Continuity</u> <u>B8</u> 1 Not existed <u>B8</u> 1 Not existed <u>B8</u> 1 Not existed Sthe inspection result normal? YES >> Replace automatic back door warning buzzer. Refer to <u>DLK-371, "Removal and Installation"</u> .	B27	1	0	Ground	Battery voltage
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Automatic back door control unit Ground Connector Terminal Ground B8 1 Not existed the inspection result normal? YES >> Replace automatic back door warning buzzer. Refer to DLK-371, "Removal and Installation".	Connector	Terminal	Connector	_	Continuity
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Connector Terminal Ground B8 1 Not existed the inspection result normal? YES >> Replace automatic back door warning buzzer. Refer to DLK-371, "Removal and Installation".	B8	1	B27	Terminal 2	Existed
the inspection result normal? YES >> Replace automatic back door warning buzzer. Refer to <u>DLK-371, "Removal and Installation"</u> .	B8 Check continuity betwe	1 een automatic back o	B27	Terminal 2	Existed ground.
YES >> Replace automatic back door warning buzzer. Refer to <u>DLK-371, "Removal and Installation"</u> .	B8 Check continuity betwee Automatic be	1 een automatic back o ack door control unit	B27 door control unit harr	Terminal 2 ness connector and	Existed ground.
	B8 Check continuity betwee Automatic ba Connector	1 een automatic back o ack door control unit Termina	B27 door control unit harr	Terminal 2 ness connector and	Existed ground. Continuity
	B8 Check continuity betwee Automatic ba Connector B8 the inspection result norm	1 een automatic back o ack door control unit Termina 1 mal?	B27 door control unit harr	Ground	Existed ground. Continuity Not existed
	B8 Check continuity betwee Automatic ba Connector B8 the inspection result norr YES >> Replace autom	1 een automatic back o ack door control unit Termina 1 mal? natic back door warn	B27 door control unit harr	Ground	Existed ground. Continuity Not existed
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	B8 Check continuity betwee Automatic ba Connector B8 the inspection result norr YES >> Replace autom	1 een automatic back o ack door control unit Termina 1 mal? natic back door warn	B27 door control unit harr	Ground	Existed ground. Continuity Not existed
	B8 Check continuity betwee Automatic ba Connector B8 the inspection result norr YES >> Replace autom	1 een automatic back o ack door control unit Termina 1 mal? natic back door warn	B27 door control unit harr	Ground	Existed ground. Continuity Not existed
	B8 Check continuity betwee Automatic ba Connector B8 the inspection result norr YES >> Replace autom	1 een automatic back o ack door control unit Termina 1 mal? natic back door warn	B27 door control unit harr	Ground	Existed ground. Continuity Not existed
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	B8 Check continuity betwee Automatic ba Connector B8 the inspection result norr YES >> Replace autom	1 een automatic back o ack door control unit Termina 1 mal? natic back door warn	B27 door control unit harr	Ground	Existed ground. Continuity Not existed

AUTOMATIC BACK DOOR WARNING BUZZER

GROUND CIRCUIT

AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : Component Function Check

INFOID:000000005517665

INFOID:000000005517666

1.CHECK FUNCTION

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

Monitor item	Condition	Status
DESTINATION	<u> </u>	NAM
HAZARD		ON

Is the inspection result normal?

YES >> Automatic back door ground circuit is OK.

NO >> Refer to DLK-164, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure".

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

1.CHECK GROUND CIRCUIT

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

Automatic back door control unit			Continuity
Connector	Terminal	Ground	Continuity
B8	21		Existed
	22		

Does continuity exist?

YES >> Replace automatic back door control unit. Refer to <u>DLK-370, "Removal and Installation"</u>.

NO >> Repair or replace harness.

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS > INTEGRATED HOMELINK TRANSMITTER

NIEGRAIED HOME				
Description				INFOID:00000005517667
ntegrated Homelink Transmitt Allows operation of garage do ntegrated Homelink Transmit gram in case battery is discha	ors, gates, hom ter power suppl	e and office ly uses vehi	lighting, entry door locks	and security system, etc.
Component Function C	Check			INFOID:000000005517668
.CHECK FUNCTION				
Check that system receiver (g	arage door oper	ner, etc.) ope	erates with original hand-	held transmitter.
s the inspection result normal	?			
YES >> GO TO 2. NO >> Receiver or hand-	held transmitter	is malfuncti	oning	
2.CHECK ILLUMINATE			oning.	
. Turn ignition switch OFF.				
Does red light of transmitt		en any trans	mitter button is pressed?)
s the inspection result normal	?			
YES >> GO TO 3. NO >> Refer to <u>DLK-165</u>	"Diagnosis Pro	cedure"		
B. CHECK TRANSMITTER				
Check transmitter with Tool*.				
:For details, refer to Technica	I Service Bulleti	n.		
s the inspection result normal				
YES >> Receiver or hand- NO >> Replace auto an				ceiver). Refer to MIR-70,
			-93, "Removal and Install	
Diagnosis Procedure				INFOID:000000005517669
 Turn ignition switch OFF. Disconnect auto anti-dazz 	lina inside mirra	or (homelink	universal transceiver) co	nnector.
Check voltage between au				insceiver) harness connec-
tor and ground.				
Auto anti-dazzling inside mirror			Voltage (V)	
	ersal transceiver)		Condition	(Approx.)
	Termi	inal		
Connector			Ignition switch position:	.
	10		OFF	
R9	6	Ground	OFF Ignition switch position:	Battery voltage

- 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

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Auto anti-dazzling inside mirror (Homelink universal transceiver)			Continuity
Connector	Terminal	Ground	
R9	8	†	Existed
Is the inspection result normal?			

YES >> GO TO 3.

NO >> Repair harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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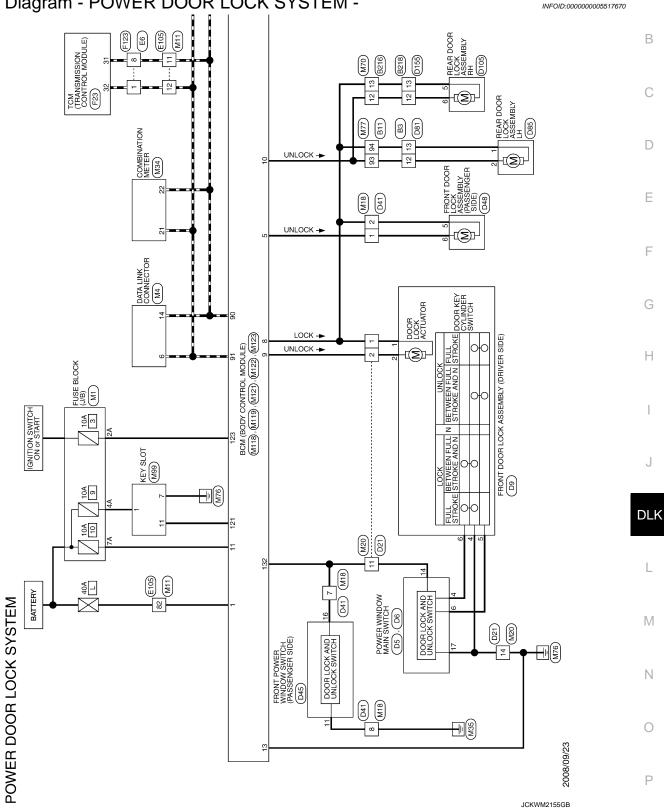
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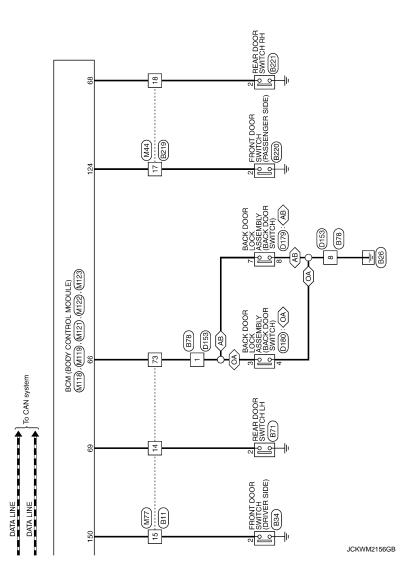
POWER DOOR LOCK SYSTEM

Wiring Diagram - POWER DOOR LOCK SYSTEM -



Revision: 2009 September

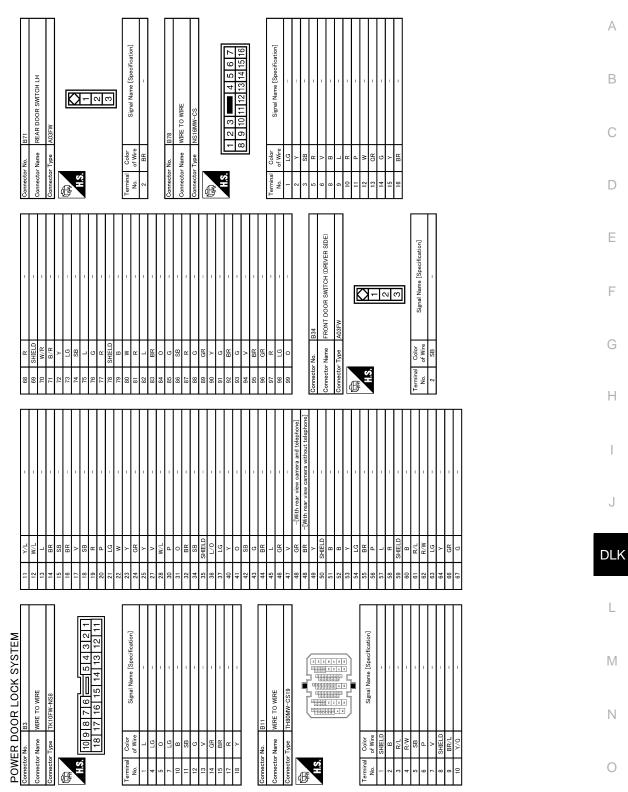
AB : With automatic back door OA : Without automatic back door



POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]



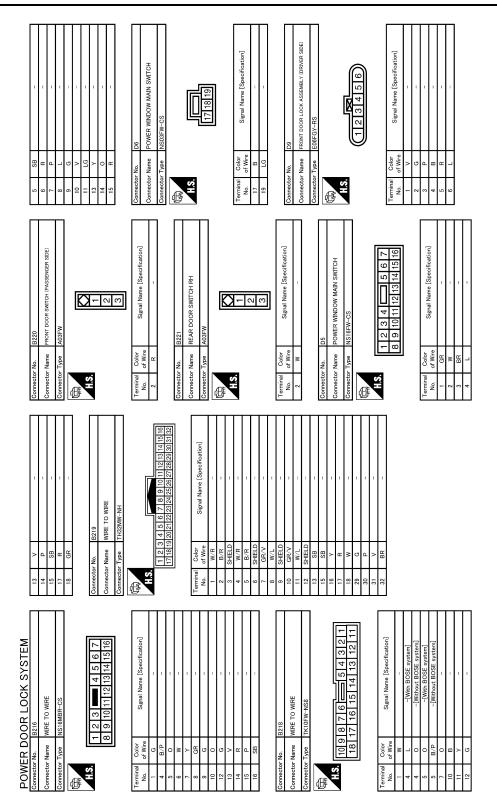
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< DTC/CIRCUIT DIAGNOSIS >

POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

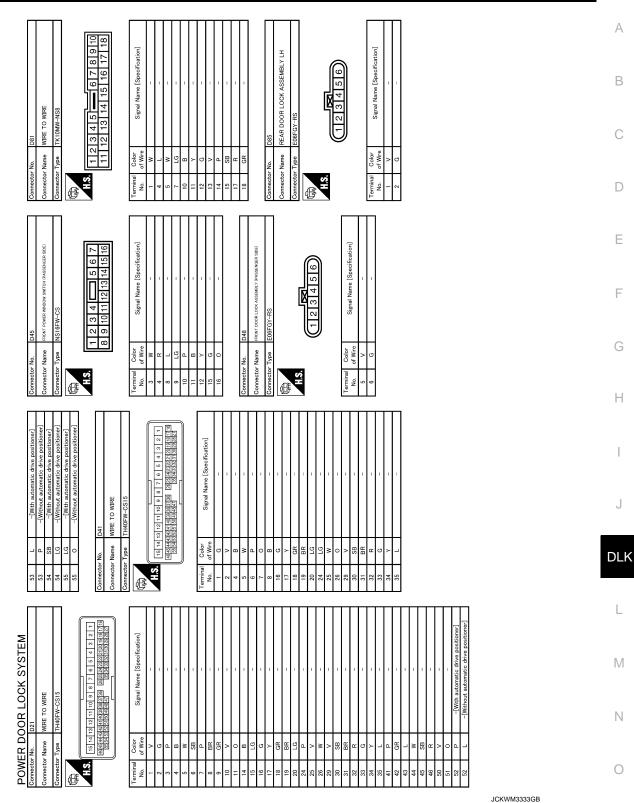


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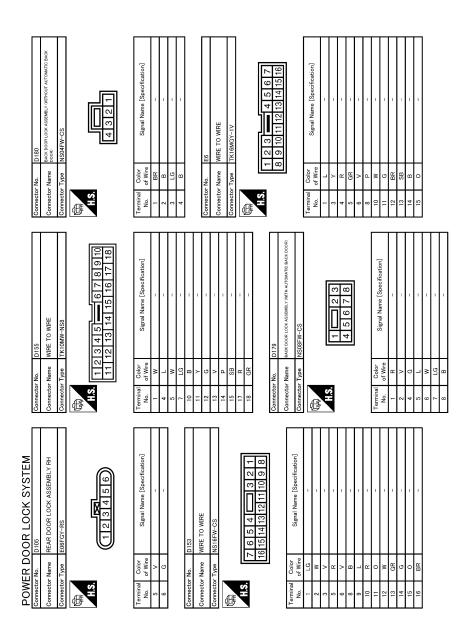
POWER DOOR LOCK SYSTEM

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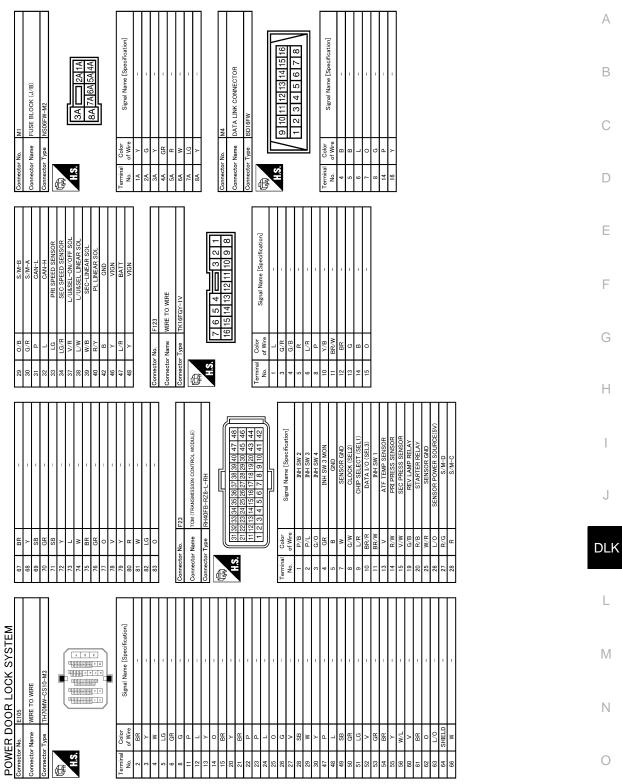
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POWER DOOR LOCK SYSTEM

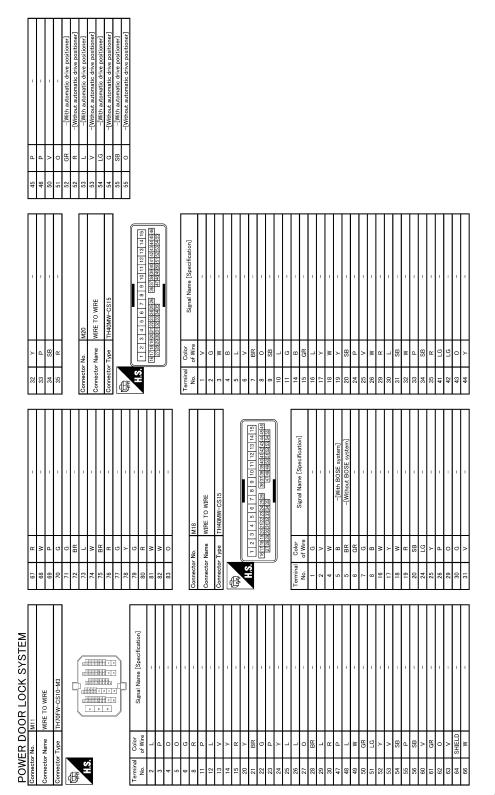
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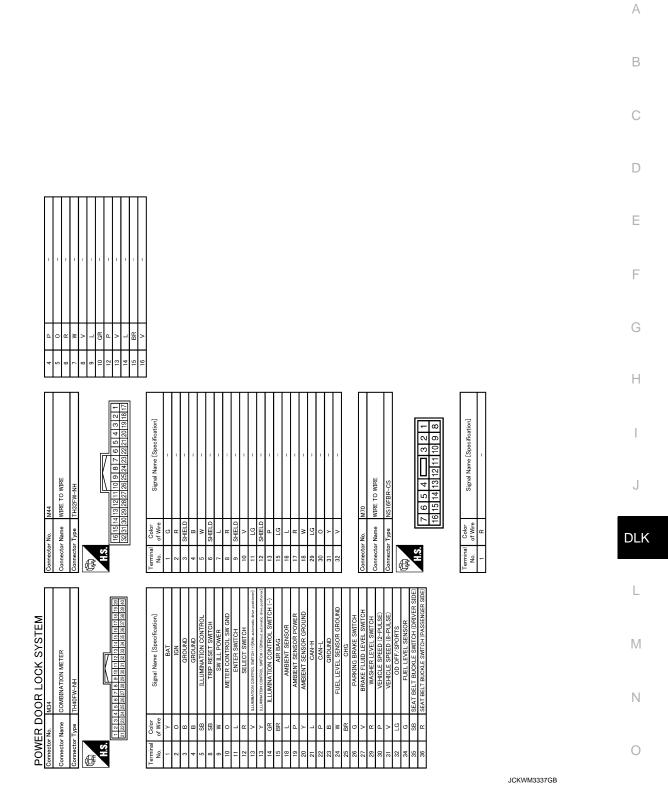
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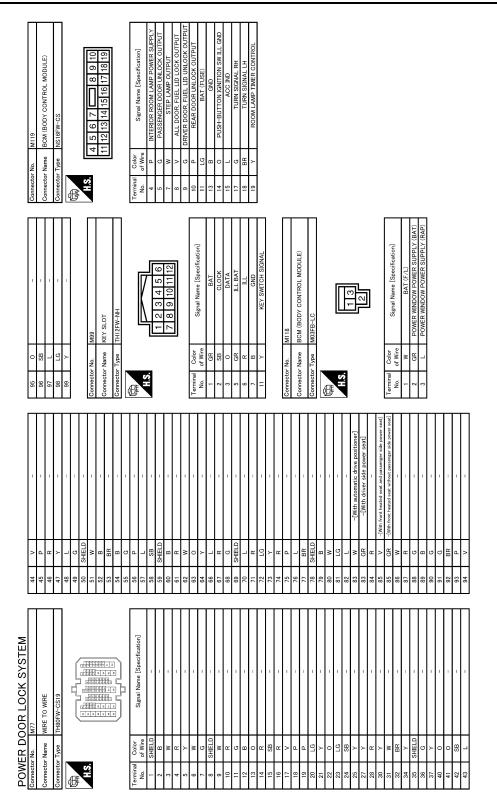
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POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >



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TIPUT 5 TIPUT 2 TIPUT 3 TIPUT 4 NE OFFICK SW 300GER RELAY	E
COMBI SW OUTPUT 5 COMBI SW OUTPUT 1 COMBI SW OUTPUT 3 COMBI SW OUTPUT 3 COMBI SW OUTPUT 4 THE PRESS WAUNT 4 FIRE PRESS WAUNT 4 FIRE PRESS WAUND 4 FIRE AT WINDOW DEFORCER RELAY	F
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POWER DOOR LOCK SYSTEM

BCM (BODY CONTROL MODULE)

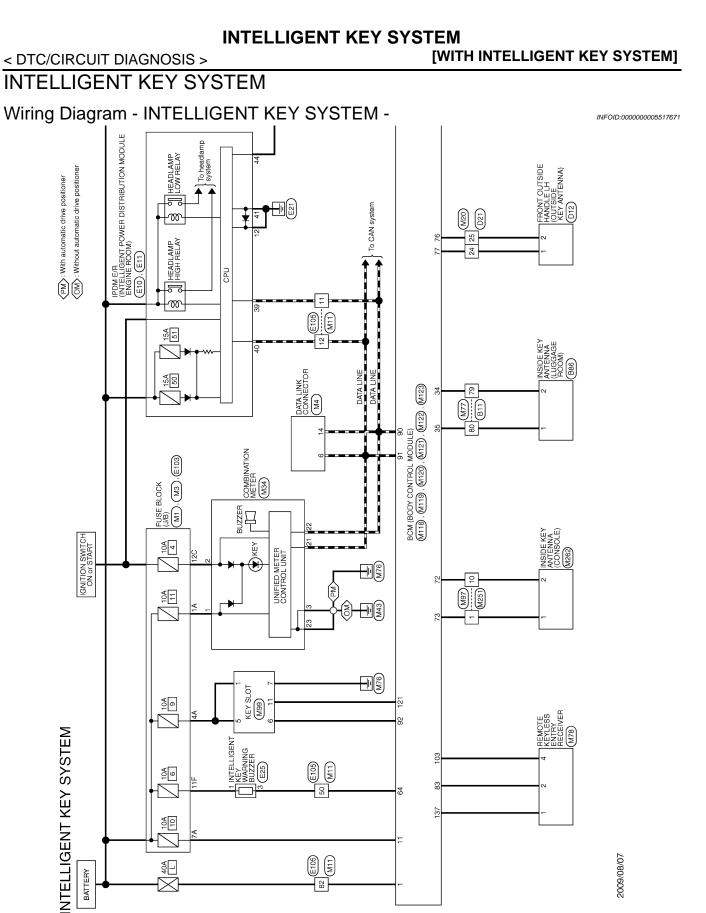
nector Name

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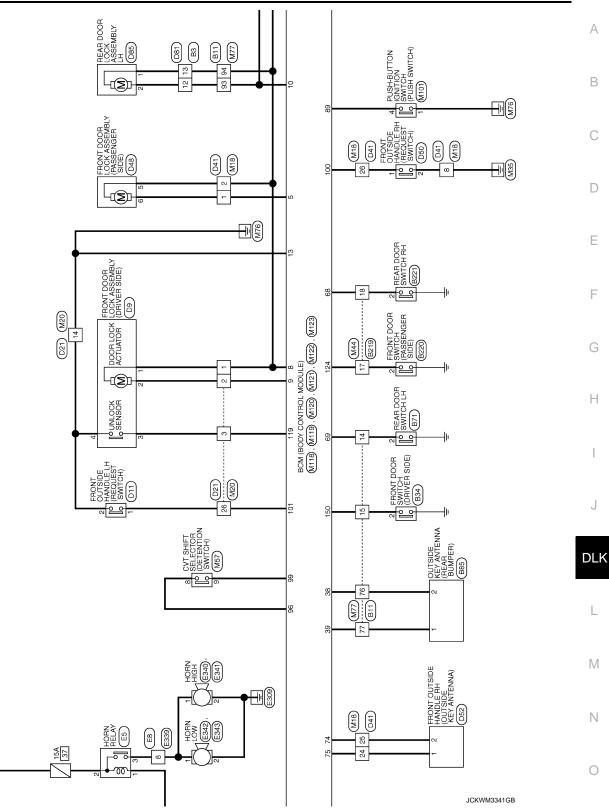
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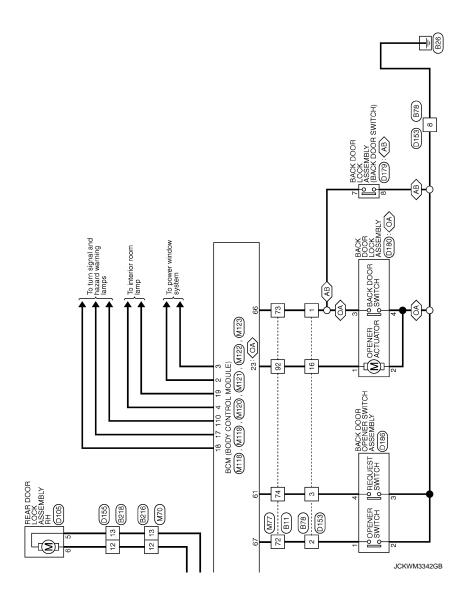
INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]



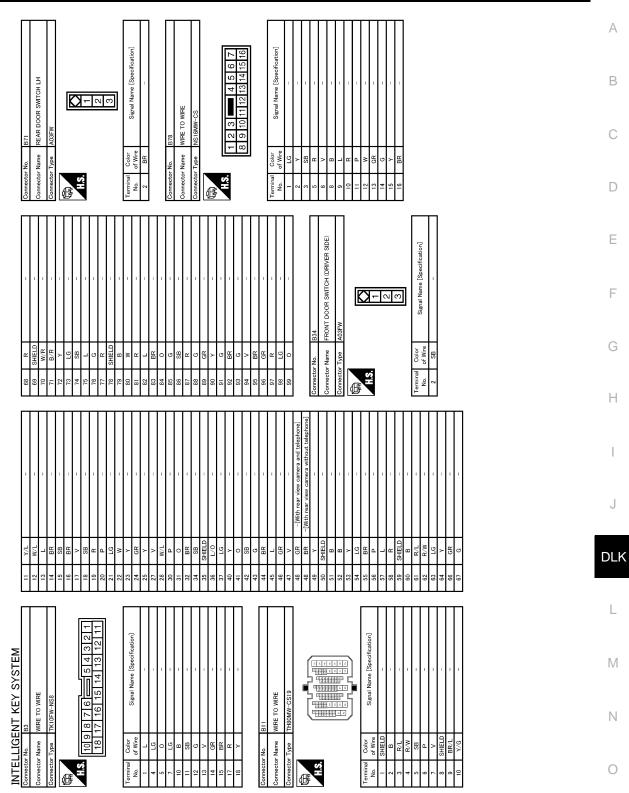
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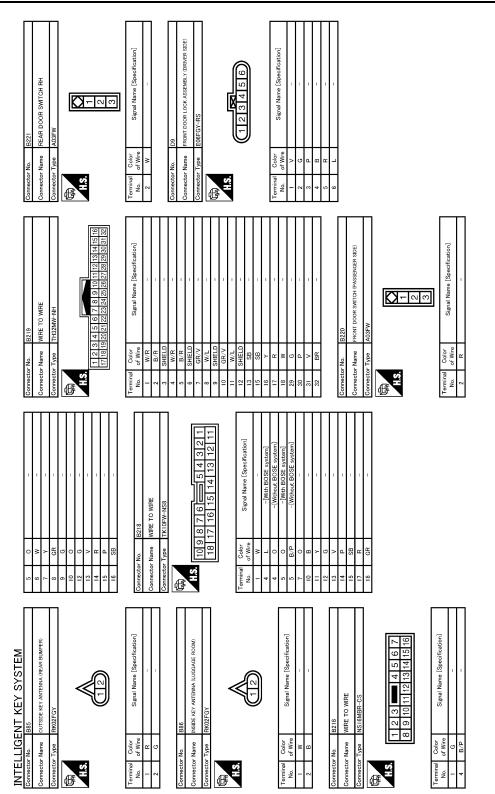
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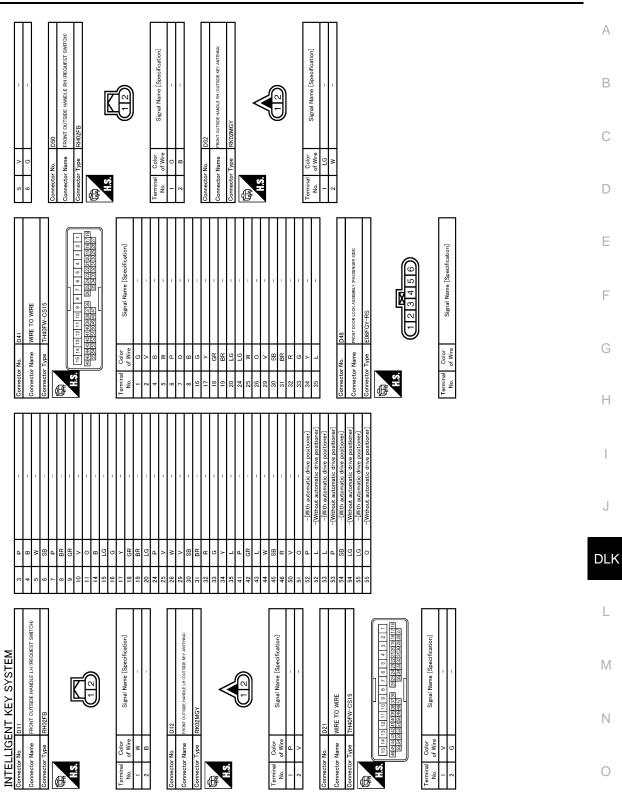
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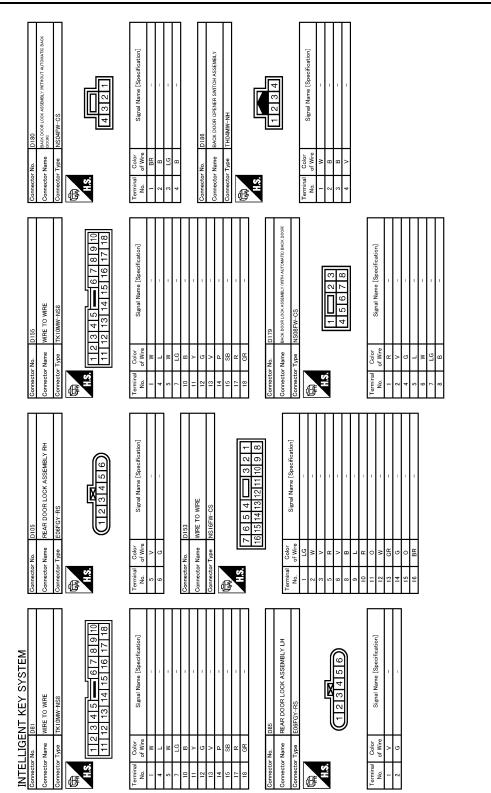
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[WITH INTELLIGENT KEY SYSTEM]

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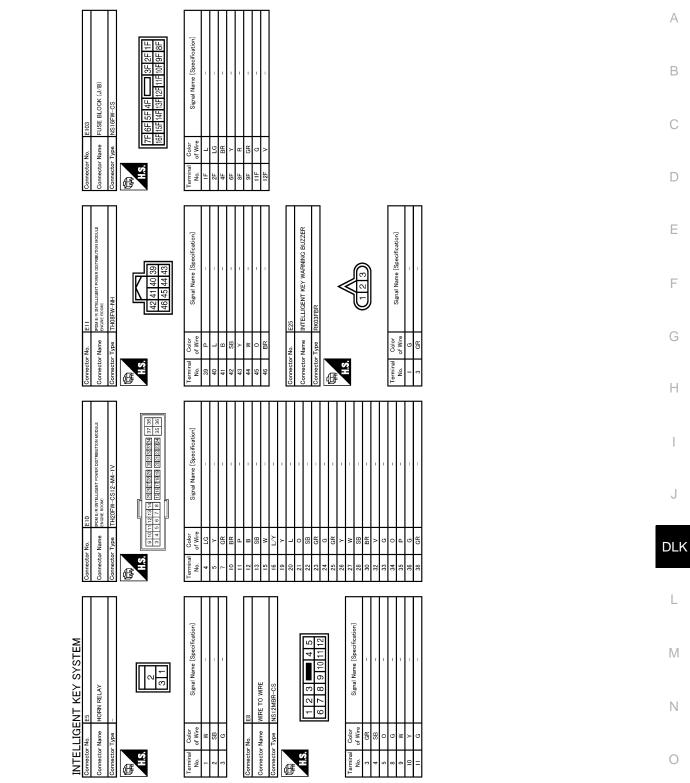


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INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM

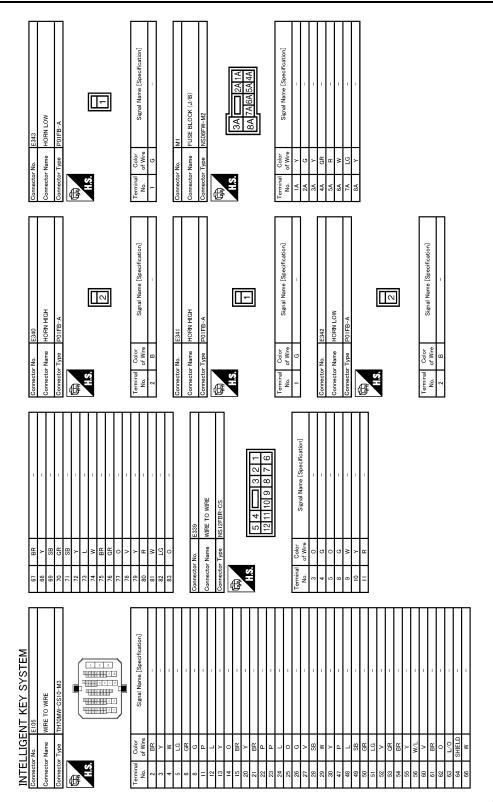
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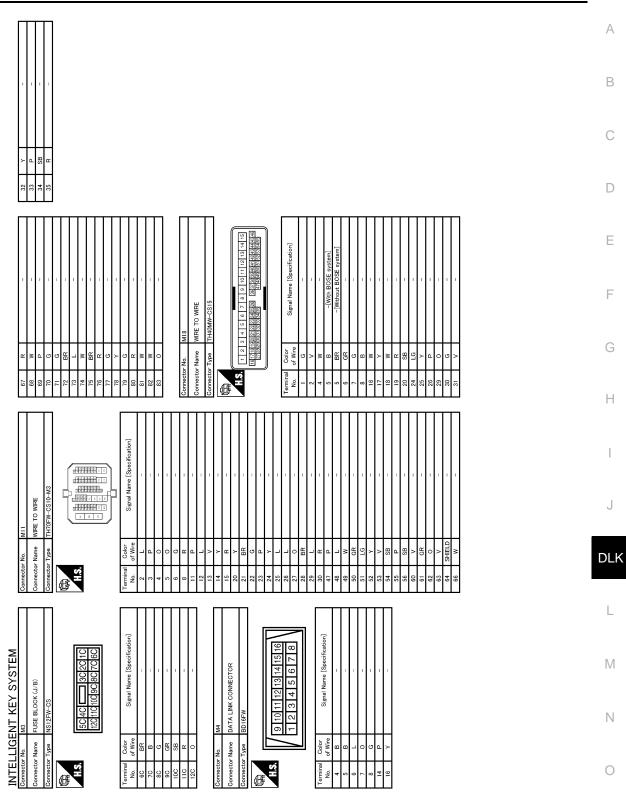
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[WITH INTELLIGENT KEY SYSTEM]



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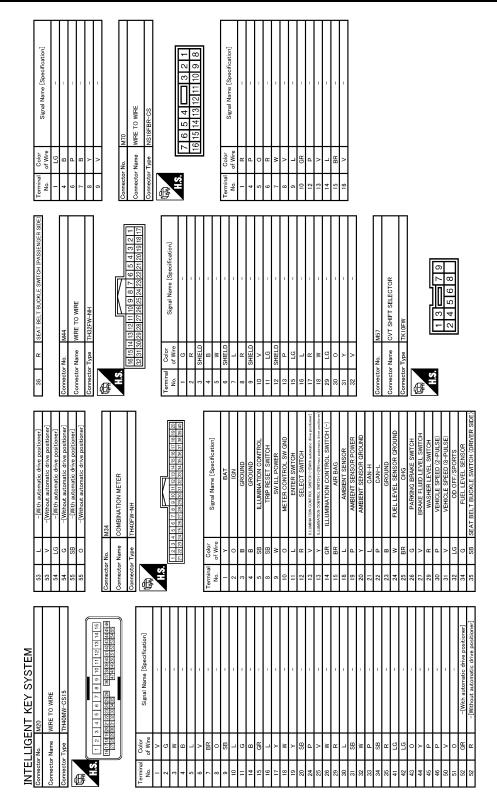


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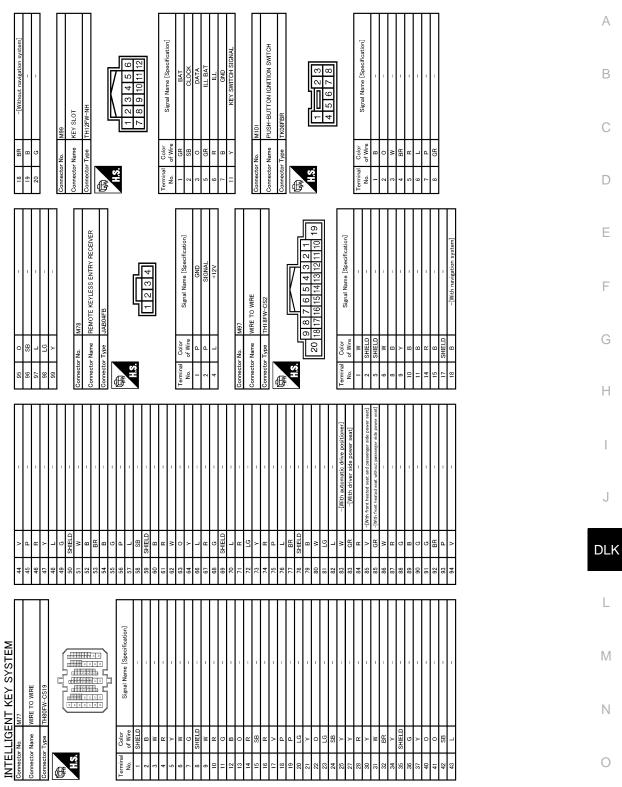
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< DTC/CIRCUIT DIAGNOSIS >

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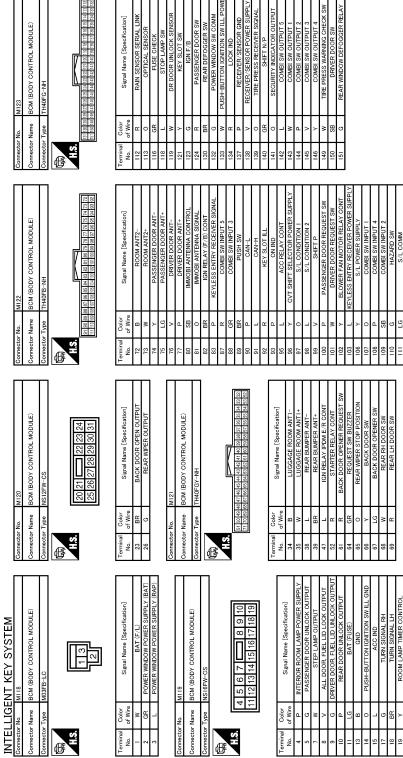
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< DTC/CIRCUIT DIAGNOSIS >

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В С D Е F G Н J DLK L Signal Name [Specification] Signal Name [Specification] INSIDE KEY ANTENNA (CONSOLE) Μ Ν M262 Color of Wire Color of Wire stor No. 19 nector Name H.S. H.S. rminal No. Ο

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INTELLIGENT KEY SYSTEM

WIRE TO WIRE

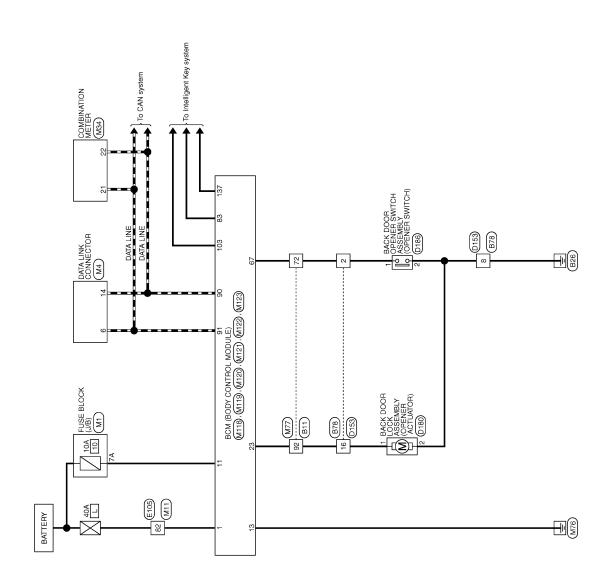
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BACK DOOR OPENER SYSTEM

Wiring Diagram - BACK DOOR OPENER -

INFOID:000000005517672



BACK DOOR OPENER

2009/08/07

BACK DOOR OPENER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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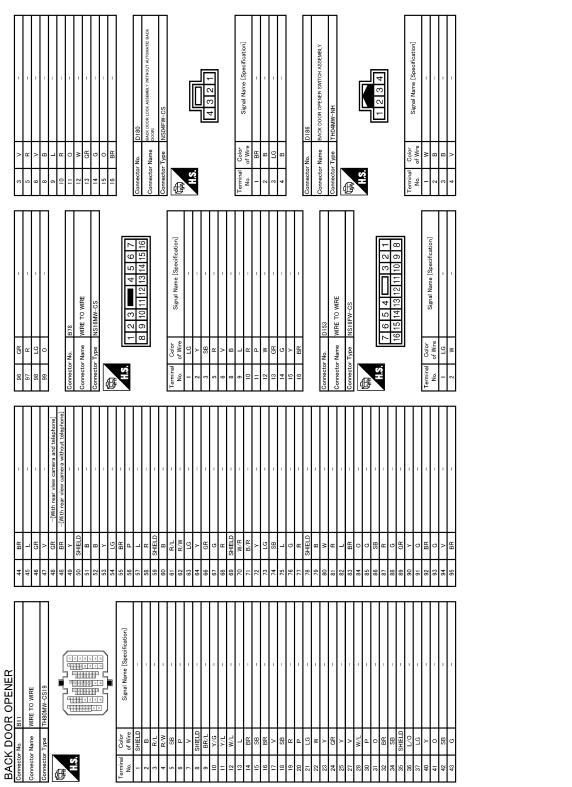
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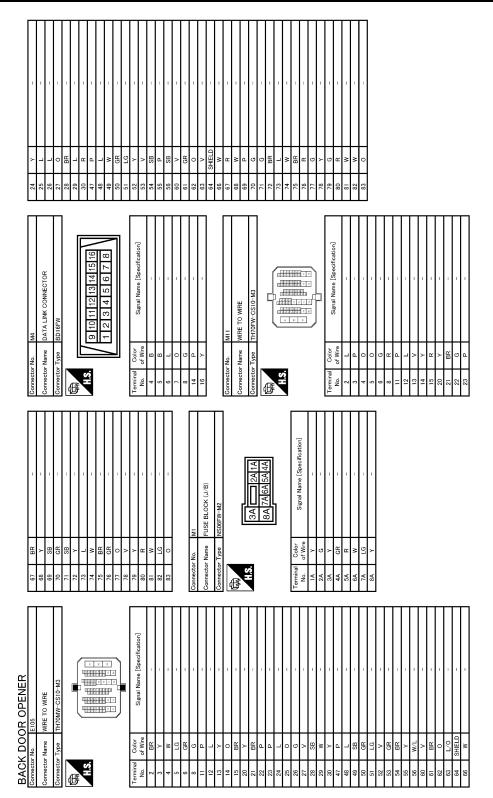
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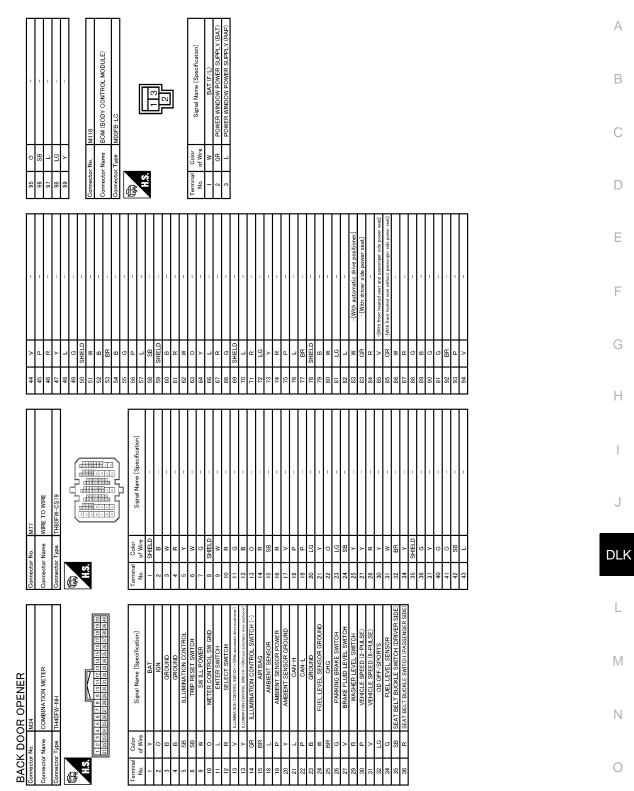


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BACK DOOR OPENER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

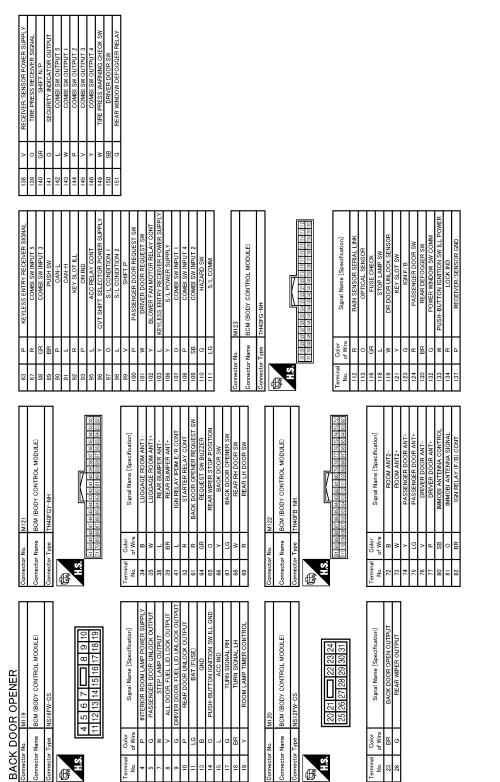
[WITH INTELLIGENT KEY SYSTEM]



JCKWM3365GB

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BACK DOOR OPEN	IER SYSTEM
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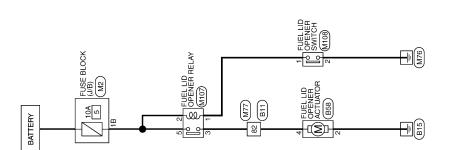


JCKWM3366GB



FUEL FILLER LID OPENER

Wiring Diagram - FUEL LID OPENER -



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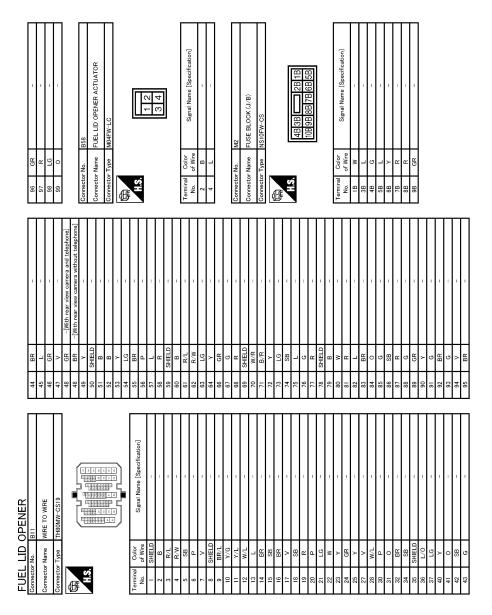
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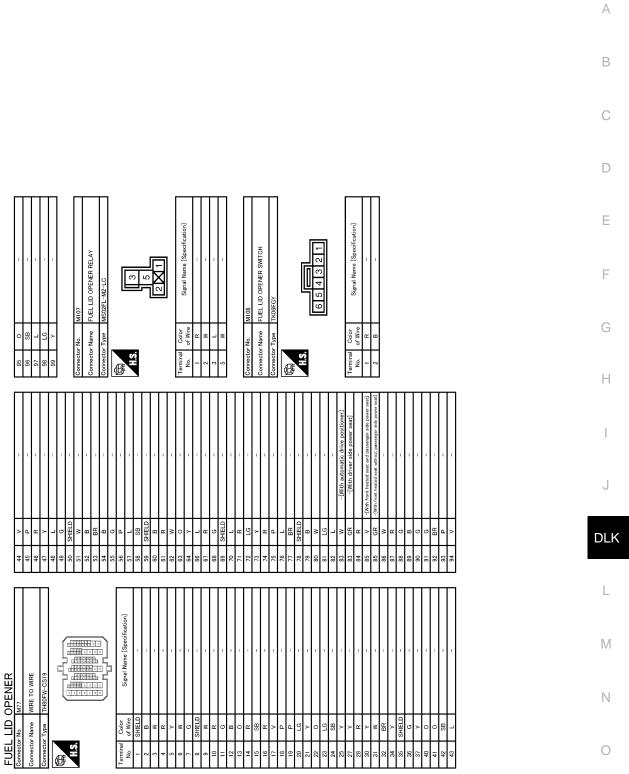


JCKWM2206GB

2008/09/23



JCKWM3368GB



JCKWM3369GB

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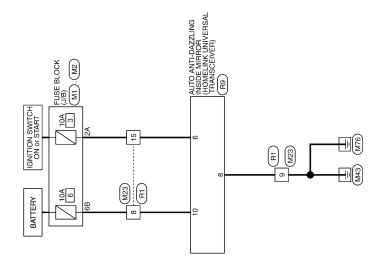
INTEGRATED HOMELINK TRANSMITTER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM - INFOLD:00000005517674

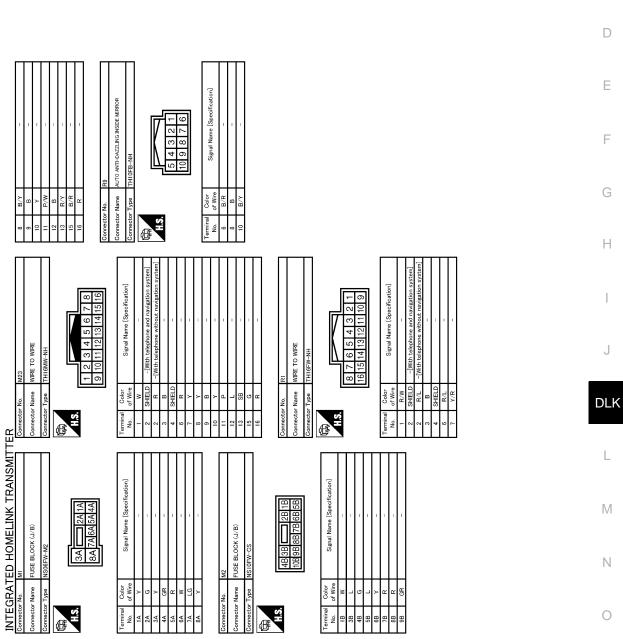


INTEGRATED HOMELINK TRANSMITTER

2008/09/23

JCKWM2204GB

INTEGRATED HOMELINK TRANSMITTER SYSTEM < DTC/CIRCUIT DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]



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[WITH INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005683340

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
	Other than front wiper switch INT/AUTO	Off
FR WIPER INT	Front wiper switch INT/AUTO	On
	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
	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
KK WASHER SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
TURIN SIGNAL R	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Other than front wiper switch HI Front wiper switch HI Other than front wiper switch LO Front wiper switch LO Front washer switch OFF Front washer switch ON Other than front wiper switch INT/AUTO Front wiper switch INT/AUTO Front wiper switch INT/AUTO Front wiper switch INT/AUTO Front wiper is not in STOP position Front wiper is in STOP position Viper intermittent dial is in a dial position 1 - 7 Other than rear wiper switch ON Rear wiper switch ON Other than rear wiper switch INT Rear wiper switch ON Rear wiper switch ON Rear wiper switch ON Rear wiper switch ON Rear wiper switch OFF Rear washer switch ON Rear wiper is not in STOP position Other than turn signal switch RH Turn signal switch LH Turn signal switch LH	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
	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
	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
	Passenger door closed	Off
OOR SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
OOR SW-RR	Rear RH door opened	On
OOR SW-RL	Rear LH door closed	Off
JUR SW-RL	Rear LH door opened	On
OOR SW-BK	Back door closed	Off
OUR SW-BR	Back door opened	On
	Other than power door lock switch LOCK	Off
DL LOCK SW	Power door lock switch LOCK	On
DL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
	Other than driver door key cylinder LOCK position	Off
EY CYL LK-SW	Driver door key cylinder LOCK position	On
	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
	Hazard switch is OFF	Off
AZARD SW	Hazard switch is ON	On
EAR DEF SW DTE:	Rear window defogger switch OFF	Off
or models with BOSE audio system is item is not monitored.	Rear window defogger switch ON	On
R CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
R/BD OPEN SW	Back door opener switch OFF	Off
R/DD OPEN SW	While the back door opener switch is turned ON	On
RNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
KE LOOK	LOCK button of Intelligent Key is not pressed	Off
KE-LOCK	LOCK button of Intelligent Key is pressed	On
	UNLOCK button of Intelligent Key is not pressed	Off
(E-UNLOCK	UNLOCK button of Intelligent Key is pressed	On
	BACK DOOR OPEN button of Intelligent Key is not pressed	Off
(E-TR/BD	BACK DOOR OPEN button of Intelligent Key is pressed	On
	PANIC button of Intelligent Key is not pressed	Off
KE-PANIC	PANIC button of Intelligent Key is pressed	On
	UNLOCK button of Intelligent Key is not pressed	Off
KE-P/W OPEN	UNLOCK button of Intelligent Key is pressed and held	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	LOCK/UNLOCK button of Intelligent Key is not pressed and held si- multaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is pressed and held simul- taneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OFFICAL SENSOR	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
	Back door request switch is not pressed	Off
REQ SW -BD/TR	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
	Ignition switch in OFF or ACC position	Off
IGN RLY2 -F/B	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
BRARE SW 2	ultaneously DCK/UNLOCK button of Intelligent Key is pressed and held simul- neously ight outside of the vehicle iver door request switch is not pressed iver door request switch is not pressed assegner door request switch is not pressed assegner door request switch is pressed assegner door request switch is pressed assegner door request switch is pressed DTE: the item is indicated, but not monitored. DTE: the item is indicated, but not monitored. ack door request switch is not pressed ack door request switch is pressed ack door request switch (push switch) is not pressed ack door request switch (push switch) is pressed ack door request switch (push switch) is pressed ack door request switch or pressed ack door request switch or pressed ack door request switch or DFF or ACC position nition switch in OFF or ACC position DTE: the item is indicated, but not monitored. DTE: the item is	On
	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
S/L -LOCK	Steering is unlocked	Off
NOTE: For models without steering lock unit this item is not displayed.	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
NOTE: For models without steering lock unit this item is not displayed.	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
NOTE: For models without steering lock unit this item is not displayed.	Ignition switch in ON position	On
	Driver door is unlocked	Off
UNLK SEN -DR	Driver door is locked	On
		Off
PUSH SW -IPDM		On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
GN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
SN KLTT-F/D	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
	Selector lever in any position other than N	Off
	Selector lever in N position	On
	Engine stopped	Stop
NONE OTATE	While the engine stalls	Stall
SFT N -MET ENGINE STATE S/L LOCK-IPDM NOTE: For models without steering lock unit this item is not displayed. S/L UNLK-IPDM NOTE: For models without steering lock unit this item is not displayed. S/L RELAY-REQ NOTE: For models without steering lock unit this item is not displayed. VEH SPEED 1	At engine cranking	Crank
	Engine running	Run
	Steering is unlocked	Off
or models without steering lock unit	Steering is locked	On
	Steering is locked	Off
or models without steering lock unit	Steering is unlocked	On
/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK.	Off
5	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK.	On
EH SPEED 1	While driving	Equivalent to speed- ometer reading
EH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
OOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
OOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
OK FLAG	Power supply position in LOCK position	Reset
	Power supply position in any position other than LOCK	Set
	The engine start is prohibited	Reset
RMT ENG STRT	The engine start is permitted	Set
RMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
	Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFRM ID ALL CONFIRM ID4 CONFIRM ID3 CONFIRM ID2 CONFIRM ID1 TP 4 TP 3 TP 2 TP 1 AIR PRESS FL AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RR ID REGST FL1 ID REGST FL1 ID REGST FR1 ID REGST RN	The Intelligent Key ID that the key slot receives is not recognized by any Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by any Intelligent Key ID registered to BCM.	Done
	The Intelligent Key ID that the key slot receives is not recognized by the fourth Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the fourth Intelligent Key ID registered to BCM.	Done
ONFRM ID ALL ONFIRM ID4 ONFIRM ID3 ONFIRM ID2 ONFIRM ID1 2 4 2 3 3 2 2 2 2 1 R PRESS FL R PRESS FL R PRESS FR R PRESS FR R PRESS RR R PRESS RR R PRESS RR R PRESS RL R PRESS RL R PRESS RL R PRESS RL R PRESS RL R PRESS RL R PRESS RL	The Intelligent Key ID that the key slot receives is not recognized by the third Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the third Intelligent Key ID registered to BCM.	Done
	The Intelligent Key ID that the key slot receives is not recognized by the second Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the second Intelligent Key ID registered to BCM.	Done
	The Intelligent Key ID that the key slot receives is not recognized by the first Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the first Intelligent Key ID registered to BCM.	Done
	The ID of fourth Intelligent Key is not registered to BCM	Yet
TP 4	The ID of fourth Intelligent Key is registered to BCM	Done
	The ID of third Intelligent Key is not registered to BCM	Yet
1 - 5	The ID of third Intelligent Key is registered to BCM	Done
TD 0	The ID of second Intelligent Key is not registered to BCM	Yet
TF 2	The ID of second Intelligent Key is registered to BCM	Done
TD 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
	ID of front LH tire transmitter is registered	Done
ID REGSTITET	ID of front LH tire transmitter is not registered	Yet
	ID of front RH tire transmitter is registered	Done
ID REGST I RT	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

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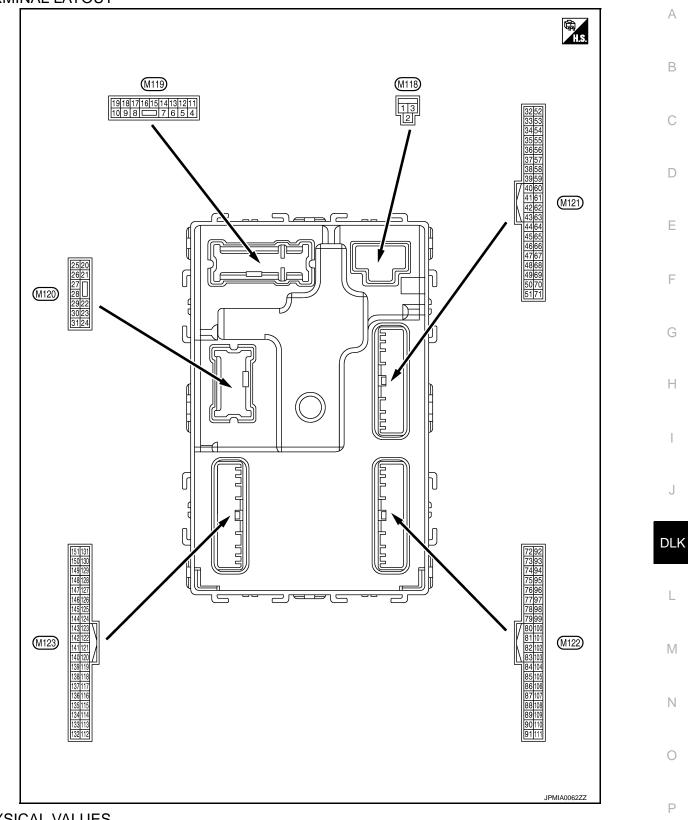
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire +	e color) -	Signal name	Input/ Output		Condition	(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (GR)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage
3 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4					battery saver is activated. oom lamp power supply)	0 V
4 (P)	Ground	Interior room lamp power supply	Output	ed.	battery saver is not activat- or room lamp power supply)	Battery voltage
5	Cround	Passenger door UN-	Outrout	Descensor desc	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actu- ator is not activated)	0 V
7 (W)	Ground	Step lamp	Output	Step lamp	ON OFF	0 V Battery voltage
. ,					LOCK (Actuator is activat-	Battery voltage
8 (V)	Ground	All doors LOCK	Output	All doors	ed) Other than LOCK (Actuator is not activated)	0 V
9	0		0.1.1		UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	Driver door UNLOCK	Output	Driver door	Other than UNLOCK (Actuator is not activated)	0 V
10	Ground	Rear RH door and rear LH door UN-	Outrout	Rear RH door	UNLOCK (Actuator is activated)	Battery voltage
(P)	Ground	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V
11 (LG)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground		Ignition switch ON		0 V
					OFF	0 V
14 (O)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brighten- ing/dimming level is in the neutral position
15 (L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK and ON indi- cator lamps are not illumi- nated.)	Battery voltage
. /					ACC	0 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description		Condition		Value	
(Wire +	e color) –	Signal name	Input/ Output			(Approx.)	A
					Turn signal switch OFF	0 V	В
17 (G)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH		C
					Turn signal switch OFF	6.5 V 0 V	Е
18 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 0 1 1 1 1 1 1 1 1 1 1 1 1 1	F
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF ON	Battery voltage 0 V	Н
				•	OPEN (Back door opener actuator is activated)	Battery voltage	I
23 (BR)	Ground	Back door open	ack door open Output	but Back door	Other than OPEN (Back door opener actuator is not activated)	0 V	I
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V	0
(G)	Giouna		Output		ON (Operated)	Battery voltage	
34	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15	L M
(B)		na (-)	Culput	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 0 0 15 0 15 0 15 0 15 0 15 0 15 0 1	N O P

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire +	e color)	Signal name	Input/ Output		Condition	(Approx.)
35	Ground	Luggage room anten-	Output		When Intelligent Key is in the passenger compart- ment	(V) 15 0 0 1 s JMKIA0062GB
(W)		na (+)	Ouput	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 0 5 0 1 s JMKIA0063GB
38	Ground	Rear bumper anten-	Output	When the back door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 0 0 1 s JMKIA0062GB
(L)		na (-)			When Intelligent Key is not in the antenna detection area	(V) 15 0 0 1 s JMKIA0063GB
39 (BR) Ground	Ground	Ground Rear bumper anten- na (+)	ⁿ⁻ Output	When the back door request	When Intelligent Key is in the antenna detection area	(V) 15 0 0 15 0 15 0 15 0 15 0 15 0 15 0 1
				switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 0 0 1 s JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
(L)	Croand	E/R) control	Calput	-gritteri owiton	ON	0 V

< ECU DIAGNOSIS INFORMATION >

Imput Unput Containing Containing (Approx.) 52 (R) Ground Starter relay control Output Ignition switch When selector lever is in P or N position Battery voltage 52 (R) Ground Starter relay control Output Ignition switch OFF 0.3.V 61 (R) Ground Back door request switch Input Back door re- quest switch ON (Pressed) 0.1.V 64 (GR) Ground Back door request switch Input Back door re- quest switch OFF (Not pressed) Imput Imput Imput Sounding Battery voltage 64 (GR) Ground Warning buzzer Output Warning buzzer Output Sounding Battery voltage Imput Imput Sounding Battery voltage Imput Imput Sounding Imput Imput Imput Rear wiper Imput Sounding Imput Imput Imput Sounding Imput Imput Imput Imput Sounding Imput Imput <t< th=""><th></th><th>inal No.</th><th>Description</th><th></th><th colspan="2"></th><th></th><th></th></t<>		inal No.	Description					
52 (R) Ground Starter relay control (R) Output Ignition switch (N) ON (N) ON position (N) position Dattery voitage 61 (R) Ground Back door request switch Input Back door request quest switch Input Back door request quest switch ON (Pressed) 0 V 64 (GR) Ground Warning buzzer Output Warning buzzer Output Sounding 0 V 65 (O) Ground Rear wiper stop posi- tion Input Rear wiper In stop position 0V 66 (Y) Ground Back door switch Input Rear wiper In stop position 0V 66 (Y) Ground Back door switch Input Back door switch OFF (When back door olgoes) 0V 66 (Y) Ground Back door switch Input Back door switch OFF (When back door olgoes) 0V 66 (Y) Ground Back door switch Input Back door switch OFF (When back door olgoes) 0V 67 (LG) Ground Back door opener switch Input Back door opener switch Not pressed 0V		e color) –	Signal name			Condition		A
(R) Ground Starter relay control Output O							Battery voltage	В
61 (R) Ground Back door request switch Input Back door re- quest switch ON (Pressed) 0V 61 (R) Ground Back door request switch Input Back door re- quest switch OFF (Not pressed) 0V 64 (GR) Ground Warning buzzer Output Warning buzzer Sounding Battery voltage 65 (O) Ground Rear wiper stop posi- tion Input Rear wiper In stop position 0V 66 (Y) Ground Back door switch Input Back door switch In stop position 0V 66 (Y) Ground Back door switch Input Back door switch OFF (When back door closes) 0V 66 (Y) Ground Back door opener switch Input Back door switch OFF (When back door closes) 0V 67 (LS) Ground Back door opener switch Input Back door opener switch Not pressed 0V		Ground	Starter relay control	Output	ON		0.3 V	0
61 (R) Ground Back door request switch Input Back door re- quest switch OFF (Not pressed)					Ignition switch OF	F	0 V	С
61 (R) Ground Back door request switch Input Back door re- quest switch OFF (Not pressed) Imput summersed 1.0 V 64 (GR) Ground Warning buzzer Output Warning buzzer Sounding Battery voltage 65 (O) Ground Rear wiper stop posi- tion Input Rear wiper In stop position Imput summersed In stop position Imput summersed Imput summersed Imput summersed Rear wiper In stop position Imput summersed						ON (Pressed)	0 V	
64 (CR) Ground Warning buzzer Output Warning buzzer Sounding 0 V 66 (O) Ground Rear wiper stop posi- tion Input Rear wiper In stop position In stop position Instance 66 (O) Ground Rear wiper stop posi- tion Input Rear wiper In stop position In stop position Instance 66 (Y) Ground Back door switch Input Back door switch Input Back door switch OFF (When back door closes) OV 66 (Y) Ground Back door opener switch Input Back door opener switch Input Back door opener switch ON (When back door opens) OV		Ground		Input		OFF (Not pressed)	15 10 5 0 ••••••••••••••••••••••••••••••	D
Ground Warning buzzer Output Warning buzzer Not sounding Battery voltage 65 Ground Rear wiper stop posi- tion Input Rear wiper In stop position Instance						Sounding	1.0 V	F
65 (O) Ground Rear wiper stop position Input tion Rear wiper In stop position In stop position 66 (Y) Ground Back door switch Input Back door switch Input Back door switch OFF (When back door closes) Insum of the second door switch Insum of the second door closes) Insum of the second door switch Insum of the second door closes) Insum of the second door switch Insum of the second door closes) Insum of the		Ground	Warning buzzer	Output	Warning buzzer			
65 (C) Ground Rear wiper stop posi- tion Input Rear wiper In stop position 10 (V) Not in stop position 10 (V) 11 (V) 10 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) 11 (V) 10 (V) (V) 10 (V) (V) 10 (V) 10 (V) 10 (V) 10 (V) 10 (V) (V) 10 (V) (V) 10 (V) 10 (V) (V) (V) (V) 10 (V) (V) (V) (V) (V) (V) (V) (V) (V) (V)	(0.1)					Not sounding		G
66 (Y) Ground Back door switch Input Back door switch OFF (When back door closes) (V) 15 0 <td></td> <td>Ground</td> <td></td> <td>Input</td> <td>Rear wiper</td> <td>In stop position</td> <td>15 10 5 10 ms JPMIA0016GB</td> <td>H</td>		Ground		Input	Rear wiper	In stop position	15 10 5 10 ms JPMIA0016GB	H
66 (Y) Ground Back door switch Input Back door switch OFF (When back door closes) 15 15 10 10 10 11.8 V 0N (When back door opens) 0N (When back door opens) 0V 0V 67 (LG) Ground Back door opener switch Input Back door opener switch Not pressed 0V						Not in stop position		J
67 (LG) Ground Back door opener switch Input Back door opener switch Not pressed 0 V		Ground	Back door switch	Input	Back door switch		15 10 5 0 10 ms JPMIA0011GB	DLK
67 (LG) Ground Back door opener switch Input Back door opener switch Not pressed 0 V								\mathbb{M}
67 (LG) Ground Back door opener switch Input Back door opener switch Not pressed Input Input							0.1/	
67 (LG) Ground Back door opener switch Input Back door opener switch Not pressed Input Input						1100000	U V	Ν
		Ground			Not pressed	10 5 0 •	O	
JPMIA0011GB 11.8 V							JPMIA0011GB 11.8 V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(VVir +	e color) -	Signal name	Input/ Output	Condition		(Approx.)
68 (W)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closes)	(V) 15 0 10 ms JPMIA0011GB 11.8 V
					ON (When rear RH door opens)	0 V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closes)	(V) 15 0 10 10 ms JPMIA0011GB 11.8 V
					ON (When rear LH door opens)	0 V
72	Cround	Room antenna (-)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 0 0 1 s JMKIA0062GB
(B)	Ground	Ground (Center console) Outp	Output	ŎFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 0 1 1 1 1 1 1 1 1 1 1 1 1 1

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	٨
(VVIre +	e color) –	Signal name	Input/ Output		Condition	(Approx.)	А
73	0	Room antenna (+)	0.444	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 50 1 s JMKIA0062GB	B C D
(W)		(Center console)	Output	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0063GB	E
74	Ground	Passenger door an- tenna (-)	- Output	When the pas- senger door re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 0 0 15 0 15 0 15 0 15 0 15 0 15 0 1	G H I
(Y) G					When Intelligent Key is not in the antenna detection area	(V) 15 0 5 0 1 s JMKIA0063GB	J DLK L
75	Ground	Passenger door an-	Output	When the pas- senger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(LG)	Giound	tenna (+)	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	P	

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value	
(VVire +	e color) –	Signal name	Input/ Output	Condition		(Approx.)	
76 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 0 1 1 1 1 JMKIA0062GB	
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
77 (P)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
					When Intelligent Key is not in the antenna detection area	(V) 15 0 1 s JMKIA0063GB	
80 (SB)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
81 (O)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
82 (BR)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V	
					ON	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value	
(Wire +	e color) –	Signal name	Input/ Output	Condition		Value (Approx.)	A
83 (P)	Ground	Remote keyless entry receiver communica- tion	Input/ Output	During waiting		(V) 15 0 5 0 1 ms JMKIA0064GB	B C D
				When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB	E
	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 0 2.ms. JPMIA0041GB 1.4 V	G H I
87 (R)					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0037GB 1.3 V	J DLK
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0039GB 1.3 V	M
					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 0 2 ms JPMIA0040GB 1.3 V	P

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value
	e color)	Signal name	Input/ Output	Condition		(Approx.)
+	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0041GB 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0036GB 1.3 V
88 (GR)					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 0 2 ms JPMIA0037GB 1.3 V
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMA0039GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 0 2 ms JPMA0040GB 1.3 V
89 (BR)	Ground	Push-button ignition switch (push switch)	Input	Push-button igni- tion switch (push switch)	Pressed Not pressed	0 V Battery voltage
90 (P)	Ground	CAN - L	Input/ Output			_
91 (L)	Ground	CAN - H	Input/ Output		_	_

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Malua
(Wire +	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)
					OFF	0 V
92 (R)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB 6.5 V
					ON	Battery voltage
93 (P)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK and ACC indi- cator lamps are not illumi- nated.)	Battery voltage
					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(L)	0.00.00		e aip ai	.g	ACC or ON	Battery voltage
96 (Y)	Ground	CVT shift selector (detention switch) power supply	Output		_	Battery voltage
97* ¹	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(O)	Giouna	tion No. 1	Input	Steering lock	UNLOCK status	Battery voltage
98* ¹	Ground	Steering lock condi-	Input	Steering lock	LOCK status	Battery voltage
(L)	Cround	tion No. 2	mput		UNLOCK status	0 V
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V
(V)		tion switch			Any position other than P	Battery voltage
100 (P)	Ground	Passenger door re- quest switch	Input	Passenger door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 10 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (W)	Ground	Driver door request switch	Input	Driver door re- quest switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(Y)		lay control			ON	Battery voltage
103 (L)	Ground	Remote keyless entry receiver power sup- ply	Output	Ignition switch OF	F	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire +	e color) –	Signal name	Input/ Output		Condition	(Approx.)
106* ¹	Oneveral	Steering lock unit	Outrut	leveitiene er útek	OFF or ACC	Battery voltage
(Y)	Ground	power supply	Output	Ignition switch	ON	0 V
					All switches OFF	(V) 15 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 10 5 5 5 2 ms JPMIA0037GB 1.3 V
107 (O)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 15 0 0 2 ms JPMIA0038GB 1.3 V
					Front washer switch ON	(V) 15 0 5 0 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	Terminal No. Description (Wire color)					Value	
(Wir +	e color) –	Signal name	Input/ Output		Condition	(Approx.)	А
					All switches OFF (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMA0041GB 1.4 V	B C D
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0038GB 1.3 V	E
108 (P)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 0 0 2.ms JPMIA0036GB 1.3 V	G H I
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0040GB 1.3 V	J DLk
					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	M
						1.3 V	0

Ρ

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(VVire +	e color) –	Signal name	Input/ Output	Condition		(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Lighting switch PASS	(V) 15 0 2 ms JPMIA0037GB 1.3 V
109 (SB)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT/ AUTO	(V) 15 0 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 10 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire +	e color) –	Signal name	Input/ Output		Condition	value (Approx.)	А
					LOCK status	Battery voltage	В
111* ¹ (LG)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 50 50 50 50 50 50 50 50 5	C
					For 15 seconds after UN- LOCK	Battery voltage	Е
					15 seconds or later after UNLOCK	0 V	F
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 	G
					When bright outside of the	Close to 5 V	
113 (O)	Ground	Optical sensor	Input	Ignition switch ON	vehicle When dark outside of the vehicle	Close to 0 V	I
116 (GR)	Ground	Stop lamp switch 1	Input		_	Battery voltage	J
118	Ground	Stop lamp switch 2	locut	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V	DLK
(L)	Glound	Stop lamp switch 2	Input	Stop lamp switch	ON (Brake pedal is de- pressed)	Battery voltage	
119 (W)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (unlock sen- sor switch OFF)	(V) 15 10 5 10 10 ms JPMIA0012GB 1.1 V	M
					UNLOCK status (unlock sensor switch ON)	0 V	0
121	Ground	Key slot switch	Input	_	ey is inserted into key slot	Battery voltage	
(Y)	0.54114			When Intelligent K	ey is not inserted into key slot	0 V	Р
123 (G)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V	-
					ON	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	Terminal No. Description					
(Wire	e color) –	Signal name	Input/ Output	Condition		Value (Approx.)
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	(V) 15 10 50 10 ms JPMIA0011GB 11.8 V
					ON (When passenger door opens)	0 V
130* ² (BR)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 0 5 10 10 ms JPMIA0012GB 1.1 V
					Rear window defogger switch ON	0 V
132 (G)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 0 10 ms JPMIA0013GB 10.2 V
				Ignition switch OFF		Battery voltage
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button igni- tion switch illumi- nation	ON (When tail lamps OFF)	9.5 V NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level. (V) 15 10 50 U JPMIA0159GB
					OFF	0 V
134 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF (ACC and ON indica- tor lamps are not illuminat- ed.) ON	Battery voltage
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138	Oracia	Receiver and sensor	Outrast	Invition cuttob	OFF	0 V
(V)	Ground	power supply	Output	Ignition switch	ACC or ON	5.0 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description					
(Wire +	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)	A
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 4 0 + 0.2s OCC3881D	B C D
(O)	Ground	er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 2 0 • • 0.25 OCC3880D	E
140	Ground	Selector lever P/N	Innut	Selector lever	P or N position	Battery voltage	G
(GR)	Ground	position	Input	Selector level	Except P and N positions	0 V	
					ON	0 V	Н
141 (O)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 15 15 15 15 15 15 15 15 15	I J
					OFF	Battery voltage	DLK
					All switches OFF	0 V	
142 (L)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit-	Lighting switch 1ST Lighting switch HI Lighting switch 2ND	(V) 15 10 5 0	L
				tent dial 4)	Turn signal switch RH	2 ms JPMIA0031GB 10.7 V	N
					All switches OFF (Wiper intermittent dial 4)	0 V	
143 (W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 2 ms JPMIA0032GB 10.7 V	P

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	0 V	
					Front washer switch ON (Wiper intermittent dial 4)		
144		Combination switch		Combination	Rear wiper switch ON (Wiper intermittent dial 4)		
(P)	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)		
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB 10.7 V	
					All switches OFF	0 V	
					Front wiper switch INT/ AUTO	(V)[
145	Ground	Combination switch	Output	Combination switch	Front wiper switch LO		
(V)	Cround	OUTPUT 3	Culput	(Wiper intermit- tent dial 4)	Lighting switch AUTO	0 2 ms JPMIA0034GB	
					All switches OFF	10.7 V 0 V	
					Front fog lamp switch ON		
					Lighting switch 2ND	(V) 15	
146	Ground	Combination switch	Output	Combination switch	Lighting switch PASS		
(Y)	Ground	OUTPUT 4	Output	(Wiper intermit- tent dial 4)	Turn signal switch LH	0 2 ms JPMIA0035GB 10.7 V	
149 (W)	Ground	Tire pressure warn- ing check switch	Input	Ignition switch ON		(V) 15 0 10 10 ms JPMIA0011GB 11.8 V	
150 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	(V) 15 0 0 10 ms 10 ms JPMIA0011GB 11.8 V	
					ON (When driver door opens)	0 V	

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	inal No.	Description				Value	^
(Wire	e color)	Signal name	Input/	Condition		(Approx.)	A
+	-	Signal name	Output			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V	D
(G)	Giouna	ger relay control	Output	fogger	Not activated	Battery voltage	D
NOTE:				·			

NOTE:

*1: With steering lock unit

• *2: Without BOSE audio system

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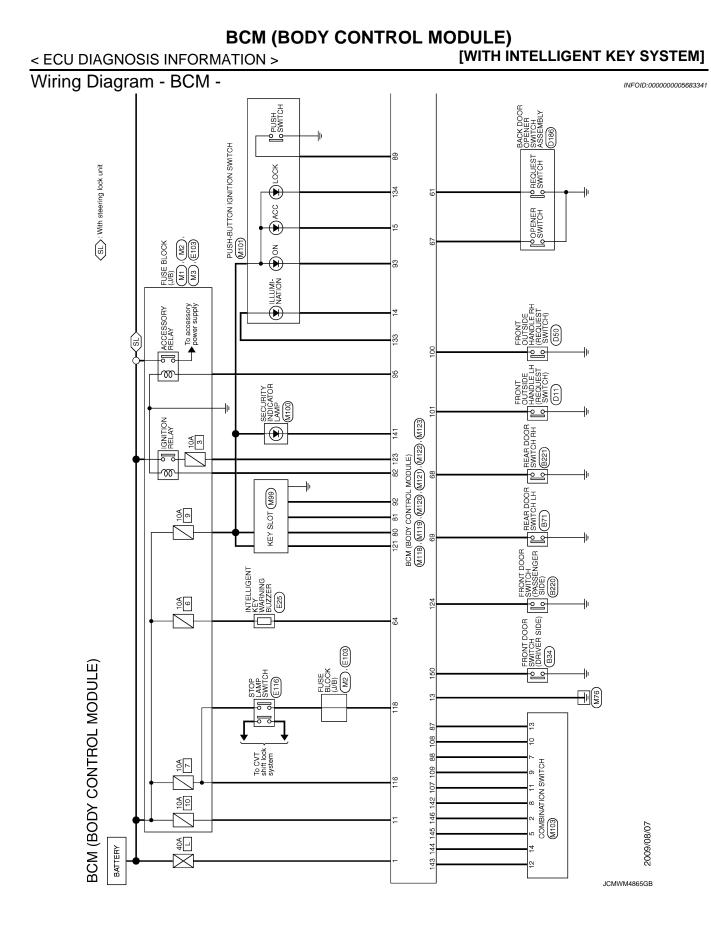
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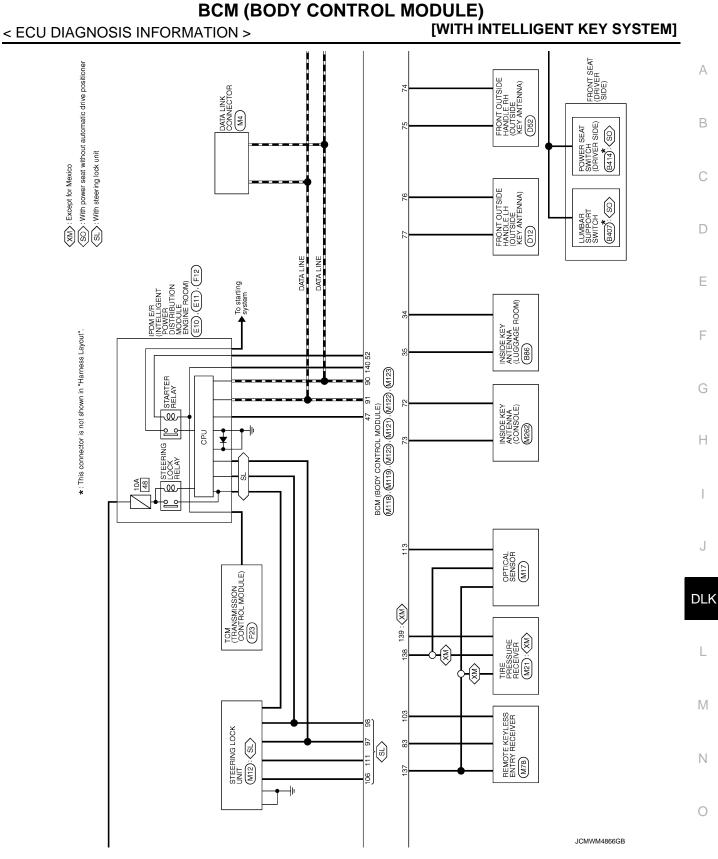
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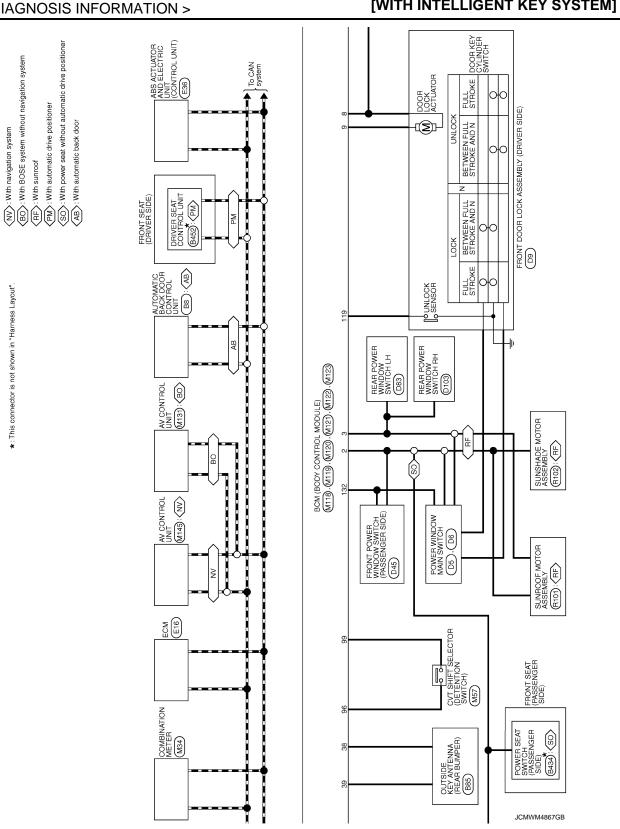
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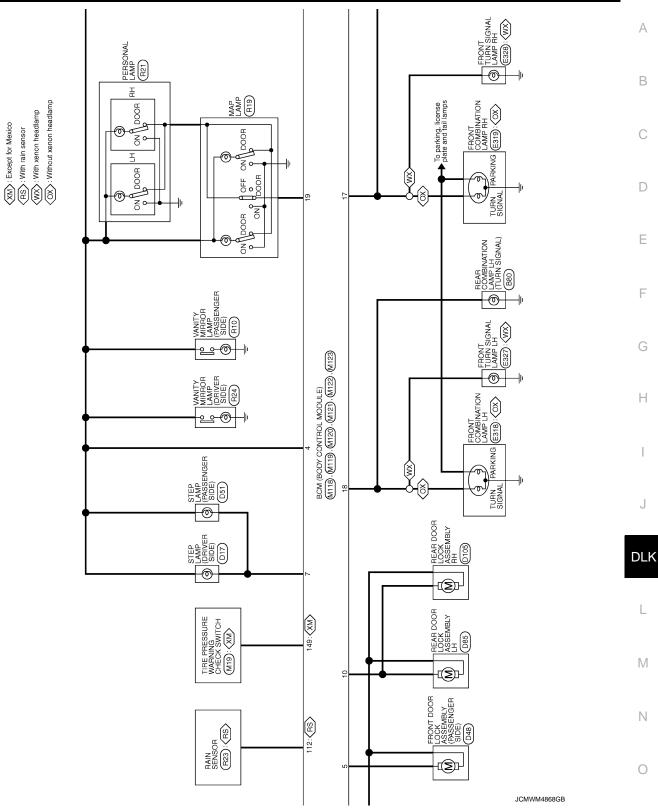
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< ECU DIAGNOSIS INFORMATION >

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

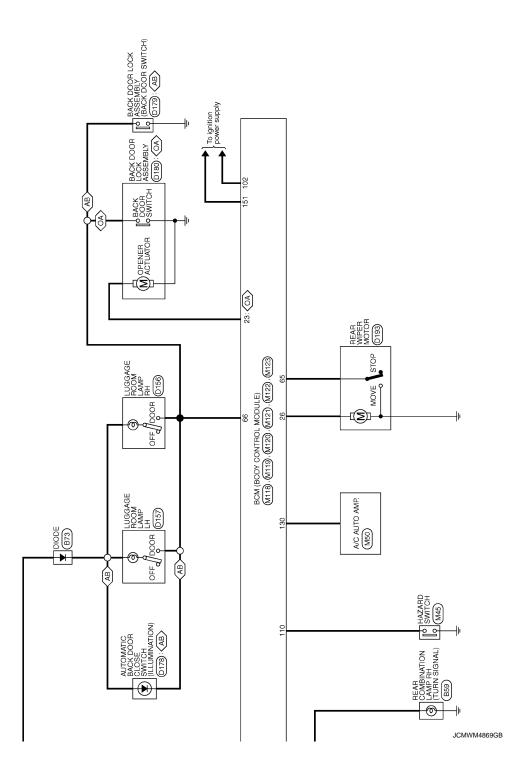
BCM (BODY CONTROL MODULE) < ECU DIAGNOSIS INFORMATION > [WITH INTELLIGENT KEY SYSTEM]

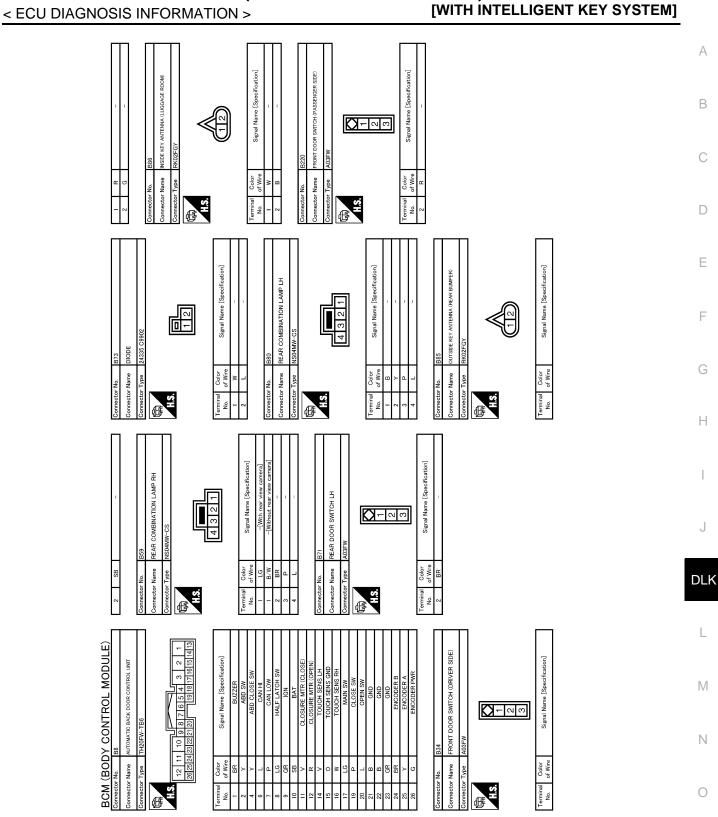


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BCM (BODY CONTROL MODULE) < ECU DIAGNOSIS INFORMATION > [WITH INTELLIGENT KEY SYSTEM]

AB: With automatic back door

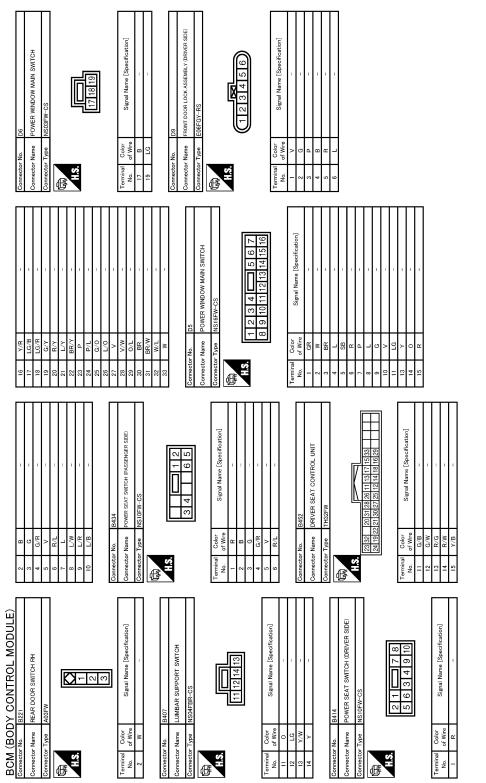




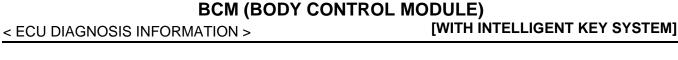
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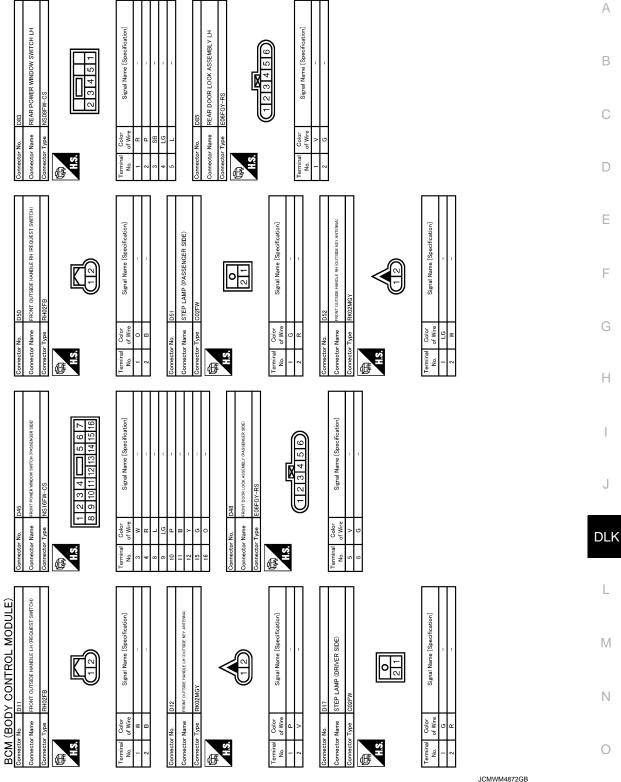
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< ECU DIAGNOSIS INFORMATION >



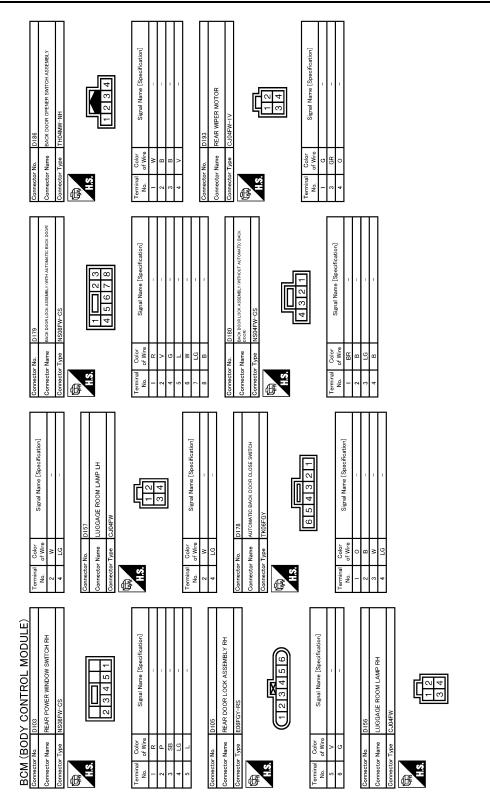
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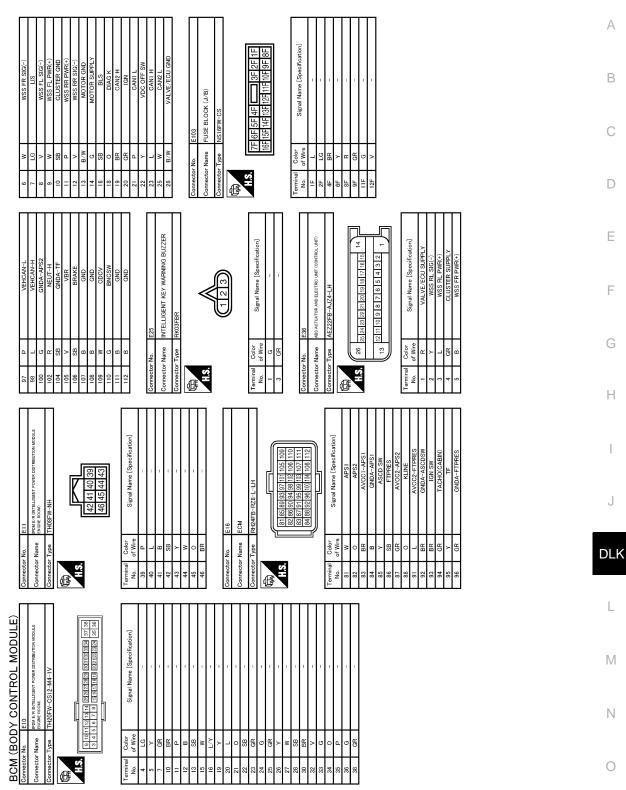
< ECU DIAGNOSIS INFORMATION >



JCMWM4873GB

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]



JCMWM4874GB

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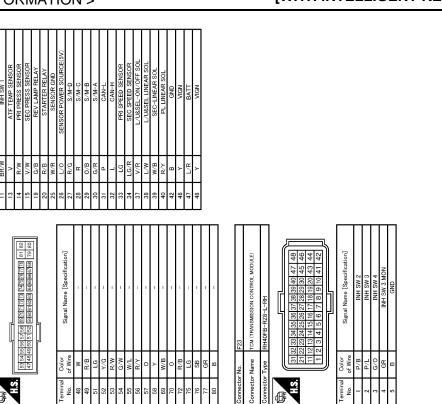
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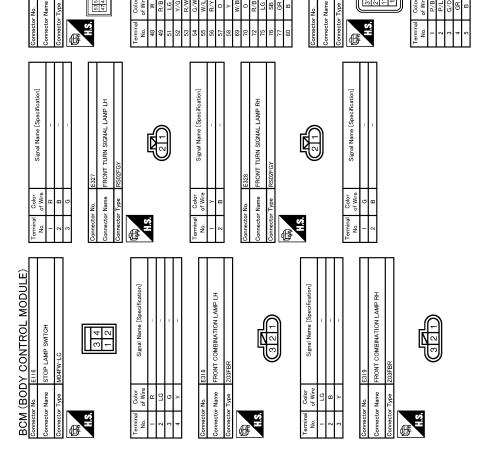
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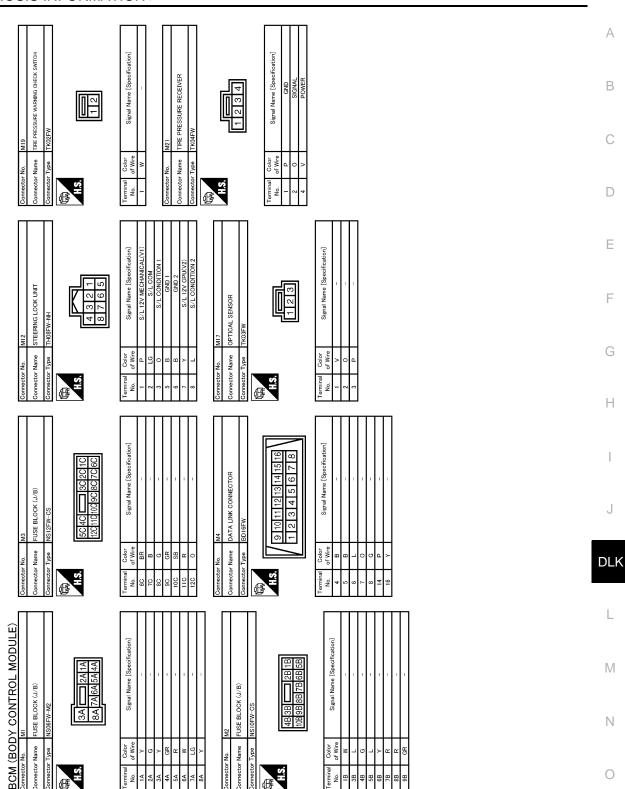
< ECU DIAGNOSIS INFORMATION >

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JCMWM4875GB



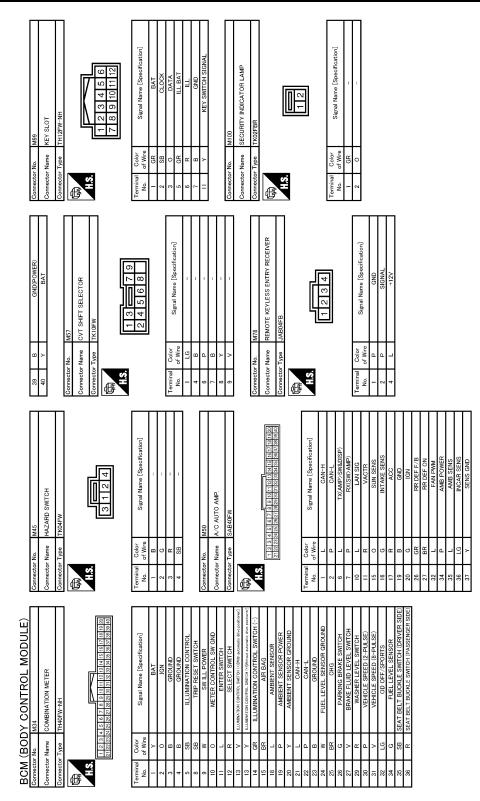
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BCM (BODY CONTROL MODULE) < ECU DIAGNOSIS INFORMATION > [WITH INTELLIGENT KEY SYSTEM]

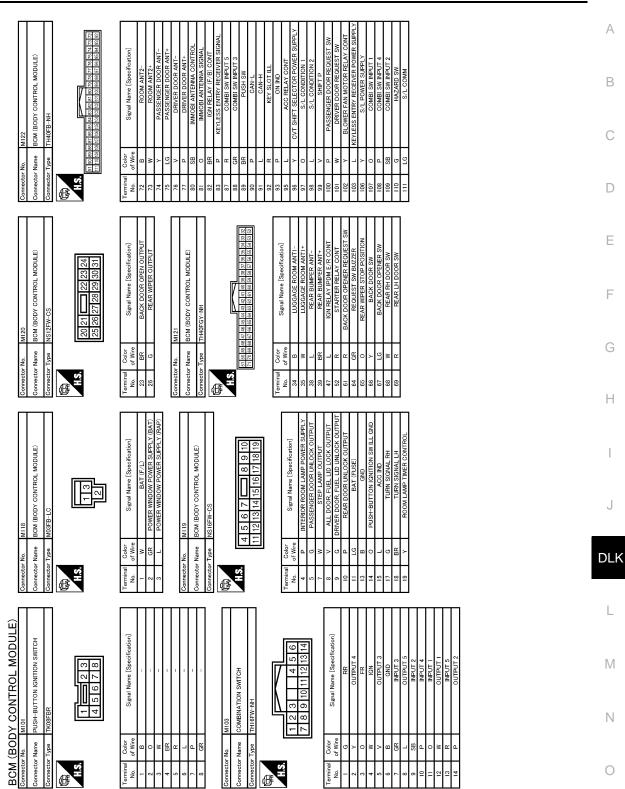
Revision: 2009 September

< ECU DIAGNOSIS INFORMATION >



JCMWM4877GB

< ECU DIAGNOSIS INFORMATION >



JCMWM4878GB

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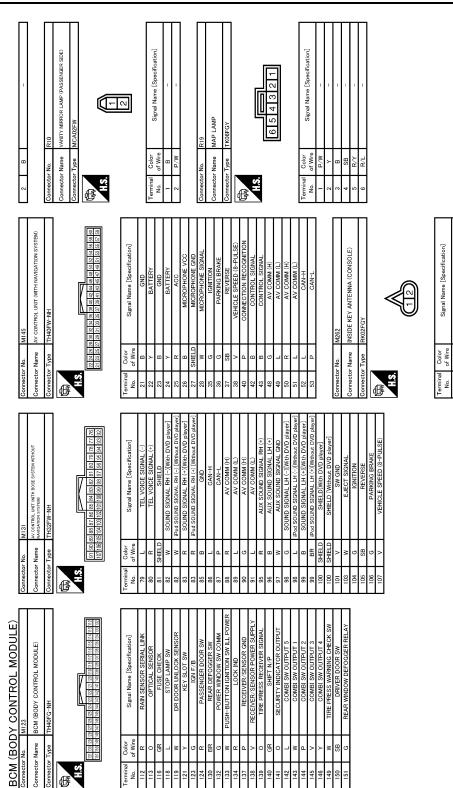
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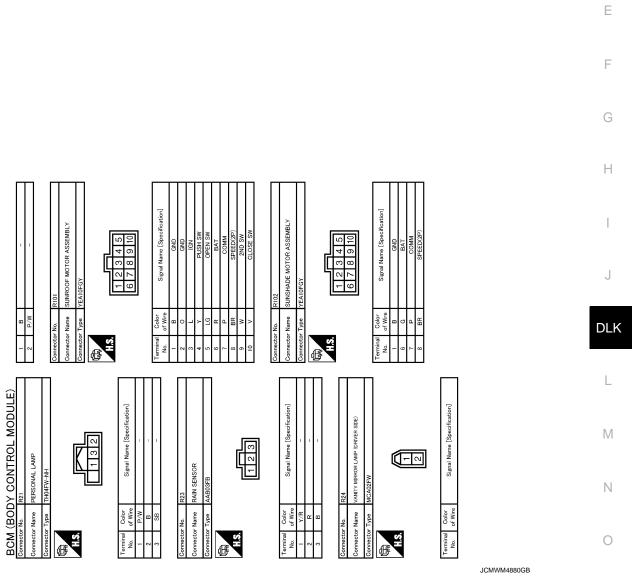
JCMWM4879GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

JUULE) [WITH INTELLIGENT KEY SYSTEM]

Revision: 2009 September



Fail-safe

INFOID:000000005683342

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В

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FAIL-SAFE CONTROL BY DTC

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 $ON \rightarrow OFF$
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actua- tor and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status be- comes consistentStarter control relay signalStarter 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)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

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 crankingInhibit 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 fulfilledPower position changes to ACCReceives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine crankingInhibit 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 be- comes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control in- side 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 (0V) 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/ AUTO position, BCM operates a fail-safe control.

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal. When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stop.

DLK-243

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BCM (BODY CONTROL MODULE) ATION > [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

2. Turn rear wiper switch OFF.

3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:000000005683343

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)	
 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING 	
4 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSI STATUS B2603: SHIFT POSI STATUS B2604: PNP SW B2606: S/L RELAY B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2608: STARTER RELAY B2609: S/L STATUS B26004: IGNITION RELAY B26005: STEERING LOCK UNIT B26005: STEERING LOCK UNIT B26005: STEERING LOCK UNIT B26005: STEERING LOCK UNIT B26015: STERING LOCK UNIT B26016: S/L STATUS B2614: ACC RELAY CIRC B2619: BCM B2614: PUSH-BTN IGN SW B2614: PUSH-BTN IGN SW B2614: PUSH-BTN IGN SW B2614: PUSH-BTN IGN SW B2614: PUSH-BTN IGN SW B2615: STERING LOCK UNIT B2605: S/L STATUS B2605: S/L STATUS B2605: S/L STATUS B2605: S/L STATUS B2605: S/L STATUS B2605: S/L STATUS B2605: S/L STATUS B260	

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Priority	D	TC	
	C1704: LOW PRESSURE FL		А
	C1705: LOW PRESSURE FR		
	C1706: LOW PRESSURE RR		
	C1707: LOW PRESSURE RL		В
	• C1708: [NO DATA] FL		
	• C1709: [NO DATA] FR		
5	• C1710: [NO DATA] RR		
	• C1711: [NO DATA] RL		С
	C1716: [PRESSDATA ERR] FL		
	C1717: [PRESSDATA ERR] FR		
	C1718: [PRESSDATA ERR] RR		
	C1719: [PRESSDATA ERR] RL		D
	C1734: CONTROL UNIT		
6	B2622: INSIDE ANTENNA		
0	B2623: INSIDE ANTENNA		Ε

DTC Index

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 <u>DLK-54, "COM-MON ITEM : CONSULT-III Function (BCM - COMMON ITEM)"</u>.

						Н
CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condi- tion	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	I
No DTC is detected. further testing may be required.	_	_	_	_	_	J
U1000: CAN COMM	_	—	_	—	BCS-38	DLK
U1010: CONTROL UNIT(CAN)	_	—	_	—	BCS-39	DLN
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-40	
B2013: ID DISCORD BCM-S/L*	×	×	_	_	<u>SEC-51</u>	L
B2014: CHAIN OF S/L-BCM*	×	×	_	—	<u>SEC-52</u>	
B2190: NATS ANTENNA AMP	×	—	_	_	<u>SEC-43</u>	
B2191: DIFFERENCE OF KEY	×	—	_	_	<u>SEC-46</u>	Μ
B2192: ID DISCORD BCM-ECM	×	—	_	_	<u>SEC-47</u>	
B2193: CHAIN OF BCM-ECM	×	—	_	_	<u>SEC-49</u>	Ν
B2195: ANTI SCANNING	×	—	—	—	<u>SEC-50</u>	
B2553: IGNITION RELAY	—	×		_	PCS-48	
B2555: STOP LAMP	—	×	—	—	<u>SEC-55</u>	0
B2556: PUSH-BTN IGN SW	—	×	×	_	<u>SEC-57</u>	
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-59</u>	Р
B2560: STARTER CONT RELAY	×	×	×	—	<u>SEC-60</u>	
B2562: LOW VOLTAGE	—	×	—	_	BCS-41	
B2601: SHIFT POSITION	×	×	×	_	<u>SEC-61</u>	
B2602: SHIFT POSITION	×	×	×	—	<u>SEC-64</u>	
B2603: SHIFT POSI STATUS	×	×	×	—	<u>SEC-66</u>	
B2604: PNP SW	×	×	×	—	<u>SEC-69</u>	

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< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condi- tion	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2605: PNP SW	×	×	×		<u>SEC-71</u>
B2606: S/L RELAY*	×	×	×		<u>SEC-73</u>
B2607: S/L RELAY*	×	×	×		<u>SEC-74</u>
B2608: STARTER RELAY	×	×	×	_	<u>SEC-76</u>
B2609: S/L STATUS*	×	×	×		<u>SEC-78</u>
B260A: IGNITION RELAY	×	×	×		PCS-50
B260B: STEERING LOCK UNIT*	_	×	×		<u>SEC-82</u>
B260C: STEERING LOCK UNIT*	_	×	×	_	<u>SEC-83</u>
B260D: STEERING LOCK UNIT*	_	×	×		<u>SEC-84</u>
B260F: ENG STATE SIG LOST	×	×	×	_	<u>SEC-85</u>
B2612: S/L STATUS*	×	×	×	_	<u>SEC-88</u>
B2614: ACC RELAY CIRC		×	×	_	PCS-52
B2615: BLOWER RELAY CIRC		×	×		PCS-55
B2616: IGN RELAY CIRC	_	×	×		PCS-58
B2617: STARTER RELAY CIRC	×	×	×		SEC-92
B2618: BCM	×	×	×	_	PCS-61
B2619: BCM*	×	×	×		<u>SEC-94</u>
B261A: PUSH-BTN IGN SW	_	×	×	_	<u>SEC-95</u>
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-98</u>
B2622: INSIDE ANTENNA	_	×	_	_	DLK-91
B2623: INSIDE ANTENNA	_	×	_	_	DLK-93
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-86</u>
B26EA: KEY REGISTRATION		×	× (Turn ON for 15 seconds)	_	<u>SEC-87</u>
C1704: LOW PRESSURE FL	_	—	—	×	
C1705: LOW PRESSURE FR	_	—	—	×	
C1706: LOW PRESSURE RR	_	—	—	×	<u>WT-25</u>
C1707: LOW PRESSURE RL	_	—	—	×	
C1708: [NO DATA] FL	—	—	—	×	
C1709: [NO DATA] FR	_	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	<u>WT-27</u>
C1711: [NO DATA] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—		×	<u>WT-30</u>
C1719: [PRESSDATA ERR] RL	_	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	<u>WT-32</u>
C1734: CONTROL UNIT	_	—	_	×	<u>WT-34</u>

NOTE:

*: For models without steering lock unit this DTC is not applied.

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC BACK DOOR CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Conditio	n	Value/Status	
VHCL SPEED MTR	While driving	Equivalent to speedometer reading Equivalent to speedometer		
VHCL SPEED ABS	While driving	While driving		
	Automatic back door main quitab	OFF	OFF	
MAIN SW	Automatic back door main switch	ON	ON	
		Release	OFF	
AUTO BD SW	Automatic back door switch	Press	ON	
		Release	OFF	
BK DOOR CL SW	Automatic back door close switch	Press	ON	
		Unlock	OFF	
UNLOCK SEN DR	Door lock (driver)	Lock	ON	
	Dock door lately	Half latch/fully closed	OFF	
OPEN SW	Back door latch	Open	ON	
	Dock door latel:	Open/half latch/closed	OFF	
CLOSE SW	Back door latch	Fully closed	ON	
	De chi de ce	Half latch/fully closed	OFF	
HALF LATCH SW	Back door	Open	ON	
TOUCH SEN RH	Touch concer DU	Other than bellow	OFF	
	Touch sensor RH	Detect obstruction	ON	
	Truck as ready 111	Other than bellow	OFF	
FOUCH SEN LH	Touch sensor LH	Detect obstruction	ON	
	O al a stan la san	Other than P position	OFF	
P RANGE IND	Selector lever	P position	ON	
		Release	OFF	
RKE REQ	Intelligent Key button (back door)	Press (more than 0.5 sec- ond)	MOVE	
		Press (just after)	REV	
GN SW		Other than ON position	OFF	
	Ignition switch	ON position	ON	
	Automatic back door	Not operate	No change HI or LO	
ENCODER A	Automatic back door	Operate	Change HI or LO	
ENCODER B	Automatic back door	Not operate	No change HI or LO	
		Operate	Change HI or LO	
BD OPENER SW	Back door opener switch	Release	OFF	
DD OFENER 3W		Press	ON	
	Door look (back door)	Unlock	OFF	
UNLOCK SEN BD	Door lock (back door)	Lock	ON	
DESTINATION	_	1	NAM	
HAZARD	_		ON	

[WITH INTELLIGENT KEY SYSTEM]

INFOID:000000005517680

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В

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT 12 11 10 9 8 7 6 5 4 3 2 1 28 27 26/25/24/23/22/1/20 19/18/17/16/15/14/13

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PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (V)	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
1		Automatic back door	-	Automatic back	Sounds	0	
(BR)	Ground	warning buzzer	Output	door warning buzzer	Other than above	Battery voltage	
2	Ground	Automatic back door	Input	Automatic back	Pressed	0	
(Y)	Cround	switch signal	mput	door switch	Other than above	Battery voltage	
4	Ground	Automatic back door	Input	Automatic back	Pressed	0	
(Y)	Cround	close switch signal	mput	door close switch	Other than above	Battery voltage	
6 (L)	Ground	CAN - H	Input/ Output	-	_	_	
7 (P)	Ground	CAN - L	Input/ Output	_		_	
8 (LG)	Ground	Half latch switch signal	Input	Back door (open \rightarrow ajar or closed)		$0 \rightarrow Battery voltage$	
9 (GR)	Ground	Power supply (IGN)	Input	Ignition switch ON		Battery voltage	
10 (SB)	Ground	Power supply (BAT)	Input			Battery voltage	
11	Ground	Back door closure mo-	Output	Back door clo-	Close operation	Battery voltage	
(V)	Giouna	tor (close)	Output	sure Other than above		0	
12	Ground	Back door closure mo-	Output	Back door clo-	Open operation	Battery voltage	
(R)	Giouna	tor (open)	Output	sure	Other than above	0	
14 (V)	Ground	Touch sensor LH sig- nal	Input	Touch sensor LH	Detect obstruc- tion	0	
(v)		lidi			Other than above	6	
15 (O)	Ground	Touch sensor ground	Input			0	
16	Ground	Touch sensor RH sig-	Input	Touch sensor RH	Detect obstruc- tion	0	
(W)		nal	-		Other than above	6	
17	Ground	Automatic back door	Incut	Automatic back	ON	Battery voltage	
(LG)	Ground	main switch signal	Input	door main switch	OFF	0	
19	Ground	Close switch signal	Input	Back door lock	Fully closed	0	
(P)	Ground	CIOSE SWICH SIGNAL	Input	DALK UUUT IUUK	Open/half latch	Battery voltage	

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition		Voltage (V)	А
(+)	(-)	Signal name	Input/ Output	Con	allon	(Approx.)	
20 (L)	Ground	Open switch signal	Input	Back door lock	Open Half latch/fully closed	0 Battery voltage	В
21 (B)	Ground	Ground (destination)	_	-		0	С
22 (B)	Ground	Ground (Hazard re- minder)		-	_	0	D
23 (GR)	Ground	Encoder ground	_	-	_	0	
24 (BR)	Ground	Encoder B signal	Input	Back door motor	Moving	(V) 15 10 5 0 	E F G
					Other than above	0/Battery voltage	
25 (Y)	Ground	Encoder A signal	Input	Back door motor	Moving	(V) 15 10 5 0 	H I J
				Other than above		0/Battery voltage	
26 (G)	Ground	Encoder power supply	Output	—		Battery voltage	DLK
					Active (open)	Battery voltage	
27 (L/B)	Ground	Automatic back door motor (open)	Input	Power back door	Active (close)	(V) 15 10 5 0 	L
					Other than above	0	Ν
28 (R)	Ground	Power supply (BAT)	Input	-		Battery voltage	
					Active (close)	Battery voltage	0
29 (L/W)	Ground	Automatic back door motor (close)	Input	Power back door	Active (open)	(V) 15 10 5 0 	Ρ
					Other than above	0	

AUTOMATIC BACK DOOR CONTROL UNIT NFORMATION > [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

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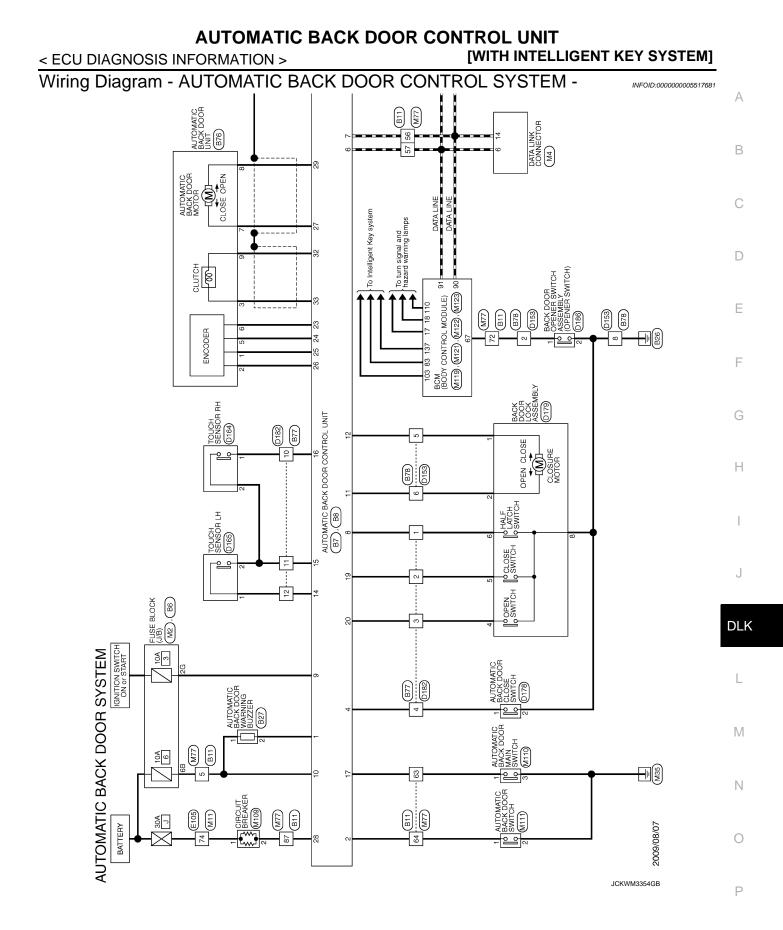
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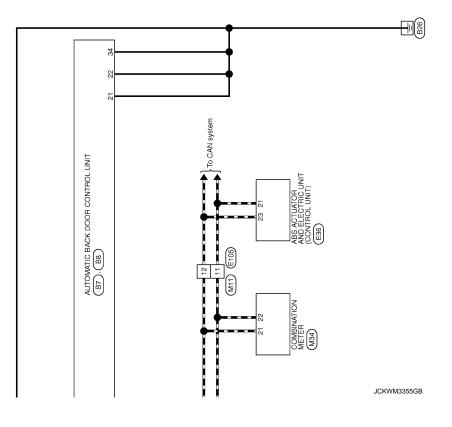
Ground Ground

Terminal No. (Wire color)		Description		Condition		Voltage (V)	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
32 (L/O)	Ground	Ground (clutch)	_	—		0	
33 (W/L)	Ground	Clutch power supply	Input	Power back door	Active Other than above	(V) 15 10 5 0 10 5 0 10 5 0 10 10 10 10 10 10 10 10 10	

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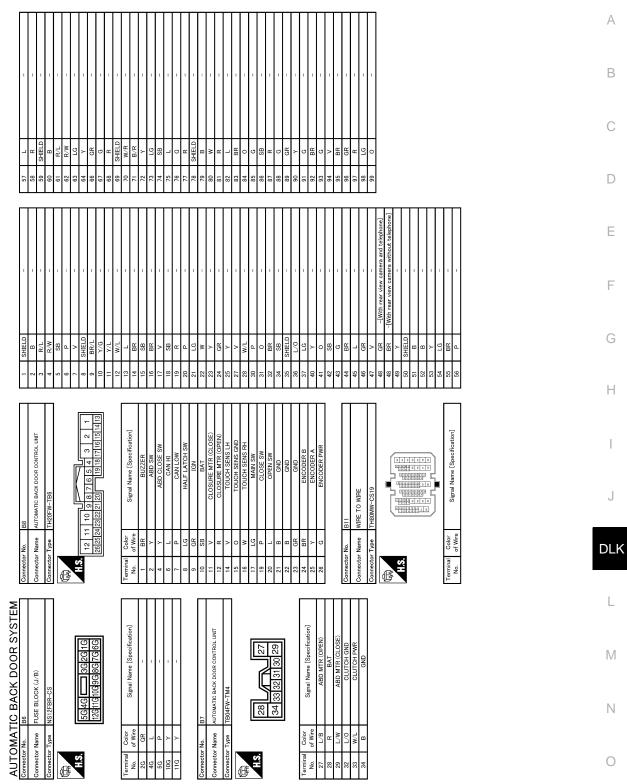
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< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]



JCKWM3356GB

< ECU DIAGNOSIS INFORMATION >

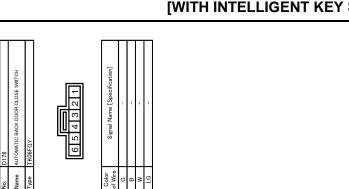
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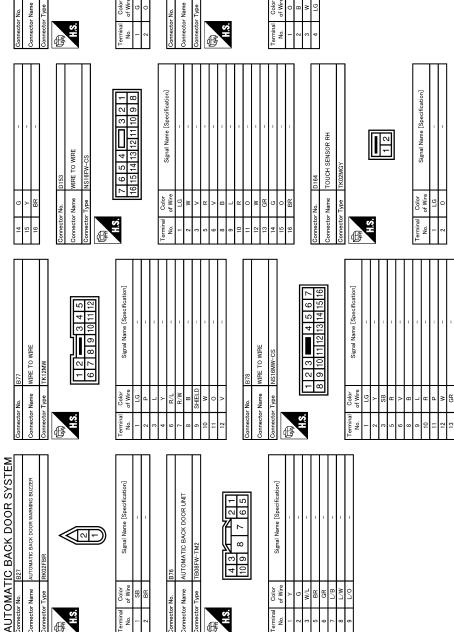
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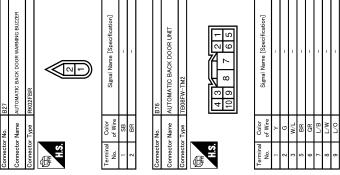
Signal Name [Specification]

Color of Wire

1 2



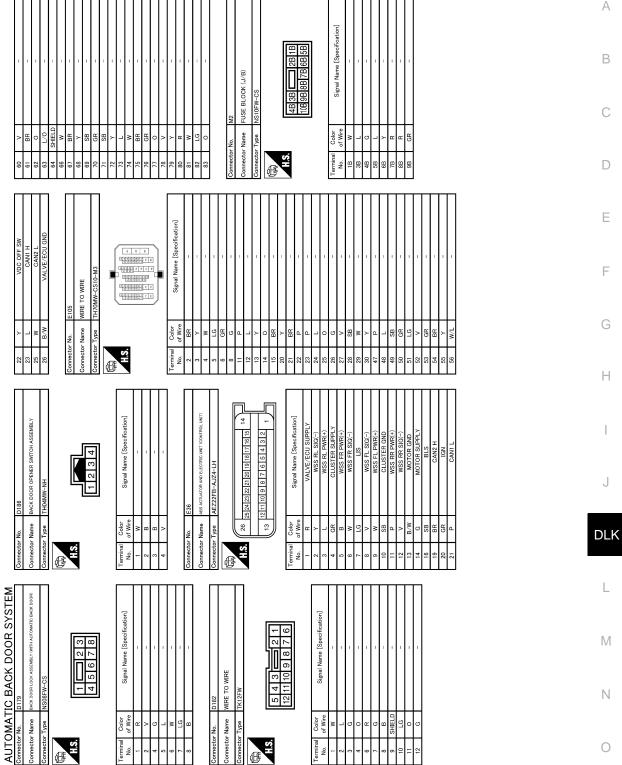




JCKWM3357GB

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]



JCKWM3358GB

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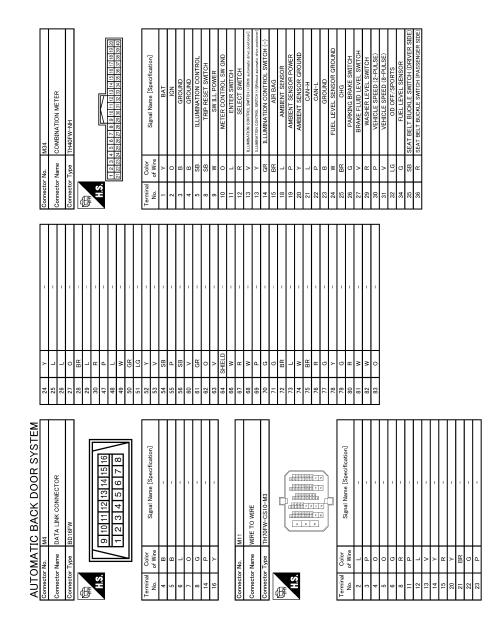
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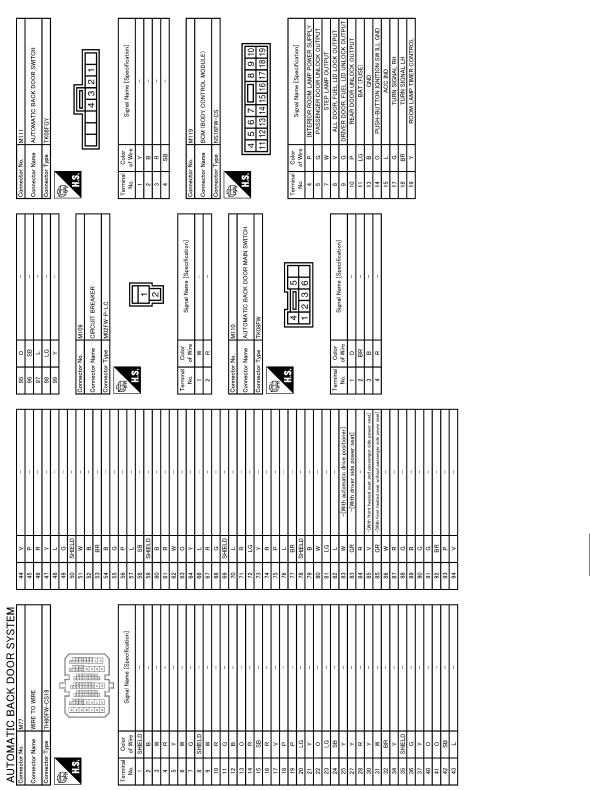
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JCKWM3359GB

< ECU DIAGNOSIS INFORMATION >





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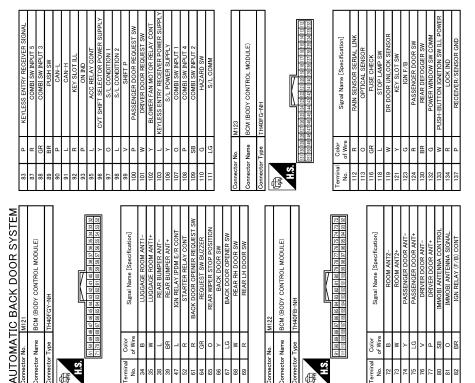
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RECEIVER/SENSOR POWER SUPPLY	TIRE PRESS RECEIVER SIGNAL	SHIFT N/P	SECURITY INDICATOR OUTPUT	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	TIRE PRESS WARNING CHECK SW	DRIVER DOOR SW	REAR WINDOW DEFOGGER RELAY
>	0	GR	0	٦	M	٩.	^	٢	M	SB	9
138	139	140	141	142	143	144	145	146	149	150	151



JCKWM3361GB

AUTOMATIC BACK DOOR CONTROL UNIT [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

Fail Safe

U1000: CAN COMM

INFOID:000000005517682

А Display contents of CONSULT-III Fail-safe Cancellation В Intermittent clutch function Normal return All following condition are satisfied

B2401 IGN OPEN	Intermittent clutch function	 Power supply condition of automatic back door control unit: OFF BCM receive ignition position signal (OFF) via CAN
B2403 PULSE ENCODER	Inhibit automatic back door operation	When receiving the pulse from en- coders A and B normally (5 pulses)
B2409 HALF LATCH SW	Intermittent clutch function	Half latch switch is ON from OFF
B2416 TOUCH SEN R OPEN	During close operation: Intermittent clutch function	Normal return E
B2417 TOUCH SEN L OPEN	During close operation: Intermittent clutch function	Normal return
B2418 CLUTCH PWR SPLY	Inhibit automatic back door operation	Reception of next operation request
B2419 OPEN SW	Inhibit automatic back door operation	Erase DTC, reconnect battery
B2420 CLOSE SW	Inhibit automatic back door operation	Erase DTC, reconnect battery G
B2421 CLUTCH TIME OUT	Intermittent clutch function	Reception of next operation request
B2422 BACK DOOR STATE	Intermittent clutch function	Detect back door fully closed position
B2423 ABD MTR TIME OUT	Intermittent clutch function	Reception of next operation request
B2424 CLSR CONDITION	Inhibit automatic back door operation	Normal return or reconnect battery

DTC Inspection Priority Chart

INFOID:000000005517683

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

Priority	DTC	
1	 U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B2401 IGN OPEN 	
2	 B2403 PULSE ENCODER B2409 HALF LATCH SW B2416 TOUCH SEN R OPEN B2417 TOUCH SEN L OPEN B2418 CLUTCH PWR SPLY B2419 OPEN SW B2420 CLOSE SW B2421 CLUTCH TIME OUT B2422 BACK DOOR STATE B2423 ABD MTR TIME OUT B2424 CLSR CONDITION 	

DTC Index

NOTE:

Details of time display

• 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 \rightarrow 2 \rightarrow 3...38 \rightarrow 39 after returning to the normal condition whenever ignition switch OFF \rightarrow ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch $OFF \rightarrow ON$ after returning to the normal condition if the malfunction is detected again.

INFOID:000000005517684

< ECU DIAGNOSIS INFORMATION >

CONSULT-III display	Fail-safe	Item	Reference page
U1000: CAN COMM		CAN communication circuit	DLK-63
U1010: CONTROL UNIT(CAN)	_	Internal CAN communication circuit	DLK-65
B2401: IGN OPEN	×	IGN power supply circuit	DLK-66
B2403: PULSE ENCODER	×	Encoder signal	<u>DLK-67</u>
B2409: HALF LATCH SW	×	Half latch switch signal	<u>DLK-70</u>
B2416: TOUCH SEN R OPEN	×	Touch sensor RH	<u>DLK-72</u>
B2417: TOUCH SEN L OPEN	×	Touch sensor LH	<u>DLK-74</u>
B2418: CLUTCH PWR SPLY	×	Clutch power supply circuit	<u>DLK-76</u>
B2419: OPEN SW	×	Open switch signal	<u>DLK-78</u>
B2420: CLOSE SW	×	Close switch signal	<u>DLK-81</u>
B2421: CLUTCH TIME OUT	×	Clutch operation time	DLK-83
B2422: BACK DOOR STATE	×	Back door state	<u>DLK-84</u>
B2423: ABD MTR TIME OUT	×	Automatic back door motor operation time	<u>DLK-86</u>
B2424: CLSR CONDITION	×	Closure condition	<u>DLK-88</u>

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS А DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH В ALL DOOR ALL DOOR : Diagnosis Procedure INFOID:000000005517685 CHECK POWER SUPPLY AND GROUND CIRCUIT Check power supply and ground circuit. D Refer to DLK-95, "BCM (BODY CONTROL MODULE) : Diagnosis Procedure" (BCM). Is the inspection result normal? YES >> GO TO 2. Е NO >> Repair or replace the malfunctioning parts. 2. CHECK DOOR LOCK AND UNLOCK SWITCH F Check door lock and unlock switch. Refer to <u>DLK-104, "DRIVER SIDE : Component Function Check"</u> (driver side). Refer to DLK-104, "PASSENGER SIDE : Component Function Check" (passenger side). Is the inspection result normal?

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

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).

Refer to DLK-106, "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 <u>GI-39, "Intermittent Incident"</u>. NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side). Refer to <u>DLK-106, "DRIVER SIDE : Component Function Check"</u>.

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 <u>GI-39, "Intermittent Incident"</u>.

NO >> GO TO 1.

PASSENGER SIDE

INFOID:000000005517686

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

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side). Refer to DLK-107, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.confirm the operation

Confirm the operation again.

Is the result normal?

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

REAR LH

REAR LH : Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (rear LH). Refer to DLK-108, "REAR LH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2 . CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

REAR RH

REAR RH : Diagnosis Procedure

CHECK DOOR LOCK ACTUATOR

Check door lock actuator (rear RH).

Refer to DLK-108, "REAR RH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1. INFOID:000000005517689

INFOID:000000005517687

[WITH INTELLIGENT KEY SYSTEM]

INFOID:000000005517688

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERA-TION

Diagnosis Procedure	INFOID:000000005517690	В
1. CHECK POWER DOOR LOCK OPERATION		
Check power door lock operation.		С
Does door lock/unlock with door lock and unlock switch?		0
YES >> GO TO 2. NO >> Go to <u>DLK-261, "ALL DOOR : Diagnosis Procedure"</u> .		D
2. CHECK DOOR KEY CYLINDER SWITCH		
Check door key cylinder switch. Refer to <u>DLK-112, "Component Function Check"</u> .		E
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.		G
Is the result normal?		
 YES >> Check intermittent incident. Refer to <u>GI-39. "Intermittent Incident"</u>. NO >> GO TO 1. 		Н

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VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPER-ATE

Diagnosis Procedure

INFOID:000000005517691

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-261, "ALL DOOR : Diagnosis Procedure"</u>.

2. CHECK VEHICLE SPEED SIGNAL

Check combination meter. Refer to <u>SEC-59, "DTC Logic"</u>.

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 <u>GI-39, "Intermittent Incident"</u>.

IGN OFF INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

IGN OFF INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OP-ERATE

Diagnosis Procedure	INFOID:000000005517692	В
1. CHECK POWER DOOR LOCK OPERATION		D
Check power door lock operation.		0
Does door lock/unlock with door lock and unlock switch?		C
YES >> GO TO 2. NO >> Go to <u>DLK-261, "ALL DOOR : Diagnosis Procedure"</u> . 2. CHECK BCM		D
Check DTC for BCM. Refer to <u>DLK-245, "DTC_Index"</u> .		E
<u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.		F
3. CONFIRM THE OPERATION		
Confirm the operation again. <u>Is the result normal?</u>		G
YES >> Check intermittent incident. Refer to <u>GI-39. "Intermittent Incident"</u> . NO >> GO TO 1.		Н

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P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPER-ATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OP-ERATE

Diagnosis Procedure

INFOID:000000005517693

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-261, "ALL DOOR : Diagnosis Procedure"</u>.

2. СНЕСК ТСМ

Check DTC for TCM. Refer to <u>TM-122, "DTC Index"</u>.

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 <u>GI-39, "Intermittent Incident"</u>.

POWER WINDOW DOWN FUNCTION DOES NOT OPERATE WITH KEY CYLIN-DER OPERATION

< SYMPTOM DIAGNOSIS >	[V	WITH	INTELLIC	GENT	KEY SY	STEM]
POWER WINDOW DOWN FUNCTION DOES	S N	IOT	OPER.	ATE	WITH	KEY
CYLINDER OPERATION						

Diagnosis Procedure	INFOID:000000005517694	В
1. CHECK DOOR KEY CYLINDER OPERATION		D
Check door key cylinder operation.		С
Does door lock/unlock with door key cylinder switch operation?		
YES >> GO TO 2. NO >> Go to <u>DLK-263, "Diagnosis Procedure"</u> .		D
2. CHECK POWER WINDOW OPERATION		
Check power window operation.		_
Does power window up/down with power window main switch?		E
YES >> GO TO 3. NO >> Go to <u>PWC-104, "Diagnosis Procedure"</u> .		_
3. CONFIRM THE OPERATION		F
Confirm the operation again.		
Is the result normal?		G
YES >> Check intermittent incident. Refer to <u>GI-39. "Intermittent Incident"</u> . NO >> GO TO 1.		
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COOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:000000005517695

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10. "Work</u> <u>Flow"</u>.
- 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:000000005517696

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-261, "ALL DOOR : Diagnosis Procedure"</u>.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to DLK-114, "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-129, "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 <u>DLK-131, "Component Function Check"</u>.

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 <u>GI-39, "Intermittent Incident"</u>.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLIGENT

KEY	
< SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]	
SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLI- GENT KEY	А
Description	В
 NOTE: Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10. "Work Flow"</u>. Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom. 	С
CONDITIONS OF VEHICLE (OPERATING CONDITIONS)Intelligent key is removed from key slot.All doors are closed.	D
Diagnosis Procedure	Ε
1. CHECK POWER DOOR LOCK OPERATION	_
Check power door lock operation.	F
Does door lock/unlock with door lock and unlock switch?	
YES >> GO TO 2. NO >> Go to <u>DLK-261, "ALL DOOR : Diagnosis Procedure"</u> .	G
2. CHECK "DOOR LOCK-UNLOCK SET" SETTING IN "WORK SUPPORT"	
Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT". Refer to <u>DLK-55, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)"</u> .	Н
Is the inspection result normal?	I
YES >> GO TO 3. NO >> Set "DOOR LOCK-UNLOCK SET" of "WORK SUPPORT".	I
3. CONFIRM THE OPERATION	
Confirm the operation again.	J
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u> . NO >> GO TO 1.	DLł
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POWER WINDOW DOWN FUNCTION DOES NOT WORK WHEN OPERATING WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER WINDOW DOWN FUNCTION DOES NOT WORK WHEN OPERAT-ING WITH INTELLIGENT KEY

Description

INFOID:000000005517699

NOTE:

• Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work</u> <u>Flow"</u>.

Diagnosis Procedure

INFOID:000000005517700

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-268, "Description"</u>.

2. Check power window operation

Check power window operation.

Does power window up/down with power window main switch?

YES >> GO TO 3.

NO >> Go to <u>PWC-104</u>, "Diagnosis Procedure".

3.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"

Check "PW DOWN SET" setting in "WORK SUPPORT". Refer to DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Set "PW DOWN SET" setting in "WORK SUPPORT".

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

PANIC ALARM FUNCTION DOES NOT OPERATE [WITH INTELLIGENT KEY SYSTEM]

PANIC ALARM FUNCTION DOES NOT OPERATE

Description

NOTE:

- Before performing the diagnosis following procedure, check "Work Flow". Refer to <u>DLK-10, "Work Flow"</u>.
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATION CONDITIONS)

- Ignition switch is in OFF or LOCK position.
- Intelligent Key is removed from key slot.

Diagnosis Procedure

< SYMPTOM DIAGNOSIS >

CHECK REMOTE KEYLESS ENTRY FUNCTION Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

IES	>> GU 10 Z.
NO	>> Go to <u>DLK-268, "Description"</u> .

2.CHECK VEHICLE SECURITY ALARM OPERATION

Does alarm (headlamp and horn) active?

YES	>> GO TO 3.
NO	>> Go to <u>DLK-268, "Description"</u> .

 ${f 3.}$ CHECK "PANIC ALARM SET" SETTING IN "WORK SUPPORT"

Check "PANIC ALARM SET" setting in "WORK SUPPORT". Refer to DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

>> GO TO 1. NO

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INFOID:000000005517701

INFOID:000000005517702

HAZARD AND HORN REMINDER DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

HAZARD AND HORN REMINDER DOES NOT OPERATE

Description

NOTE:

- Before performing the diagnosis following procedure, check "Work Flow". Refer to DLK-10, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATION CONDITIONS)

- Ignition switch is in OFF or LOCK position.
- Intelligent Key is removed from key slot.

Diagnosis Procedure

INFOID:000000005517704

INFOID:000000005517703

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

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

Refer to DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK "HORN WITH KEYLESS LOCK" SETTING IN "WORK SUPPORT".

Check "HORN WITH KEYLESS LOCK" setting in "WORK SUPPORT".

Refer to DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "HORN WITH KEYLESS LOCK" setting in "WORK SUPPORT".

3.CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to DLK-140, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK HORN

Check horn.

Refer to DLK-135, "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 <u>GI-39, "Intermittent Incident"</u>.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]	
AUTO DOOR LOCK OPERATION DOES NOT OPERATE	А
Description INFOID:000000005517705	A
NOTE: • Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work Flow"</u> .	В
Diagnosis Procedure	С
1. CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT"	
Check "AUTO LOCK SET" setting in "WORK SUPPORT". Refer to <u>DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)"</u> .	D
Is the inspection result normal? YES >> GO TO 2. NO >> Set "AUTO LOCK SET" setting in "WORK SUPPORT".	Е
2.CONFIRM THE OPERATION	F
Confirm the operation again. <u>Is the result normal?</u>	
YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u> . NO >> GO TO 1.	G

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000005517707

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work</u> <u>Flow"</u>.
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005517708

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-268</u>, "Description".

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

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

Refer to DLK-56, "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-119, "Component Function Check"</u>.

Is the inspection result normal?

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

CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver side).

Refer to <u>DLK-125</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-39. "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

NOTE:

• Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work</u> <u>Flow"</u>.

DLK-274

INFOID:000000005517709

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]	
 Check that vehicle is under the condition shown in "Conditions or check each symptom. 	f vehicle" before starting diagnosis, and	A
CONDITIONS OF VEHICLE (OPERATING CONDITIONS)		
 Intelligent Key is removed from key slot. 		
Ignition switch is in OFF position.		В
 No Intelligent Keys are inside the vehicle. 		
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000005517710	С
1.CHECK REMOTE KEYLESS ENTRY FUNCTION		
Check remote keyless entry function.		D
Does door lock/unlock with Intelligent key button?		
YES >> GO TO 2.		
NO >> Go to <u>DLK-268, "Description"</u> .		Ε
2.CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPO	ORT"	
Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".		F
Refer to <u>DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM</u>	<u>I - INTELLIGENT KEY)"</u> .	Γ
Is the inspection result normal?		
YES >> GO TO 3. NO >> Set "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".		G
3. CHECK DOOR REQUEST SWITCH		
Check door request switch (passenger side). Refer to <u>DLK-119, "Component Function Check"</u> .		Н
Is the inspection result normal?		
YES >> GO TO 4.		1
NO $>>$ Repair or replace the malfunctioning parts.		I
4. CHECK OUTSIDE KEY ANTENNA		
Check outside key antenna (passenger side).		J
Refer to <u>DLK-125, "Component Function Check"</u> .		
Is the inspection result normal?		
YES >> GO TO 5.		DLł
NO >> Repair or replace the malfunctioning parts.	-	
5. CONFIRM THE OPERATION		L
Confirm the operation again.		
Is the result normal?		
YES >> Check Intermittent Incident. Refer to <u>GI-39</u> , "Intermittent	Incident".	Μ
NO >> GO TO 1.		
BACK DOOR		NI
BACK DOOR : Description	INFOID:000000005517711	Ν
NOTE:		
 Before performing the diagnosis in the following procedure, check 	k "Work Flow". Refer to DLK-10, "Work	0
Flow"		
 Check that vehicle is under the condition shown in "Conditions o check each symptom. 	t vehicle" before starting diagnosis, and	Ρ
CONDITIONS OF VEHICLE (OPERATING CONDITIONS)		
Intelligent Key is removed from key slot.Ignition switch is in OFF position.		

• No Intelligent Keys are inside the vehicle.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR : Diagnosis Procedure

INFOID:000000005517712

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-268, "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-56, "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 (back door).

Refer to <u>DLK-119</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (rear bumper). Refer to <u>DLK-125</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-39. "Intermittent Incident".

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

SWITCH	
< SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]	
SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR RE-	
QUEST SWITCH	А
Description INFOID:000000005517713	В
NOTE: • Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work</u>	
 Flow". Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom. 	С
CONDITIONS OF VEHICLE (OPERATING CONDITIONS) Intelligent Key is removed from key slot.	D
 Ignition switch is in OFF position. No Intelligent Keys are inside the vehicle. 	Е
Diagnosis Procedure	
1.CHECK DOOR LOCK FUNCTION	F
Check door lock function by door request switch.	
<u>Does door lock/unlock with door request switch?</u> YES >> GO TO 2.	G
 NO >> • Go to <u>DLK-274, "DRIVER SIDE : Description"</u> (driver side). • Go to <u>DLK-274, "PASSENGER SIDE : Description"</u> (passenger side). • Go to <u>DLK-275, "BACK DOOR : Description"</u> (back door). 	Н
2. CHECK "DOOR LOCK–UNLOCK SET" SETTING IN "WORK SUPPORT"	
Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT". Refer to <u>DLK-55, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)"</u> .	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".	J
3.CONFIRM THE OPERATION	
Confirm the operation again.	DLk
Is the result normal?	
 YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u>. NO >> GO TO 1. 	L
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HAZARD AND BUZZER REMINDER DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Description

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10. "Work</u> <u>Flow"</u>.
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:000000005517716

INFOID:000000005517715

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

Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT". Refer to DLK-55, "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 <u>DLK-55, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)"</u>.

Is the inspection result normal?

YES >> GO TO 3.

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

 ${f 3.}$ CHECK "ANS BACK I-KEY UNLOCK" SETTING IN "WORK SUPPORT"

Check "ANS BACK I-KEY UNLOCK" setting in "WORK SUPPORT". Refer to DLK-55, "DOOR LOCK : CONSULT-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 <u>DLK-140</u>, "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-127, "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 <u>GI-39. "Intermittent Incident"</u>.

KEY REMINDER FUNCTION DOES NOT OPERATE GNOSIS > [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS > [WITH II KEY REMINDER FUNCTION DOES NOT OPERATE

	А
Description	~
NOTE: • Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work</u>	В
 <u>Flow</u>". Understand the operation when does it work, refer to <u>DLK-35</u>, "<u>KEY REMINDER FUNCTION</u>: <u>System</u> <u>Description</u>". 	С
Diagnosis Procedure	
1.CHECK "ANTI KEY LOCK IN FUNCTI" SETTING IN "WORK SUPPORT"	D
Check "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT". Refer to <u>DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)"</u> . Is the inspection result normal?	E
YES >> GO TO 2. NO >> Set "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT".	F
2.CHECK DOOR SWITCH Check door switch. Refer to <u>DLK-97, "WITH AUTOMATIC BACK DOOR : Component Function Check"</u> .	G
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	Н
3. CHECK INSIDE KEY ANTENNA	
Check inside key antenna. Refer to <u>DLK-91, "DTC Logic"</u> (console). Refer to <u>DLK-93, "DTC Logic"</u> (luggage room).	
Is the inspection result normal? YES >> GO TO 4.	J
NO >> Repair or replace the malfunctioning parts. 4.CHECK UNLOCK SENSOR	DLK
Check unlock sensor. Refer to <u>DLK-123</u> , " <u>Component Function Check</u> ". <u>Is the inspection result normal?</u>	L
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	в. Л
5.CONFIRM THE OPERATION	Μ
Confirm the operation again. <u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u> .	Ν
NO >> GO TO 1.	0

KEY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY WARNING DOES NOT OPERATE

Description

INFOID:000000005517719

[WITH INTELLIGENT KEY SYSTEM]

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10. "Work</u> <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-37</u>, "WARNING FUNCTION : System <u>Description</u>".
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000005517720

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to <u>DLK-138</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-97, "WITH AUTOMATIC BACK DOOR : Component Function Check".

Is the inspection result normal?

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

3.CHECK KEY SLOT

Check key slot.

Refer to DLK-131, "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 <u>DLK-137</u>, "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 <u>DLK-133</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39. "Intermittent Incident".

OFF POSITION WARNING DOES NOT OPERATE NOSIS > [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >	[WIT
OFF POSITION WARNING DOES NOT OPE	RATE

	А
Description	
 NOTE: Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10. "Work Flow"</u>. 	В
 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-37, "WARNING FUNCTION : System Description"</u>. Door lock function is normal. 	С
Diagnosis Procedure	D
1.CHECK POWER POSITION	E
Check if ignition switch position is changing or not. Does ignition switch position change?	L
YES >> GO TO 2. NO >> Check DTC for BCM. Refer to <u>DLK-245, "DTC Index"</u> .	F
2.CHECK BUZZER (COMBINATION METER)	G
Check buzzer (combination meter). Refer to <u>DLK-138, "Component Function Check"</u> .	0
<u>Is the inspection result normal?</u> YES >> GO TO 3.	Н
NO >> Repair or replace the malfunctioning parts.	
3. CHECK INTELLIGENT KEY WARNING BUZZER	I
Check Intelligent Key warning buzzer. Refer to <u>DLK-127, "Component Function Check"</u> .	·
Is the inspection result normal?	J
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4.CHECK DOOR SWITCH	DLK
Check door switch (driver side). Refer to DLK-97, "WITH AUTOMATIC BACK DOOR : Component Function Check".	
Is the inspection result normal?	L
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	
5. CONFIRM THE OPERATION	Μ
Confirm the operation again.	
Is the result normal?	Ν
 YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u>. NO >> GO TO 1. 	
	0

P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

P POSITION WARNING DOES NOT OPERATE

Description

INFOID:000000005517723

[WITH INTELLIGENT KEY SYSTEM]

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10. "Work</u> <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-37</u>, "WARNING FUNCTION : System <u>Description</u>".
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000005517724

1.CHECK TRANSMISSION RANGE SWITCH

Check DTC for BCM.

Refer to <u>DLK-245, "DTC Index"</u>.

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 <u>DLK-127, "Component Function Check"</u>.

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 <u>DLK-138, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK DOOR SWITCH

Check door switch (driver side).

Refer to DLK-97, "WITH AUTOMATIC BACK DOOR : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INSIDE KEY ANTENNA

Check inside key antenna. Refer to <u>DLK-91, "DTC Logic"</u> (console). Refer to <u>DLK-93, "DTC Logic"</u> (luggage room).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to DLK-137, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

1.CONFIRM THE OPERATION

P POSITION WARNING DOES NOT OPERATE

WITH INTELLIGENT KEY SYSTEM

< SYIMI	PTOM DIAGNOSIS >		
	the operation again.		
	esult normal?		А
YES NO	>> Check intermittent incident. Refer to <u>GI-39, "Intermittent</u> >> GO TO 1.	Incident".	
			В
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ACC WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ACC WARNING DOES NOT OPERATE

Description

INFOID:000000005517725

[WITH INTELLIGENT KEY SYSTEM]

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10. "Work</u> <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-37</u>, "WARNING FUNCTION : System <u>Description</u>".
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000005517726

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-245</u>, "DTC Index".

2. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter). Refer to <u>DLK-138, "Component Function Check"</u>.

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 <u>DLK-137</u>, "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 <u>GI-39. "Intermittent Incident"</u>.
- NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]
TAKE AWAY WARNING DOES NOT OPERATE DOOR IS OPEN
DOOR IS OPEN : Description
 NOTE: Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work 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-37</u>, "WARNING FUNCTION : <u>System</u> <u>Description</u>". Door lock function is normal.
DOOR IS OPEN : Diagnosis Procedure
1. CHECK POWER POSITION
Check if ignition switch position is changing or not. <u>Does ignition switch position change?</u> YES >> GO TO 2. NO >> Check DTC for BCM. Refer to DLK-245. "DTC Index".
NO >> Check DTC for BCM. Refer to <u>DLK-245, "DTC Index"</u> . 2.CHECK BUZZER (COMBINATION METER)
Check buzzer (combination meter). Refer to <u>DLK-138, "Component Function Check"</u> .
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 <u>DLK-137, "Component Function Check"</u> . <u>Is the inspection result normal?</u>
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4.CHECK DOOR SWITCH
Check door switch (driver side). Refer to DLK-97, "WITH AUTOMATIC BACK DOOR : Component Function Check".
Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.
5.CHECK INTELLIGENT KEY WARNING BUZZER
Check Intelligent Key warning buzzer. Refer to <u>DLK-127, "Component Function Check"</u> .
<u>Is the inspection result normal?</u> YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.
6.CHECK INSIDE KEY ANTENNA
Check inside key antenna. Refer to <u>DLK-91. "DTC Logic"</u> (console). Refer to <u>DLK-93. "DTC Logic"</u> (luggage room). <u>Is the inspection result normal?</u> YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

7. CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to DLK-133, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

ANY DOOR OPEN TO ALL DOORS CLOSED

ANY DOOR OPEN TO ALL DOORS CLOSED : Description

INFOID:000000005517729

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work</u> <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-37</u>, "WARNING FUNCTION : System <u>Description</u>".
- Door lock function is normal.

ANY DOOR OPEN TO ALL DOORS CLOSED : Diagnosis Procedure

INFOID:000000005517730

1.CHECK DOOR SWITCH

Check door switch (driver side).

Refer to DLK-97, "WITH AUTÓMATIC BACK DOOR : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to <u>DLK-137</u>, "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-91, "DTC Logic"</u> (console). Refer to <u>DLK-93, "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-39, "Intermittent Incident".

NO >> GO TO 1.

PUSH-BUTTON IGNITION SWITCH OPERATION

TAKE AWAY WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM] PUSH-BUTTON IGNITION SWITCH OPERATION : Description INFOL:00000005517731

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work Flow"</u>.
 Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm
- Warning functions operating condition is extremely complicated, during operating conditions, reconfirmations, re
- Door lock function is normal.

PUSH-BUTTON IGNITION SWITCH OPERATION : Diagnosis Procedure INFOLD:000000005517732

	_
1.CHECK POWER POSITION	D
Check if ignition switch position is changing or not.	
Does ignition switch position change?	E
YES >> GO TO 2.	
NO >> Check DTC for BCM. Refer to <u>DLK-245, "DTC Index"</u> .	
2.CHECK PUSH-BUTTON IGNITION SWITCH	F
Check push-button ignition switch. Refer to <u>PCS-65, "Component Function Check"</u> .	
Is the inspection result normal?	G
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3. CHECK BUZZER (COMBINATION METER)	Н
Check buzzer (combination meter).	
Refer to <u>DLK-138, "Component Function Check"</u> .	I
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
	J
4.CHECK COMBINATION METER DISPLAY	
Check combination meter display.	DLK
Refer to <u>DLK-137, "Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	L
5. CHECK INSIDE KEY ANTENNA	
Check inside key antenna.	M
Refer to <u>DLK-91, "DTC Logic"</u> (console).	
Refer to <u>DLK-93, "DTC Logic"</u> (luggage room).	
Is the inspection result normal?	Ν
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	
NO >> Repair or replace the malfunctioning parts. 6.CONFIRM THE OPERATION	\bigcirc
	0
Confirm the operation again.	
Is the result normal?	Р
 YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u>. NO >> GO TO 1. 	
TAKE AWAY THROUGH WINDOW	

TAKE AWAY THROUGH WINDOW : Description

NOTE:

INFOID:000000005517733

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TAKE AWAY WARNING DOES NOT OPERATE [WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS > Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10</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-37, "WARNING FUNCTION : System Description". Door lock function is normal. TAKE AWAY THROUGH WINDOW : Diagnosis Procedure INFOID:000000005517734 **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-245, "DTC Index". 2.CHECK "TAKE OUT FROM WIN WARN" SETTING IN "WORK SUPPORT"

Check "TAKE OUT FROM WIN WARN" setting in "WORK SUPPORT". Refer to DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "TAKE OUT FROM WIN WARN" setting in "WORK SUPPORT".

3.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to DLK-137, "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-91, "DTC Logic"</u> (console). Refer to DLK-93, "DTC Logic" (luggage room).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to DLK-133, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1. INTELLIGENT KEY IS REMOVED FROM KEY SLOT

INTELLIGENT KEY IS REMOVED FROM KEY SLOT : Description

INFOID:000000005517735

NOTE:

• Before performing the diagnosis in the following procedure, check "Work Flow". Refer to DLK-10, "Work Flow".

DLK-288

TAKE AWAY WARNING DOES NOT OPERATE

SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

< STIMPTOM DIAGNOSIS >	
 Warning functions operating condition is extremely complicat the list above twice in order to ensure proper operation. Refer <u>Description</u>". Door lock function is normal. 	ted, during operating confirmations, reconfirm r to <u>DLK-37, "WARNING FUNCTION : System</u>
INTELLIGENT KEY IS REMOVED FROM KEY SI	
1.CHECK KEY SLOT	
Check key slot.	
Refer to <u>DLK-131, "Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2. CHECK COMBINATION METER DISPLAY	
Check combination meter display.	
Refer to DLK-137, "Component Function Check"	
<u>Is the inspection result normal?</u> YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3. CHECK INSIDE KEY ANTENNA	
Check inside key antenna.	
Refer to <u>DLK-91, "DTC Logic"</u> (console).	
Refer to <u>DLK-93, "DTC Logic"</u> (luggage room). <u>Is the inspection result normal?</u>	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4.CHECK KEY SLOT ILLUMINATION	
Check key slot illumination.	
Refer to <u>DLK-133</u> , "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 <u>GI-39</u> , "Intermi	ttent Incident".
NO >> GO TO 1.	

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description

INFOID:000000005517737

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work</u> <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-37</u>, "WARNING FUNCTION : <u>System</u> <u>Description</u>".

Diagnosis Procedure

INFOID:000000005517738

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

Check "LO- BATT OF KEY FOB WARN" setting in "WORK SUPPORT".

Refer to DLK-56, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "LO- BATT OF KEY FOB WARN" setting in "WORK SUPPORT".

2. CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery. Refer to <u>DLK-129</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

 ${\it 3.}$ CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to <u>DLK-137</u>, "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-91, "DTC Logic"</u> (console).

Refer to DLK-93, "DTC Logic" (luggage room).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK KEY SLOT ILLUMINATION

Check key slot illumination. Refer to <u>DLK-133</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39. "Intermittent Incident".

NO >> GO TO 1.

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

< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
DOOR LOCK OPERATION WARNING DOES	NOT OPERATE WITH DOOR
REQUEST SWITCH	
Description	INFOID:000000005517739
 NOTE: Before performing the diagnosis in the following procedure, ch Flow". 	neck "Work Flow". Refer to <u>DLK-10, "Work</u>
 Warning functions operating condition is extremely complicated the list above twice in order to ensure proper operation. Refer to <u>Description</u>". 	l, during operating confirmations, reconfirm
Diagnosis Procedure	INF0/D:00000005517740
1. CHECK DOOR LOCK FUNCTION	E
Check door lock function by door request switch.	
Does door lock/unlock with door request switch?	_
YES >> GO TO 2.	F
 NO >> • Go to <u>DLK-274, "DRIVER SIDE : Description"</u> (drive • Go to <u>DLK-274, "PASSENGER SIDE : Description"</u> (• Go to <u>DLK-275, "BACK DOOR : Description"</u> (back of the second sec	(passénger side).
2. CHECK DOOR SWITCH	
Check door switch (driver side). Refer to <u>DLK-97, "WITH AUTOMATIC BACK DOOR : Component</u>	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 <u>DLK-127, "Component Function Check"</u> .	J
Is the inspection result normal?	
YES >> GO TO 4.	DLł
NO >> Repair or replace the malfunctioning parts.	
4. CHECK INSIDE KEY ANTENNA	
Check inside key antenna. Refer to <u>DLK-91, "DTC Logic"</u> (console). Refer to <u>DLK-93, "DTC Logic"</u> (luggage room).	L

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

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KEY ID WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY ID WARNING DOES NOT OPERATE

Description

INFOID:000000005517741

INFOID:000000005517742

[WITH INTELLIGENT KEY SYSTEM]

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10. "Work</u> <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-37</u>, "WARNING FUNCTION : <u>System</u> <u>Description</u>".

Diagnosis Procedure

1.CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to DLK-129, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function. Refer to <u>DLK-137, "Component Function Check"</u>.

Is the inspection result normal?

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

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]	
INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE	Δ
Description	A
 Before performing the diagnosis in the following procedure, check "Work Flow". Refer to <u>DLK-10, "Work</u> <u>Flow"</u>. 	В
 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-37</u>, "WARNING FUNCTION : <u>System</u> <u>Description</u>". 	С
Diagnosis Procedure	D
1.CHECK INTELLIGENT KEY	
Check Intelligent Key. Refer to <u>DLK-129, "Component Function Check"</u> .	Е
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	F
2. CHECK COMBINATION METER DISPLAY FUNCTION	
Refer to DLK-137. "Component Function Check".	G
<u>Is the inspection result normal?</u> YES >> GO TO 3.	Н
NO >> Repair or replace the malfunctioning parts.	
3. CONFIRM THE OPERATION	I
Confirm the operation again.	
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u> .	J

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

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INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Description

INFOID:000000005517745

NOTE:

Before performing the diagnosis in the following procedure, check "Work Flow". Refer to DLK-10, "Work Flow".

Diagnosis Procedure

INFOID:000000005517746

1. CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter. Refer to DLK-165, "Component Function Check". Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERAT	
<u>SYMPTOM DIAGNOSIS</u> [WITH INTELLIGENT K AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE ALL SWITCHES	A
ALL SWITCHES : Diagnosis Procedure	INFOID:000000005517747
1. CHECK POWER SUPPLY AND GROUND CIRCUIT	В
Check power supply and ground circuit. Refer to <u>DLK-95, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"</u> .	С
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	D
2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT SPECIFICATION	
Check ground circuit. Refer to <u>DLK-164, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"</u> .	E
<u>Is the inspection result normal?</u> YES >> GO TO 3.	F
NO >> Repair or replace the malfunctioning parts.	, i
3.CONFIRM THE OPERATION	G
Confirm the operation again. <u>Is the result normal?</u>	0
YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u> .	Н
NO >> GO TO 1. AUTOMATIC BACK DOOR SWITCH	
AUTOMATIC BACK DOOR SWITCH : Diagnosis Procedure	INFOID:000000005517748
1. CHECK AUTOMATIC BACK DOOR SWITCH	1
Check automatic back door switch. Refer to <u>DLK-145, "Diagnosis Procedure"</u> .	
Is the inspection result normal?	DLK
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	L
Confirm the operation again.	
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u> .	Μ
NO >> GO TO 1.	
AUTOMATIC BACK DOOR CLOSE SWITCH	Ν
AUTOMATIC BACK DOOR CLOSE SWITCH : Diagnosis Procedure 1.confirm the OPERATION	INFOID:000000005517749
1. Turn ON automatic back door main switch.	0
2. Confirm the operation.	_
<u>Is the result normal?</u> YES >> Automatic back door system is normal.	Р
NO >> GO TO 2.	
2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH	
Check automatic back door close switch. Refer to <u>DLK-141, "Diagnosis Procedure"</u> .	
Is the inspection result normal?	

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

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

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u>.

NO >> GO TO 1.

INTELLIGENT KEY

INTELLIGENT KEY : Diagnosis Procedure

INFOID:000000005517750

1.CONFIRM THE OPERATION

1. Turn ON automatic back door main switch.

2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is normal.

NO >> GO TO 2.

2. CHECK DOOR LOCK SYSTEM

Check Intelligent Key system.

Refer to DLK-268, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u>.

NO >> GO TO 1.

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Diagnosis Procedure

1.CONFIRM THE OPERATION

1. Turn ON automatic back door main switch.

2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is normal.

NO >> GO TO 2.

2. CHECK DOOR LOCK SYSTEM

Check Intelligent Key system.

INFOID:000000005517751

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

<pre>AUTOMATIC BACK DOOR OPERATION < SYMPTOM DIAGNOSIS ></pre>	[WITH INTELLIGENT KEY SYSTEM]
Refer to DLK-268, "Diagnosis Procedure".	-
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3. CONFIRM THE OPERATION	
Confirm the operation again. Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-39</u> , "Intermitte	nt Incident".
NO >> GO TO 1.	······
CLOSURE FUNCTION	
CLOSURE FUNCTION : Diagnosis Procedure	INFOID:000000005517752
1.CHECK HALF LATCH SWITCH	
Check half latch switch. Refer to <u>DLK-151, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CHECK CLOSURE MOTOR	
Check closure door motor. Refer to <u>DLK-151, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
NO >> Repair or replace the malfunctioning parts. 3. CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-39, "Intermitte	nt Incident".
BACK DOOR OPEN/CLOSE FUNCTION	
BACK DOOR OPEN/CLOSE FUNCTION : Diagnos	is Procedure INFOID:000000005517753
1. CHECK POWER SUPPLY AND GROUND CIRCUIT	
Check power supply and ground circuit.	
Refer to <u>DLK-95</u> , "BCM (BODY CONTROL MODULE) : Diagnosis	Procedure" (BCM).
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CHECK TOUCH SENSOR	
Check touch sensor LH/RH.	_
Refer to <u>DLK-154</u> , "LH : Component Function Check" (LH). Refer to <u>DLK-153</u> , "RH : Component Function Check" (RH).	
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3. СНЕСК СLUTCH	
Check clutch. Refer to DLK 159. "Diagnosis Precedure"	
Refer to <u>DLK-159. "Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

4.CHECK AUTOMATIC BACK DOOR MOTOR

Check automatic back door motor.

Refer to DLK-160, "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-39, "Intermittent Incident".
- NO >> GO TO 1.

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
AUTOMATIC BACK DOOR WARNING DOES	S NOT OPERATE
BUZZER	
BUZZER : Diagnosis Procedure	INFOID:000000005517754
1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER	
Check automatic back door warning buzzer. Refer to <u>DLK-163, "Diagnosis Procedure"</u> .	
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 <u>GI-39, "Intermit</u>	tent Incident".
NO >> GO TO 1. HAZARD WARNING LAMP	
HAZARD WARNING LAMP : Diagnosis Procedure	INF0/D:00000005517755
1.CHECK HAZARD WARNING LAMP	
Check hazard warning lamp.	
Refer to exterior lighting system. Refer to <u>EXL-164</u> , "Symptom Tails the inspection result normal?	able
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 <u>GI-39, "Intermit</u> NO >> GO TO 1.	tent Incident".

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AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL AUTOMATIC BACK DOOR MAIN SWITCH

AUTOMATIC BACK DOOR MAIN SWITCH : Diagnosis Procedure

INFOID:000000005517756

1.CHECK THE OPERATION

Check automatic back door main switch function.

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

Is the inspection result normal?

- YES >> Automatic back door system is normal.
- NO >> GO TO 2.

2. CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch. Refer to DLK-143, "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?

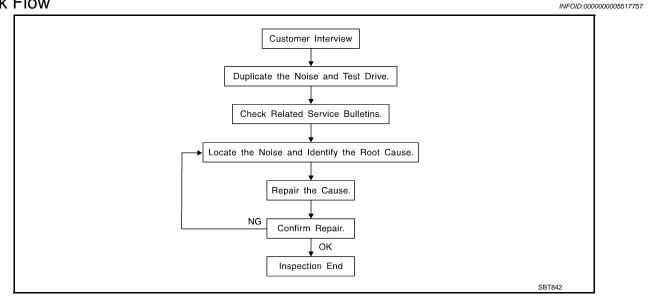
- YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u>.
- NO >> GO TO 1.

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

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 <u>DLK-305</u>, "<u>Diagnostic Worksheet</u>". 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 J are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
 higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle) Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)
 Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand)
 Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise) Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumblebee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

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< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise. Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to DLK-303, "Inspection Procedure".

REPAIR THE CAUSE

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

CAUTION:

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

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 \times 135 mm (3.94 \times 5.31 in)/76884-71L01: 60 \times 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, 30×50 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 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

SQUEAK AND RATTLE TROUBL		
< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]	
Insulates where slight movement is present. Ideal for instrument pa SILICONE GREASE	anel applications.	А
Used in place of UHMW tape that is be visible or does not fit. Will of SILICONE SPRAY	only last a few months.	
Used when grease cannot be applied. DUCT TAPE Used to eliminate movement.		В
CONFIRM THE REPAIR		
Confirm that the cause of a noise is repaired by test driving the ve conditions as when the noise originally occurred. Refer to the note		С
Inspection Procedure	INFOID:000000005517758	D
Refer to Table of Contents for specific component removal and ins	tallationinformation.	
INSTRUMENT PANEL		Е
Most incidents are caused by contact and movement between:		
1. The cluster lid A and instrument panel		
2. Acrylic lens and combination meter housing		F
3. Instrument panel to front pillar garnish		
4. Instrument panel to windshield		G
5. Instrument panel mounting pins		0
6. Wiring harnesses behind the combination meter		
 A/C defroster duct and duct joint These incidents can usually be located by tapping or moving t 	he companents to duplicate the poise or by	Н
pressing on the components while driving to stop the noise. I	Most of these incidents can be repaired by	
applying felt cloth tape or silicon spray (in hard to reach area		
wiring harness. CAUTION:		I
Do not use silicone spray to isolate a squeak or rattle. If	you saturatethe area with silicone, you	
will not be able to recheck the repair.		J
CENTER CONSOLE		
Components to pay attention to include:		
1. Shifter assembly cover to finisher		DLK
2. A/C control unit and cluster lid C		
3. Wiring harnesses behind audio and A/C control unit		I
The instrument panel repair and isolation procedures also apply to	thecenter console.	L
DOORS		
Pay attention to the:		Μ
1. Finisher and inner panel making a slapping noise		
2. Inside handle escutcheon to door finisher		
3. Wiring harnesses tapping		Ν
4. Door striker out of alignment causing a popping noise on starts	sand stops	
Tapping or moving the components or pressing on them while dri many of these incidents. You can usually insulate the areas with f the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.		0
TRUNK		P
Trunk noises are often caused by a loose jack or loose items put in In addition look for:	itothe trunk by the owner.	٢
1. Trunk lid dumpers out of adjustment		
2. Trunk lid striker out of adjustment		

- Trunk lid striker out of adjustment
 The trunk lid torsion bars knocking together
- A loose license plate or bracket

[WITH INTELLIGENT KEY SYSTEM]

< 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 knockingnoise
- 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 insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seatis in and the load placed on the seat when the noise is present. These conditions hould be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



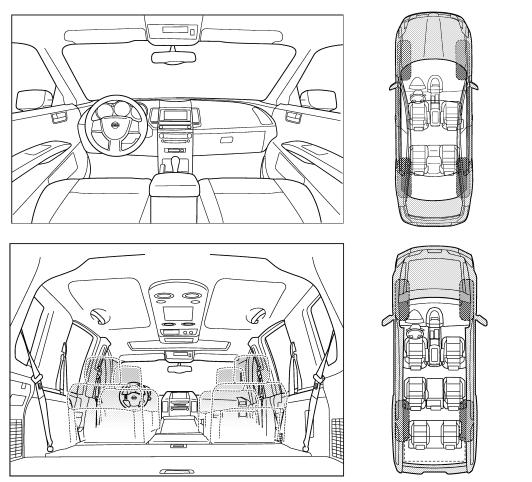
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please chec	k the boxes that apply)
 anytime 1st time in the morning only when it is cold outside only when it is hot outside 	 after sitting out in the rain when it is raining or wet dry or dusty conditions other:
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE
 through driveways over rough roads over speed bumps only about mph on acceleration coming to a stop on turns: left, right or either (circle) with passengers or cargo other: after driving miles or minutes 	 squeak (like tennis shoes on a clean floor) creak (like walking on an old wooden floor) rattle (like shaking a baby rattle) knock (like a knock at the door) tick (like a clock second hand) thump (heavy, muffled knock noise) buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair			
		me:	

< PRECAUTION > PRECAUTION PRECAUTIONS FOR MEXICO

FOR MEXICO : Precaution Necessary for Steering Wheel Rotation after Battery Disconnect INFOID:000000005716169

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 pro-F cedure 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. 4.
- When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn 5. 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.

FOR MEXICO : Precaution for Procedure without Cowl Top Cover

DLK INFOID:000000005716170

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

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FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:000000005716176

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

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< PRECAUTION >

- 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.
- FOR USA AND CANADA

FOR USA AND CANADA : Precaution Necessary for Steering Wheel Rotation after

Battery Disconnect

INFOID:000000005716168

NOTE:

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

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

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

OPERATION PROCEDURE

- 1. Connect both battery cables.
 - **NOTE:** Supply power using jumper cables if battery is discharged.
- 2. Turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

[WITH INTELLIGENT KEY SYSTEM]

FOR USA AND CANADA : Precaution for Procedure without Cowl Top Cover

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

FOR USA AND CANADA : 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 M battery, and wait at least 3 minutes before performing any service.
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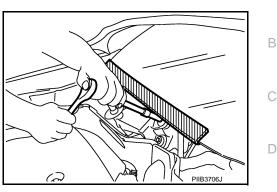
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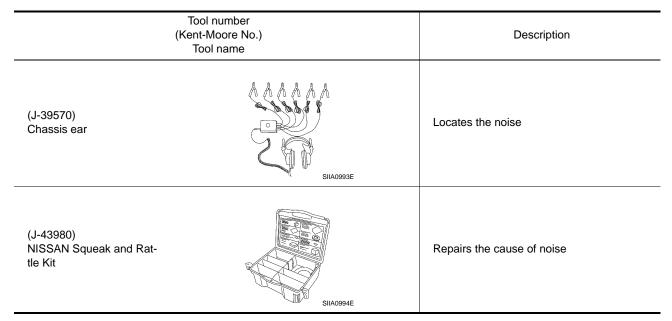


PREPARATION PREPARATION

Special Service Tools

INFOID:000000005517764

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



Commercial Service Tools

INFOID:000000005517765

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

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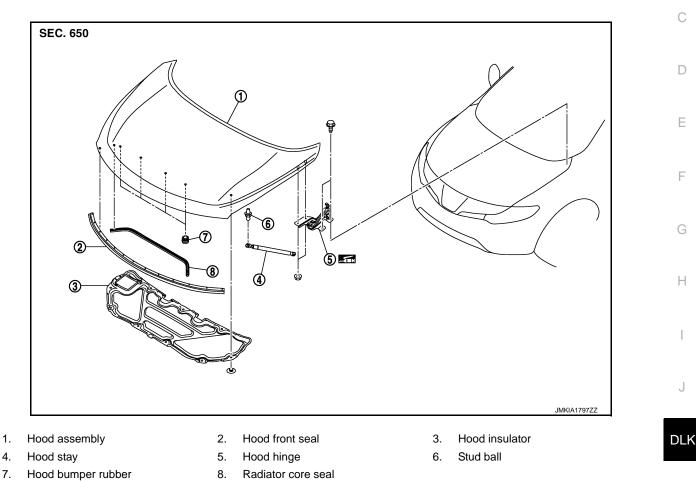
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INFOID:000000005517766

< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION** HOOD HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View



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

HOOD ASSEMBLY : Removal and Installation

REMOVAL

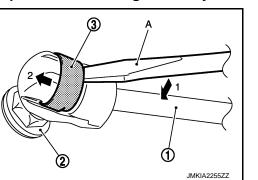
1.

4.

1. Support hood lock assembly with the proper material to prevent it from falling. WARNING:

Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.

- 2. Remove the metal clip (3) located on the connection between the hood stay (1) and the stud ball (2) (hood side), by using a flatted-blade screwdriver (A).
- 3. Disengage the stud ball from the hood stay (hood side).



INFOID:000000005517767

4. Remove hood hinge mounting nuts on the hood to remove the hood assembly. **CAUTION:** Perform work with 2 workers, because of its heavy weight.

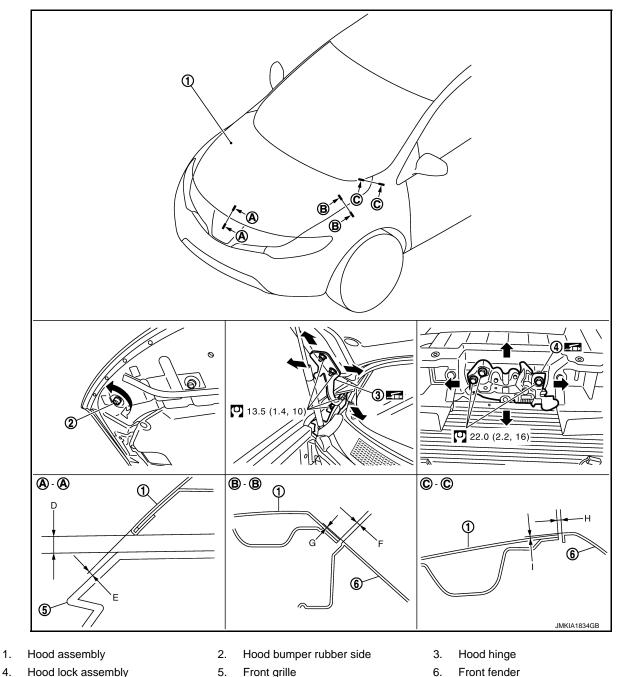
INSTALLATION

Install in the reverse order of removal. **CAUTION:**

- Perform work with 2 workers, because of its heavy weight.
- · Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to DLK-312, "HOOD ASSEMBLY : Adjustment".

HOOD ASSEMBLY : Adjustment

INFOID:000000005517768



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

Front fender

Revision: 2009 September

4.

HOOD

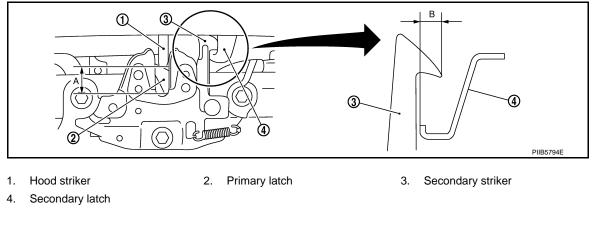
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Check the clearance and the surface height between hood and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures A shown below.

					Unit: mm (in)	
Portion			Standard	Difference (RH/LH)	В	
Hood – Front grille A –	A – A	D	Clearance	3.4 – 7.4 (0.134 – 0.291)	_	
	A-A	Ε	Surface height	- 1.4 - 2.6 (- 0.055 - 0.102)	_	С
B – B Hood – Front fender C – C	P _ P	F	Clearance	2.4 – 5.0 (0.094 – 0.197)	< 1.5 (0.059)	
	6-6	G	Surface height	- 1.3 - 1.3 (- 0.051 - 0.051)	—	D
	<u> </u>	н	Clearance	2.7 – 4.7 (0.106 – 0.185)	< 1.5 (0.059)	
	I	Surface height	- 1.4 - 1.4 (- 0.055 - 0.055)		E	

- 1. Remove hood lock and adjust the height by rotating hood bumper rubber side until hood becomes 1 to1.5 mm (0.039 to 0.059 in) lower than fender.
- 2. Temporarily tighten hood lock, and position by engaging it with hood striker. Check hood lock and striker for looseness and adjust the clearance and evenness with striker to satisfy the specification.
- 3. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately 200 mm (7.874 in) height or by pressing hood lightly [approximately 29 N (3.0 kg, 6.5lb)].



- A : 20.0 mm (0.787 in)
- B : 6.8 mm (0.268 in)

4. After adjustment tighten lock bolts to the specified torque. HOOD HINGE

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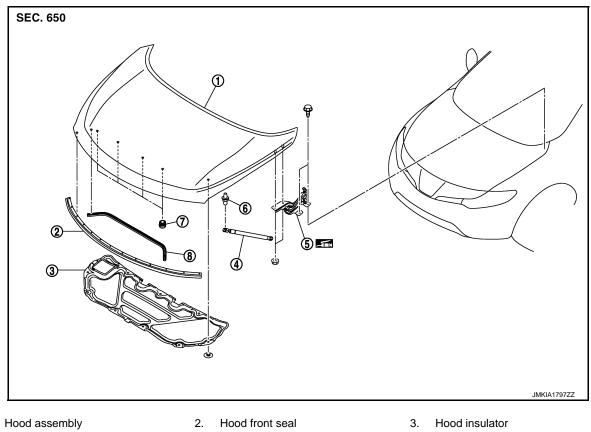
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< REMOVAL AND INSTALLATION > HOOD HINGE : Exploded View

INFOID:000000005517769



- 4. Hood stay
- 5. Hood hinge 8.
- 7. Hood bumper rubber

Radiator core seal

- 6. Stud ball

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

HOOD HINGE : Removal and Installation

INFOID:000000005517770

REMOVAL

1.

- Remove hood assembly. Refer to DLK-311, "HOOD ASSEMBLY : Removal and Installation". 1.
- Remove front fender. Refer to DLK-319, "Removal and Installation". 2.
- Remove hood hinge mounting bolts, and then remove hood hinge. 3.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- · Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- After installation, perform hood fitting adjustment. Refer to <u>DLK-312, "HOOD ASSEMBLY : Adjust-</u> <u>ment"</u>.

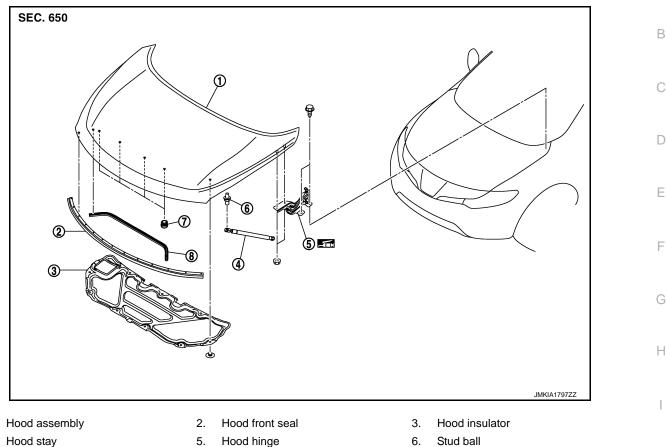
HOOD STAY

[WITH INTELLIGENT KEY SYSTEM]

< REMOVAL AND INSTALLATION > HOOD STAY : Exploded View

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- 4.
- Hood bumper rubber 7.

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Refer to GI-4, "Components" for symbols in the figure. HOOD STAY : Removal and Installation

REMOVAL

1.

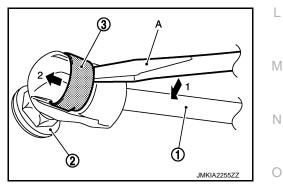
Remove the metal clip (3) located on the connection between 1. the hood stay (1) and the stud ball (2) (hood side), by using a flat-bladed screwdriver (A).

8.

Radiator core seal

- 2. Disengage the stud ball from the hood stay (hood side).
- 3. Repeat the same operation to disengage the stud ball from the hood stay (body side), then remove the hood stay.

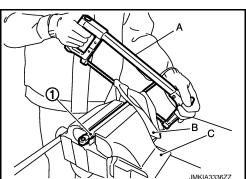
INSTALLATION Install in the reverse order of removal.

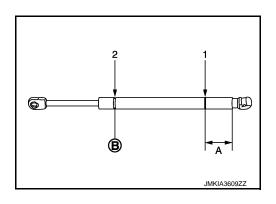


< REMOVAL AND INSTALLATION >

HOOD STAY : Disposal

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





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

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

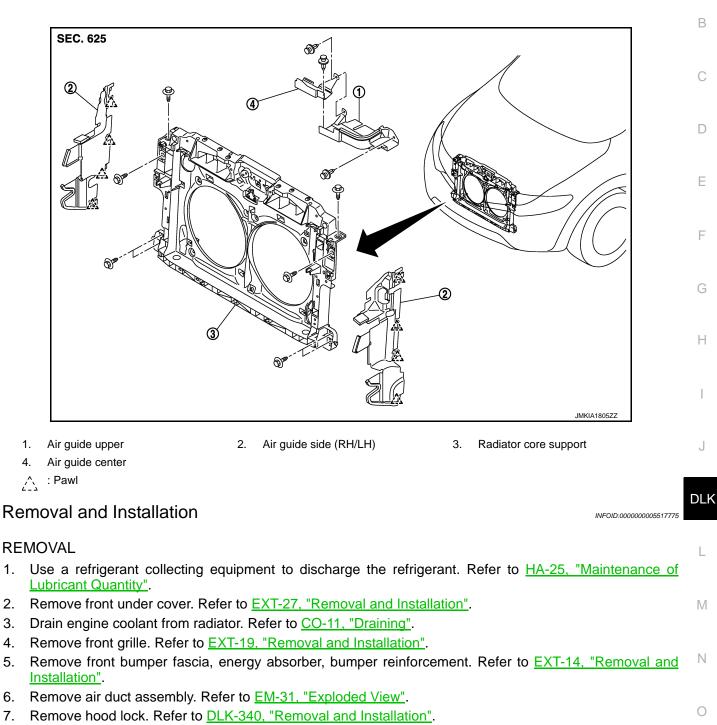
RADIATOR CORE SUPPORT

[WITH INTELLIGENT KEY SYSTEM]

Exploded View

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- Remove front combination lamp (RH/LH). Refer to EXL-180, "Removal and Installation" (XENON TYPE) 8. or EXL-363, "Removal and Installation" (HALOGEN TYPE).
- Disconnect connector of refrigerant pressure sensor. Refer to <u>HA-51, "Exploded View"</u>.
- 10. Remove bumper retainer assembly. Refer to EXT-14, "Removal and Installation".
- 11. Remove clips, and then remove air guide center and air guide upper.
- 12. Disengage harness clip from air guide side (RH).
- 13. Disengage pawls, and then remove air guide side (RH/LH).
- 14. Remove condenser. Refer to HA-49, "Removal and Installation".

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DLK-317

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

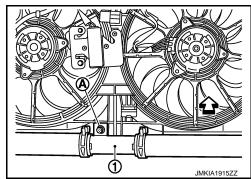
[WITH INTELLIGENT KEY SYSTEM]

15. Remove radiator and engine coolant reservoir tank. Refer to <u>CO-16. "Removal and Installation"</u>. CAUTION:

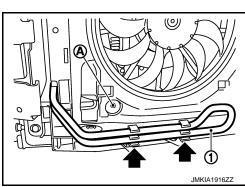
Operate with two workers, because of it is heavy weight.

- 16. Disconnect connectors of the following parts.
 - Ambient sensor. Refer to <u>VTL-26, "Removal and Installation"</u>.
 - Cooling fan (RH/LH) and cooling fan control module. Refer to CO-19, "Exploded View".
 - Crash zone sensor. Refer to <u>SR-21, "Removal and Installation"</u>.
- 17. Remove radiator upper hose from radiator core support. Refer to CO-16, "Exploded View".
- 18. Remove mounting bolt (A) of radiator lower hose bracket (1). Refer to <u>CO-16</u>, "Exploded View".

└□ : Vehicle front



- 19. Remove radiator lower hose clamp (A) from radiator core support.
- 20. Remove power steering oil cooler pipe (1) from radiator core support.
- 21. Remove power steering oil cooler pipe clips.
 - 🗭 : Clip



- 22. Remove all harness clips from radiator core support.
- 23. Remove mounting bolts, and then remove radiator core support. CAUTION:

Never damage power steering oil cooler pipe.

- 24. Remove the following parts after removing radiator core support.
 - Ambient sensor. Refer to <u>VTL-26, "Removal and Installation"</u>.
 - Cooling fan (RH/LH) and cooling fan control module. Refer to CO-19. "Exploded View".
 - Crash zone sensor. Refer to <u>SR-21, "Removal and Installation"</u>.

INSTALLATION

Install in the reverse order of removal.

FRONT FENDER

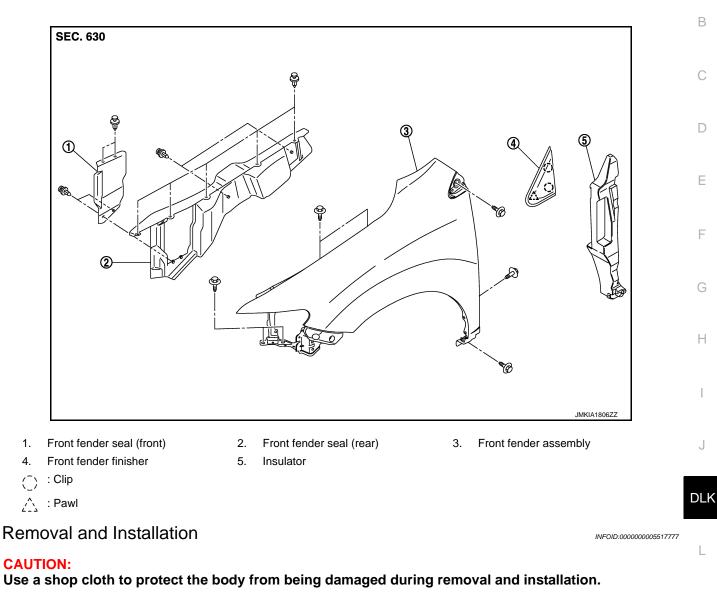
< REMOVAL AND INSTALLATION > FRONT FENDER

[WITH INTELLIGENT KEY SYSTEM]

Exploded View

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REMOVAL

- 1. Remove clips and remove front fender seal (front/rear).
- 2. Remove front grille. Refer to EXT-19, "Removal and Installation".
- 3. Remove front bumper fascia. Refer to EXT-14, "Removal and Installation".
- Remove front combination lamp. Refer to <u>EXL-180, "Removal and Installation"</u> (XENON TYPE), <u>EXL-363,</u> <u>"Removal and Installation"</u> (HALOGEN TYPE).
- 5. Remove fender protector. Refer to EXT-24, "FENDER PROTECTOR : Removal and Installation".

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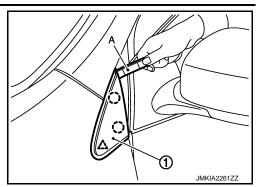
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FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- 6. Using remover tool (A), remove front fender finisher (1).
 - (^ˆ) : Clip△ : Pawl



- 7. Disengage front part of windshield glass molding from front fender.
- 8. Remove mounting bolts and remove front fender.

CAUTION: An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, peel of the urethane foam bit at a time, and carefully to remove it.

INSTALLATION

Install in the reverse order of removal. **CAUTION:**

- After installation, check front fender adjustment. Refer to <u>DLK-312, "HOOD ASSEMBLY : Adjust-ment"</u> and <u>DLK-322, "DOOR ASSEMBLY : Adjustment"</u>.
- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.

[WITH INTELLIGENT KEY SYSTEM]

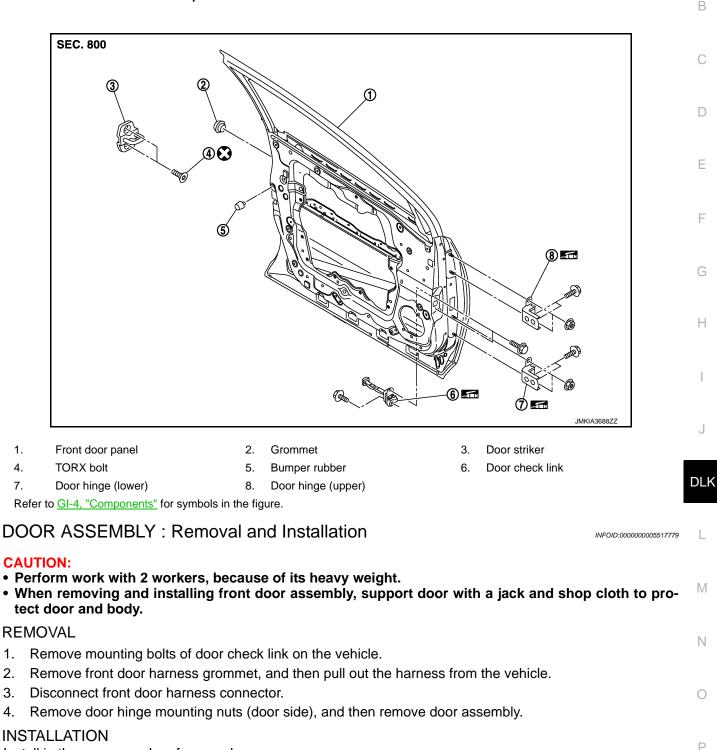
< REMOVAL AND INSTALLATION >

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

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Install in the reverse order of removal.

CAUTION:

2. 3.

4.

- Check front door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 After installation, perform the fitting adjustment. Refer to <u>DLK-322, "DOOR ASSEMBLY : Adjust-</u> ment".
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

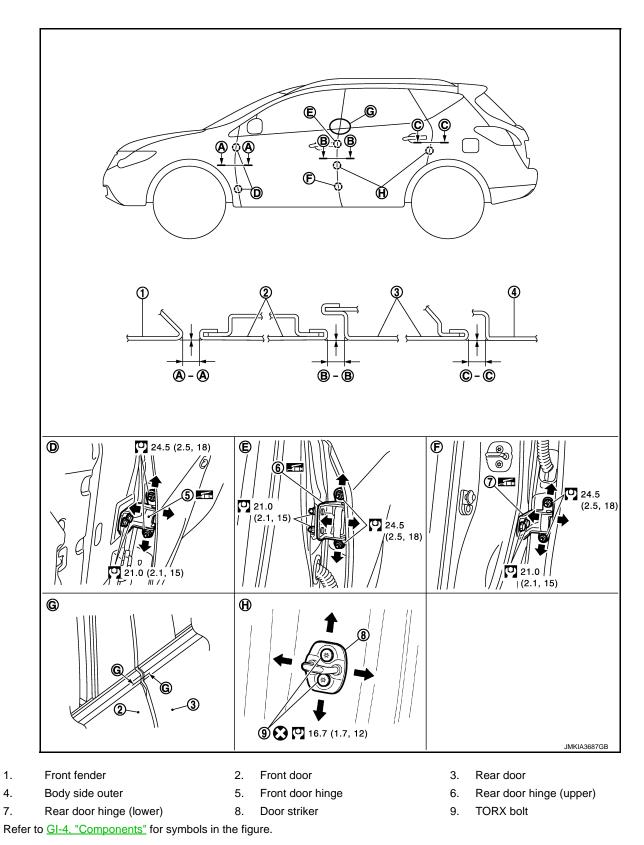
DLK-321

FRONT DOOR

[WITH INTELLIGENT KEY SYSTEM]

< REMOVAL AND INSTALLATION > DOOR ASSEMBLY : Adjustment

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Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

	Unit : mm (
Portion		Surface height	A
A – A	3.4 – 5.4 (0.134 – 0.213)	- 1.0 - 1.0 (- 0.039 - 0.039)	
B – B	3.4 – 5.4 (0.134 – 0.213)	- 1.0 - 1.0 (- 0.039 - 0.039)	В
G – G	2.9 – 5.9 (0.114 – 0.237)	- 1.5 - 1.5 (- 0.059 - 0.059)	
	B – B	B – B 3.4 – 5.4 (0.134 – 0.213)	A - A 3.4 - 5.4 (0.134 - 0.213) - 1.0 - 1.0 (- 0.039 - 0.039) B - B 3.4 - 5.4 (0.134 - 0.213) - 1.0 - 1.0 (- 0.039 - 0.039)

- 1. Remove front fender. Refer to <u>DLK-319</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. After adjustment tighten bolts and nuts to the specified torque.
- 8. Install front fender. Refer to refer to <u>DLK-319</u>, "Removal and Installation".

DOOR STRIKER ADJUSTMENT

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

DOOR STRIKER : Exploded View

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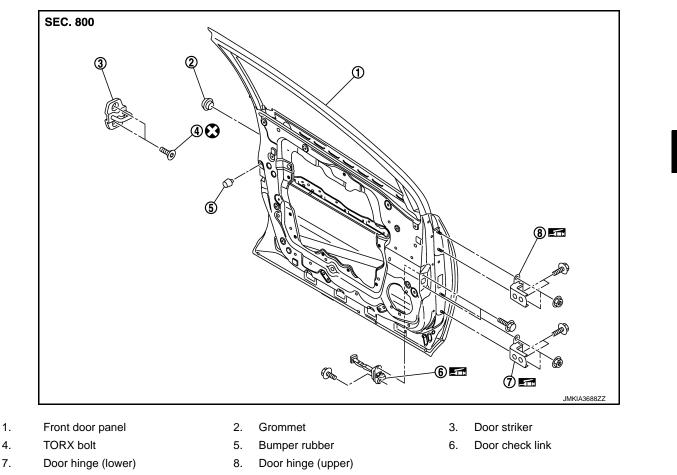
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Refer to <u>GI-4, "Components"</u> for symbols in the figure.

FRONT DOOR

< REMOVAL AND INSTALLATION >

DOOR STRIKER : Removal and Installation

[WITH INTELLIGENT KEY SYSTEM]

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

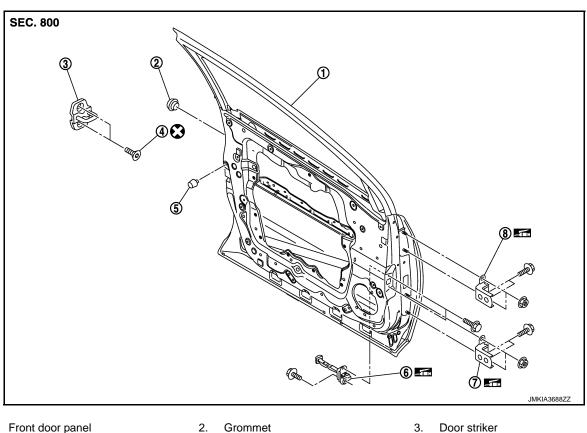
- Check front door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-322, "DOOR ASSEMBLY:</u> Adjustment".

DOOR HINGE

DOOR HINGE : Exploded View

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INFOID:000000005517782



6

Door check link

1. Front door panel

2. Grommet

4. TORX bolt

- 5. Bumper rubber
- 7. Door hinge (lower)
- 8. Door hinge (upper) Refer to GI-4, "Components" for symbols in the figure.

DOOR HINGE : Removal and Installation

REMOVAL

- 1. Remove front fender. Refer to <u>DLK-319</u>, "Removal and Installation".
- Remove front door assembly. Refer to DLK-321, "DOOR ASSEMBLY : Removal and Installation". 2.
- Remove front door hinge mounting bolts, and then remove front door hinge. 3.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check front door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

DLK-324

2010 Murano

INFOID:000000005517784

• After installation, perform the fitting adjustment. Refer to DLK-322, "DOOR ASSEMBLY : Adjustment".

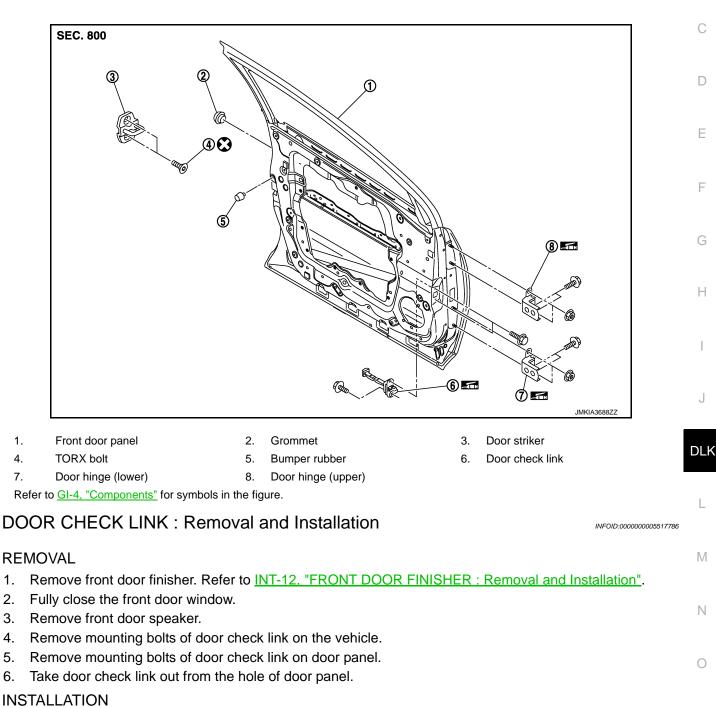
• After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts. DOOR CHECK LINK

DOOR CHECK LINK : Exploded View



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Install in the reverse order of removal.

CAUTION:

2.

5.

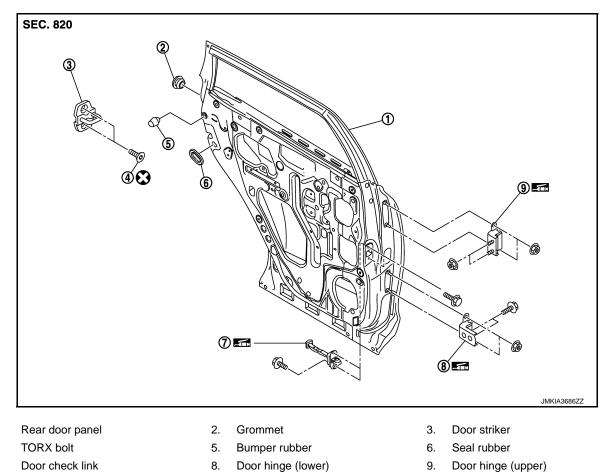
6.

Check front door open/close operation after installation.

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000005517787



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

DOOR ASSEMBLY : Removal and Installation

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CAUTION:

1.

4.

7.

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

- 1. Remove mounting bolts of door check link on the vehicle.
- 2. Remove rear door harness grommet, and then pull out door harness from the vehicle.
- 3. Disconnect rear door harness connector.
- 4. Remove door hinge mounting nuts (door side), and then remove rear door assembly.

INSTALLATION

Install in the reverse order of removal.

- CAUTION:
- Check rear door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-327, "DOOR ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

DLK-326

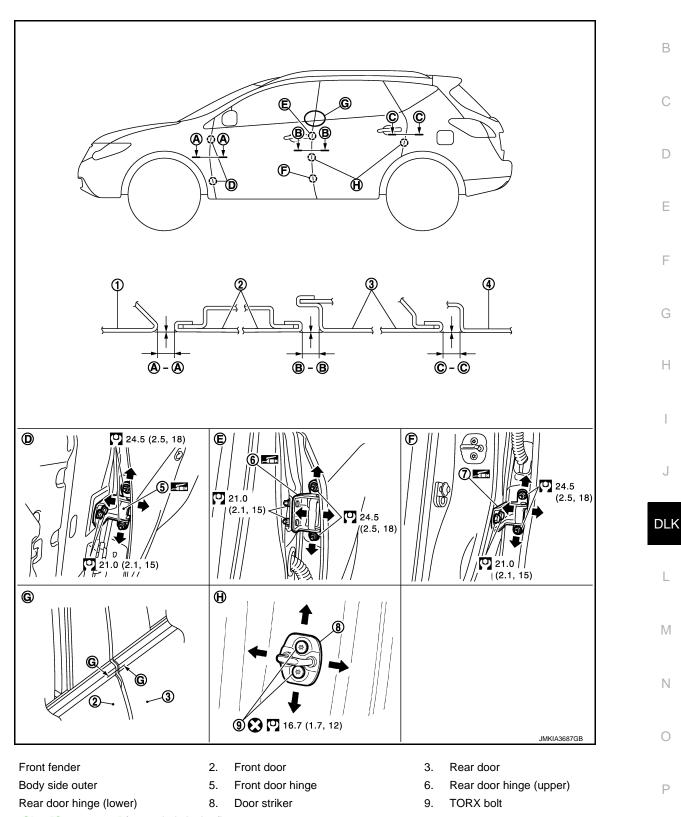
REAR DOOR

[WITH INTELLIGENT KEY SYSTEM]

< REMOVAL AND INSTALLATION > DOOR ASSEMBLY : Adjustment

INFOID:000000005517789

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

Check the clearance and surface height between rear door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

1.

4.

7.

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

			Unit: mm (in)	
Portion		Clearance	Surface height	
Front door – Rear door	B – B	3.4 – 5.4 (0.134 – 0.213)	-1.0 – 1.0 (-0.039 – 0.039)	
Rear door – Body side outer	C – C	3.4 – 5.4 (0.134 – 0.213)	-1.0 - 1.0 (-0.039 - 0.039)	
Front door – Rear door	G – G	2.9 – 5.9 (0.114 – 0.237)	-1.5 – 1.5 (-0.059 – 0.059)	

1. Remove center pillar lower garnish. Refer to INT-20, "Removal and Installation".

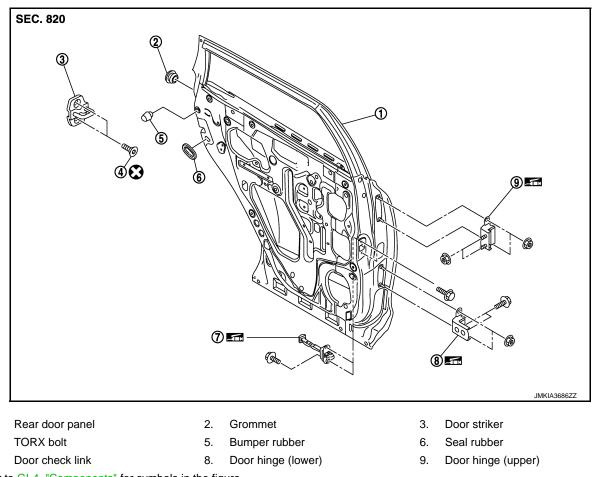
- 2. Loosen door hinge mounting nuts on door side.
- 3. Adjust the surface height of rear door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting nuts and bolts on body side.
- 6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
- 7. After adjustment tighten bolts and nuts to the specified torque.
- 8. Install center pillar lower garnish. Refer to INT-20, "Removal and Installation".

DOOR STRIKER ADJUSTMENT

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

DOOR STRIKER : Exploded View

INFOID:000000005517790



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

DOOR STRIKER : Removal and Installation

REMOVAL

1.

4.

7.

INFOID:000000005517791

Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check rear door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-327, "DOOR ASSEMBLY :</u> Adjustment".

DOOR HINGE

DOOR HINGE : Exploded View

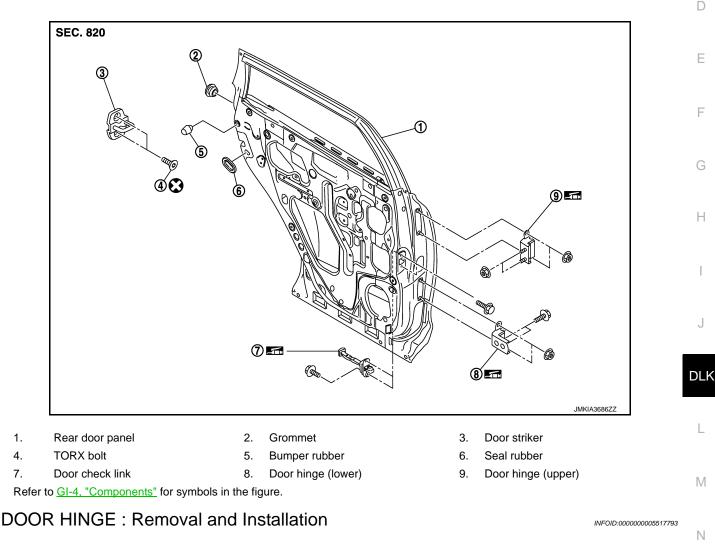




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INFOID:000000005517792



REMOVAL

1

4.

7.

- 1. Remove center pillar lower garnish. Refer to INT-20, "Removal and Installation".
- Remove rear door assembly. Refer to DLK-326, "DOOR ASSEMBLY : Removal and Installation". 2.
- Remove rear door hinge mounting bolts and nuts (body side), and then remove door hinge. 3.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

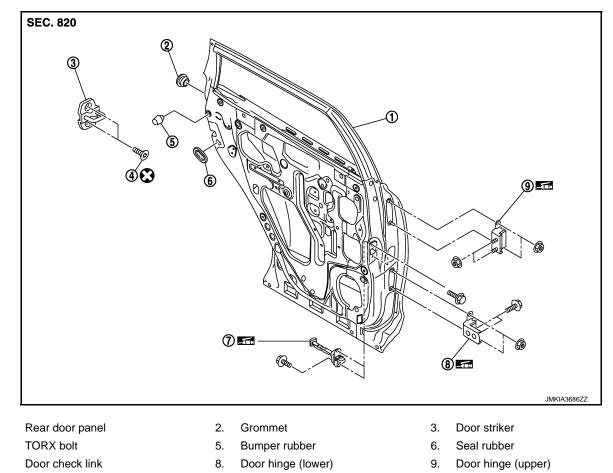
- Check rear door open/close operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing rear door assembly, perform the fitting adjustment. Refer to <u>DLK-327</u>. "DOOR ASSEMBLY : Adjustment".
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

DLK-329

< REMOVAL AND INSTALLATION > DOOR CHECK LINK

DOOR CHECK LINK : Exploded View

INFOID:000000005517794



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

DOOR CHECK LINK : Removal and Installation

REMOVAL

1.

4.

7.

- 1. Remove rear door finisher. Refer to INT-16, "REAR DOOR FINISHER : Removal and Installation".
- 2. Fully close the rear door window.
- 3. Remove rear door speaker.
- 4. Remove mounting bolts of the check link on the vehicle.
- 5. Remove mounting bolts of the check link on door panel.
- 6. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check rear door open/close operation after installation.

INFOID:000000005517795

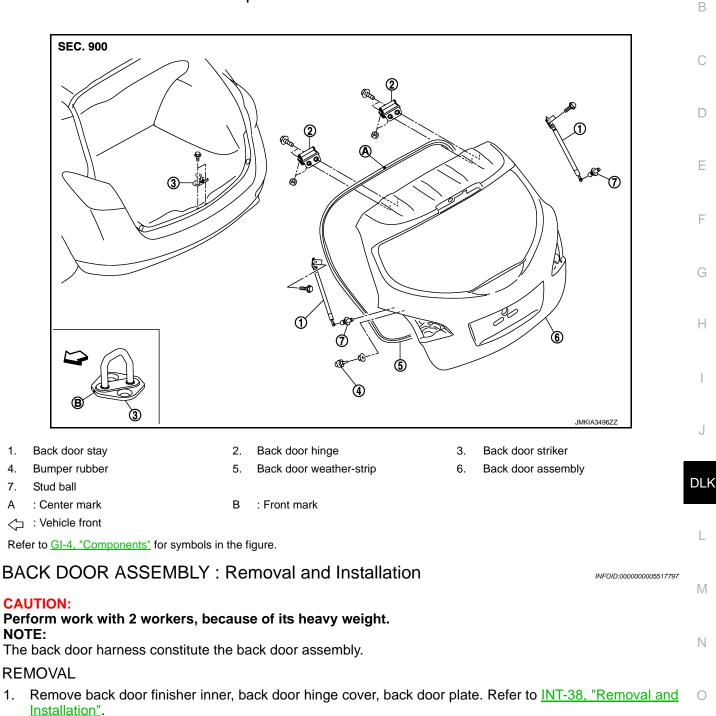
< REMOVAL AND INSTALLATION > BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000005517796

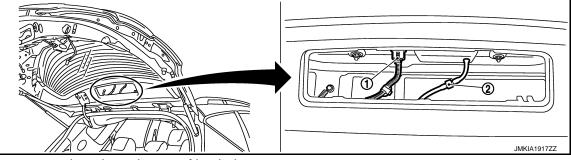
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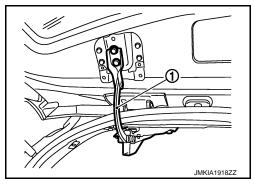
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Remove grommet, and then disconnect connector (1), and washer tube (2).



- 3. Pull harness and washer tube out of back door.
- 4. Support back door lock with the proper material to prevent it from falling.
- 5. Remove mounting bolts of power back door drive assembly (1). (back door side)



- 6. Remove back door stay on back door side. Refer to <u>DLK-337, "BACK DOOR STAY : Removal and Instal-</u> lation".
- 7. Remove back door hinge mounting bolts on back door and remove back door assembly.
- 8. Remove the following parts after removing back door assembly.
 - Bumper rubber
 - Stud ball
 - Back door lock assembly: Refer to DLK-353, "DOOR LOCK : Removal and Installation".
 - Touch sensor: Refer to DLK-356, "TOUCH SENSOR : Removal and Installation".
 - Patch: Refer to DLK-353, "DOOR LOCK : Exploded View".

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check back door open/close, lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to <u>DLK-333</u>, "<u>BACK DOOR ASSEMBLY</u> : <u>Adjust-ment</u>".

< REMOVAL AND INSTALLATION >

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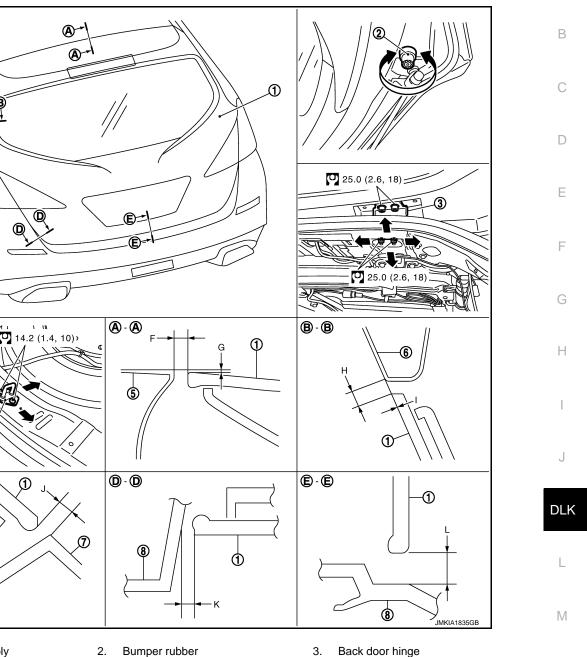
C C

BACK DOOR ASSEMBLY : Adjustment

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А

[WITH INTELLIGENT KEY SYSTEM]



6.

Body side outer

Back door assembly 1. 4. Back door striker

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© - ©

- Rear combination lamp 7.
- 5. Roof panel
- 8. Rear bumper fascia

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

Check the clearance and the surface height between back door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

					Unit: mm (in)
Portion			Standard	Difference (RH/LH)	
Back door – Roof	A – A	F	Clearance	5.0 - 9.0 (0.197 - 0.354)	_
	A-A	G	Surface height	-1.0 - 3.0 (-0.039 - 0.118)	—

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< REMOVAL AND INSTALLATION >

Portion			Standard	Difference (RH/LH)	
Back door – Rear fender	B – B	Н	Clearance	4.0 - 8.0 (0.157 - 0.315)	
		I	Surface height	-2.0 - 2.0 (-0.079 - 0.079)	_
Back door – Rear combination lamp	C – C	J	Clearance	4.0 - 8.0 (0.157 - 0.315)	< 2.0 (0.079)
Back door – Rear bumper fascia	D – D	Κ	Clearance	4.0 - 8.0 (0.157 - 0.315)	< 2.0 (0.079)
	E – E	L	Clearance	5.0 - 9.0 (0.197 - 0.354)	

1. Remove back door hinge cover. Refer to INT-38, "Removal and Installation".

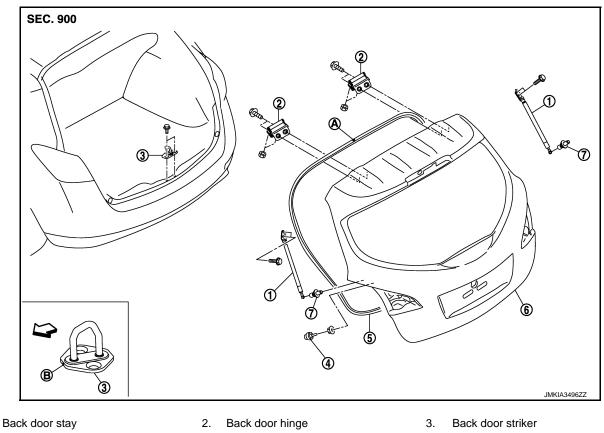
- 2. Loosen back door hinge mounting bolts (back door side).
- 3. Loosen bumper rubber.
- 4. Remove luggage rear plate mask. Refer to INT-35, "Removal and Installation".
- 5. Loosen back door striker mounting bolts.
- 6. Lift up back door approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with back door closed.
- 7. Check the clearance and surface height.
- 8. Finally tighten back door hinge, bumper rubber, and back door striker.
- 9. Install back door hinge cover and luggage rear plate mask. Refer to INT-38, "Removal and Installation" and INT-35, "Removal and Installation".

BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that becomes parallel with back door lock insertion direction. **BACK DOOR STRIKER**

BACK DOOR STRIKER : Exploded View

INFOID:000000005517799



- 1.
- 4 Bumper rubber

- Back door weather-strip 5.
- 6. Back door assembly

- 7. Stud ball
- A : Center mark

B : Front mark

: Vehicle front

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

< REMOVAL AND INSTALLATION >

BACK DOOR STRIKER : Removal and Installation

INFOID:000000005517800

INFOID:000000005517801

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1. Remove luggage rear plate. Refer to <u>INT-35, "Removal and Installation"</u>.

2. Remove mounting bolts, and then remove back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

REMOVAL

- Check back door open/close operation after installation.
- When removing and installing back door striker, be sure to perform the fitting adjustment. Refer to <u>DLK-333, "BACK DOOR ASSEMBLY : Adjustment"</u>.

BACK DOOR HINGE

BACK DOOR HINGE : Exploded View

SEC. 900 Н DLK T Μ ര **(5**) Ν JMKIA3496ZZ Back door stay Back door striker 2. Back door hinge 3. Bumper rubber 5. Back door weather-strip 6. Back door assembly Stud ball Ρ : Center mark : Front mark В

A : Center mark<□ : Vehicle front

1.

4.

7.

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

< REMOVAL AND INSTALLATION >

BACK DOOR HINGE : Removal and Installation

INFOID:000000005517802

REMOVAL

- 1. Remove back door assembly. Refer to DLK-331, "BACK DOOR ASSEMBLY : Removal and Installation".
- 2. Remove luggage side finisher lower and luggage side finisher upper. Refer to <u>INT-35, "Removal and</u> <u>Installation"</u>.
- 3. Using a remover tool, remove headlining clip at the rear side of headlining. Refer to <u>INT-26</u>, "<u>NORMAL</u> <u>ROOF : Exploded View</u>" (NORMAL ROOF), <u>INT-30</u>, "<u>SUNROOF : Exploded View</u>" (SUNROOF).
- 4. Remove rear side of headlining.
- 5. Remove power back door drive assembly. Refer to <u>DLK-354, "POWER BACK DOOR DRIVE ASSEMBLY</u> : <u>Removal and Installation"</u>.
- 6. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

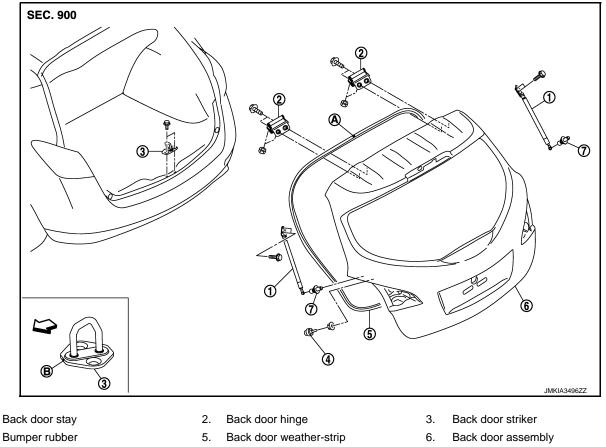
Install in the reverse order of removal. **CAUTION:**

- Check back door open/close operation after installation.
- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing back door assembly, perform the fitting adjustment. Refer to <u>DLK-333</u>, <u>"BACK DOOR ASSEMBLY : Adjustment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000005517803



Bumper rul
 Stud ball

1.

- A : Center mark

: Front mark

в

Revision: 2009 September

DLK-336

∠ : Vehicle front

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

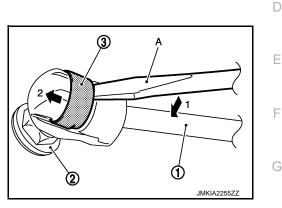
BACK DOOR STAY : Removal and Installation

REMOVAL

1. Support back door assembly with the proper material to prevent it from falling. **WARNING:**

Bodily injury may occur if no supporting rod is holding back door open when removing back door stay.

- 2. Remove mounting bolts of back door stay (body side).
- 3. Remove metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (back door side), by using a flat-bladed screwdriver (A).
- 4. Disengage and remove back door stay from stud ball (back door side).



INSTALLATION Install in the reverse order of removal. CAUTION:

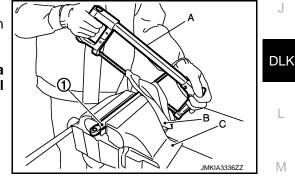
Check back door open/close operation after installation.

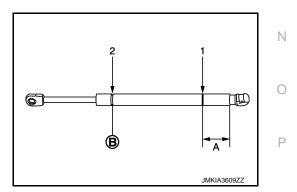
BACK DOOR STAY : Disposal

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

Revision: 2009 September

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





BACK DOOR WEATHER-STRIP

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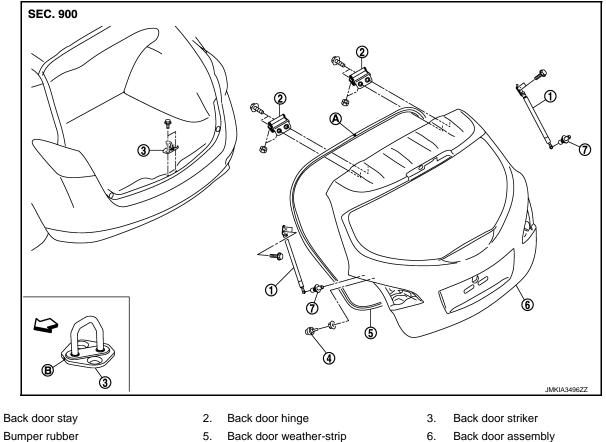
INFOID:000000005517804

< REMOVAL AND INSTALLATION >

BACK DOOR WEATHER-STRIP : Exploded View

INFOID:000000005517806

[WITH INTELLIGENT KEY SYSTEM]



- 4. Bumper rubber
- Stud ball 7.

1.

- : Center mark А
- : Vehicle front

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

BACK DOOR WEATHER-STRIP : Removal and Installation

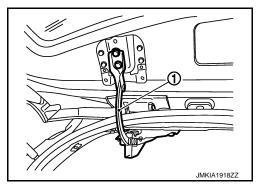
В

: Front mark

INFOID:000000005517807

REMOVAL

1. Remove mounting bolts of power back door drive assembly (1) (back door side).



2. Pull up and remove engagement with body from weather-strip joint. **CAUTION:**

Never pull strongly on weather-strip.

INSTALLATION

Working from the upper section, align weather-strip center mark (A) with vehicle center mark (cutting posi-1. tion) and install weather-strip onto the vehicle.

DLK-338

	BACK DOOR	
< F	REMOVAL AND INSTALLATION >	[WITH INTELLIGENT KEY SYSTEM]
2.	For the lower section, align weather-strip seam with center of b	ack door striker.
3.	Pull weather-strip gently to ensure that there is no loose section NOTE:	
	Make sure that weather-strip is fit tightly at each corner and lug	ggage rear plate.
4.	Install mounting bolts of power back door drive assembly (back	k door side).

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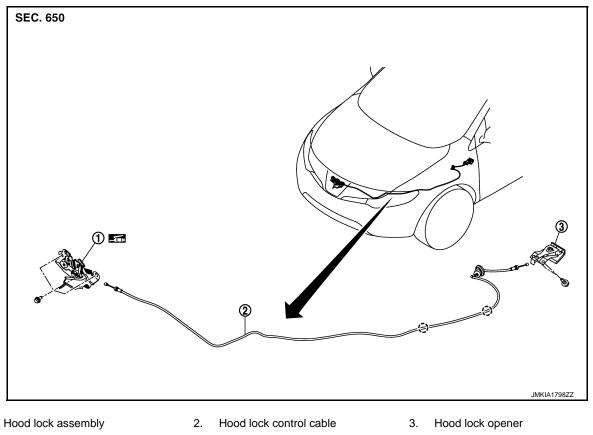
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< REMOVAL AND INSTALLATION > HOOD LOCK

Exploded View

INFOID:000000005517808



([^]) : Clip

1.

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

Removal and Installation

REMOVAL

CAUTION:

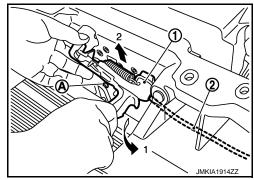
Check wiring of hood lock control before removal.

- 1. Remove front grille. Refer to EXT-19, "Removal and Installation".
- Remove mounting bolts, and then remove hood lock assembly (1).

NOTE:

Press the lever downward to avoid pin (A), then pull out hood lock assembly upward.

3. Disconnect hood lock cable (2) from hood lock assembly.



- 4. Remove instrument lower panel (LH). Refer to IP-13, "Removal and Installation".
- 5. Disconnect hood lock cable from instrument lower panel (LH).
- 6. Remove fender protector (LH). Refer to EXT-24, "FENDER PROTECTOR : Removal and Installation".
- 7. Remove hood lock cable clamp.

DLK-340

INFOID:000000005517809

HOOD LOCK

< REMOVAL AND INSTALLATION >

Remove grommet on the lower dash, and pull the hood lock control cable toward the passenger compartment. CAUTION:

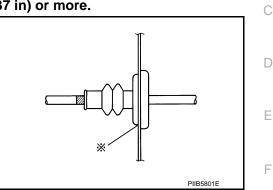
While pulling, never to damage (peeling) the outside of hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never to bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at * mark) properly.



[WITH INTELLIGENT KEY SYSTEM]

- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to <u>DLK-312</u>, "HOOD ASSEMBLY : Adjustment".
- After installation, perform hood lock control inspection. Refer to DLK-341, "Inspection".

Ins	spection	INFOID:000000005517810	
	TE: ne hood lock cable is bent or deformed, replace it.		I
1.	Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 weight.	in)] by hood	
2.	While operating hood opener, carefully check that the front end of hood is raised by approximm (0.787 in). Also check that hood opener returns to the original position.	oximately 20.0	J
3.	Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or below.		
4.	Install so that static closing face of hood is $94 - 490$ N·m ($9.6 - 50.0$ kg-m, $69 - 361$ ft – lb). NOTE:		DLK
	 Exert vertical force on right side and left side of hood lock. 		

- Never press simultaneously both sides.
- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

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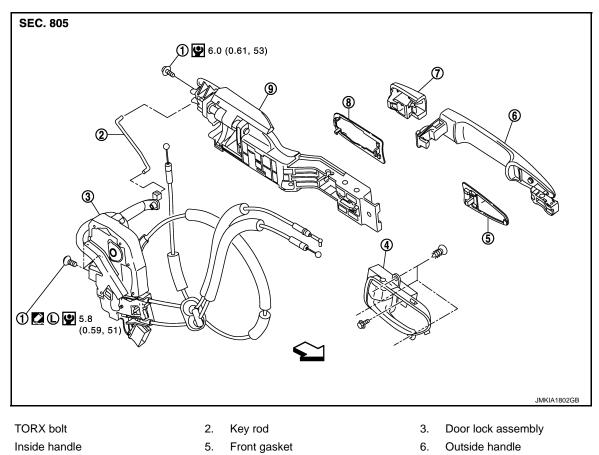
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[WITH INTELLIGENT KEY SYSTEM]

FRONT DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000005517811



9. Outside handle bracket

ger side)

side)

: Apply genuine high strength thread locking sealant or equivalent.

8.

Rear gasket

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

Door key cylinder assembly (driver

Outside handle escutcheon (passen-

DOOR LOCK : Removal and Installation

INFOID:000000005517812

REMOVAL

1.

4.

7.

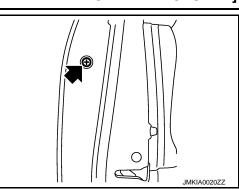
- 1. Remove front door finisher. Refer to INT-12, "FRONT DOOR FINISHER : Removal and Installation".
- 2. Remove front door glass. Refer to GW-19, "Removal and Installation".
- 3. Remove front door module assembly. Refer to <u>GW-22, "Removal and Installation"</u>.
- 4. Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

 Remove door side grommet, and loosen TORX bolt from grommet hole.
 CAUTION: Never forcibly remove TORX bolt.

[WITH INTELLIGENT KEY SYSTEM]



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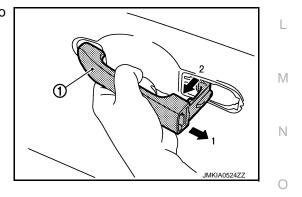
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JMKIA0560ZZ

- 6. Reach in to separate door key rod connection (on the handle) (driver side).
 - 1. Door key cylinder assembly
 - 2. Key rod

7. While pulling outside handle, remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).

8. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

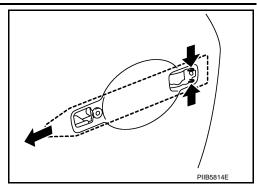


9. Remove front gasket and rear gasket.

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

10. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



- 11. Reach in to separate outside handle cable connection on outside handle bracket.
- 12. Remove door lock assembly TORX bolts.
- 13. Disconnect door lock actuator connector, and then remove door lock assembly.
- 14. Remove key rod from door lock assembly.

INSTALLATION

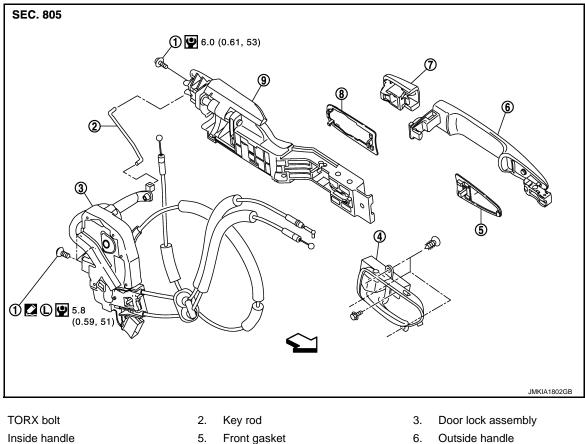
Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate rod holder until a click is felt.
- Check door open/close, lock/unlock operation after installation. **INSIDE HANDLE**

INSIDE HANDLE : Exploded View

INFOID:000000005517813



7. Door key cylinder assembly (driver 8. side) Outside handle escutcheon (passenger side)

- Outside handle bracket 9.

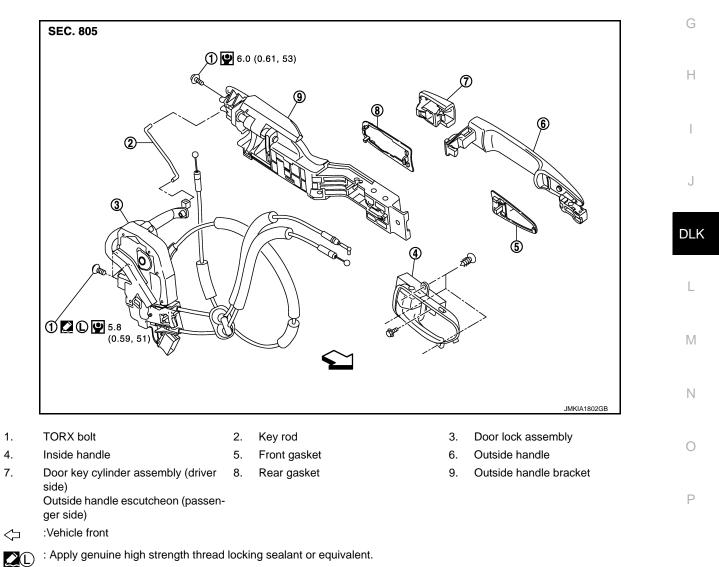
1.

4.

Rear gasket

< REMOVAL AND INSTALLATION >	[WITH INTELLIGENT KEY SYSTEM]
✓→ :Vehicle front	
: Apply genuine high strength thread locking sealant or equivalent.	A
Refer to <u>GI-4, "Components"</u> for symbols in the figure.	
INSIDE HANDLE : Removal and Installation	INFOID:000000005517814
REMOVAL 1. Remove front door finisher. Refer to <u>INT-12, "FRONT DOOR F</u> 2. Demove incide headle mounting economy	CINISHER : Removal and Installation".
 Remove inside handle mounting screws. Disconnect inside handle cable, and then remove the inside handle cable. 	andle. D
INSTALLATION Install in the reverse order of removal. CAUTION: Check door open/close, lock/unlock operation after installation OUTSIDE HANDLE	n.
	F

OUTSIDE HANDLE : Exploded View



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

INFOID:000000005517815

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

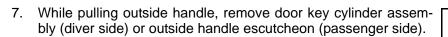
OUTSIDE HANDLE : Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to INT-12, "FRONT DOOR FINISHER : Removal and Installation".
- 2. Remove front door glass. Refer to GW-19, "Removal and Installation".
- 3. Remove front door module assembly. Refer to <u>GW-19, "Removal and Installation"</u>.
- Disconnect door antenna and door request switch connector and remove harness clamp (models with 4. Intelligent Key system) on outside handle bracket.
- Remove door side grommet, and loosen TORX bolt from grom-5. met hole. **CAUTION:**

Never forcibly remove TORX bolt.

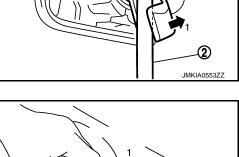
- Reach in to separate door key rod connection (on the handle) 6. (driver side).
 - 1. Door key cylinder assembly
 - 2. Key rod



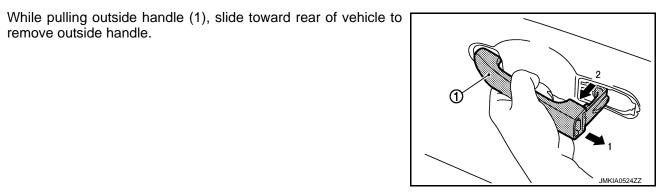
remove outside handle.

8.





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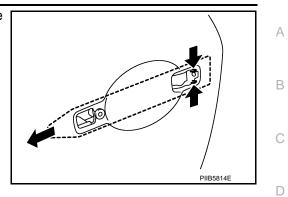


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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

10. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



11. Reach in to separate outside handle cable connection on outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate rod holder until a click is felt.
- Check door open/close, lock/unlock operation after installation.



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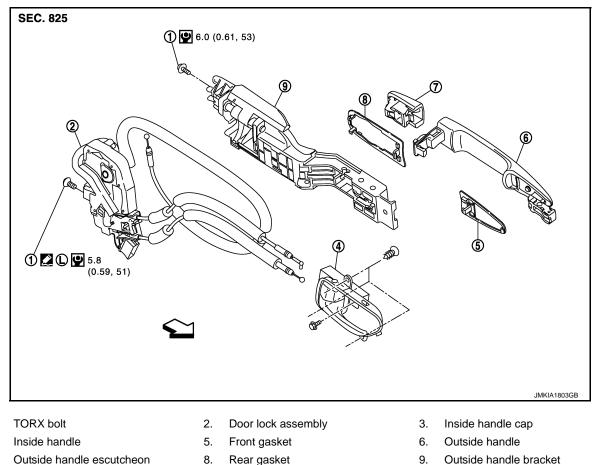
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[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000005517817



7. Outside handleC : Vehicle front

: Apply genuine high strength thread locking sealant or equivalent.

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

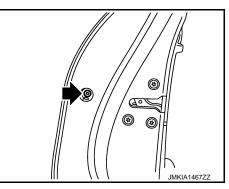
DOOR LOCK : Removal and Installation

REMOVAL

1.

4.

- 1. Fully close rear door glass.
- 2. Remove rear door finisher. Refer to INT-16, "REAR DOOR FINISHER : Removal and Installation".
- 3. Remove sealing screen. Refer to <u>GW-25, "Removal and Installation"</u>.
- 4. Remove door side grommet, and loosen TORX bolt from grommet hole.



INFOID:000000005517818

Revision: 2009 September

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

5. While pulling outside handle, remove outside handle escutcheon.

6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

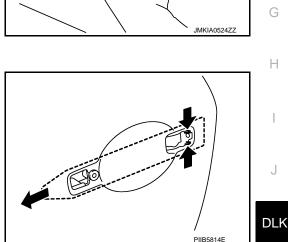
- 7. Remove front gasket and rear gasket.
- 8. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.

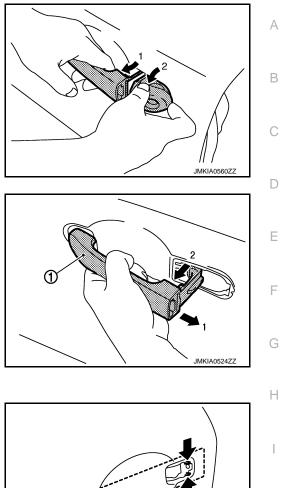
- 9. Reach in to separate outside handle cable connection on outside handle bracket.
- 10. Disconnect harness connector from door lock actuator.
- 11. Remove door lock mounting bolts.
- 12. Remove door lock assembly.

INSTALLATION

Install in the reverse order of removal. **CAUTION:** Check door open/close, lock/unlock operation after installation.

INSIDE HANDLE





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[WITH INTELLIGENT KEY SYSTEM]

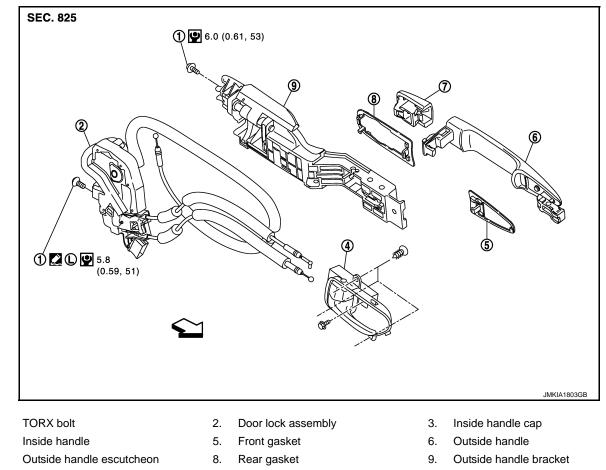
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

INSIDE HANDLE : Exploded View

INFOID:000000005517819

[WITH INTELLIGENT KEY SYSTEM]



: Apply genuine high strength thread locking sealant or equivalent.

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

INSIDE HANDLE : Removal and Installation

INFOID:000000005517820

REMOVAL

1.

4.

7.

- 1. Remove rear door finisher. Refer to INT-16, "REAR DOOR FINISHER : Removal and Installation".
- 2. Remove inside handle mounting screws.
- 3. Disconnect inside handle cable, and then remove inside handle.

INSTALLATION

Install in the reverse order of removal. **CAUTION: Check door open/close, lock/unlock operation after installation.** OUTSIDE HANDLE

Revision: 2009 September

REAR DOOR LOCK

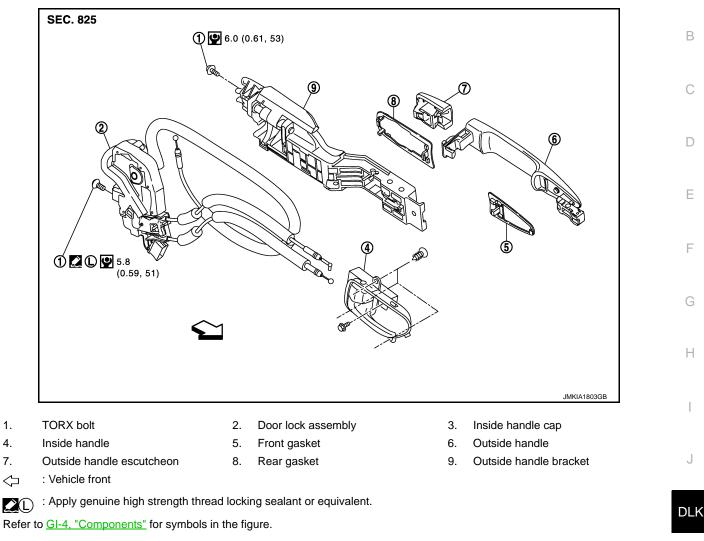
< REMOVAL AND INSTALLATION >

OUTSIDE HANDLE : Exploded View

[WITH INTELLIGENT KEY SYSTEM]

INFOID:000000005517821

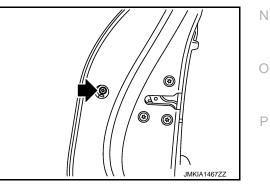
А



OUTSIDE HANDLE : Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-16, "REAR DOOR FINISHER : Removal and Installation".
- 2. Fully close rear door glass.
- 3. Remove sealing screen. Refer to <u>GW-25, "Removal and Installation"</u>.
- Remove door side grommet, and loosen TORX bolt from grommet hole.



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REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

5. While pulling outside handle, remove outside handle escutcheon.

6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

- 7. Remove front gasket and rear gasket.
- 8. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.

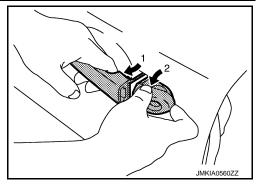
9. Reach in to separate outside handle cable connection on outside handle bracket.

INSTALLATION

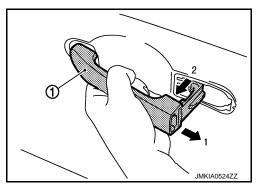
Install in the reverse order of removal.

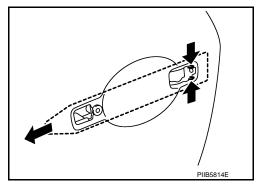
CAUTION:

Check door open/close, lock/unlock operation after installation.



[WITH INTELLIGENT KEY SYSTEM]





[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000005517823

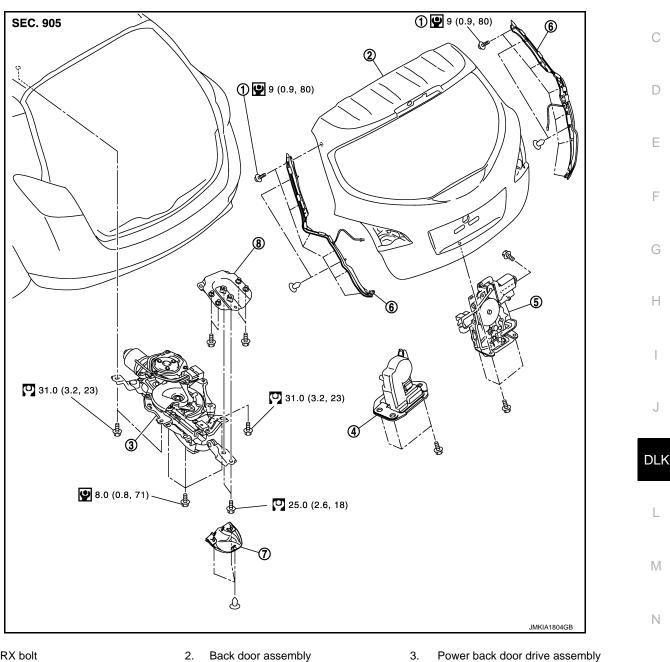
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TORX bolt 1.

4.

- 2. Back door assembly
 - 3. Back door lock assembly (super lock) 6.
 - Touch sensor (RH/LH)

Cover 8. Patch 7.

Back door lock assembly (normal)

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

DOOR LOCK : Removal and Installation

REMOVAL

Remove back door finisher inner. Refer to INT-38, "Removal and Installation". 1.

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- 2. Disconnect back door lock assembly and back door opener switch connectors.
- Remove back door lock mounting bolts, and then remove back door lock assembly. 3.

DLK-353

INFOID:000000005517824

INSTALLATION

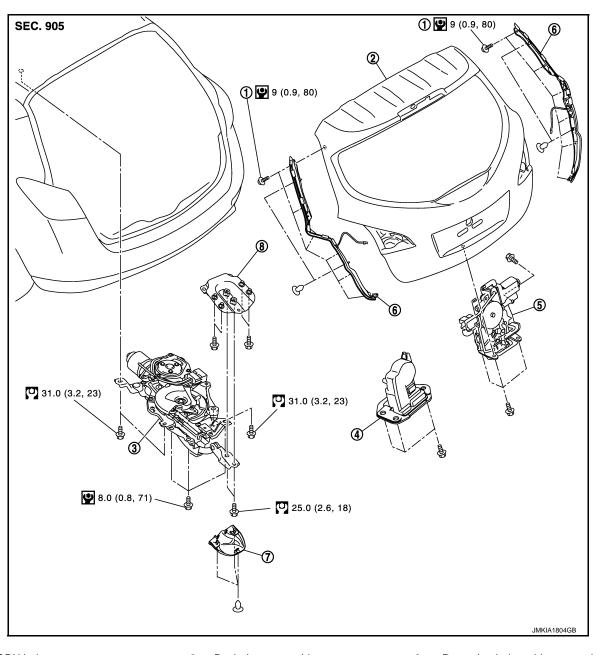
Install in the reverse order of removal.

CAUTION:

Check back door open/close, lock/unlock operation after installation. POWER BACK DOOR DRIVE ASSEMBLY

POWER BACK DOOR DRIVE ASSEMBLY : Exploded View

INFOID:000000005517825



TORX bolt 1.

- Back door assembly 2.
- 3. Power back door drive assembly
 - Touch sensor (RH/LH)

4. Back door lock assembly (normal) 5.

- Back door lock assembly (super lock) 6.

Cover 7.

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

POWER BACK DOOR DRIVE ASSEMBLY : Removal and Installation

Patch

8.

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REMOVAL

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

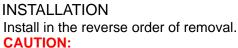
- Remove headlining. Refer to INT-27, "NORMAL ROOF : Removal and Installation" (NORMAL ROOF), 1. INT-30, "SUNROOF : Removal and Installation" (SUNROOF).
- 2. Disconnect power back door drive assembly connector.
- 3. Remove mounting bolts of power back door drive assembly (1) (back door side).

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[WITH INTELLIGENT KEY SYSTEM]

4. Remove mounting bolts of power back door drive assembly (1) (body side), and then remove power back door drive assembly. CAUTION:

Remove the bolts of power back door drive assembly referring to figure.



- Install the bolts of power back door drive assembly in the reverse order of removal.
- Check back door open/close operation after installation.

TOUCH SENSOR

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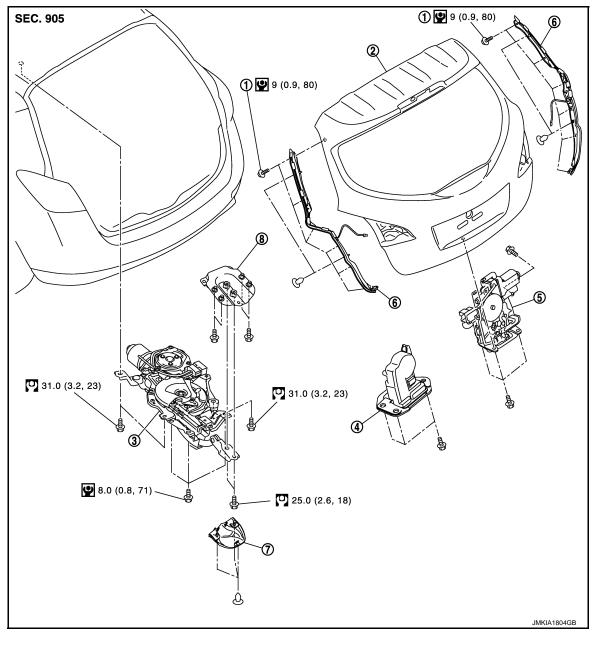
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TOUCH SENSOR : Exploded View

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[WITH INTELLIGENT KEY SYSTEM]



1. TORX bolt

- 2. Back door assembly
- 4. Back door lock assembly (normal)
- Back door lock assembly (super lock) 6. Patch

5.

8.

- 3. Power back door drive assembly
- 6. Touch sensor (RH/LH)

7. Cover

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

TOUCH SENSOR : Removal and Installation

CAUTION:

Take care not to bend touch sensor.

REMOVAL

- 1. Remove back door finisher inner. Refer to INT-38, "Removal and Installation".
- 2. Disconnect touch sensor connector.

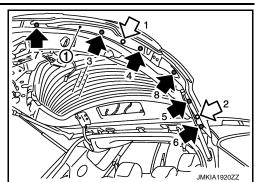
INFOID:000000005517828

Revision: 2009 September

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3. Remove clips and TORX bolts touch sensor (1). CAUTION: Remove the TORX bolts (black arrow) and c

Remove the TORX bolts (black arrow) and clips (white arrow) of touch sensor referring to figure.



[WITH INTELLIGENT KEY SYSTEM]

4	Pull harness of touch sensor out of back door and remove touch sensor.
-	STALLATION
	tall in the reverse order of removal.
	UTION:
	nstall the clips and TORX bolts of touch sensor in the reverse order of removal.
	lever place back door side seal between touch sensor.
• 0	check back door open/close operation after installation.

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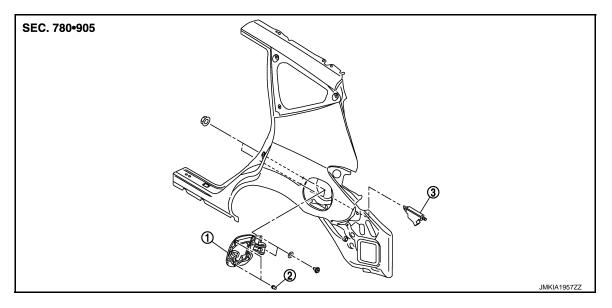
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FUEL FILLER LID OPENER

Exploded View

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INFOID:000000005517830



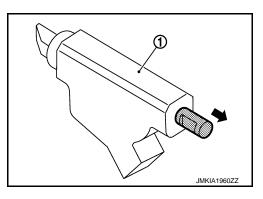
- 1. Fuel filler lid assembly
- 2. Bumper rubber
- 3. Fuel filler lid opener actuator

[WITH INTELLIGENT KEY SYSTEM]

Removal and Installation

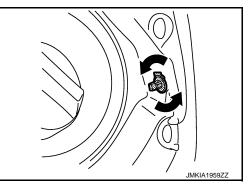
NOTE:

When fuel filler lid opener actuator is a defective operation, pull the rod to open fuel filler lid.



REMOVAL

- 1. Remove filler cap.
- 2. Remove mounting screws (A), and then remove fuel filler lid (1).
- 3. Remove luggage side finisher lower (LH). Refer to INT-35, "Removal and Installation".
- 4. Locate fuel filler lid opener actuator, and then remove the fuel filler lid opener actuator.



INSTALLATION Install in the reverse order of removal. CAUTION:

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

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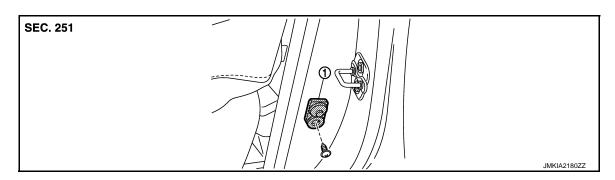
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< REMOVAL AND INSTALLATION > DOOR SWITCH

Exploded View

INFOID:000000005517831

INFOID:000000005517832

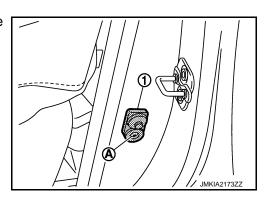


1. Door switch

Removal and Installation

REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).



[WITH INTELLIGENT KEY SYSTEM]

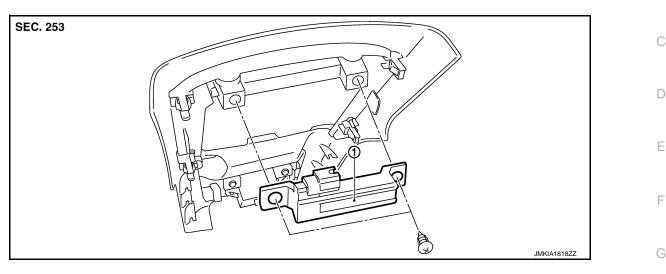
INSTALLATION Install in the reverse order of removal.

INSIDE KEY ANTENNA CONSOLE

CONSOLE : Exploded View

INFOID:000000005517835

[WITH INTELLIGENT KEY SYSTEM]

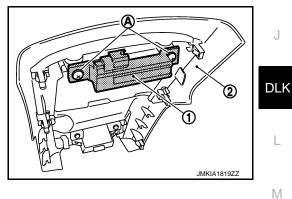


1. Inside key antenna (console)

CONSOLE : Removal and Installation

REMOVAL

- 1. Remove the console pocket and rear finisher. Refer to IP-21, "Removal and Installation".
- Remove the inside key antenna mounting screw (A), and then remove inside key antenna (console) (1) from console rear finisher (2).



INSTALLATION Install in the reverse order of removal. LUGGAGE ROOM

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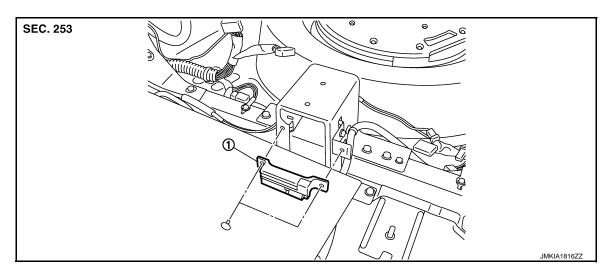
INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM : Exploded View

INFOID:000000005517837

INFOID:000000005517838

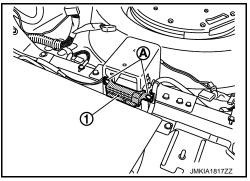


1. Inside key antenna (luggage room)

LUGGAGE ROOM : Removal and Installation

REMOVAL

- 1. Remove the luggage floor finisher front. Refer to INT-35, "Removal and Installation".
- Remove the inside key antenna (luggage room) mounting clip (A), and then remove inside key antenna (luggage room) (1).



OUTSIDE KEY ANTENNA

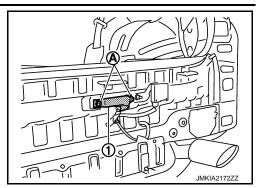
< REMOVAL AND INSTALLATION >	[WITH INTELLIGENT KEY SYSTEM]
OUTSIDE KEY ANTENNA	
DRIVER SIDE	A
DRIVER SIDE : Exploded View	INFOID:00000005517839
Refer to DLK-323, "DOOR STRIKER : Exploded View".	
DRIVER SIDE : Removal and Installation	INFOID:00000005517840
REMOVAL Remove the front outside handle LH. Refer to <u>DLK-346, "OUTSIDE I</u> INSTALLATION Install in the reverse order of removal. PASSENGER SIDE	HANDLE : Removal and Installation".
PASSENGER SIDE : Exploded View	INFOID:00000005517841
Refer to DLK-323, "DOOR STRIKER : Exploded View".	F
PASSENGER SIDE : Removal and Installation	INFOID:00000005517842
REMOVAL	G
Remove the front outside handle RH. Refer to <u>DLK-346. "OUTSIDE</u>	HANDLE : Removal and Installation".
INSTALLATION Install in the reverse order of removal.	H
REAR BUMPER	
REAR BUMPER : Exploded View	INFOID:00000005517843
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SEC. 253	
	JMKIA2179ZZ
1. Outside key antenna (rear bumper)	N
REAR BUMPER : Removal and Installation	INFOID:00000005517844
REMOVAL1. Remove the rear bumper. Refer to <u>EXT-16, "Removal and Instal</u>	lation". C
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OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

 Remove the outside key antenna (rear bumper) mounting nuts (A), and then remove outside key antenna (rear bumper) (1).

[WITH INTELLIGENT KEY SYSTEM]



INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

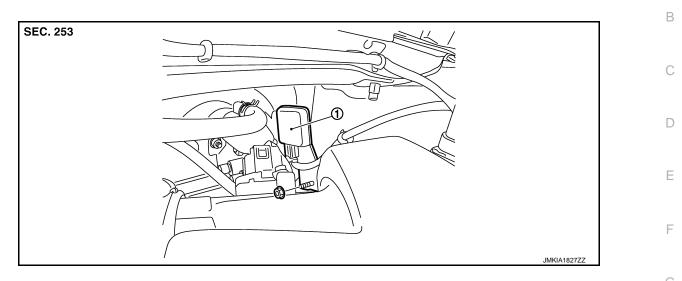
INTELLIGENT KEY WARNING BUZZER

Exploded View

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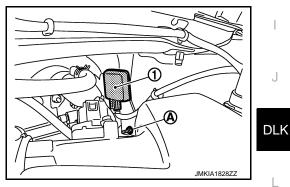


1. Intelligent Key warning buzzer

Removal and Installation

REMOVAL

1. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



INSTALLATION Install in the reverse order of removal.

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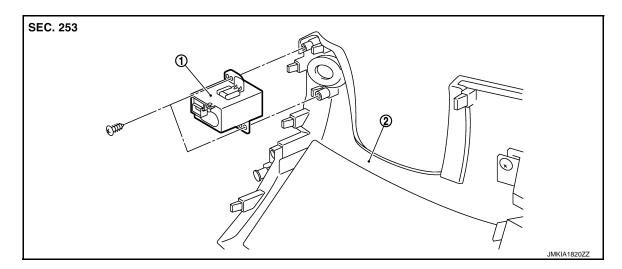


< REMOVAL AND INSTALLATION >

KEY SLOT

Exploded View

INFOID:000000005517847



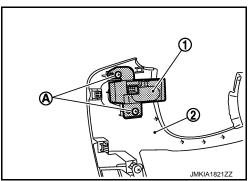
1. Key slot

Removal and Installation

INFOID:000000005517848

REMOVAL

- 1. Remove the instrument lower panel LH (2). Refer to IP-13. "Removal and Installation".
- 2. Disconnect key slot connector.
- 3. Remove the key slot mounting screw (A), and then remove key slot (1) from instrument lower panel LH (2).



INSTALLATION Install in the reverse order of removal.

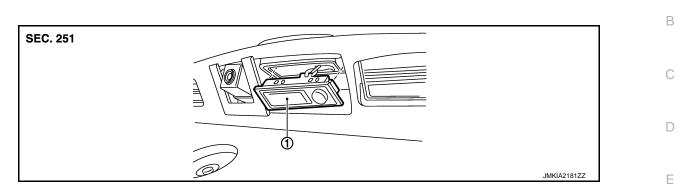
BACK DOOR OPENER SWITCH ASSEMBLY < REMOVAL AND INSTALLATION > [WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER SWITCH ASSEMBLY

Exploded View

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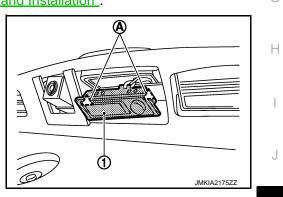
1. Back door opener switch assembly

Removal and Installation

INFOID:000000005517850

REMOVAL

- 1. Remove the back door finisher inner. Refer to INT-38, "Removal and Installation".
- 2. Remove the back door opener switch assembly (1), and then remove pawl.



INSTALLATION Install in the reverse order of removal.

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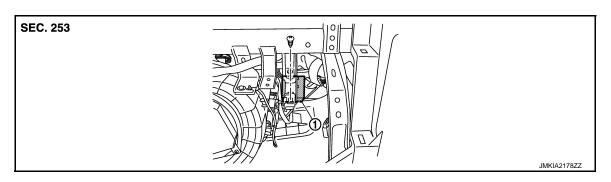
REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

REMOTE KEYLESS ENTRY RECEIVER

Exploded View

INFOID:000000005517851



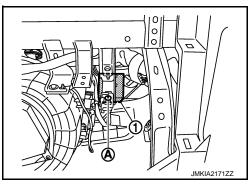
1. Remote keyless entry receiver

Removal and Installation

INFOID:000000005517852

REMOVAL

- 1. Remove the instrument lower panel RH. Refer to IP-13, "Removal and Installation".
- 2. Remove the remote keyless entry receiver mounting bolt (A), and then remove remote keyless entry receiver (1).



[WITH INTELLIGENT KEY SYSTEM]

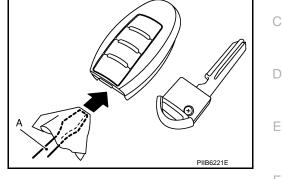
INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY BATTERY

Removal and Installation

- 1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
- Insert a flat-blade screwdriver (A) wrapped with a cloth into the 2. slit of the corner and twist it to separate the upper part from the lower part. **CAUTION:**
 - Do not touch the circuit board or battery terminal.
 - The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.

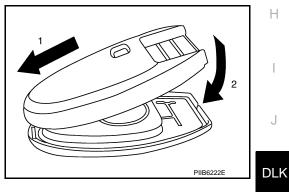


Replace the battery with new one. 3.

Battery replacement

:Coin-type lithium battery (CR2025)

- Align the tips of the upper and lower parts, and then push them 4. together until it is securely closed. **CAUTION:**
 - · When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
 - After replacing the battery, check that all Intelligent Key functions work normally.



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[WITH INTELLIGENT KEY SYSTEM]

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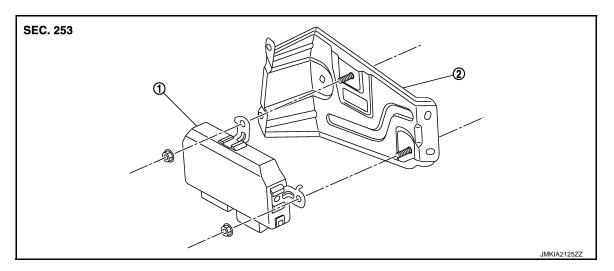
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AUTOMATIC BACK DOOR CONTROL UNIT < REMOVAL AND INSTALLATION > [WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CONTROL UNIT

Exploded View

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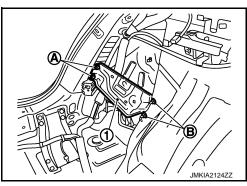
1. Automatic back door control unit 2. Automatic back door control unit bracket

Removal and Installation

INFOID:000000005517855

REMOVAL

- 1. Remove the luggage side finisher lower (RH). Refer to INT-35, "Removal and Installation".
- 2. Remove the automatic back door control unit bracket mounting bolt (A) and nats (B), and then remove the automatic back door control unit bracket.



3. Remove the automatic back door control unit mounting bolt, and then remove the automatic back door control unit.

INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing back door control unit, perform additional service when replace control unit. Refer to <u>DLK-13.</u> <u>"ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"</u>.

AUTOMATIC BACK DOOR WARNING BUZZER

< REMOVAL AND INSTALLATION >

AUTOMATIC BACK DOOR WARNING BUZZER

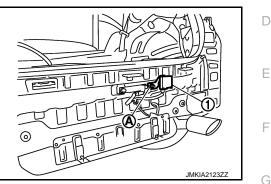
Exploded View

Refer to EXT-16, "Exploded View".

Removal and Installation

REMOVAL

- 1. Remove the rear bumper. Refer to EXT-16, "Removal and Installation".
- Remove the automatic back door warning buzzer mounting nut (A), and then remove the automatic back door warning buzzer (1).



[WITH INTELLIGENT KEY SYSTEM]

INSTALLATION Install in the reverse order of removal.



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AUTOMATIC BACK DOOR MAIN SWITCH

< REMOVAL AND INSTALLATION >

AUTOMATIC BACK DOOR MAIN SWITCH

Exploded View

Refer to IP-12, "Exploded View".

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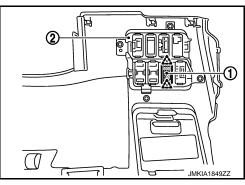
INFOID:000000005517859

Removal and Installation

REMOVAL

- 1. Remove the instrument driver lower panel LH. Refer to IP-13, "Removal and Installation".
- 2. Widen the pawl, and remove the automatic back door main switch (1) from switch bracket (2).

<u>And Pawl</u>



[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CLOSE SWITCH < REMOVAL AND INSTALLATION > [WITH INTELLIGENT KEY SYSTEM] AUTOMATIC BACK DOOR CLOSE SWITCH

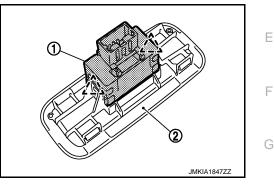
Exploded View

Refer to INT-38, "Exploded View".

REMOVAL

- 1. Remove the automatic back door close switch finisher. Refer to INT-38, "Removal and Installation".
- 2. Widen the pawl, and remove the automatic back door close switch (1) from automatic back door close switch finisher (2).

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へ: Pawl



INSTALLATION Install in the reverse order of removal.

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< REMOVAL AND INSTALLATION >

AUTOMATIC BACK DOOR SWITCH

Exploded View

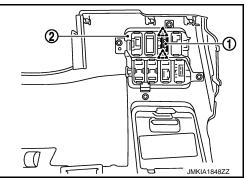
Refer to IP-12, "Exploded View".

Removal and Installation

REMOVAL

- 1. Remove the instrument driver lower panel. Refer to IP-13, "Removal and Installation".
- Widen the pawl, and remove the automatic back door switch (1) from automatic back door switch finisher (2).

<u>∕_`</u>: Pawl



INSTALLATION Install in the reverse order of removal.