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< PRECAUTION >

PRECAUTION PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

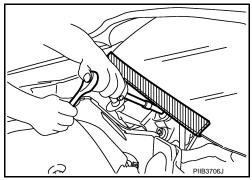
Always observe the following items for preventing accidental activation.

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

Precaution for Procedure without Cowl Top Cover

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



Precautions For Xenon Headlamp Service

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WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector.

PRECAUTIONS

< PRECAUTION >

- (Turning it ON outside the lamp case may cause fire or visual impairments.)
- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

CAUTION:

- Comply with the following cautions to prevent any error and malfunction.
- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
 NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

• For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch. **NOTE:**

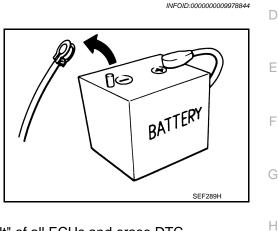
If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

• After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC. **NOTE:**

The removal of 12V battery may cause a DTC detection error.

Work

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operational.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.



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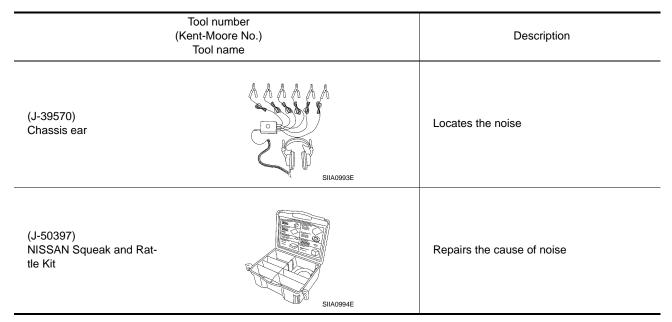
< PREPARATION >

PREPARATION PREPARATION

Special Service Tools

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



Commercial Service Tools

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

PREPARATION

< PREPARATION >

	Tool name	Description	
Power tool			
	PIIB1407E		
Hook and pick tool	JMJA0490ZZ	Press tumbler stopper	

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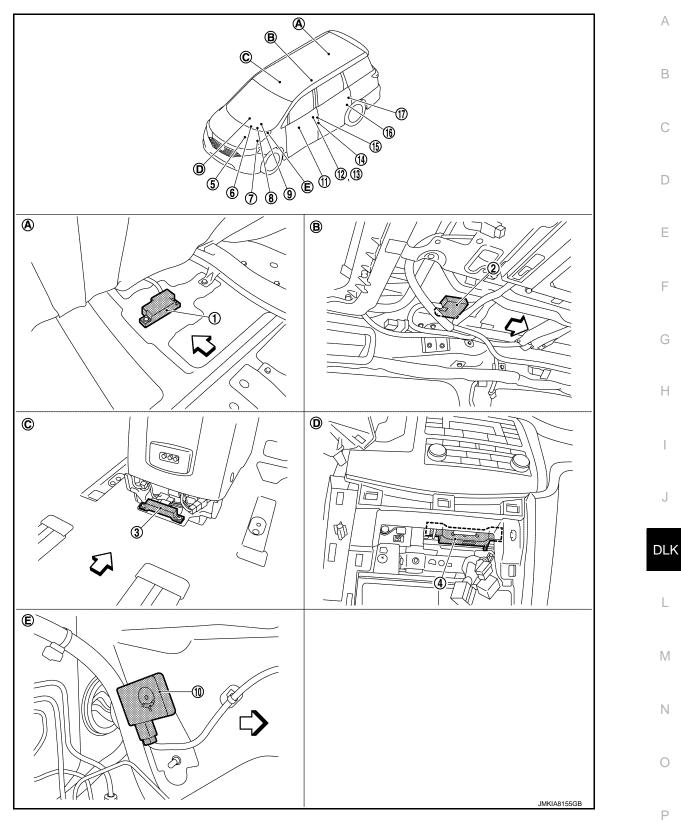
SYSTEM DESCRIPTION >
SYSTEM DESCRIPTION
COMPONENT PARTS
DOOR LOCK SYSTEM

DOOR LOCK SYSTEM : Component Parts Location

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Front View

< SYSTEM DESCRIPTION >



- A. View with luggage room finisher re- B. moved
- View with roof finisher removed
- C. View with center console assembly removed

- D. View with cluster lid C removed
- E. Engine room LH

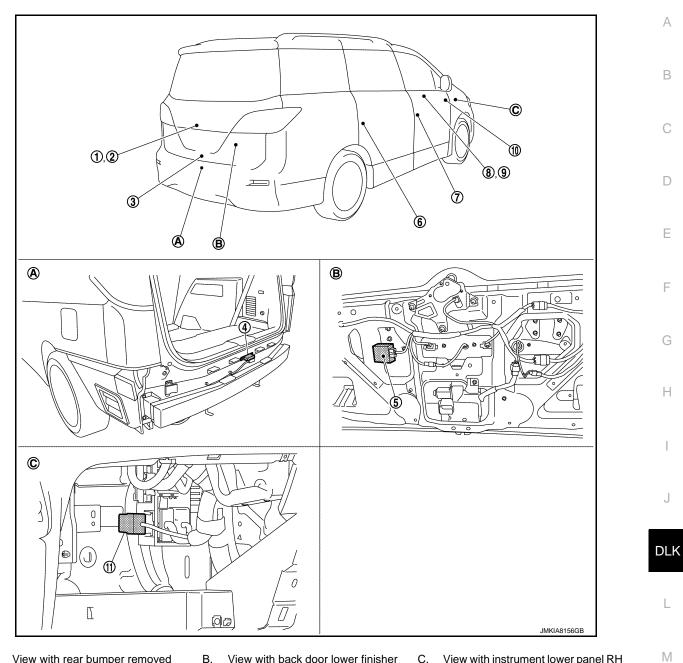
Revision: 2014 May

< SYSTEM DESCRIPTION >

No.	Component	Function
1.	Inside key antenna (luggage room)	DLK-27, "Inside Key Antenna"
2.	Remote keyless entry receiver	DLK-27, "Remote Keyless Entry Receiver"
3.	Inside key antenna (console)	DLK-27, "Inside Key Antenna"
4.	Inside key antenna (instrument center)	DLK-27, "Inside Key Antenna"
5.	тсм	Transmits shift position signal to BCM via CAN communication line Refer to <u>TM-10, "CVT CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location
6.	Push-button ignition switch	 Inputs push-button ignition switch ON/OFF condition to BCM Inputs power switch ON/OFF condition to BCM Refer to <u>SEC-6, "Component Parts Location"</u> for detailed installation location
7.	IPDM E/R	Sounds horn via CAN communication between BCM Refer to <u>PCS-4, "IPDM E/R : Component Parts Location"</u> for detailed installation loca- tion
8.	ВСМ	 BCM detects the vehicle status according to signals from each door switch, each outside/inside key antenna, and unlock sensor. BCM transmits drive signal to door lock actuator when BCM receives operation signal from remote keyless entry receiver and each switch Inputs back door open request signal to back door control unit Refer to <u>BCS-4, "BODY CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location
9.	Combination meter	 Displays each operation method guide and warning for system malfunction Performs operation method guide and warning with buzzer Transmits vehicle speed signal to CAN communication line Refer to <u>MWI-6, "METER SYSTEM : Component Parts Location"</u> for detailed installation location
10.	Intelligent Key warning buzzer	DLK-28. "Intelligent Key Warning Buzzer"
11.	Door lock and unlock switch (driver side)	DLK-28, "Door Lock and Unlock Switch (Driver Side)"
12.	Front door outside handle assembly LH (outside key antenna)	DLK-27, "Front Door Outside Handle Assembly (Outside Key Antenna)"
13.	Front door request switch (driver side)	DLK-28. "Front Door Request Switch"
14.	Front door switch (driver side)	DLK-28, "Front Door Switch"
15.	Front door lock assembly (driver side)	DLK-28, "Front Door Lock Assembly (Driver Side)"
16.	Sliding door switch LH	DLK-31, "Sliding Door Switch"
17.	Sliding door lock assembly LH	DLK-31, "Sliding Door Lock Assembly"

Rear View

< SYSTEM DESCRIPTION >



- View with rear bumper removed Α.
- В. View with back door lower finisher C. View with instrument lower panel RH removed removed

No.	Component	Function	Ν
1.	Back door opener switch	DLK-29, "Back Door Opener Switch"	
2.	Back door request switch	DLK-29, "Back Door Request Switch"	\cap
3.	Back door lock assembly	DLK-29, "Back Door Lock Assembly (Without Automatic Back Door System)"	0
4.	Outside antenna (rear bumper)	DLK-27, "Outside Key Antenna (Rear Bumper)"	
5.	Back door control unit	DLK-29, "Back Door Control Unit (Without Automatic Back Door System)"	Ρ
6.	Sliding door switch RH	DLK-31, "Sliding Door Switch"	
7.	Front door switch (passenger side)	DLK-28, "Front Door Switch"	
8.	Front door outside handle assembly RH (outside key antenna)	DLK-27, "Front Door Outside Handle Assembly (Outside Key Antenna)"	
9.	Front door request switch (passen- ger side)	DLK-28, "Front Door Request Switch"	

Revision: 2014 May

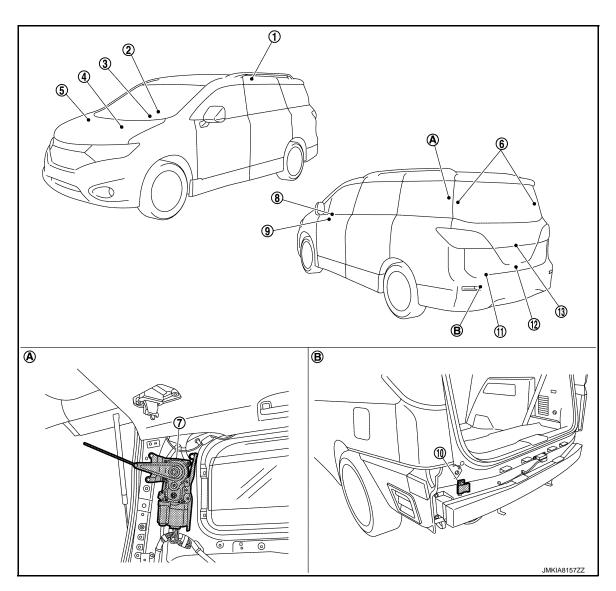
< SYSTEM DESCRIPTION >

No.	Component	Function
10.	Door lock and unlock switch (pas- senger side)	DLK-28, "Door Lock and Unlock Switch (Passenger Side)"
11.	Selective unlock relay	DLK-29, "Selective Unlock Relay"

AUTOMATIC BACK DOOR SYSTEM

AUTOMATIC BACK DOOR SYSTEM : Component Parts Location

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A. View with luggage side upper finish- B. View with rear bumper removed er removed

No.	Component	Function
1.	Remote keyless entry receiver	Receives Intelligent Key operation and transmits to BCM Refer to <u>DLK-18, "DOOR LOCK SYSTEM : Component Parts Location"</u> for detailed in- stallation location
2.	Combination meter	Transmits vehicle speed signal to CAN communication line Refer to <u>MWI-6, "METER SYSTEM : Component Parts Location"</u> for detailed installa- tion location
3.	BCM	Transmits and receives signal to the automatic back door control module Refer to <u>BCS-4, "BODY CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location

< SYSTEM DESCRIPTION >

No.	Component	Function
4.	ТСМ	Transmits shift position signal to BCM via CAN communication line Refer to <u>TM-10, "CVT CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location
5.	ABS actuator and electric unit	Transmits vehicle speed signal to CAN communication line Refer to <u>BRC-9</u> , "Component Parts Location" for detailed installation location
6.	Back door touch sensor LH/RH	DLK-30, "Back Door Touch Sensor"
7.	Automatic back door control mod- ule	DLK-30, "Automatic Back Door Control Module"
8.	Automatic back door switch	DLK-30, "Automatic Back Door Switch"
9.	Automatic door main switch	DLK-30, "Automatic Door Main Switch"
10.	Automatic back door warning buzzer	DLK-30, "Automatic Back Door Warning Buzzer"
11.	Automatic back door close switch	DLK-30, "Automatic Back Door Close Switch"
12.	Back door lock assembly	DLK-30, "Back Door Lock Assembly (With Automatic Back Door System)"
13.	Automatic back door opener switch	DLK-30, "Automatic Back Door Opener Switch"

AUTOMATIC SLIDING DOOR SYSTEM : Component Parts Location

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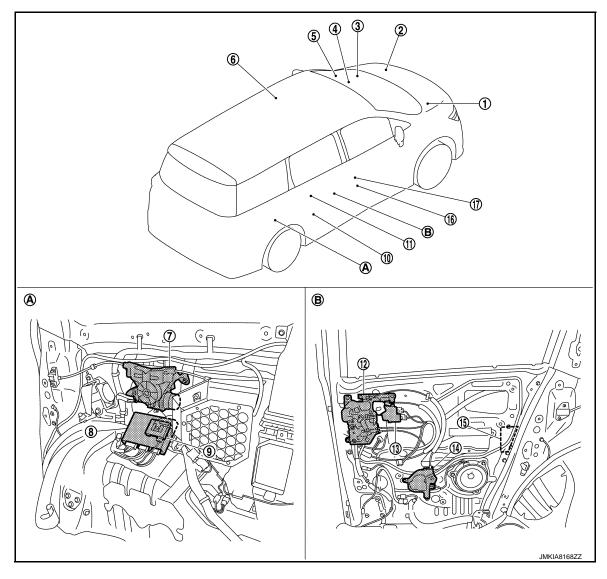
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< SYSTEM DESCRIPTION >



A. View with luggage side lower finisher B. View with sliding door finisher RH re-RH removed moved

No.	Component	Function
1.	ABS actuator and electric unit	Transmits vehicle speed signal to sliding door control unit via CAN communication line Refer to <u>BRC-9, "Component Parts Location"</u> for detailed installa- tion location
2.	тсм	Transmits shift position signal to sliding door control unit via CAN communication line Refer to <u>TM-10, "CVT CONTROL SYSTEM : Component Parts Lo-</u> <u>cation"</u> for detailed installation location
3.	ВСМ	Transmits ignition switch ON signal, automatic sliding door operate request signal and sleep wake up signal to sliding door control unit via CAN communication line Refer to <u>BCS-4</u> , " <u>BODY CONTROL SYSTEM</u> : <u>Component Parts</u> <u>Location</u> " for detailed installation location
4.	Combination meter	Transmits vehicle speed signal to sliding door control unit via CAN communication line Refer to <u>MWI-6. "METER SYSTEM : Component Parts Location"</u> for detailed installation location

< SYSTEM DESCRIPTION >

No.	Comp	ponent	Function
5.	Automatic sliding door open/close switch (driver side)		DLK-30, "Automatic Sliding Door Open/Close Switch"
6.	Remote keyless entry rec	eiver	Receives Intelligent Key operation and transmits to BCM Refer to <u>DLK-18, "DOOR LOCK SYSTEM : Component Parts Lo-</u> <u>cation"</u> for detailed installation location
		Encoder	
7.	Automatic sliding door	Clutch	DLK-30, "Automatic Sliding Door Unit"
	unit RH	Automatic sliding door motor	
8.	Sliding door control unit R	Н	DLK-31, "Sliding Door Control Unit"
9.	Automatic sliding door wa	rning buzzer RH	DLK-31, "Automatic Sliding Door Warning Buzzer"
10.	Sliding door switch RH		DLK-31, "Sliding Door Switch"
11.	Automatic sliding door one-touch open/close switch RH		DLK-31, "Automatic Sliding Door One-Touch Open/Close Switch"
	12. Remote control assem- bly RH	Child lock status switch	
12.		Sliding door handle switch	DLK-31, "Remote Control Assembly"
		Sliding door lock actuator	
13.	Sliding door lock actuator RH	Sliding door lock status switch	DLK-31, "Sliding Door Lock Actuator"
14.	Sliding door lock release	actuator RH	DLK-31, "Sliding Door Lock Release Actuator"
		Neutral switch	
	Sliding door look cooce	Full latch switch	
15.	Sliding door lock assem- bly RH	Half latch switch	DLK-31, "Sliding Door Lock Assembly"
		Sliding door closure mo- tor	
16.	Sliding door touch sensor	RH	DLK-31, "Sliding Door Touch Sensor"
17.	Automatic sliding door open/close switch (rear RH)		DLK-30, "Automatic Sliding Door Open/Close Switch"

LH

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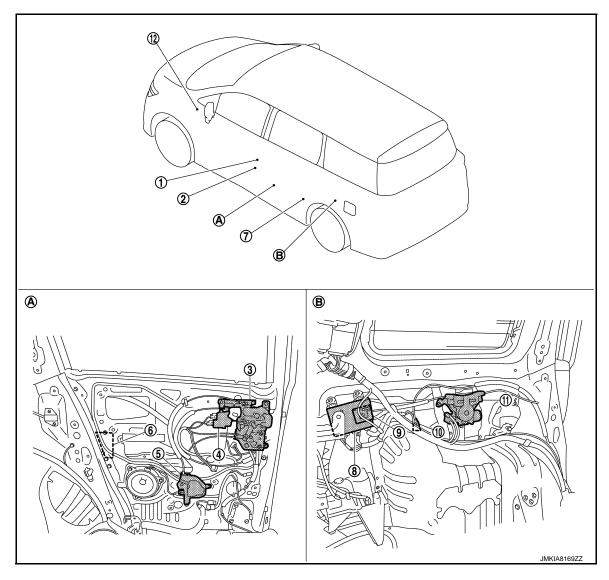
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< SYSTEM DESCRIPTION >



A. View with sliding door finisher LH re- B. View with luggage side lower finisher LH removed LH removed

No.	Component		Function
1.	Automatic sliding door open/close switch (rear LH)		DLK-30. "Automatic Sliding Door Open/Close Switch"
2.	Sliding door touch sensor	LH	DLK-31, "Sliding Door Touch Sensor"
	Demote control concern	Child lock status switch	
3.	Remote control assem- bly LH	Sliding door handle switch	DLK-31, "Remote Control Assembly"
	Sliding door lock actuator LH	Sliding door lock actuator	
4.		Sliding door lock status switch	DLK-31, "Sliding Door Lock Actuator"
5.	Sliding door lock release actuator LH		DLK-31, "Sliding Door Lock Release Actuator"
		Neutral switch	
	Oliding door look opport	Full latch switch	
6.	Sliding door lock assem- bly LH	Half latch switch	DLK-31, "Sliding Door Lock Assembly"
		Sliding door closure mo- tor	
7.	Sliding door switch LH		DLK-31, "Sliding Door Switch"

Revision: 2014 May

< SYSTEM DESCRIPTION >

No.	Com	ponent	Function	_
8.	Sliding door control unit LH		DLK-31, "Sliding Door Control Unit"	- A
9.	Automatic sliding door warning buzzer LH		DLK-31, "Automatic Sliding Door Warning Buzzer"	
10.	Fuel filler lid status switch	1	DLK-32, "Fuel Filler Lid Sliding Door Unit"	B
	Automatic sliding door	Encoder		
11.		Clutch	DLK-30, "Automatic Sliding Door Unit"	
	unit LH Automatic sliding door motor			C
12.	Automatic door main switch		DLK-30, "Automatic Door Main Switch"	_

Inside Key Antenna

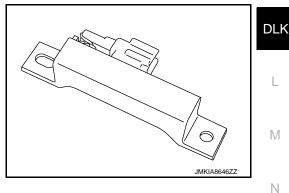
Inside key antenna detects that Intelligent Key is within the inside detection area, and then transmits detection status to BCM.

Front Door Outside Handle Assembly (Outside Key Antenna)

- Outside key antenna detects that Intelligent Key is within the outside detection area, and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna is installed in side outside handle assembly.

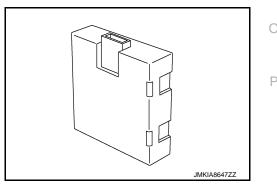
Outside Key Antenna (Rear Bumper)

- Outside key antenna (rear bumper) detects that Intelligent Key is within the outside detection area, and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (rear bumper) is installed in the rear of rear bumper.



Remote Keyless Entry Receiver

Remote keyless entry receiver receives button operation signal and key ID signal of Intelligent Key, and then transmits them to BCM.



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Intelligent Key Warning Buzzer

< SYSTEM DESCRIPTION >

Intelligent Key warning buzzer warns the user, who is outside vehicle, of operation confirmation according to Intelligent Key operation and door request switch operation, or of an inappropriate operation.

Door Lock and Unlock Switch (Driver Side)

- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.
- Door lock and unlock switch is Integrated in the power window main switch.

Door Lock and Unlock Switch (Passenger Side)

- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.
- Door lock and unlock switch is Integrated in the front power window switch (passenger side).

Front Door Request Switch

- Front door request switch (1) transmits door request switch signal to BCM.
- Front door request switch (1) integrated in outside handle assembly.

Front Door Switch

Door switch detects open/close status of door and transmits door switch signal to BCM.

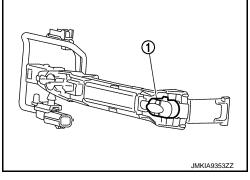
Front Door Lock Assembly (Driver Side)

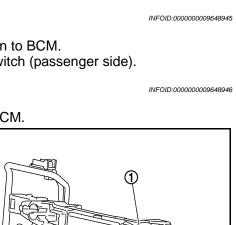
- Door lock actuator and unlock sensor are Integrated in driver door lock assembly.
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks driver door.

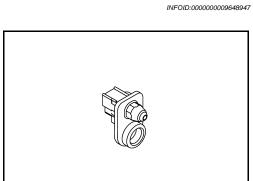
DLK-28

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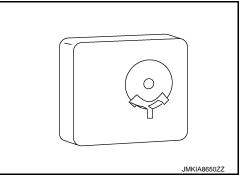
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< SYSTEM DESCRIPTION >

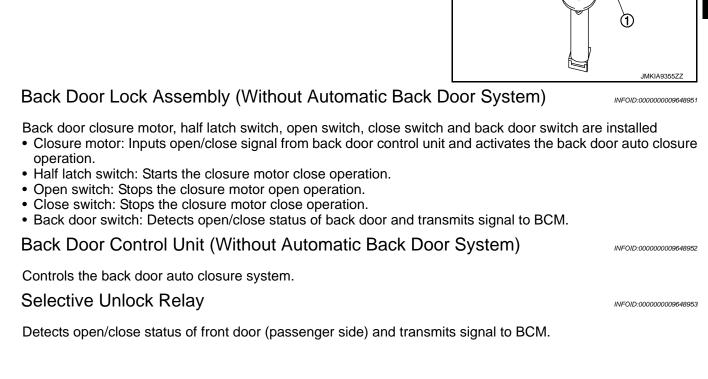
• Only front door lock assembly (driver side) integrates unlock sensor. Unlock sensor transmits lock/unlock status of driver seat to BCM.

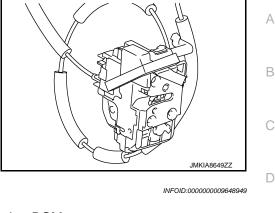
Back Door Opener Switch

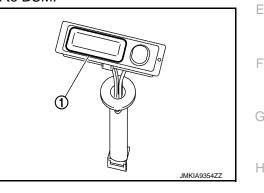
- Back door opener switch (1) transmits back door opener switch signal to BCM.
- Back door opener switch (1) is integrated in outside handle (back door).

Back Door Request Switch

- Back door request switch (1) transmits back door request switch signal to BCM.
- Back door request switch (1) is integrated in outside handle (back door).







DLK-29

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< SYSTEM DESCRIPTION >

Back Door Touch Sensor

During back door close operation, the touch sensor detects any trapped foreign material.

Automatic Back Door Control Module

Automatic back door control unit, encoder, automatic back door motor and clutch are installed.

- Automatic back door control unit: Controls the automatic back door system.
- · Encoder: Automatic back door control unit receives the pulse signals from encoders A and B that occurred due to synchronization with the back door operation. The automatic back door control unit calculates the back door position, operation direction, and operation speed according to the received pulse signals.
- Automatic back door motor: Inputs open/close signal from automatic back door control unit and activates the automatic back door open/close operation.
- Clutch: Performs the duty control of the power supply to control the operation speed of the back door.

Automatic Back Door Switch

Detects open/close operation of automatic back door

Automatic Door Main Switch

- Controls automatic open/close operation of each switches.
- Transmits automatic door main switch signal to sliding door control unit and automatic back door control module.

Automatic Back Door Warning Buzzer

Warns the user of the automatic back door condition and inappropriate operations with the buzzer sounds

Automatic Back Door Close Switch

- Detects close operation of automatic back door.
- Transmits automatic back door close switch signal to automatic back door control module.

Back Door Lock Assembly (With Automatic Back Door System)

Back door closure motor, half latch switch, open switch, close switch and back door switch are installed.

- Closure motor: Inputs open/close signal from automatic back door control module and activates the back door auto closure operation.
- Half latch switch: Starts the closure motor close operation.
- Open switch: Stops the closure motor open operation.
- Close switch: Stops the closure motor close operation.
- Back door switch: Inputs back door open/ close condition to BCM.

Automatic Back Door Opener Switch

Door switch detects open/close status of door and transmits door switch signal to BCM.

- Detects open operation of automatic back door.
- Transmits automatic back door opener switch signal to automatic back door control module.

Automatic Sliding Door Open/Close Switch

Transmits automatic sliding door open/close switch signal to sliding door control unit.

Automatic Sliding Door Unit

Encoder, clutch and automatic sliding door motor are installed.

- Encoder: Sliding door control unit receives the pulse signals from encoders A and B that occurred due to synchronization with the sliding door operation. The sliding door control unit calculates the sliding door position, operation direction, and operation speed according to the received pulse signals.
- Clutch: Performs the duty control of the power supply to control the operation speed of the sliding door.
- Automatic sliding door motor: Inputs open/close signal from sliding door control unit and activates the automatic sliding door auto open/close operation.

DLK-30

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INFOID:000000009648959

INFOID:000000009648958

INFOID:000000009648961

INFOID:000000009648962

INFOID:000000009648963

< SYSTEM DESCRIPTION >		
Sliding Door Control Unit		INFOID:00000009648964
Controls the automatic sliding door system		/ \
Automatic Sliding Door Warning Buzzer		INFOID:000000009648965
Warns the user of the automatic sliding door condition and inappropria	ate operations with the buz	zzer sounds.
Automatic Sliding Door One-Touch Open/Close Switch	1	INFOID:000000009648966
Transmits automatic sliding door one-touch open/close switch signal t	o sliding door control unit.	
Remote Control Assembly		D
 Child lock status switch and sliding door handle switch are installed. Child lock status switch: Detects lock/unlock status of sliding door door control unit. 	child lock and transmits si	gnal to sliding E
 Sliding door handle switch: Detects operation/non-operation status on nal to sliding door control unit. 	of sliding door handle and	transmits sig- F
Sliding Door Switch		INFOID:000000009648968
Door switch detects open/close status of door and transmits door switch signal to BCM.		G
		Н
	ŦĊ	I
Olidian Deen Leek Actueter		JMKIA6526ZZ J
Sliding Door Lock Actuator		INFOID:000000009648969
SLIDING DOOR LOCK ACTUATOR Child lock status switch and sliding door handle switch are installed.		DL
 SLIDING DOOR LOCK STATUS SWITCH Child lock status switch: Detects lock/unlock status of sliding door of door control unit. 	child lock and transmits si	gnal to sliding ackslash
 Sliding door handle switch: Detects operation/non-operation status on nal to sliding door control unit. 	of sliding door handle and	transmits sig-
Sliding Door Lock Release Actuator		INFOID:000000009648970
Inputs release signal from sliding door control unit and releases sliding	g door latch	Ν
Sliding Door Lock Assembly		INFOID:000000009648971
 Door lock actuator is Integrated in driver door lock assembly. Door lock actuator receives lock/unlock signal from BCM, and then I Neutral switch, full latch switch, half latch switch and sliding door close - Neutral switch: Detects neutral position of sliding door closure motor Full latch switch: Detects fully closed status of sliding door. Half latch switch: Detects half latch status of sliding door. Sliding door closure motor: Inputs close signal from sliding door coord 	osure motor are installed. r.	O P
auto closure operation.		
Sliding Door Touch Sensor		INFOID:000000009648972

During sliding door close operation, the touch sensor detects any trapped foreign material.

Revision: 2014 May

DLK-31

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< SYSTEM DESCRIPTION >

Fuel Filler Lid Sliding Door Unit

- Detects open/close status of fuel filler lid and transmits signal to sliding door control unit.
- Integrated in fuel filler interlock assembly.

SYSTEM (POWER DOOR LOCK SYSTEM)

BCM

< SYSTEM DESCRIPTION >

SYSTEM (POWER DOOR LOCK SYSTEM)

System Description

SYSTEM DIAGRAM

INFOID:000000009648974 Door lock/unlock switch signal *1 Door lock/unlock switch Power window serial link *2 Each door lock actuator Door lock/unlock switch signal *2 Door key cylinder lock/unlock signal *2 CAN communication Door key cylinder Combination meter lock/unlock signal *1

Vehicle speed signal

P Range signal

^{*1}:With driver side window anti-pinch

Door key cylinder switch

Each door switch

Push-button ignition switch

^{*2}:With front window anti-pinch

DOOR LOCK FUNCTION

Door Lock and Unlock Switch

The door lock and unlock switch (driver side) is build into power window main switch.

Each door switch signal

Push switch signal

- The door lock and unlock switch (passenger side) is build into front power window switch (passenger side).
- 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 actu-J ator are unlocked.

Door Key Cylinder Switch

- DLK • With the mechanical key inserted in the door key cylinder on driver side, turning it to lock position, locks door lock actuator of all doors .
- With the mechanical key inserted in the door key cylinder on driver side, turning it to unlock position once unlocks the driver side door, turning it to unlock position again within 60 seconds after the first unlock operation unlocks all of the other doors actuator . (SELECTIVE UNLOCK OPERATION) Selective unlock operation mode can be changed using CONSULT.

Refer to DLK-94, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

DOOR KEY CYLINDER SWITCH POWER WINDOW FUNCTION

Driver side door key cylinder LOCK/UNLOCK operation can activate power window. Refer to PWC-9, "System Description" (with front window anti-pinch), PWC-73, "System Description" (driver side window anti-pinch).

IGNITION POSITION WARNING FUNCTION

When door lock and unlock switch are operated while driver side door is open and ignition position is ACC or ON, door locks once but immediately unlocks.

INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock/unlock state, refer to INL-6, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description".

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

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

Vehicle Speed Sensing Auto Door Lock

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more.

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To interior room lamp control system

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

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

P Range Interlock Door Lock

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

(I) With CONSULT

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

Without CONSULT

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

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

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

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

IGN OFF Interlock Door Unlock

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

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

P Range Interlock Door Unlock

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

Setting change of Automatic Door Lock/Unlock Function

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

(I) With CONSULT

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

Without CONSULT

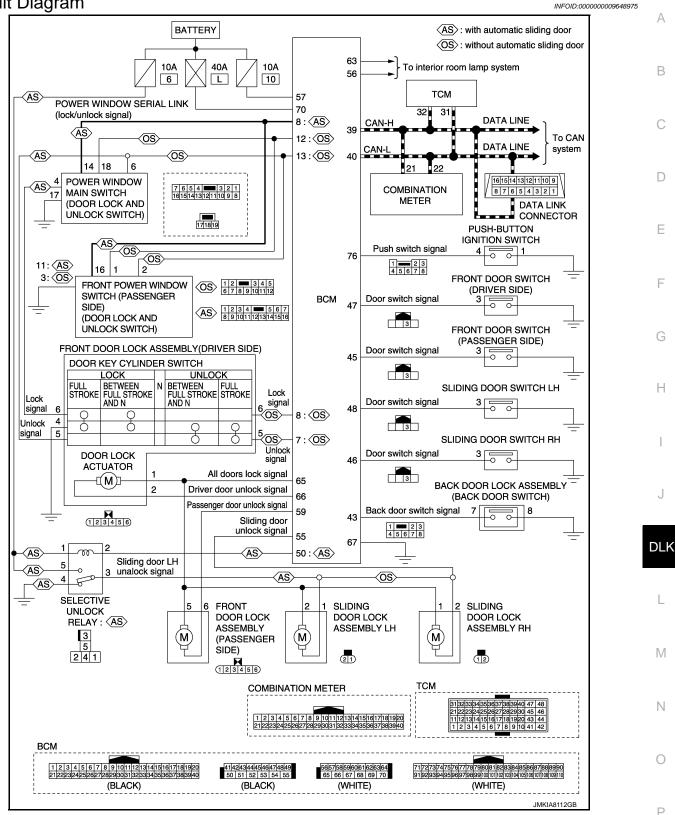
The automatic door lock/unlock function ON/OFF can be switched by performing the following operation.

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

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

Circuit Diagram



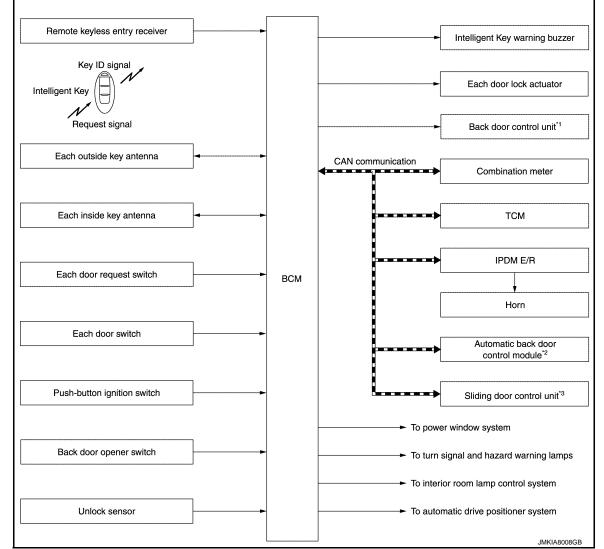
< SYSTEM DESCRIPTION >

SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Description

INFOID:000000009648976

SYSTEM DIAGRAM



*1:With back door auto closure system

^{*2}:With automatic back door system

*:With automatic sliding door system

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

The driver should always carry the Intelligent Key

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

< SYSTEM DESCRIPTION >

Function	Description	Refer		
Door lock	Lock/unlock can be performed by pressing the request switch	<u>DLK-40</u>		
Back door opener The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch				
Remote keyless entry	DLK-44			
Key reminder The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle				
Warning	Warning If an action that does not meet the operating condition of the Intelligent Key sys- tem is taken, the buzzer sounds to inform the driver			
Engine start	The engine can be turned on while carrying the Intelligent Key	<u>SEC-10</u>		
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state	<u>INL-6</u>		
Power window Power window can be operated by Intelligent Key button operation		PWC-9		
Automatic drive positioner	Automatic drive positioner system can be operated by door unlock operation	ADP-9		
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds	<u>SEC-21</u>		

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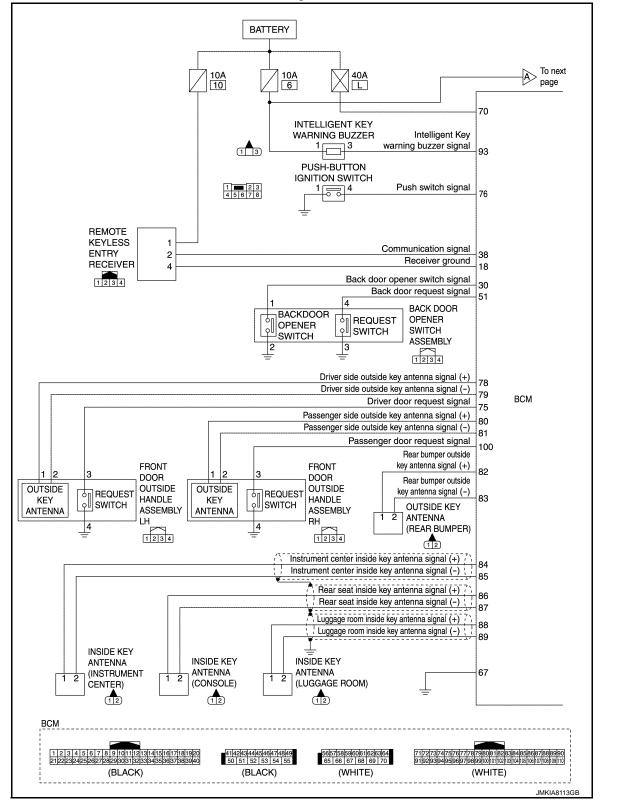
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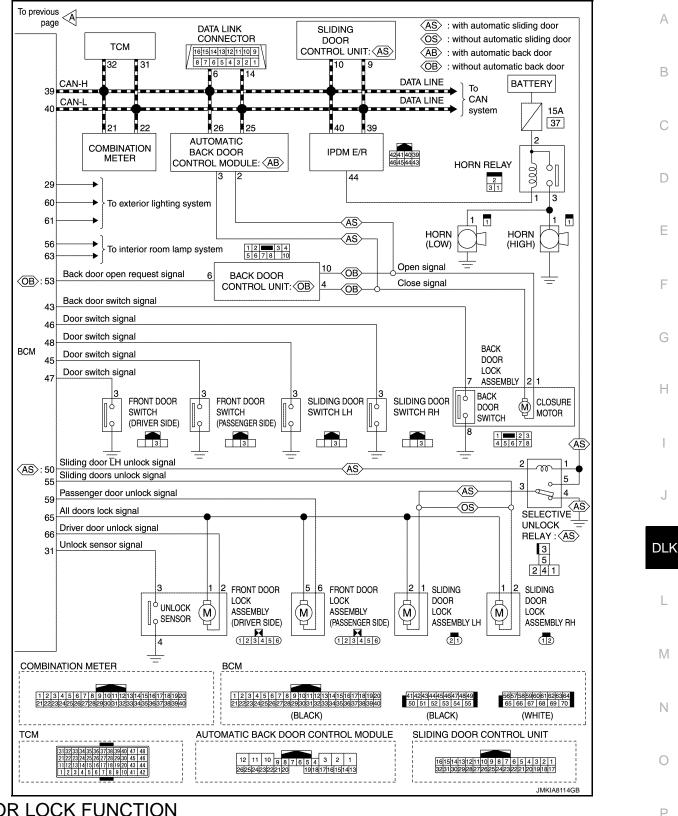
< SYSTEM DESCRIPTION >

INTELLIGENT KEY SYSTEM : Circuit Diagram

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< SYSTEM DESCRIPTION >



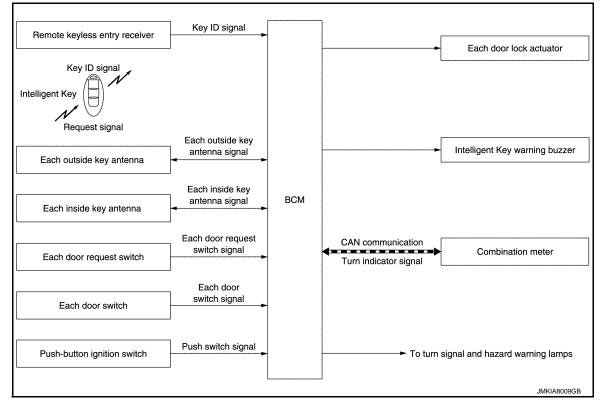
DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

DOOR LOCK FUNCTION : System Description

INFOID:000000009648978

SYSTEM DIAGRAM



DOOR REQUEST SWITCH OPERATION

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

OPERATION DESCRIPTION

- When the BCM detects that each door request switch is pressed, it activates the outside key antenna and inside key antenna corresponding to the pressed door request switch and transmits the request signal to the Intelligent Key. And then, 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 locks/unlocks each doors.
- BCM sounds Intelligent Key warning buzzer (lock: 2 times, unlock: 1 time) and blinks hazard warning lamps (lock: 2 times, unlock: 1 time) at the same time as a reminder.

OPERATION CONDITION

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

Each door request switch operation	Operation condition					
Lock	 All doors are closed Panic alarm is not activated P position warning is not activated Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area* 					
Unlock	 Panic alarm is not activated Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area* 					

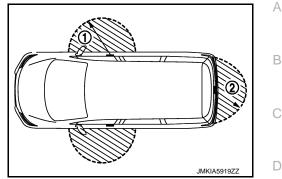
*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be locked/unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

DLK-40

< SYSTEM DESCRIPTION >

OUTSIDE KEY ANTENNA DETECTION AREA

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



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SELECTIVE UNLOCK FUNCTION

Lock Operation

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

Unlock Operation

- When an UNLOCK signal from driver side door request switch is transmitted, driver side door are unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors are unlocked, back door open permission is set.
- When an UNLOCK signal from passenger side door request switch is transmitted, passenger side door is unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors are unlocked, back door open permission is set.
- When an UNLOCK signal from back door request switch is transmitted, back door open permission is set.
 When another UNLOCK signal is transmitted within 60 seconds, all doors are unlocked.
- Only the door, of which one touch switch is pressed, unlock and starts automatic open operation when onetouch switch of sliding door is pressed.

How To Change Selective Unlock Operation Mode

Selective unlock operation mode can be changed using CONSULT. Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)"</u>.

HAZARD AND BUZZER REMINDER FUNCTION

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

Operating Function Of Hazard And buzzer Reminder

Operation	Hazard warning lamp blinks	Intelligent Key warning buzzer honks	L
Unlock	Once	Once	
Lock	Twice	Twice	М

Hazard and buzzer reminder does not operate in the following conditions.

Ignition switch position is ON

• Door is open (only lock operation)

How To Change Hazard And Buzzer Reminder Mode

Hazard and buzzer reminder mode can be changed using CONSULT. Refer to DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

After door is unlocked by door request switch operation and if 60 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

Operating condition	 Door switch is ON (door is open) Door is locked Push switch is pressed
---------------------	--

How To Change Auto Door Lock Operation Mode

Auto door lock operation mode can be changed using CONSULT.

< SYSTEM DESCRIPTION >

Refer to DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

LIST OF OPERATION RELATED PARTS

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

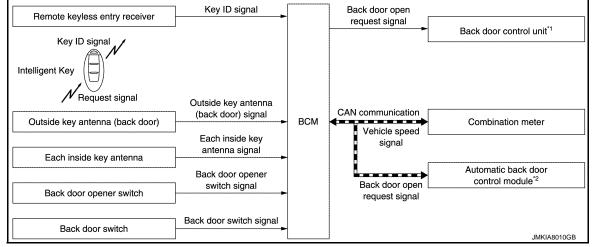
Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	CAN communication system	BCM	Hazard warning lamp	Intelligent Key warning buzzer	Push-button ignition switch
Door lock/unlock function	×	Х	×	Х	Х	Х	Х		×			
Hazard reminder function								×	×	×	×	
Selective unlock function	×			×	×	×	×		×			
Auto door lock function	×				×				×			×

BACK DOOR OPEN FUNCTION

BACK DOOR OPEN FUNCTION : System Description

INFOID:000000009648979

BACK DOOR OPEN OPERATION



^{*1}:With back door auto closure system

*2:With automatic back door system

BACK DOOR OPEN OPERATION

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

- The back door open function can open the back door by pressing the back door opener switch while carrying the Intelligent Key and all doors are locked.
- The back door open function enables the back door to be opened by pressing back door opener switch after BCM transmits UNLOCK signal to each door.Refer to <u>DLK-52, "System Description"</u>.

BACK DOOR OPEN (WITH BACK DOOR AUTO CLOSURE SYSTEM MODELS)

- When the BCM detects that back door opener switch is pressed, it activates the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the back door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- If the verification result is OK, BCM transmits the back door open request signal to back door control unit.

DLK-42

< SYSTEM DESCRIPTION >

- Back door control unit transmits back door open request signal to back door lock assembly and back door is open.
- When back door is open, back door auto closure system performs waiting operation for next back door close operation.

The operation of then back door open is the same as the back door auto closure system, refer to <u>DLK-52</u>, <u>"System Description"</u>.

BACK DOOR OPEN (WITH AUTOMATIC BACK DOOR SYSTEM MODELS)

- When the BCM detects that back door opener switch is pressed, it activates the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the back door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- If the verification result is OK, BCM transmits the back door open request signal to automatic back door control module via CAN communication.
- Automatic back door control module transmits back door open request signal to back door lock assembly and back door is open.
- When the back door is open, automatic back door system performs waiting operation for next back door close operation.

The operation of then back door open is the same as the automatic back door system, refer to <u>DLK-61.</u> "<u>OPEN FUNCTION : System Description</u>".

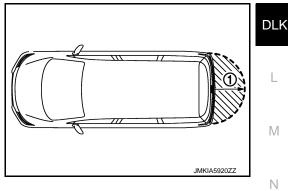
OPERATION CONDITION

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

Back door opener switch operation	Operation condition						
Back door open	 Vehicle speed is less than 5 km/h (3 MPH) Intelligent Key is within outside key antenna (back door) detection area Back door is closed Panic alarm is not activated 						

OUTSIDE KEY ANTENNA DETECTION AREA

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



LIST OF OPERATION RELATED PARTS

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



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< SYSTEM DESCRIPTION >

Function	Intelligent Key	Remote keyless entry receiver	Back door opener switch	Back door lock assembly	Inside key antenna	Outside key antenna (rear bumper)	CAN communication system	BCM	Back door control unit ^{*1}	Automatic back door control module*2
Back door open function	×	×	×	×	×	×	×	×	×	×

^{*1}:With back door auto closure system

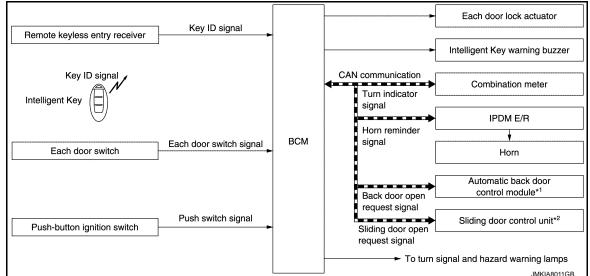
*2:With automatic back door system

REMOTE KEYLESS ÉNTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Description

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SYSTEM DIAGRAM



*1:With automatic back door system

^{*2}:With automatic sliding door system

BASIC OPERATION

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

OPERATION

Remote keyless entry system controls operation of the following items.

- Door lock/unlock function
- Selective unlock function
- Auto door lock function
- Hazard and horn reminder function
- Automatic back door open/close function
- Automatic sliding door open/close function

OPERATION AREA

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

DLK-44

< SYSTEM DESCRIPTION >

DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal transmitted from
 A
 Intelligent Key to BCM via remote keyless entry receiver.
- BCM receives the signal and compares it with the registered key ID to the vehicle.
- When BCM receives the door lock/unlock signal, it operates all door lock actuators, blinks the hazard 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: 1 time) as a reminder.

OPERATION CONDITION

If the following condition are satisfied, remote keyless entry operation is performed when the Intelligent Key is operated.

Remote controller operation	Operation condition	D
Lock	Panic alarm is not activatedP position warning is not activated	_
Unlock	Panic alarm is not activated	
SELECTIVE UNLOCK FU	NCTION	
• When an LOCK signal is tra	ansmitted from Intelligent Key, all doors are locked.	F
	is transmitted from Intelligent Key once, driver side door is unlocked.	
• Then, if an UNLOCK signa	al is transmitted from Intelligent Key again within 60 seconds, all other doors are	
unlocked. back door open	permission is set.	G
	ack door button of Intelligent Key is pressed, unlock and starts automatic open	0
operation when back door	button of Intelligent Key of sliding door is pressed.	
How to change selective up		
Selective unlock operation m	node can be changed using CONSULT.	Н

Refer to DLK-94, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

AUTO DOOR LOCK FUNCTION

After door is unlocked by Intelligent Key button operation and if 60 seconds or more passes without performing the following operation, all doors are locked. However, operation check function does not activate.

How to change auto doc	or lock operation mode	
Operating condition	 Door switch is ON (door is open) Door is locked Push switch is pressed 	J

How to change auto door lock operation mode.

Auto door lock mode can be changed using CONSULT. Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)"</u>.

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM blinks hazard warning lamps as a reminder and transmits horn chirp signal to IPDM E/R. IPDM E/R sounds horn as a reminder.

The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating Function of Hazard and Horn Reminder

	C n	node	S n	node	Ν
Intelligent Key operation	Lock	Unlock	Lock	Unlock	-
Hazard warning lamp blinks	Twice	Once	Twice	—	0
Horn sound	Once	—	—	—	0

Hazard and horn reminder does not operate in the following conditions.

• Ignition switch position is ON.

Door is open (only lock operation)

How to Change Hazard and Horn Reminder Mode

With CONSULT

Hazard and horn reminder operation mode can be changed using CONSULT. Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)"</u>.

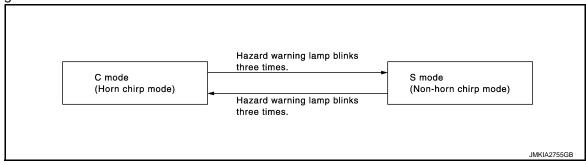
Without CONSULT

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< SYSTEM DESCRIPTION >

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



AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

When back door button of Intelligent Key is pressed, back door open automatically for detailed description, refer to <u>DLK-52</u>, "System Description".

AUTOMATIC SLIDING DOOR OPEN/CLOSE FUNCTION

When sliding door button of Intelligent Key is pressed, sliding door open automatically for detailed description, refer to <u>DLK-64, "AUTOMATIC SLIDING DOOR SYSTEM : System Description"</u>.

LIST OF OPERATION RELATED PARTS

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

Function	Intelligent Key	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Horn	Combination meter	Hazard warning lamp	Intelligent Key warning buzzer	Automatic back door control module*1	Sliding door control unit*2
Door lock/unlock function	×	×	×			×							
Selective unlock function	×	×	×			×							
Auto door lock function	×	×	×	×		×							
Hazard and horn reminder function					×	×	×	×	×	×	×		
Automatic back door open/close function	×				×	×						×	×
Automatic sliding door open/close function	×				×	×							×

^{*1}:With automatic back door system

^{*2}:With automatic sliding door system

KEY REMINDER FUNCTION

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KEY REMINDER FUNCTION : System Description

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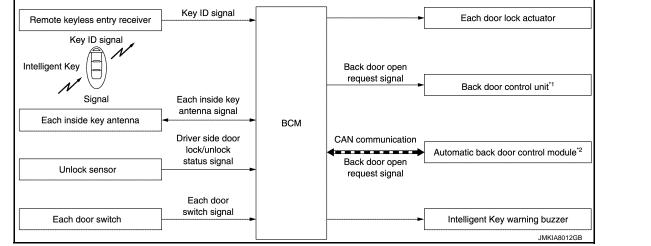
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SYSTEM DIAGRAM



^{*1}:With back door auto closure system

^{*2}:With automatic back door system

BASIC OPERATION

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

Key remainder func- tion	Uperation condition						
Driver door closed*	 Right after driver side door is closed under the following conditions Door lock operation is performed Driver side door is open Driver side door is in unlock state 	All doors unlock					
Door is open or closed	 Right after all doors are closed under the following conditions Intelligent Key is inside the vehicle Any door is open All doors are locked by door lock and unlock switch or door lock knob 	 All doors unlock Honk Intelligent Key warn- ing buzzer 					
Back door is closed	 Right after back door is closed under the following conditions Intelligent Key is inside vehicle All doors (except for back door) are closed All doors (except for back door) are locked 	 All doors unlock Back door can open with back door opener switch Honk Intelligent Key warn- ing buzzer 					

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

NOTE:

 The above function operates when the Intelligent Key is inside the vehicle. However, there may be times Ν when the Intelligent Key cannot be detected, and this function does not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.

WARNING FUNCTION

WARNING FUNCTION : System Description

OPERATION DESCRIPTION

The warning function are as per the following items and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, combination meter buzzer, KEY warning lamp and information display in combination meter.

Intelligent Key system malfunction

- OFF position warning
- P position warning

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< SYSTEM DESCRIPTION >

- ACC warning
- Take away warning
- Door lock operation warning
- Engine start information
- Intelligent Key low battery warning
- Key ID warning
- Key ID verification information

OPERATION CONDITION

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

Warning/Info	rmation functions	Operation procedure
Intelligent Key system n	nalfunction	When a malfunction is detected on BCM, "KEY" warning lamp illuminates
OFF position warning	For internal	 When condition A, B or condition C is satisfied Condition A Ignition switch: ACC position Door switch (driver side): ON (Door is open) Condition B Turn ignition switch from ON to OFF while door is open Condition C Intelligent Key backside is contacted to ignition switch while brake pedal is depressed and ignition switch is LOCK or OFF (When the Intelligent Key battery is discharged) Door switch (driver side): ON (Door is open)
	For external	$\begin{array}{l} \mbox{OFF position warning (For internal) is in active mode, driver side door is closed $$ NOTE: $$ OFF position (For external) active only when each of the sequence occurs as below: P position warning $$ ACC warning $$ OFF position warning (For internal) $$ OFF position warning (For internal) $$ \end{tabular}$
D position worning	For internal	Shift position: Except P positionEngine is running to stopped (Ignition switch is ON to OFF)
P position warning	For external	Warning is activated when driver door is closed from the open position while the P position warning (for inside vehicle) is ON
ACC warning		 When P position warning is in active mode, shift position changes P position Ignition switch: ACC position
	Door is open to close	 Ignition switch: Except LOCK position Door switch: ON to OFF (Door is open to close) Intelligent Key cannot be detected inside the vehicle
Take away warning	Door is open	 Ignition switch: Except LOCK position Door switch: ON (Door is open) Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle
	Push-button ignition switch operation	 Ignition switch: Except LOCK position Press push-button ignition switch Intelligent Key cannot be detected inside the vehicle
Door lock operation war	ning	When door lock operation is requested while door lock operating condition of door request switch or Intelligent Key are not satisfied

< SYSTEM DESCRIPTION >

Warning/Inforr	nation functions	Operation procedure
	Ignition switch is ON po- sition	 Ignition switch: ON position Shift position: P position Engine is stopped
Engine start information	Ignition switch is except ON position	 Ignition switch: Except ON position Shift position: P position Intelligent Key is in the passenger room after driver door is opened and closed.
	Ignition switch is ON po- sition to OFF position	 Ignition switch: ON position to OFF position Shift position: P position NOTE: Engine start information turns ON for several seconds and then turns OFF, when ignition switch is turned to the ON position from the OFF position. Engine start information does not turn ON until opening and closing of driver door is detected again.
Intelligent Key low batter	y warning	When Intelligent Key is low battery, BCM is detected after ignition switch is turned ON
Key ID warning		When registered Intelligent Key cannot be detected inside the vehicle after ignition switch is turned ON
Key ID verification inform	ation	 When registered Intelligent Key cannot be detected inside the vehicle Intelligent Key battery is discharged When NATS antenna amp cannot be detected NATS ID

WARNING METHOD

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

		"KEY"	Information display	Warnii	ng chime
Warning/Inf	ormation functions	warning lamp	(combination meter)	Combination meter buzzer	Intelligent Key warning buzzer
Intelligent Key	system malfunction	Indicate		_	_
OFF position	For internal	_	—	Activate	_
warning	For external	_	—	—	Activate
	For internal			Activate	_
P position warning	For external	_	P SHIFT JMKIA0037GB	_	Active
ACC warning		_	PUSH JMKIA0047GB	Activate	
	Door is open to close			Activate	Activate
T -1	Door is open			—	—
Take away warning	Push button-igni- tion switch opera- tion	_		Activate	_

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< SYSTEM DESCRIPTION >

		"KEY"	Information display	Warni	ng chime
Warning/Info	ormation functions	warning Iamp	Information display (combination meter)	Combination meter buzzer	Intelligent Key warning buzzer
Door lock op- eration warn-	Request switch operation	_	_	_	Activate
ing	Intelligent Key	_	_	_	Activate
Key ID warning)	_			_
Engine start inf	formation	_	BRAKE DKKIA0032GB	_	_
Intelligent Key	low battery warning	_	JMKIA3049ZZ		_
Key ID verifica	tion information		JMKIA4907ZZ		_

LIST OF OPERATION RELATED PARTS

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

Warn	ing function	Intelligent Key	Push-button Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Information display	"KEY" warning lamp
Intelligent Key system mal	lfunction									×	×		×
	For internal			×					×	×	×		
OFF position warning For external				×				×			×		
P position warning	I		×						×	×	×	×	×
ACC warning			×						×	×	×	×	

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< SYSTEM DESCRIPTION >

Warning	g function	Intelligent Key	Push-button Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Information display	"KEY" warning lamp	A B C
	Door is open or close	×		×		×		×	×	×	×	×	×	D
Take away warning	Door is open	×		×		×				×	×	×	×	
	Push-button ignition switch operation	×	×			×			×	×	×	×	×	E
Door lock operation warning		×		×	×	×	×	×			×			
Key ID warning			×			×				×	×	×	×	
	Ignition switch is ON position	×	×			×				×	×	×		F
Engine start information	Ignition switch is except ON position	×	×			×				×	×	×		
Intelligent Key low battery wa	Intelligent Key low battery warning					×				×	×	×	×	G
Key ID verification information	n	×				×				×	×	×		

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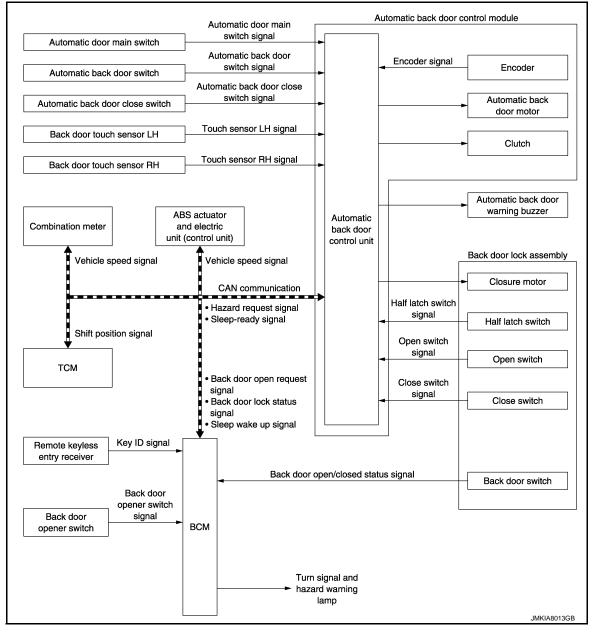
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< SYSTEM DESCRIPTION >

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

System Description

SYSTEM DIAGRAM



BASIC OPRATION

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

AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

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

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< SYSTEM DESCRIPTION >

BACK DOOR AUTO CLOSURE FUNCTION

Open Function

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

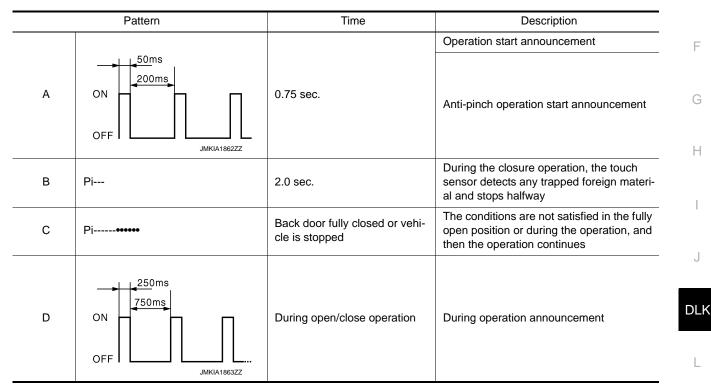
Closure Function

When the back door is closed to the half-latch position, the motor drives to rotate the latch lever and pulls it in from half latched to fully latched and automatically closes the door. Then, reverse the closure motor to the neutral position.

WARNING FUNCTION

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

Buzzer Operation Condition



ANTI-PINCH FUNCTION

During auto operation, if an object is detected by encoder pulse in the door's path, a warning chime sounds M 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	า	Open/close operation	Close operation
Operation when	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
any trapped for- 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 it reverses automatically to perform the auto close operation During closure (close) operation (at main switch ON): Closure (open) operation

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Detection method	Encoder pulse	Touch sensor
Non-reverse area	 Just after starting the mo- tor operation Full range of closure oper- ation Driving 	 Back door open operation Closure [open (return the latch to the neutral position)]
Switch operation during reverse operation	Receive	
Number of allowable reverse opera- tions	Perform the intermittent clutch ation direction	n function after 2 reverse operations regardless of the oper-

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.

AUTOMATIC BACK DOOR OPEN/CLOSE OPERATION CONDITION

	Automa	atic back doc	or switch	Intellig	ent Key	Automat- ic back door close switch		or opener itch
Operating direction	Fully close	d ightarrow Open	$\begin{array}{l} \text{Fully open} \\ \rightarrow \text{Closed} \end{array}$	$\begin{array}{c} Fully \\ closed \rightarrow \\ Open \end{array} \xrightarrow{Fully open} Closed \end{array}$		$\begin{array}{l} \text{Fully open} \\ \rightarrow \text{Closed} \end{array}$	Fully closed \rightarrow Open	
Main switch	-	_	—	_	—	ON	ON	
Ignition position	ON	ACC/ LOCK	_	_		_	ON	ACC/ LOCK
Shift selector lever	P position	—	—	—	—	_	P position —	
Vehicle speed				0 k	m/h			
Back door lock condition	-	_	—	_	—	—	Unlo	ock*
Touch sensor				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: OFFClutch: OFF (Intermittent clutch function)
 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 continued
Operation condition release during the opera- tion start announcement condition	Automatic back door function does not operate

< SYSTEM DESCRIPTION >

Item (Condition)		Back door condition			
Vehicle speed	Open operation	Operation stop and intermittent clutch function [Back door fully closed or buzzer sounds until the vehicle stops (pattern C)]			
(0 km/h \rightarrow More than 0 km/h)	Close operation	The operation is continued [buzzer sounds (pattern C) until back door fully closed]			
	Open operation	The operation is continued (If the pinch is detected af- ter that, the system switches to the intermittent clutch function)			
Touch sensor	Close operation	Intermittent clutch function			
(Normal \rightarrow Open)	Closure (close) opera- tion	Closure (open) operation and buzzer sounds (pattern B)			
	Closure [open (return the latch to the neutral position)] operation				
Operation time (More than approx. 30 sec.)	Intermittent clutch funct	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)] operation	Back door open			
Malfunction detected (IGN circuit, half latch switch and back door state)	Intermittent clutch funct	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.

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< SYSTEM DESCRIPTION >

Component	Parts	Status	1)	2	(3	(D	5
	Half latch switch	ON								
		OFF					1			
	Open switch	ON								
		OFF					<u> </u>			
Back door lock		ON								
assembly	Close switch	OFF								
	Back door closure motor	ON								
	(open)	OFF					<u>:</u> Т		r F F F F F	
	Back door closure motor	ON								
	(Close)	OFF								
		ON								
Automatic back	Clutch	OFF								
door control module	Automatic back door motor	ON					-			
module	(open)	OFF					<u> </u>			
		ON			_		F		F	
—	Automatic back door buzzer	OFF								
		ON		· · · · · · · · · · · · · · · · · · ·	7				_	
_	Hazard	OFF			L		L		L	
	1	11							, , ,	
										JMKIA8015GB

NOTE:

Output sequence for half latch switch, open switch, and close switch may vary depending on reaction force difference of back door weather-strip. When reaction force of back door weather-strip is strong, refer to a broken line in the chart.

When reaction force of back door weather-strip is not strong

- 1. Buzzer and hazard lamp operate after condition are satisfied.
- 2. After buzzer operation (pattern A), back door closure motor starts the open operation.
- 3. When the latch is released and reaction force of weather-strip is not strong, half latch switch does not turn ON, and back door closure motor stops the open operation when open switch turns ON. After this operation, automatic back door motor and magnet clutch operate, and then back door starts the open operation.
- 4. When door is lifted up, half latch switch turns ON, and then back door closure motor operates the reverse operation and starts returning to the neutral position.
- 5. When close switch turns OFF, back door closure motor stops the reverse operation and then completes returning to the neutral position.

When reaction force of back door weather-strip is strong

- 1. Buzzer and hazard lamp operate after condition are satisfied.
- 2. After buzzer operation (pattern A), back door closure motor starts the open operation.
- 3. When the latch is released, half latch switch turns ON, and then back door closure motor stops the open operation.
- 4. When automatic back door motor and clutch operate and back door starts the open operation, back door closure motor operates the reverse operation and starts returning to the neutral operation.
- 5. When close switch turns OFF, back door closure motor stops the reverse operation and then completes returning to the neutral position.

< SYSTEM DESCRIPTION >

Fully Open to Fully Closed Operation

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

Component	Parts	Status	1	2		3	4	D	5		I
	Half latch switch	ON									(
		OFF			\ L						
	Open switch	ON				ſ					[
		OFF			([L
Back door lock	Close switch	ON))			1			
assembly		OFF			(E
	Back door closure motor (open)	ON									
	motor (open)	OFF									F
	Back door closure motor (Close)	ON						1			
		OFF)			L			(
A	Clutch	ON			((
Automatic back door		OFF									ŀ
control module	Automatic back door m (close)	ON otor			/						
		OFF					L				
_	Automatic back door bu	ON zzer OFF			Г	1					
_	Hazard	ON OFF									
									JMł	KIA8014GB	D

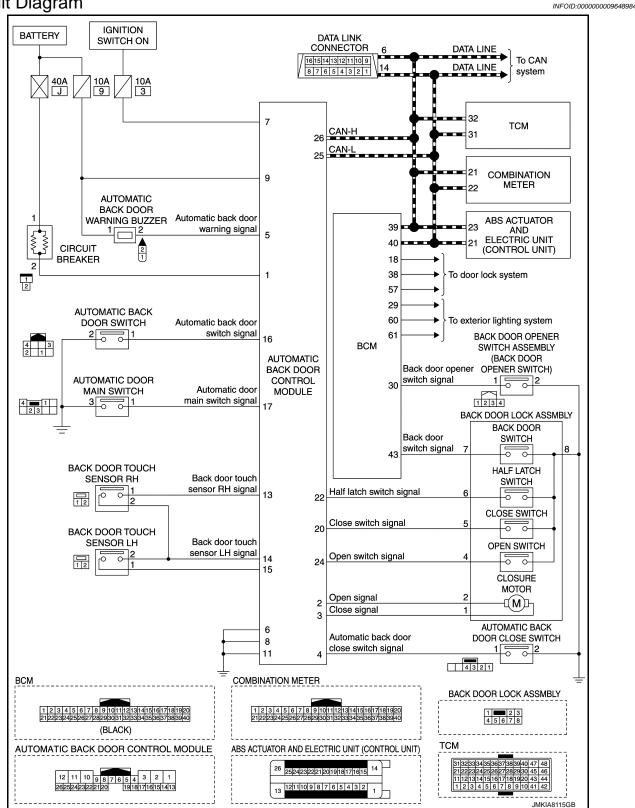
- 1. Operates the buzzer and hazard after the operation enable conditions are established
- 2. After the buzzer (pattern A) stops sounding, operates the automatic back door motor and clutch to perform the back door close operation
- 3. The back door closure motor performs the close operation after 300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

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Circuit Diagram



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Fail Safe

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Display contents of CONSULT	Fail-safe	Cancellation	
B2401 IGN OPEN	Intermittent clutch function	 All following condition are satisfied 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	
B2417 TOUCH SEN L OPEN	During close operation: Intermittent clutch function	Normal return	
B2419 OPEN SW	Inhibit automatic back door operation	Erase DTC, reconnect battery	
B2420 CLOSE SW	Inhibit automatic back door operation	Erase DTC, reconnect battery	
B2421 CLUTCH TIME OUT	Intermittent clutch function	Reception of next operation request	
B2422 BACK DOOR STATE	Intermittent clutch function	Detect back door fully closed posi- tion	
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	

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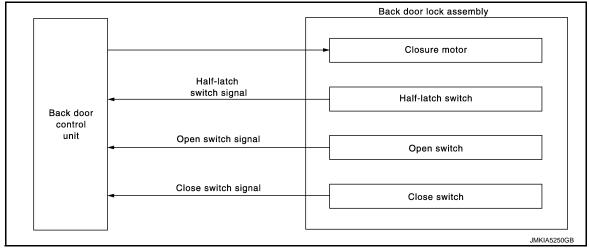
< SYSTEM DESCRIPTION >

SYSTEM (BACK DOOR AUTO CLOSURE SYSTEM) CLOSURE FUNCTION

CLOSURE FUNCTION : System Description

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SYSTEM DIAGRAM



AUTO CLOSURE OPERATION

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

From fully Open to Fully Closed Operation

The back door closure system operates as per the following.

Component	Parts	Status	1 2	3	4
		ON			
	Half latch switch	OFF			
	Open switch	ON			
	Open switch	OFF			
Back door lock	Close switch Back door closure motor (close)	ON			
assembly		OFF			
		ON			
-		OFF			
	Back door closure motor (open)	ON			
		OFF			

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

OPEN FUNCTION

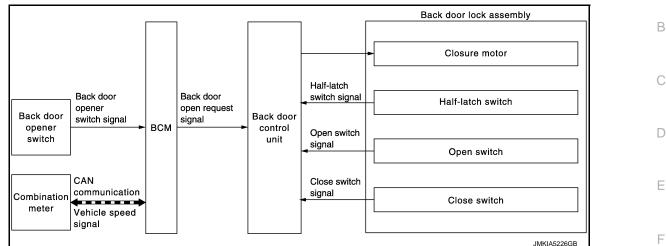
< SYSTEM DESCRIPTION >

OPEN FUNCTION : System Description

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SYSTEM DIAGRAM



OPEN OPERATION

- When the back door opener switch operation signal is input into back door control unit from BCM, back door is opened by the closure motor open operation.
- When back door opener switch is pressed, BCM transmits the back door open request signal to back door control unit and back door control unit opens back door.
- The operation to open back door with Intelligent Key is the same as the Intelligent Key system. Refer to H DLK-42, "BACK DOOR OPEN FUNCTION : System Description"

Operation Condition

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

Back door opener switch operation	Operation condition			
Back door open	 When back door is unlocked using back door request switch (selective unlock mode), or after BCM outputs all doors unlock signal Vehicle speed is less than 5 km/h (3 MPH) 	J		

NOTE:

- When battery terminal is disconnected and reconnected during all doors unlock state, back door may not open.
- Regardless of door lock actuator state, BCM resets recognition of all doors unlock state approximately 30 seconds after battery terminal is disconnected and BCM recognizes that all doors are in lock state.
- When battery terminal is reconnected and back door does not open, have BCM recognize that all doors are in unlock state.

From Fully Closed To Fully Open Operation

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< SYSTEM DESCRIPTION >

The back door open system operates as per the following.

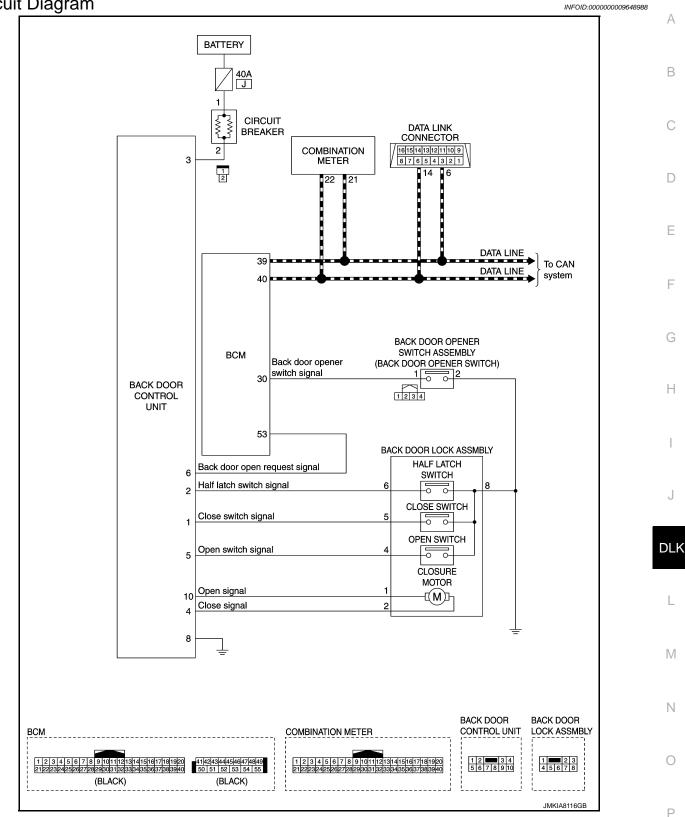
Component	Parts	Status	0	2	3	4	5
		ON					
	Half latch switch	OFF					
	Opon switch	ON					
	Open switch	OFF					
	Close switch	ON					
Back door lock		OFF					
assembly	Back door opener switch	ON					
		OFF					
	Back door closure motor (close)	ON			5 seconds	or more	
		OFF					
	Back door closure motor (open)	ON					
		OFF					

1. Back door is fully closed.

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

< SYSTEM DESCRIPTION >

Circuit Diagram



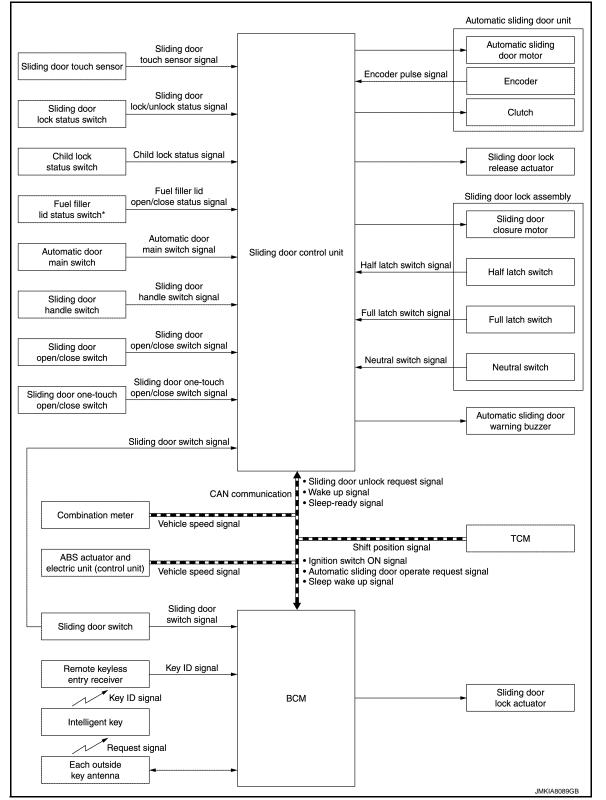
< SYSTEM DESCRIPTION >

SYSTEM (AUTOMATIC SLIDING DOOR SYSTEM) AUTOMATIC SLIDING DOOR SYSTEM

AUTOMATIC SLIDING DOOR SYSTEM : System Description

INFOID:000000009648989

SYSTEM DIAGRAM



: For automatic sliding door LH

• Automatic sliding door system controls auto open/close operation of sliding door LH and sliding door RH.

< SYSTEM DESCRIPTION >

• Sliding door control unit controls each function of automatic sliding door system.

Function	Description	Refer
Auto open/close	Sliding door is automatically opened or closed according to op- eration of sliding door handle, sliding door open/close switch, sliding door one-touch open/close switch, and Intelligent Key	<u>DLK-70</u>
One-touch unlock	By carrying Intelligent Key, sliding door is unlocked and auto- matically opened according to operation of sliding door one- touch open/close switch, even when sliding door is in fully closed and locked status	<u>DLK-75</u>
Unlock-linked opening	Sliding door is unlocked and automatically opened according to operation of sliding door open/close switch (front side) or Intelligent Key button, even when sliding door is in fully closed and locked status	<u>DLK-77</u>
Power assist	Sliding door is automatically opened or closed according to di- rection of sliding door movement, when sliding door is manually opened or closed	<u>DLK-79</u>
Sliding door auto closure	Sliding door closure motor operates and sliding door is automat- ically retracted and closed to fully closed status, when sliding door is in half latch status	<u>DLK-81</u>
Hold	During vehicle driving, if sliding door is in open status because of incorrect operation or any other cause, sliding door control unit continuously keeps clutch to the ON position and holds the position of sliding door so that it does not open further	<u>DLK-83</u>
Anti-pinch	During sliding door auto open/close operation, if pinching of for- eign materials is detected, sliding door control unit operates slid- ing door in the reverse direction	<u>DLK-85</u>
Intermittent clutch	During sliding door auto open/close operation, if system mal- function is detected, sliding door control unit operates clutch in- termittently to the ON/OFF position and prevents sliding door from opening or closing suddenly, so that safety can be ensured	<u>DLK-87</u>
Buzzer reminder	Automatic sliding door warning buzzer sounds so that user is in- formed of operation start when sliding door auto open/close op- eration starts to operate	<u>DLK-88</u>

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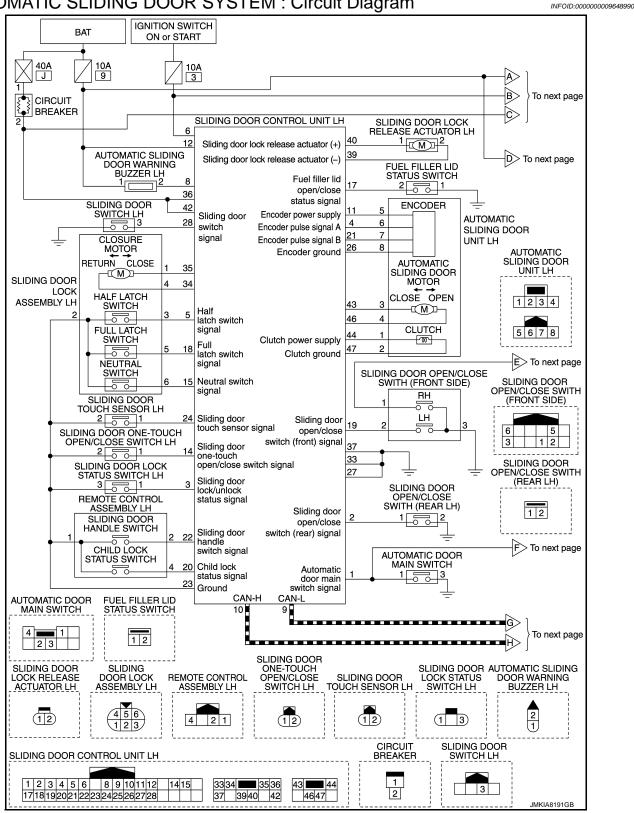
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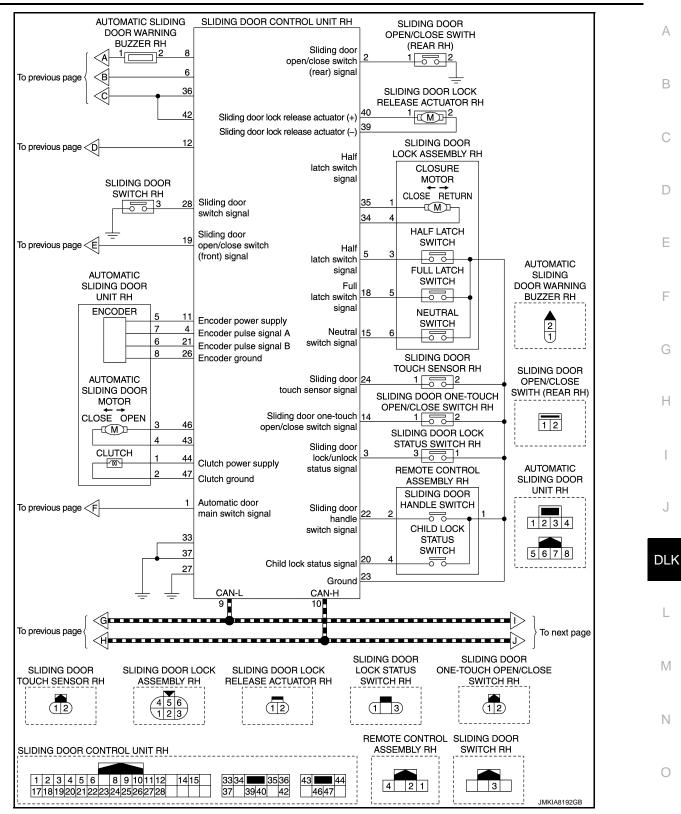
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< SYSTEM DESCRIPTION >

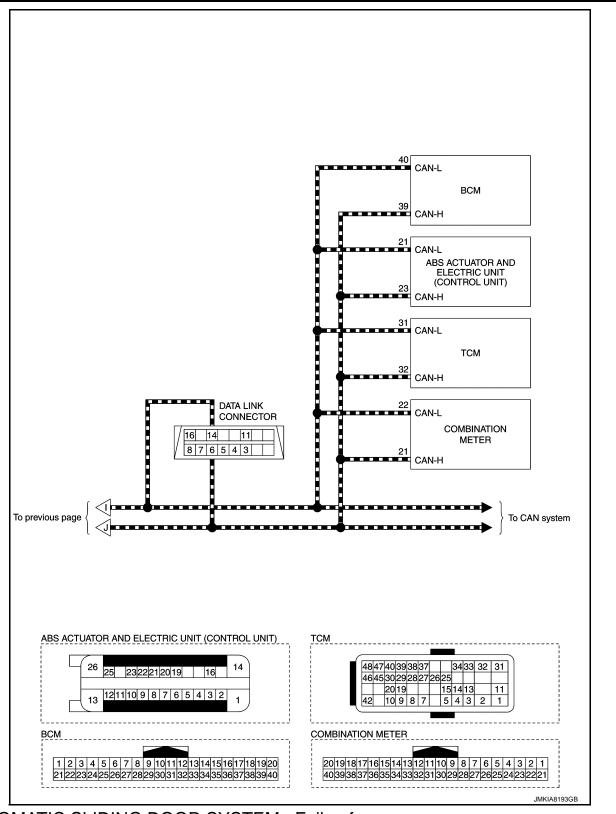
AUTOMATIC SLIDING DOOR SYSTEM : Circuit Diagram



< SYSTEM DESCRIPTION >



< SYSTEM DESCRIPTION >



AUTOMATIC SLIDING DOOR SYSTEM : Fail-safe

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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< SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN	-	Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2405: ECU FAIL	-	Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed po- sition
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2413: ASD MTR/ENCDR	-	Sliding door control unit detects that sliding door is in the fully closed po- sition
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed po- sition
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

*²: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

AUTO OPEN/CLOSE FUNCTION

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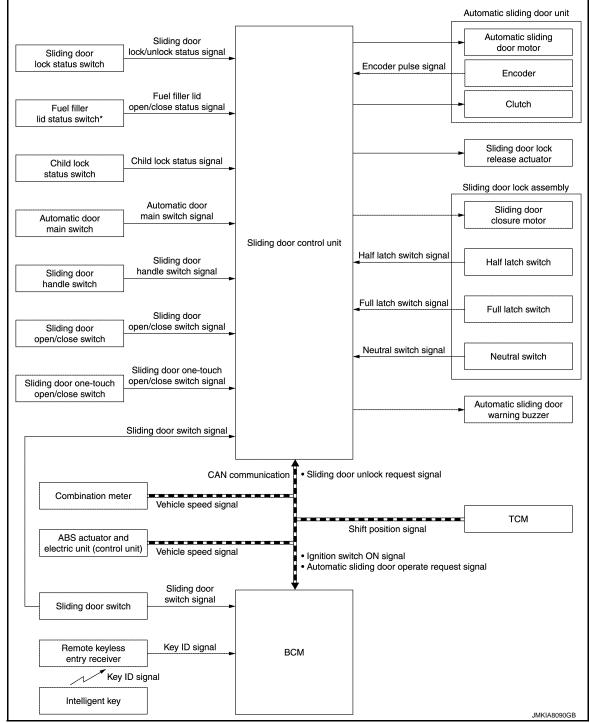
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< SYSTEM DESCRIPTION >

AUTO OPEN/CLOSE FUNCTION : System Description

INFOID:000000009648992

SYSTEM DIAGRAM



*: For automatic sliding door LH

Auto open/close function operates auto open/close of sliding door according to operation of sliding door handle, sliding door open/close switch, sliding door one-touch open/close switch, and Intelligent Key.

AUTO OPEN/CLOSE FUNCTION (OPEN OPERATION)

Sliding Door Handle Operation

 When sliding door handle is operated, sliding door handle switch, half latch switch, and full latch switch turn ON. Sliding door control unit sounds automatic sliding door warning buzzer as a reminder.
 NOTE:

The function may not be operated unless sliding door handle is pulled continuously.

DLK-70

< SYSTEM DESCRIPTION >

- Sliding door control unit operates sliding door lock release actuator, and then operates automatic sliding door motor to move sliding door to the fully open position.
- When sliding door handle is operated again during auto open operation, sliding door control unit stops auto open operation and operates sliding door in reverse direction to the fully closed position.
- When child lock is in the lock status, auto open function does not operate even when sliding door inside handle is operated.

Sliding Door Open/close Switch and Sliding Door One-touch Open/close Switch Operation

- When sliding door open/close switch or sliding door one-touch open/close switch is operated, sliding door control unit sounds automatic sliding door warning buzzer as a reminder.
- Sliding door control unit operates clutch and sliding door lock release actuator, and it releases sliding door latch (only when sliding door is fully closed).
- Sliding door control unit detects half latch switch signal and full latch switch signal. When judging that sliding door latch is released, sliding door control unit operates automatic sliding door motor and it moves sliding door to the fully open position.
- When switch is operated again during auto open operation, sliding door control unit stops auto open operation and operates sliding door in reverse direction to the fully closed position.

Intelligent Key Button Operation

- When sliding door open button of Intelligent Key is operated, BCM transmits automatic sliding door operate request signal to sliding door control unit via CAN communication.
- When automatic sliding door operate request signal is received from BCM, sliding door control unit sounds automatic sliding door warning buzzer as a reminder.
- Sliding door control unit operates clutch and sliding door lock release actuator, and it releases sliding door latch. (Only when sliding door is fully closed.)
- Sliding door control unit detects half latch switch signal and full latch switch signal. When judging that sliding door latch is released, sliding door control unit operates automatic sliding door motor and it moves sliding H door to the fully open position.
- When Intelligent Key button is operated again during auto open operation, sliding door control unit stops auto open operation and operates sliding door in reverse direction to the fully closed position.

OPERATION CONDITION

The auto open operation is performed, when the following conditions are satisfied.

Operation	Operation condition	
	Vehicle speed: 0 km/h	
	Battery voltage: 11 V or more	
	Fuel filler lid: Closed status (Operation condition for sliding door LH)	
Sliding door open/close switch (front side)	Shift position: P position*	
	Sliding door: Not fully opened	
	Sliding door: Unlocked while fully closed	
	Vehicle security system: Not set	
	Vehicle speed: 0 km/h	
	Battery voltage: 11 V or more	
	Fuel filler lid: Closed status (Operation condition for sliding door LH)	
Intelligent Key	Shift position: P position [*]	
	Sliding door: Not fully opened	
	Sliding door: Unlocked while fully closed	

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< SYSTEM DESCRIPTION >

Operation	Operation condition
	Automatic door main switch: ON
	Vehicle speed: 0 km/h
	Battery voltage: 11 V or more
	Fuel filler lid: Closed status (Operation condition for sliding door LH)
Sliding door open/close switch (rear side)	Shift position: P position [*]
	Sliding door: Not fully opened
	Sliding door: Unlocked while fully closed
	Child lock: Unlocked status while sliding door is fully closed
	Vehicle security system: Not set
	Automatic door main switch: ON
	Vehicle speed: 0 km/h
	Battery voltage: 11 V or more
	Fuel filler lid: Closed status (Operation condition for sliding door LH)
Sliding door handle	Shift position: P position [*]
	Sliding door: Not fully opened
	Sliding door: Unlocked while fully closed
	Child lock: Unlocked (Sliding door inside handle only)
	Vehicle security system: Not set
	Automatic door main switch: ON
	Vehicle speed: 0 km/h
	Battery voltage: 11 V or more
Sliding door one-touch open/close switch	Fuel filler lid: Closed status (Operation condition for sliding door LH)
	Shift position: P position [*]
	Sliding door: Not fully opened
	Sliding door: Unlocked while fully closed

*: Only when ignition switch is in the ON position.

AUTO OPEN/CLOSE FUNCTION (CLOSE OPERATION)

Sliding door control unit sounds automatic sliding door warning buzzer as a reminder, when operation of sliding door handle, sliding door open/close switch, sliding door one-touch open/close switch, or Intelligent Key button is detected while sliding door is in the fully open status.
 NOTE:

The function may not be operated unless sliding door handle is pulled continuously.

- Sliding door control unit operates clutch and sliding door lock release actuator and it performs latch release operation, so that sliding door control unit can judge whether sliding door latch is in released status.
- Sliding door control unit operates automatic sliding door motor and moves sliding door to half latch status, when sliding door control unit judges sliding door handle switch ON status and latch release status according to operation of sliding door release actuator.
- Sliding door control unit detects half latch status according to half latch switch. Sliding door control unit operates sliding door auto closure function and closes sliding door to the fully closed position.
- When sliding door handle, each switch, or Intelligent Key button is operated again during auto close operation, sliding door control unit stops auto close operation and operates sliding door in reverse direction to the fully open position.

OPERATION CONDITION

The auto close operation is performed, when the following conditions are satisfied.

- Automatic door main switch: ON^{*1}
- Battery voltage: 11 V or more
- Fuel filler lid: Closed status^{*2}
- Sliding door: Fully open

< SYSTEM DESCRIPTION >

^{*1}: Except operation of sliding door open/close switch (front side) and Intelligent Key button.

^{*2}: When sliding door LH is operated.

CONTROL WHEN OPERATION CONDITION IS NOT SATISFIED

Sliding door is controlled as described in the following table, when operation condition becomes invalid during automatic operation.

Condition	Operation
Automatic door main switch: Turned to the OFF position	One-way operation is continued
Shift position: P position \rightarrow Other than P position	One-way operation is continued
Vehicle speed: 0 km/h more during auto open operation	 Automatic sliding door warning buzzer sounds continuously and hold function is activated When the vehicle stops, automatic sliding door warning buzz er operation stops, intermittent clutch function operates, and sliding door enters into manual mode
Low battery voltage: 11 – 9 V	One-way operation is continued
Low battery voltage: 9 – 5 V for 2.1 seconds or more (Traction force lower limit – clutch force assurance)	Automatic sliding door motor stops, and then intermittent clutch function operate
Low battery voltage: 5 – 4 V (Control unit reset voltage – clutch hold voltage)	 Automatic sliding door motor stops (Clutch ON) → sliding door stops continuously and stays restricted (Clutch ON in circuit) Control is impossible because control unit is reset
Low battery voltage: 4 – 0 V	 Sliding door stops continuously and stays restricted (Clutch ON in circuit) Sliding door position cannot be held when the vehicle is on a slope, because clutch force is not sufficient
Fuel filler lid: Open	Intermittent clutch function operates. Sliding door enters into manual mode (Sliding door returns to electric mode when fuel filler lid is closed)

AUTO OPEN/CLOSE FUNCTION : Fail-safe

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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< SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

^{*2}: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

ONE-TOUCH UNLOCK FUNCTION

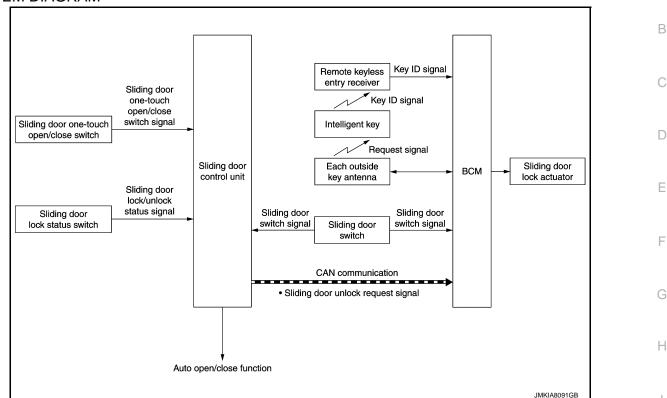
< SYSTEM DESCRIPTION >

ONE-TOUCH UNLOCK FUNCTION : System Description

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SYSTEM DIAGRAM



One-touch unlock function enables sliding door unlock operation and auto open operation simultaneously when sliding door one-touch open/close switch is operated while carrying Intelligent Key, even when sliding door is in fully closed and locked status.

OPERATION DESCRIPTION

- Sliding door control unit checks sliding door lock status according to sliding door lock status switch, when sliding door one-touch open/ close switch operation is detected.
- Sliding door control unit transmits sliding door unlock request signal to BCM via CAN communication, when sliding door is locked.
- When sliding door unlock request signal is received, BCM activates outside key antenna, transmits request signal to Intelligent Key, and then checks that Intelligent Key is located near the door.
- Intelligent Key, when it is within outside key antenna detection area (within activation range), transmits key ID signal to BCM via remote keyless entry receiver.
- BCM receives key ID signal and verifies the received key ID with the registered key ID to the vehicle.
- When selective unlock function is in ON status and key ID verification is successful, BCM operates sliding door lock actuator and unlocks sliding door.
- When selective unlock function is in OFF status and key ID verification is successful, BCM operates each door lock actuator and unlocks all doors.
- Sliding door control unit starts auto open operation when sliding door unlocked status is detected according to sliding door lock status switch.

OPERATION CONDITION

If the following conditions are satisfied, the one-touch unlock function is performed.

- Automatic door main switch: ON
- Vehicle speed: 0 km/h
- Battery voltage: 11V or more
- Fuel filler lid: Closed status^{*1}
- Sliding door: Fully closed status
- Sliding door lock status switch: OFF (Sliding door locked status)
- Shift position: P position ^{*2}
- ^{*1}:When sliding door LH is operated
- ^{*2}:Only when ignition switch is in the ON position

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< SYSTEM DESCRIPTION >

ONE-TOUCH UNLOCK FUNCTION : Fail-safe

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FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2405: ECU FAIL		Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed po- sition
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed po- sition
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

^{*2}: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

UNLOCK-LINKED OPENING FUNCTION

< SYSTEM DESCRIPTION >

UNLOCK-LINKED OPENING FUNCTION : System Description

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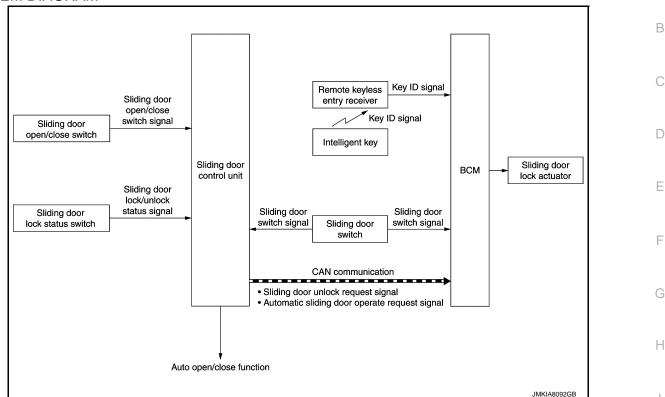
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SYSTEM DIAGRAM



Unlock-linked opening function enables sliding door unlock operation and auto open operation simultaneously when sliding door open/close switch (front side) or Intelligent Key button is operated, even when sliding door is in fully closed and locked status.

OPERATION DESCRIPTION

Sliding Door Open/close Switch (Front Side) Operation

- Sliding door control unit checks sliding door lock status according to sliding door lock status switch, when DLK sliding door open/close switch (front side) operation is detected.
- Sliding door control unit transmits sliding door unlock request signal to BCM via CAN communication, when sliding door is unlocked.
- BCM operates sliding door lock actuator and unlocks sliding door, when sliding door unlock request signal is received.
- Sliding door control unit starts auto open operation when sliding door lock status is detected according to sliding door lock status switch.

Intelligent Key Operation

- BCM transmits automatic sliding door operate request signal to sliding door control unit via CAN communication, when operation of Intelligent Key button id detected.
- Sliding door control unit checks sliding door lock status according to sliding door lock status switch, when automatic sliding door operate request signal is detected.
- Sliding door control unit transmits sliding door unlock request signal to BCM via CAN communication, when sliding door is locked.
- When selective unlock function is in ON status and sliding door unlock request signal is received, BCM operates sliding door lock actuator and unlocks sliding door.
- When selective unlock function is in OFF status and sliding door unlock request signal is received, BCM P operates each door lock actuator and unlocks all doors.
- Sliding door control unit starts auto open operation when sliding door unlocked status is detected according to sliding door lock status switch.

OPERATION CONDITION

If the following conditions are satisfied, the unlock-linked opening function is performed.

Vehicle speed: 0 km/h

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< SYSTEM DESCRIPTION >

- Battery voltage: 11 V or more
- Fuel filler lid: Closed status^{*1}
- Sliding door: Fully closed status
 Sliding door lock status switch: OFF (Sliding door locked status)
- Shift position: P position^{*2}
- ^{*1}: When sliding door LH is operated
- ^{*2}: Only when ignition switch is in the ON position

UNLOCK-LINKED OPENING FUNCTION : Fail-safe

INFOID:000000009648997

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2405: ECU FAIL		Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed po- sition
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed po- sition
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

^{*2}: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

POWER ASSIST FUNCTION

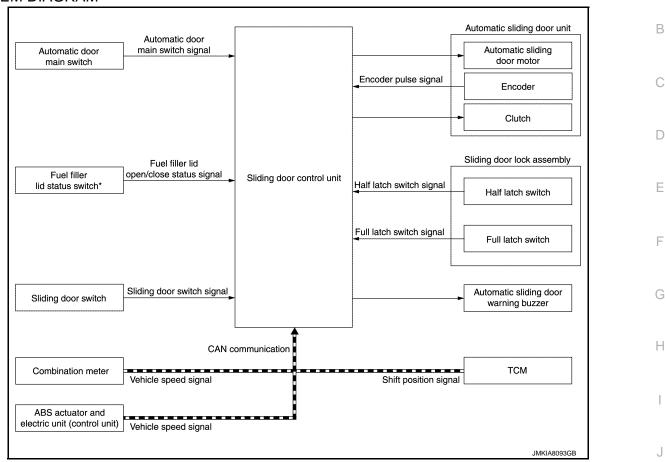
< SYSTEM DESCRIPTION >

POWER ASSIST FUNCTION : System Description

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SYSTEM DIAGRAM



*: For automatic sliding door LH

Power assist function automatically opens or closes sliding door to fully open/closed position, when sliding door is pressed manually without operating each switch or sliding door handle, while sliding door is in half open stop status or fully open stop status.

OPERATION DESCRIPTION

Sliding door control unit sounds automatic sliding door warning buzzer, activates automatic sliding door motor, and automatically opens or closes to the fully open/close position, when encoder pulse signal is detected from encoder.

OPERATION CONDITION

- If the following conditions are satisfied, the power assist function is performed.
- Automatic door main switch: ON
- Vehicle speed: 0 km/h (auto close operation only)
- Fuel filler lid: Closed status^{*1}
- Shift position: P position^{*2}
- Sliding door position: Halfway position
- Sliding door status: Stop status
- *1: When sliding door LH is operated.

*2: Only when ignition switch is in the ON position.

POWER ASSIST FUNCTION : Fail-safe

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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< SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

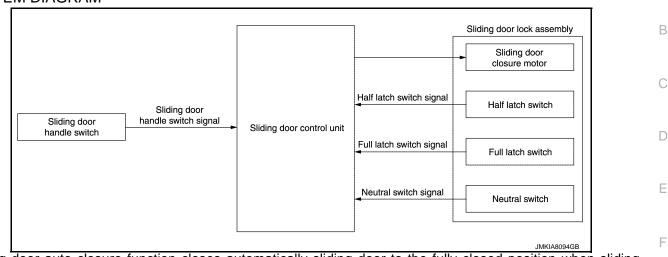
^{*2}: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

SLIDING DOOR AUTO CLOSURE FUNCTION

< SYSTEM DESCRIPTION >

SLIDING DOOR AUTO CLOSURE FUNCTION : System Description

SYSTEM DIAGRAM



Sliding door auto closure function closes automatically sliding door to the fully closed position when sliding door is in half latch status (lock and striker are in engage status). Sliding door auto closure function is operative, even when automatic door main switch is in the OFF position.

OPERATION DESCRIPTION

- When sliding door control unit judges that sliding door handle is in non-operated status and sliding door is in half latch status according to half latch switch signal and full latch switch signal, sliding door control unit judges that sliding door is in retractable position according to sliding door handle switch and neutral switch signal. Sliding door control unit operates sliding door closure motor, and starts retract operation.
- When sliding door control unit judges that sliding door is in fully closed status according to half latch switch signal and full latch switch signal, sliding door control unit stops sliding door closure motor operation once, and then operates sliding door closure motor in reverse direction to the neutral position of sliding door closure motor.
- Sliding door auto closure function does not operate when any of the following conditions is satisfied.
- Sliding door: When manually closed swiftly
- Sliding door handle: When operated immediately after detection of half latch status
- Battery voltage: 9 V or less

SLIDING DOOR AUTO CLOSURE FUNCTION : Fail-safe

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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< SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

*1: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

*²: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

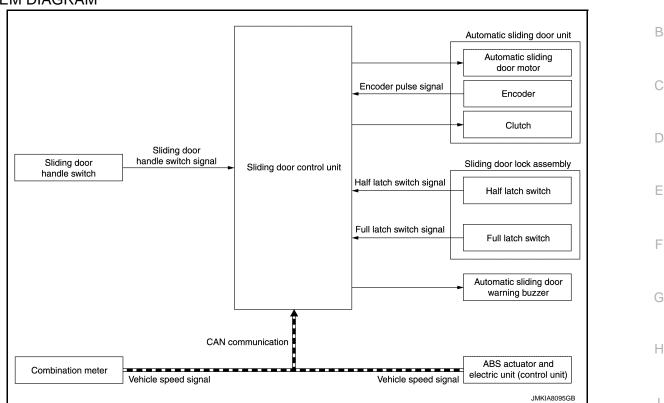
HOLD FUNCTION

< SYSTEM DESCRIPTION >

HOLD FUNCTION : System Description

INFOID:000000009649002

SYSTEM DIAGRAM



- When sliding door control unit detects the vehicle speed during auto open operation or detects that sliding door is open during vehicle driving, sliding door control unit sounds automatic sliding door warning buzzer warning the driver, simultaneously stops automatic sliding door motor operation, operates clutch, and then holds sliding door.
- During hold function operation, when sliding door control unit detects half latch status, sliding door control unit stops hold function and operates sliding door auto closure function.
- During hold function operation, when sliding door control unit detects sliding door handle operation, sliding door control unit stops clutch operation. Sliding door can be closed manually.
- When hold function is stopped according to sliding door handle operation and sliding door is manually moved to open direction, sliding door control unit judges sliding door moving direction according to encoder pulse signal, operates clutch again, and holds sliding door.

HOLD FUNCTION : Fail-safe

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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INFOID:000000009649003

< SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

^{*2}: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

ANTI-PINCH FUNCTION

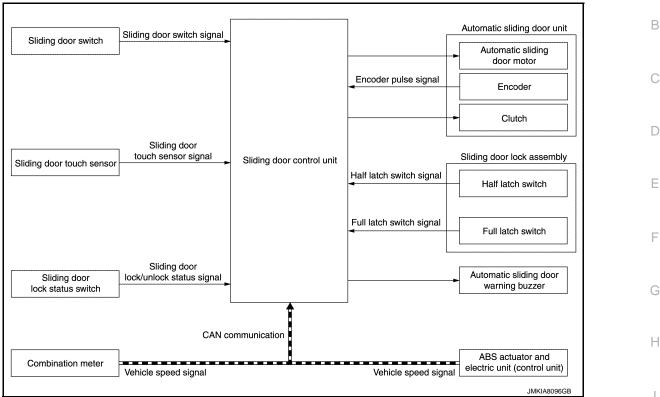
< SYSTEM DESCRIPTION >

ANTI-PINCH FUNCTION : System Description

INFOID:000000009649004

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SYSTEM DIAGRAM



Reverse operation is performed when pinching of foreign materials is detected during automatic sliding door auto open/close operation. Sliding door control unit stops automatic operation and enters into intermittent clutch, when pinching during auto close operation is continuously detected for 3 times or more.

DETECTION ACCORDING TO ENCODER

- During automatic operation when operation speed is reduced or sliding door motor operation load is increased due to pinching of foreign materials, sliding door control unit judges the pinching according to change in encoder pulse signal detected from encoder. Sliding door control unit stops automatic operation, and then automatically operates sliding door in reverse direction. Sliding door control unit stops automatic sliding door motor at the sliding door fully open or fully closed position.
- During auto close operation when the vehicle starts driving, auto close operation does not stop and continues to operate, although operation speed may be reduced or sliding door motor operation load may be increased due to pinching of foreign materials.

DETECTION ACCORDING TO SLIDING DOOR TOUCH SENSOR

- When the vehicle is in stop status and sliding door front end pinches foreign materials during auto close operation, sliding door control unit judges the pinching according to sliding door touch sensor signal, operates sliding door in reverse direction, and operates auto open operation to the fully open position.
- When sliding door is in lock status and sliding door front end pinches foreign materials during sliding door auto closure operation, sliding door control unit judges the pinching according to sliding door touch sensor signal, and stops sliding door auto closure operation.
- When sliding door is in unlock status and sliding door front end pinches foreign materials during sliding door auto closure operation, sliding door control unit judges the pinching according to sliding door touch sensor signal, stops sliding door auto closure operation, and operates sliding door auto open operation to the fully open position.

CAUTION:

Be careful that sliding door may not operate in reverse direction because load may not be detected when thin or soft foreign materials are pinched.

ANTI-PINCH FUNCTION : Fail-safe

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

Revision: 2014 May

DLK-85

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< SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2405: ECU FAIL		Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed po- sition
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed po- sition
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

*1: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

^{*2}: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

INTERMITTENT CLUTCH FUNCTION

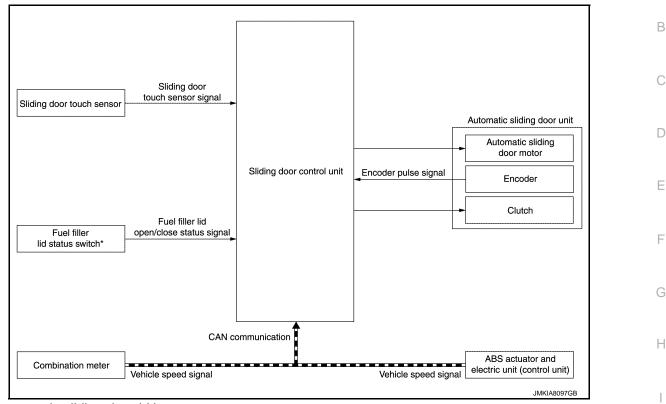
< SYSTEM DESCRIPTION >

INTERMITTENT CLUTCH FUNCTION : System Description

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SYSTEM DIAGRAM



- *: For automatic sliding door LH
- During automatic operation of sliding door, when the vehicle is on a slope, it may become impossible to continue automatic operation of sliding door and its operation may stop suddenly, or door may open or close suddenly. This is due to automatic door main switch being turned the OFF position or any other cause. For prevention purposes, sliding door control unit stops automatic sliding door motor, and simultaneously operates clutch intermittently and prevents sliding door from opening or closing suddenly, so that safety can be secured.
- Intermittent clutch function operates when any of the following conditions is satisfied.

Operation	Operation condition	
	Fuel filler lid status: Closed \rightarrow Open	
auto open/close function in operation	Automatic sliding door system malfunction	
	Battery voltage: Continuous detection of 9 V or less for 2 seconds or more	
	Vehicle speed: 0 km/h	
lold function in operation	Fuel filler lid status: Closed \rightarrow Open	
	Automatic sliding door system malfunction	
nti-pinch function	Continuous detection of pinching for 3 times during auto close operation	

INTERMITTENT CLUTCH FUNCTION : Fail-safe

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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< SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

^{*2}: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

BUZZER REMINDER FUNCTION

BUZZER REMINDER FUNCTION : System Description

INFOID:000000009649008

• Automatic sliding door warning buzzer sounds when sliding door automatic function is operated as a reminder.

Operation	Automatic sliding door warning buzzer	
Auto open	2 times for start operation	
Auto close	From sliding door halfway position until operation start of sliding door auto clo- sure function	
Power assist function (open)	2 times for start operation	
Power assist function (close)		
Reverse	2 times for reverse operation	

< SYSTEM DESCRIPTION >

Operation	Function	Automatic sliding door warning buzzer operation pattern
	Sliding door open/close switch	
Automatic operation start	Intelligent Key button operation	Sound twice (2 times)
	Power assist function	
Reverse operation start	Reverse operation detection	
Hold function in operation	Vehicle speed 0km/h or more, and sliding door open	Sound continuously (until sliding door is fully closed or the vehicle stops)
Auto close in operation	Auto close in operation	Continuously sounds intermittently (until sliding door is in half latch position)

• When all of the following conditions are satisfied, automatic sliding door warning buzzer sounds, alerting the driver to stop the vehicle.

- Sliding door: Open status (Sliding door switch ON or full latch switch ON)

- Vehicle speed: 0 km/h or more

BUZZER REMINDER FUNCTION : Fail-safe

INFOID:000000009649009

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FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL	_	Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

< SYSTEM DESCRIPTION >

*2: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

< SYSTEM DESCRIPTION >

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

System Description

INFOID:000000009649010

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Item	Function
ntegrated homelink transmitter	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000009986191

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system. **NOTE:**

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

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

NOTE:

*: For models with automatic air conditioning control system, this diagnosis mode is not used.

FREEZE FRAME DATA (FFD)

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

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< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit		Description	/
Vehicle Speed	km/h	Vehicle speed of the mo	ment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odomete	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 OFF (LOCK)]	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]	(
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC	
	ACC>ON		While turning power supply position from ACC to ON	
	RUN>ACC		While turning power supply position from RUN to ACC (Except emergency stop operation)	
	CRANK>RUN		While turning power supply position from CRANK to RUN	
	RUN>URGENT		While turning power supply position from RUN to ACC (Emergency stop operation)	
	ACC>OFF		While turning power supply position from ACC to OFF (OFF)	
Vehicle Condition OFF>L	OFF>LOCK	Power position status of the moment a particular	While turning power supply position from OFF (OFF) to OFF (LOCK)	
	OFF>ACC	DTC is detected*	While turning power supply position from OFF (OFF) to ACC	
	ON>CRANK		While turning power supply position from ON to CRANK	
	OFF>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (OFF)] to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode [Power supply posi- tion is OFF (LOCK)] to low power consumption mode	
	LOCK		Power supply position is OFF (LOCK)	
	OFF		Power supply position is OFF (OFF)	
	ACC		Power supply position is ACC	
	ON		Power supply position is ON	
	ENGINE RUN		Power supply position is RUN	
	CRANKING		Power supply position is CRANK	D
IGN Counter	0 - 39	 The number is 0 when The number increases whenever ignition swit 	t ignition switch is turned ON after DTC is detected a malfunction is detected now. s like $1 \rightarrow 2 \rightarrow 338 \rightarrow 39$ after returning to the normal condition ch OFF \rightarrow ON. 9 39 until the self-diagnosis results are erased if it is over 39.	

- *: Refer to the following for details of the power supply position.
- OFF (OFF, LOCK): Ignition switch OFF
- ACC: Ignition switch ACC
- IGN: Ignition switch ON with engine stopped
- · RUN: Ignition switch ON with engine running
- CRANK: At engine cranking

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when ignition switch is in the OFF position, shift position is in the P position, and any of the following conditions are met.

· Closing door

• Opening door

- · Door is locked using door request switch
- · Door is locked using Intelligent Key

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

DOOR LOCK

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< SYSTEM DESCRIPTION >

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM. WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operation with this modeOn: OperateOff: Non-operation
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 24 km/h (15 MPH) 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 this 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 MODE 4: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position MODE 5: This item is displayed, but cannot be used MODE 6: This item is displayed, but cannot be used
AUTOMATIC LOCK/UNLOCK SET	 Automatic door lock/unlock function mode can be selected from the following in this mode Off: Non-operation Unlock Only: Door unlock operation only Lock Only: Door lock operation only Lock/Unlock: Lock and unlock operation

DATA MONITOR

NOTE:

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

Monitor Item	Contents
REQ SW-DR	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-BD/TR	Indicated [On/Off] condition of back door request switch
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of sliding door switch RH
DOOR SW-RL	Indicated [On/Off] condition of sliding 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 switch
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder switch

ACTIVE TEST

< SYSTEM DESCRIPTION >

Test item	Description	А
DOOR LOCK	 This test is able to check door lock/unlock operation The all door lock actuators are locked when "ALL LOCK" on CONSULT screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched The front door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT screen is touched The front door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT screen is touched The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT screen is touched 	B
INTELLIGENT KEY		

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

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WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operation in this mode On: Operate Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this modeOn: OperateOff: Non-operation
TRUNK/GLASS HATCH OPEN	NOTE: This item is displayed, but cannot be used
PANIC ALARM SET	 Panic alarm button pressing time on Intelligent Key button can be selected from the following with this mode MODE 1: 0.5 sec MODE 2: Non-operation MODE 3: 1.5 sec
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be used
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operation with this modeOn: OperateOff: Non-operation
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operation with this modeOn: OperateOff: Non-operation
HAZARD ANSWER BACK	 Hazard reminder function mode by door request switch and Intelligent Key button can be selected from the following with this mode Lock Only: Door lock operation only Unlock Only: Door unlock operation only Lock/Unlock: Lock and unlock operation Off: Non-operation
ANS BACK I-KEY LOCK	 Buzzer reminder function (lock operation) mode by door request switch can be selected from the following with this mode Horn Chirp: Sound horn Buzzer: Sound Intelligent Key warning buzzer Off: Non-operation
ANS BACK I-KEY UNLOCK	 Buzzer reminder function (unlock operation) mode by door request switch can be changed to operation with this mode On: Operate Off: Non-operation
SHORT CRANKING OUTPUT	Starter motor can operate during the times below • 70 msec • 100 msec • 200 msec

< SYSTEM DESCRIPTION >

Monitor item	Description
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode
AUTO LOCK SET	Auto door lock operation time can be changed in this mode • MODE 1: OFF • MODE 2: 30 sec • MODE 3: 1 minute • MODE 4: 2 minutes • MODE 5: 3 minutes • MODE 6: 4 minutes • MODE 7: 5 minutes
HORN WITH KEYLESS LOCK	 Horn reminder function mode by Intelligent Key button can be selected from the following with this mode On: Operate Off: Non-operation
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

SELF-DIAG RESULT

Refer to BCS-63, "DTC Index".

DATA MONITOR NOTE:

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

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW	NOTE: This item is displayed, but cannot be monitored
BRAKE SW 1	Indicates [On/Off]* condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp 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	NOTE: This item is displayed, but cannot be monitored
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be monitored
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
DETE SW -IPDM	Indicates [On/Off] condition of P position
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
SFT P -MET	Indicates [On/Off] condition of P position
SFT N -MET	Indicates [On/Off] condition of N position
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states

< SYSTEM DESCRIPTION >

Monitor Item	Condition
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of unlock sensor
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] 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
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-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 Intelli- gent 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 operationOn: OperateOff: Non-operation
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operationOn: OperateOff: Non-operation
INSIDE BUZZER	 This test is able to check warning chime in combination meter operation Take Out: Take away warning chime sounds when CONSULT screen is touched Key: Key warning chime sounds when CONSULT screen is touched Knob: OFF position warning chime sounds when CONSULT screen is touched Off: Non-operation
INDICATOR	 This test is able to check warning lamp operation KEY ON: "KEY" Warning lamp illuminates when CONSULT screen is touched KEY IND: "KEY" Warning lamp blinks when CONSULT screen is touched Off: Non-operation
INT LAMP	This test is able to check interior room lamp operationOn: OperateOff: Non-operation

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< SYSTEM DESCRIPTION >

Test item	Description
LCD	 This test is able to check meter display information Engine start information displays when "BP N" on CONSULT screen is touched Engine start information displays when "BP I" on CONSULT screen is touched Key ID warning displays when "ID NG" on CONSULT screen is touched ROTAT: This item is displayed, but cannot be used. P position warning displays when "SFT P" on CONSULT screen is touched INSRT: This item is displayed, but cannot be monitored BATT: This item is displayed, but cannot be monitored Take away through window warning displays when "NO KY" on CONSULT screen is touched Take away warning display when "OUTKEY" on CONSULT screen is touched OFF position warning display when "LK WN" on CONSULT screen is touched
FLASHER	 This test is able to check hazard warning lamp operation LH: LH side hazard warning lamps operate RH: RH side hazard warning lamps operate Off: Non-operation
P RANGE	This test is able to check CVT shift selector power supply On: Operate Off: Non-operation
ENGINE SW ILLUMI	This test is able to check push-button ignition switch illumination operationOn: OperateOff: Non-operation
LOCK INDICATOR	This test is able to check LOCK indicator (push-button ignition switch) operationOn: OperateOff: Non-operation
ACC INDICATOR	This test is able to check ACC indicator (push-button ignition switch) operationOn: OperateOff: Non-operation
IGNITION ON IND	This test is able to check ON indicator (push-button ignition switch) operationOn: OperateOff: Non-operation
HORN	This test is able to check horn operation On: Operate Off: Non-operation
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be used
POWER SLIDE DOOR	 This test is able to check automatic siding door operation RR PSD ON: Auto open/close operate RL PSD ON: Auto open/close operate

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

DATA MONITOR

NOTE:

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

Monitor Item	Contents
PUSH SW	Indicates [On/Off] condition of push switch
UNLK SEN -DR	Indicates [On/Off] condition of unlock sensor
VEH SPEED 1	Indicates [km/h] condition of vehicle speed signal from combination meter
TR/BD OPEN SW	Indicates [On/Off] condition of back door opener switch

INFOID:000000009649014

< SYSTEM DESCRIPTION >

Monitor Item	Contents	^
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored	A
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored	В

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DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT) < SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

CONSULT Function (AUTOMATIC BACK DOOR CONTROL UNIT)

INFOID:000000009649015

APPLICATION ITEM

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

Diagnosis mode	Function Description
Self Diagnostic Result	Displays the diagnosis results judged by automatic back door control unit
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from automatic back door control unit
Data Monitor	The automatic back door control unit input/output signals are displayed
Ecu Identification	The automatic back door control unit part number is displayed

DATA MONITOR

NOTE:

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

Monitor Item	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
VHCL SPEED SIG	[NORMAL/ER- ROR]	Indicates condition of vehicle speed from automatic back door control unit
MAIN SW	[ON/OFF]	Indicates condition of automatic door main switch
AUTO BD SW	[ON/OFF]	Indicates condition of automatic back door switch
BK DOOR CL SW	[ON/OFF]	Indicates condition of automatic back door close switch
UNLOCK SEN DR	[ON/OFF]	NOTE: This item is displayed, but cannot be monitored
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 TCM
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]	NOTE: This item is displayed, but cannot be monitored
DESTINATION	[JPN/NAM]	Indicates specification of destination of the automatic back door system
HAZARD	[ON/OFF]	Indicates specification of hazard warning

SELF-DIAG RESULT Refer to <u>DLK-109, "DTC Index"</u>.

DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT LH)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT LH)

CONSULT Function

INFOID:000000009649016

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with sliding door control unit LH.

Diagnosis mode	Function description
Self Diagnostic Result	Displays the diagnosis results judged by sliding door control unit LH
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from sliding door control unit LH
Data Monitor	The sliding door control unit LH input/output signals are displayed
Active Test	The signal used to activate each device are forcibly supplied from sliding door control unit LH
Ecu Identification	The sliding door control unit LH part number is displayed

DATA MONITOR

NOTE:

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

Monitor item	Description	
SPEED METER	Vehicle speed signal from combination meter is displayed	
ABS SPEED	Vehicle speed signal from ABS actuator and electric unit (control unit) is displayed	
MAIN SW	[ON/OFF] status of automatic door main switch, which is judged from automatic door main switch signal, is displayed	
KNOB LCK SW L	[Lock (OFF)/unlock (ON)] status of sliding door LH, which is judged from sliding door lock unlock status signal, is displayed	
ONE-TOUCH SW	[Operation (ON)/non-operation (OFF)] status of sliding door one-touch open/close switch LH, which is judged from sliding door one-touch open/close switch signal, is displayed	
F LID SW	[ON/OFF] status of fuel filler lid status switch, which is judged from fuel filler lid open/close status signal, is displayed	
B PILLER SW	[Operation (ON)/non-operation (OFF)] status of sliding door open/close switch (rear LH), which is judged from sliding door open/close switch (rear LH) signal, is displayed	
DRIVER SW	[Operation (ON)/non-operation (OFF)] status of sliding door open/close switch (front LH), which is judged from sliding door open/close switch (front LH) signal, is displayed	
ACC On SW	[ON, ACC status (ON)/other than ON, ACC (OFF)] status of ignition switch, which is judged from ACC signal, is displayed	
DOR HAND SW L	[Operation (ON)/non-operation (OFF)] status of sliding door handle LH, which is judge from sliding door handle switch signal, is displayed	
TOUCH SEN LH	[Pinching detection (ON)/non-detection (OFF)] status of sliding door touch sensor LH, which is judged from sliding door touch sensor signal, is displayed	
RR-LH DOOR SW	[Open (ON)/close (OFF)] status of sliding door LH, which is judged from sliding door switch signal, is displayed	
HAF LATC SW L	[Half latch, fully close (OFF)/open (ON)] status of half latch switch, which is judged from half latch switch signal, is displayed	
P RANGE SW	[P position (ON)/other than P position (OFF)] status of selector lever, which is judged from shift position signal, is displayed	
BRAKE SW	[Depressed (ON)/non-depressed (OFF)] status of brake pedal, which is judged from stop lamp switch signal, is displayed	
P BRAKE SW	[Operation (ON)/non-operation (OFF)] status of parking brake, which is judged from park brake switch signal, is displayed	

DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT LH)

< SYSTEM DESCRIPTION >

Monitor item	Description
KEYLESS SIG	 [REV→MOVE→OFF] status of auto open/close operation is displayed according to Intelligent Key button operation REV: When Intelligent Key signal is received (button short press) MOVE: When Intelligent Key signal is received (button long press) OFF: When Intelligent Key button is not operated
IGN SW	[ON position (ON)/other than ON position (OFF)] of ignition switch, which is judged from ignition switch ON signal, is displayed
ENCODER A LH	Encoder status, which is judged from encoder pulse signal, is displayed
ENCODER B LH	Encoder status, which is judged from encoder pulse signal, is displayed
CHILD LOCK SW	[Lock (OFF)/unlock (ON)] status of child lock, which is judged from child lock status signal, is displayed
FULL LATC SW L	[Full close (OFF)/other than full close (ON)] status of sliding door LH, which is judged from full latch switch signal, is displayed
NEUTRAL SW	[Neutral position (OFF)/other than neutral position (ON)] status of sliding door closure mo- tor, which is judged from neutral switch signal, is displayed

ACTIVE TEST

Test Item	Description
CLUTCH	Clutch operation of sliding door LH can be checked according to screen operation of CONSULT HOLD: Clutch ON (sliding door LH cannot be operated manually) RELEASE: Clutch OFF (sliding door LH can be operated manually) NOTE: Be careful to perform active test after turning automatic door main switch to the OFF position and setting sliding door to the halfway stop position

SELF-DIAG REULT

Refer to DLK-115, "LH : DTC Index".

DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT RH)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT RH)

CONSULT Function

INFOID:000000009649017

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with sliding door control unit RH.

Diagnosis mode	Function description
Self Diagnostic Result	Displays the diagnosis results judged by sliding door control unit RH
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from sliding door control unit RH
Data Monitor	The sliding door control unit RH input/output signals are displayed
Active Test	The signal used to activate each device are forcibly supplied from sliding door control unit RH
Ecu Identification	The sliding door control unit RH part number is displayed

DATA MONITOR

NOTE:

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

Monitor item	Description	
SPEED METER	Vehicle speed signal from combination meter is displayed	
ABS SPEED	Vehicle speed signal from ABS actuator and electric unit (control unit) is displayed	
MAIN SW	[ON/OFF] status of automatic door main switch, which is judged from automatic door main switch signal, is displayed	
KNOB LCK SW R	[Lock (OFF)/unlock (ON)] status of sliding door RH, which is judged from sliding door lock unlock status signal, is displayed	
ONE-TOUCH SW	[Operation (ON)/non-operation (OFF)] status of sliding door one-touch open/close switch RH, which is judged from sliding door one-touch open/close switch signal, is displayed	
F LID SW	[ON/OFF] status of fuel filler lid status switch, which is judged from fuel filler lid open/close status signal, is displayed	
B PILLER SW	[Operation (ON)/non-operation (OFF)] status of sliding door open/close switch (rear RH), which is judged from sliding door open/close switch (rear RH) signal, is displayed	
DRIVER SW	[Operation (ON)/non-operation (OFF)] status of sliding door open/close switch (front RH), which is judged from sliding door open/close switch (front RH) signal, is displayed	
ACC On SW	[ON, ACC status (ON)/other than ON, ACC (OFF)] status of ignition switch, which is judged from ACC signal, is displayed	
DOR HAND SW R	[Operation (ON)/non-operation (OFF)] status of sliding door handle RH, which is judge from sliding door handle switch signal, is displayed	
TOUCH SEN RH	[Pinching detection (ON)/non-detection (OFF)] status of sliding door touch sensor RH, which is judged from sliding door touch sensor signal, is displayed	
RR-RH DOOR SW	[Open (ON)/close (OFF)] status of sliding door RH, which is judged from sliding door switch signal, is displayed	
HAF LATC SW R	[Half latch, fully close (OFF)/open (ON)] status of half latch switch, which is judged from half latch switch signal, is displayed	
P RANGE SW	[P position (ON)/other than P position (OFF)] status of selector lever, which is judged from shift position signal, is displayed	
BRAKE SW	[Depressed (ON)/non-depressed (OFF)] status of brake pedal, which is judged from stop lamp switch signal, is displayed	
P BRAKE SW	[Operation (ON)/non-operation (OFF)] status of parking brake, which is judged from park brake switch signal, is displayed	

DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT RH)

< SYSTEM DESCRIPTION >

Monitor item	Description		
KEYLESS SIG	 [REV→MOVE→OFF] status of auto open/close operation is displayed according to Intelligent Key button operation REV: When Intelligent Key signal is received (button short press) MOVE: When Intelligent Key signal is received (button long press) OFF: When Intelligent Key button is not operated 		
IGN SW	[ON position (ON)/other than ON position (OFF)] of ignition switch, which is judged from ignition switch ON signal, is displayed		
ENCODER A RH	Encoder status, which is judged from encoder pulse signal, is displayed		
ENCODER B RH	Encoder status, which is judged from encoder pulse signal, is displayed		
CHILD LOCK SW	[Lock (OFF)/unlock (ON)] status of child lock, which is judged from child lock status signal, is displayed		
FUL LATC SW R	[Full close (OFF)/other than full close (ON)] status of sliding door RH, which is judged from full latch switch signal, is displayed		
NEUTRAL SW	[Neutral position (OFF)/other than neutral position (ON)] status of sliding door closure mo- tor, which is judged from neutral switch signal, is displayed		

ACTIVE TEST

Test Item	Description
CLUTCH	Clutch operation of sliding door RH can be checked according to screen operation of CONSULT HOLD: Clutch ON (sliding door RH cannot be operated manually) RELEASE: Clutch OFF (sliding door RH can be operated manually) NOTE: Be careful to perform active test after turning automatic door main switch to the OFF position and setting sliding door to the halfway stop position

SELF-DIAG REULT

Refer to DLK-121, "RH : DTC Index".

ECU DIAGNOSIS INFORMATION BCM

List of ECU Reference

INFOID:000000009649018

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E	ECU	Reference	
		BCS-40, "Reference Value"	
BCM		BCS-62, "Fail-safe"	
		BCS-62, "DTC Inspection Priority Chart"	D
		BCS-63, "DTC Index"	

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AUTOMATIC BACK DOOR CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC BACK DOOR CONTROL MODULE

Reference Value

INFOID:000000009649019

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

CONSULT MONITOR ITEM

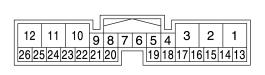
MONITOR ITEM Monitor Item				
VHCL SPEED MTR	While driving	Equivalent to speedometer reading		
VHCL SPEED ABS	While driving	While driving		
	Vehicle speed from automatic back	Normal	NORMAL	
VHCL SPEED SIG	door control unit	Error	ERROR	
		OFF	OFF	
MAIN SW	Automatic door main switch	ON	ON	
	Automotio book door owitch	Release	OFF	
AUTO BD SW	Automatic back door switch	Press	ON	
		Release	OFF	
BK DOOR CL SW	Automatic back door close switch	Press	ON	
	NOTE:	I	OFF	
UNLOCK SEN DR	This item is displayed, but cannot b	e monitored	ON	
	Dooly door	Half latch/fully closed	OFF	
OPEN SW	Back door	Open	ON	
	Deale de an	Open/half latch	OFF	
CLOSE SW	Back door	Fully closed	ON	
	Dool/ door	Half latch/fully closed	OFF	
HALF LATCH SW	Back door	Open	ON	
	Deale de antes et anne a Dill	Other than bellow	OFF	
TOUCH SEN RH	Back door touch sensor RH	Detect obstruction	ON	
		Other than bellow	OFF	
TOUCH SEN LH	Back door touch sensor LH	Detect obstruction	ON	
		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	
		Other than ON position	OFF	
IGN SW	Ignition switch	ON position	ON	
		Not operate	No change HI or LO	
ENCODER A	Automatic back door	Operate	Change HI or LO	
	Automatic back door	Not operate	No change HI or LO	
ENCODER B	Automatic back door	Operate	Change HI or LO	
	Back door opener switch	Release	UNLK	
BD OPENER SW	Back door opener switch	Press	LOCK	

AUTOMATIC BACK DOOR CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	0	
UNLOCK SEN BD	<pre>SEN BD NOTE: This item is displayed, but cannot be monitored</pre>		OFF	A
UNLOCK SEN DD			ON	
	Circuit between automatic back	Normal	NAM	В
DESTINATION	door control module terminal 6 and ground	Open or short	JPN	
	Circuit between automatic back	Normal	ON	С
HAZARD	door control module terminal 8 and ground	Open or short	OFF	0

TERMINAL LAYOUT



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PHYSICAL VALUES

Terminal No. (Wire color) Description			Condition		Voltage	Н	
(+)	(-)	Signal name	Input/ Output	Condition		vonage	I
1 (SB)	Ground	Power supply (BAT)	Input	-	_	9 - 16 V	
2	Ground	Back door closure mo-	Output	Back door	Close operation	9 - 16 V	J
(R)	Ground	tor (close)	Output	Back door	Other than above	0 - 1.5 V	
3	Ground	Back door closure mo-	Output	Back door	Open operation	9 - 16 V	
(G)	Ground	tor (open)	Output	Back 0001	Other than above	0 - 1.5 V	DL
4	Ground	Automatic back door	Input	Automatic back	Pressed	0 - 1.5 V	
(O)	Ground	close switch	Input	door close switch	Released	9 - 16 V	L
5		Automatic back door		Automatic back	Sounding	0 - 1.5 V	
(GR)	Ground	warning buzzer	Output	door warning buzzer	Not sounding	9 - 16 V	M
6 (B/R)	Ground	Ground (destination)	_	_		0 - 1.5 V	IVI
7 (W)	Ground	Power supply (IGN)	Input	Ignition switch ON		9 - 16 V	Ν
8 (B/R)	Ground	Ground (Hazard re- minder)	_	-	_	0 - 1.5 V	
9 (LG)	Ground	Power supply (BAT)	Input	_		9 - 16 V	0
11 (B/R)	Ground	Ground	_	_		0 - 1.0 V	Ρ
13 (LG)	Ground	Touch sensor RH sig-	Input	Back door touch sensor RH	Detect obstruc- tion	0 - 1.5 V	
(LG)		nal	-		Other than above	5 - 6.7 V	
14 (P)	Ground	Touch sensor ground	Input	_		0 - 1.5 V	

Revision: 2014 May

AUTOMATIC BACK DOOR CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Voltage	
(+)	()	Signal name	Input/ Output	Condition		Voltage	
15 (BR)	Ground	Touch sensor LH sig-	Input	Back door touch sensor LH	Detect obstruc- tion	0 - 1.5 V	
(DR)		nal			Other than above	5 - 6.7 V	
16	Ground	Automatic back door	Input	Automatic back	Pressed	0 - 1.5 V	
(L)	Giouna	switch	input	door switch	Released	9 - 16 V	
17	Ground	Automatic door main	Input	Automatic door	ON	9 - 16 V	
(Y)	Giouna	switch	input	main switch	OFF	0 - 1.5 V	
20	Ground		Input	Back door	Fully closed	0 - 1.5 V	
(R)	(R) Ground Close switch sign	Close Switch Signal			Open/half latch	9 - 16 V	
22					Open	0 - 1.5 V	
(W)	Ground	Half latch switch signal	Input	Back door	Fully closed/half latch	9 - 16 V	
24					Open	0 - 1.5 V	
24 (G)	Ground	Open switch signal	Input	Back door	Half latch/fully closed	9 - 16 V	
25 (P)	Ground	CAN - L	Input/ Output	_		_	
26 (L)	Ground	CAN - H	Input/ Output	_		_	

Fail Safe

INFOID:000000009649020

Display contents of CONSULT	Fail-safe	Cancellation
B2401 IGN OPEN	Intermittent clutch function	 All following condition are satisfied 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
B2417 TOUCH SEN L OPEN	During close operation: Intermittent clutch function	Normal return
B2419 OPEN SW	Inhibit automatic back door operation	Erase DTC, reconnect battery
B2420 CLOSE SW	Inhibit automatic back door operation	Erase DTC, reconnect battery
B2421 CLUTCH TIME OUT	Intermittent clutch function	Reception of next operation request
B2422 BACK DOOR STATE	Intermittent clutch function	Detect back door fully closed posi- tion
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:000000009649021

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

DLK-108

AUTOMATIC BACK DOOR CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	A
1	 B2425 AUTO BK DR CNT UNIT U1000: CAN COMM U1010: CONTROL UNIT (CAN) B2401 IGN OPEN 	В
	B2403 PULSE ENCODER B2409 HALF LATCH SW B2416 TOUCH SEN R OPEN B2417 TOUCH SEN L OPEN	С
2	 B2419 OPEN SW B2420 CLOSE SW B2421 CLUTCH TIME OUT B2422 BACK DOOR STATE B2423 ABD MTR TIME OUT 	D
	B2423 ABD MTR TIME OUT B2424 CLSR CONDITION	E

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.

CONSULT display	Fail-safe	Reference page
U1000: CAN COMM	—	<u>DLK-171</u>
U1010: CONTROL UNIT(CAN)	_	<u>DLK-173</u>
B2401: IGN OPEN	×	<u>DLK-174</u>
B2403: PULSE ENCODER	Х	<u>DLK-182</u>
B2409: HALF LATCH SW	×	<u>DLK-188</u>
B2416: TOUCH SEN R OPEN	×	DLK-210
B2417: TOUCH SEN L OPEN	Х	DLK-213
B2419: OPEN SW	×	DLK-216
B2420: CLOSE SW	×	DLK-218
B2421: CLUTCH TIME OUT	Х	DLK-220
B2422: BACK DOOR STATE	Х	DLK-221
B2423: ABD MTR TIME OUT	×	DLK-222
B2424: CLSR CONDITION	×	DLK-223
B2425: AUTO BCK DR CNT UNIT	_	DLK-225

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INFOID:000000009649022

DLK-109

< ECU DIAGNOSIS INFORMATION >

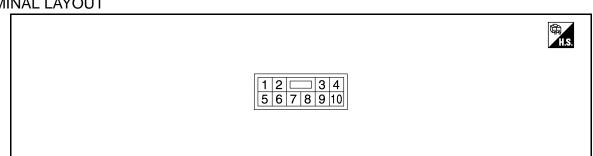
BACK DOOR CONTROL UNIT

Reference Value

TERMINAL LAYOUT

INFOID:000000009649023

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PHYSICAL VALUES

	inal No. e color)	Description		Condition		Voltage														
(+)	()	Signal name	Input/ Output		Condition															
					Stop	8 - 16 V														
1 (L)	Ground	Close switch signal	Input	Closure motor	Close operation	8 - 16 V														
()					Open operation	0 - 1.5 V														
2	Ground	Half-latch switch signal	Input	Back door	Open	0 - 1.5 V														
(GR)	Ciouna	Train-later Switch Signal	mput	Dack door	Fully closed/half latch	3.5 - 5.5 V														
3 (G)	Ground	Battery power supply	Input	_		8 - 16 V														
4	Ground	Back door closure mo-	Output	Back door	Close operation	5 - 16 V														
(V)	Ground	tor (close)	Output	Dack door	Other than above	0 - 1.5 V														
_					Stop	8 - 16 V														
5 (O)	Ground	Open switch signal	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Closure motor	Close operation	0 - 1.5 V
(-)					Open operation	8 - 16 V														
6	Ground	Back door open re-	Input	Back door opener	Pressed	0 - 1.5 V														
(BR)	Ciouna	quest signal	mput	switch	Released	8 - 16 V														
7 (B)	Ground	Ground	_	_	_	0 - 1.5 V														
8 (B/W)	Ground	Ground	_	_	_	0 - 1.5 V														
10	Ground	Back door closure mo-	Output	Back door	Open operation	5 - 16 V														
(G)	Sibulu	tor (open)	Juiput		Other than above	0 - 1.5 V														

< ECU DIAGNOSIS INFORMATION >

SLIDING DOOR CONTROL UNIT

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INFOID:000000009649024

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LH : Reference Value

CONSULT MONITOR ITEM

NOTE:

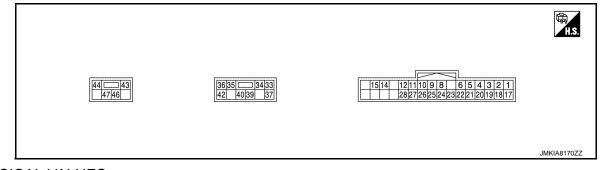
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable ^C to this vehicle, refer to CONSULT display items.

Monitor Item	Condition	Condition			
SPEED METER	While driving	While driving			
ABS SPEED	While driving		Equivalent to speedometer reading		
		OFF	OFF		
MAIN SW	Automatic door main switch	ON	ON		
KNOB LCK SW L	Sliding door look koob H	Lock	OFF		
	Sliding door lock knob LH	Unlock	ON		
ONE-TOUCH SW	Sliding door one-touch open/close	Release	OFF		
JNE-100CH 3W	switch LH	Press	ON		
F LID SW	Fuel filler lid status switch	OFF	OFF		
		ON	ON		
B PILLER SW	Sliding door open/close switch	Release	OFF		
	(rear LH)	Press	ON		
DRIVER SW	Sliding door open/close switch	Release	OFF		
JNIVER OV	(front LH)	Press	ON		
ACC On SW	Ignition position	Other than below	OFF		
		ON, ACC position	ON		
DOR HAND SW L	Sliding door handle LH	Release	OFF		
		Pull	ON		
TOUCH SEN LH	Sliding door touch sensor LH	Other than below	OFF		
		Pinching detection	ON		
RR-LH DOOR SW	Sliding door LH	Close	OFF		
		Open	ON		
HAF LATC SW L	Sliding door LH	Half latch/fully closed	OFF		
		Open	ON		
P RANGE SW	Selector lever	Other than P position	OFF		
		P position	ON		
RDAKE SIM	Brake pedal	Not depressed	OFF		
BRAKE SW		Depressed	ON		
P BRAKE SW	Parking brake	Not operate	OFF		
		Operate	ON		
		Pressed for short period of time	REV		
KEYLESS SIG	Intelligent Key button (sliding door LH)	Pressed for long period of time	MOVE		
		No operation	OFF		

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condit	Condition		
IGN SW	Ignition position	Other than below	OFF	
		ON position	ON	
ENCODER A LH	Sliding door LH	Moving (auto or manual)	HI ⇔ LO	
ENCODER A LH		When stopped	HI or LO	
		Moving (auto or manual)	HI ⇔ LO	
ENCODER B LH	Sliding door LH	When stopped	HI or LO	
CHILD LOCK SW	Child lock	Lock	OFF	
		Unlock	ON	
FULL LATC SW L		Full closed	OFF	
FULL LATC SVV L	Sliding door LH	Other than below	ON	
		Neutral position	OFF	
NEUTRAL SW	Sliding door closure motor LH	Other than below	ON	

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Condition		Voltage
(+)	()	Signal name	Input/ Output			volage
1	Ground	Automatic door main	Input	Automatic door	OFF	8 – 16 V
(Y)	Cround	switch	mput	main switch	ON	0 – 1.5 V
2	Onesteral	Sliding door open/	la a d	Sliding door	Released	8 – 16 V
(R)	Ground	close switch (rear LH)	Input	out open/close switch (rear LH)	Pressed	0 – 1.5 V
3	Ground	Sliding door lock sta-	Input	Sliding door lock	Unlock	0 – 1.5 V
(SB)	Croana	tus switch	mput	knob	Lock	8 – 16 V
4 (GR)	Ground	Encoder A signal	Input	Sliding door LH	Moving (auto or manual)	(V) 6 4 2 0 2 0 2 0 2 0 3 3 3 3 3 3 3 3 3 3 3 3 3
					When stopped	4 V or 0 – 0.5 V

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Voltage
(+)	()	Signal name	Input/ Output	Contaitor		volage
5 (LG)	Ground	Half latch switch	Input	Sliding door LH	Open Full closed/half latch	0 – 1.5 V 8 – 16 V
6 (W)	Ground	Power supply (IGN)	Input	Ignition switch ON	1	9 – 16 V
8 (W)	Ground	Automatic sliding door warning buzzer	Output	Automatic slid- ing door warning buzzer LH	Sounding Not sounding	0 – 1.5 V 8 – 16 V
9 (P)	Ground	CAN - L	Input/ Output	-	_	_
10 (L)	Ground	CAN - H	Input/ Output	_	_	_
11 (O)	Ground	Encoder power sup- ply	Output	Ignition switch OF	F	8 – 16 V
12 (LG)	Ground	Power supply (BAT)	Input	Ignition switch OF	F	8 – 16 V
14		Sliding door one-		Sliding door one-	Released	8 – 16 V
(GR)	Ground	touch open/close switch	Output	touch open/ close switch LH	Pressed	0 – 1.5 V
15					Neutral position	8 – 16 V
15 (R)	Ground	Neutral switch	Input	Sliding door clo- sure motor	Other than above	0 – 1.5 V
17	Ground	Fuel filler lid status	Input	Fuel filler lid sta-	OFF	8 – 16 V
(G)	Cibulia	switch	input	tus switch	ON	0 – 1.5 V
18					Full closed	8 – 16 V
(L)	Ground	Full latch switch	Input	Sliding door LH	Other than above	0 – 1.5 V
19 (P)	Ground	Sliding door open/ close switch (front	Input	Sliding door open/close	Released	8 – 16 V 0 – 1.5 V
		side)		switch (front LH)	Unlock	0 – 1.5 V
20 (R)	Ground	Child lock status switch	Input	Child lock	Lock	8 – 16 V
21 (BR)	Ground	Encoder B signal	Input	Sliding door LH	Moving (auto or manual)	(V) 6 4 2 0 <i>I</i> <i>I</i> <i>I</i> <i>I</i> <i>I</i> <i>I</i> <i>I</i> <i>I</i>
					When stopped	4 V or 0 – 0.5 V
22	Ground	Sliding door handle	Input	Sliding door han-	Released	8 – 16 V
(O)	Croand	switch	input	dle LH	Pulled	0 – 1.5 V
23 (B)	Ground	Ground	_	-	_	0 V

< ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description		Condition		Valtara
(+)	(—)	Signal name	Input/ Output	Con	aition	Voltage
24	Ground	Sliding door touch	lagut	Sliding door	Pinching detec- tion	0 – 1.5 V
(G)	Ground	sensor	Input	touch sensor LH	Other than above	4 – 8 V
26 (SB)	Ground	Ground (encoder)	_	-	_	0 V
27 (B/Y)	Ground	Ground	_	-	_	0 V
28	Ground	Sliding door switch	Input	Sliding door	Close	8 – 16 V
(V)		<u> </u>		switch LH	Open	0 – 1.5 V
33 (B/Y)	Ground	Ground	_	-	_	0 V
34		Sliding door closure	-	Sliding door clo-	Close operation	9 – 16 V
(GR)	Ground	motor (close)	Output	sure motor LH	Other than above	0 – 1.5 V
35		Sliding door closure		Sliding door clo-	Return operation	9 – 16 V
(SB)	Ground	motor (return)	Output	sure motor LH	Other than above	0 – 1.5 V
36 (V)	Ground	Power supply (BAT)	Input	Ignition switch OFF		9 – 16 V
37 (B/Y)	Ground	Ground	_	_		0 V
39		Sliding door lock re-		Sliding door lock	Operate	0 – 1.5 V
(G)	Ground	lease actuator (-)	Output	release actuator LH	Other than above	0 V
40		Sliding door lock re-		Sliding door lock	Operate	9–16 V
(Y)	Ground	lease actuator (+)	Output	release actuator LH	Other than above	0 V
42 (V)	Ground	Power supply (sliding door auto closure)	Input	Ignition switch OF	F	9–16 V
43	Ground	Sliding door motor	Output	Sliding door LH	Auto open oper- ation	9 – 16 V
(R)	Cround	(open)	Output		Other than above	0 – 1.5 V
44	Ground	Clutch (-)	Output	Clutch LH	ON	0 – 1.5 V
(P)	Cround		Output		OFF	0 V
46	Ground	Sliding door motor	Output	Sliding door LH	Auto close oper- ation	9 – 16 V
(W)		(close)			Other than above	0 – 1.5 V
47	Ground	Clutch (+)	Output	Clutch LH	ON	9 – 16 V
(SB)					OFF	0 V

LH : Fail-safe

INFOID:000000009649025

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

DLK-114

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2405: ECU FAIL	-	Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed po- sition
B2412: ASD MTR/ENCDR	_	Sliding door control unit detects that sliding door is in the fully closed po- sition
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed po- sition
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

^{*2}: After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated. L

LH : DTC Inspection Priority Chart

INFOID:000000009649026

Priority	DTC	
1	 U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B2401: IGN OPEN B2405: ECU FAIL 	N
2	B2402: TOUCH SENSOR OPEN B2403: PULSE ENCODER B2409: HALF LATCH SW B241A: ENCDR PWR SUPLY	— 0 P
3	B2412: ASD MTR/ENCDR B2413: ASD MTR/ENCDR B2414: ASD MTR TIME OUT	

LH : DTC Index

NOTE:

INFOID:000000009649027

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< ECU DIAGNOSIS INFORMATION >

- The details of time display are as follows.
- CRNT: A malfunction is detected now.

• PAST: A malfunction was detected in the past.

CONSULT display	Fail-safe	Reference page
U1000: CAN COMM CIRCUIT	_	<u>DLK-171</u>
U1010: CONTROL UNIT (CAN)	×	<u>DLK-173</u>
B2401: IGN OPEN	×	<u>DLK-174</u>
B2402: TOUCH SENSOR OPEN	×	<u>DLK-177</u>
B2403: PULSE ENCODER	×	<u>DLK-182</u>
B2405: ECU FAIL	×	<u>DLK-187</u>
B2409: HALF LATCH SW	×	<u>DLK-189</u>
B2412: ASD MTR/ENCDR	×	DLK-197
B2413: ASD MTR/ENCDR	×	<u>DLK-203</u>
B2414: ASD MTR TIME OUT	×	DLK-206
B241A: ENCDR PWR SUPLY	×	<u>DLK-194</u>

RH

RH : Reference Value

INFOID:000000009649028

CONSULT MONITOR ITEM **NOTE**:

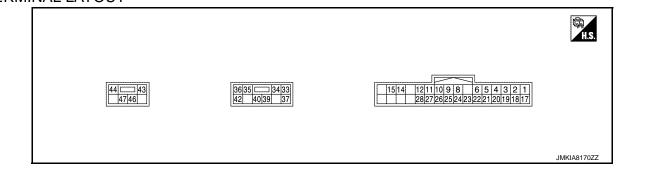
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition	Value/Status	
SPEED METER	While driving	Equivalent to speedometer reading	
ABS SPEED	While driving		Equivalent to speedometer reading
MAIN SW	Automatic door main switch	OFF	OFF
MAIN SW	Automatic door main switch	ON	ON
KNOB LCK SW R		Lock	OFF
KNUB LUK SW R	Sliding door lock knob RH	Unlock	ON
ONE-TOUCH SW	Sliding door one-touch open/close	Release	OFF
UNE-TOUCH SW	switch RH	Press	ON
F LID SW	NOTE: This item is displayed, but cannot b	OFF	
	Sliding door open/close switch	Release	OFF
B PILLER SW	(rear RH)	Press	ON
DRIVER SW	Sliding door open/close switch	Release	OFF
DRIVER SW	(front RH)	Press	ON
	Invition position	Other than bellow	OFF
ACC On SW	Ignition position	ON, ACC position	ON
DOR HAND SW R	Sliding door bondlo DH	Release	OFF
DOK HAND SW K	Sliding door handle RH	Pull	ON
	Oliding deer touch concer DU	Other than bellow	OFF
TOUCH SEN RH	Sliding door touch sensor RH	Pinching detection	ON

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Conditio	n	Value/Status	
		Close	OFF	A
RR-RH DOOR SW	Sliding door RH	Open	ON	
	Cliding door DLL	Half latch/fully closed	OFF	В
HAF LATC SW R	Sliding door RH	Open	ON	
	Selector lever	Other than P position	OFF	
P RANGE SW	Selector level	P position	ON	С
	Dealer and al	Not depressed	OFF	
BRAKE SW	Brake pedal	Depressed	ON	D
	Derkie e koeke	Not operate	OFF	D
P BRAKE SW	Parking brake	Operate	ON	
		Pressed for short period of time	REV	E
KEYLESS SIG	Intelligent Key button (sliding door RH)	Pressed for long period of time	MOVE	F
		No operation	OFF	
		Other than bellow	OFF	
IGN SW	Ignition position	ON position	ON	G
		Moving (auto or manual)	HI ⇔ LO	
ENCODER A RH	Sliding door RH	When stopped	HI or LO	Н
		Moving (auto or manual)	HI ⇔ LO	
ENCODER B RH	Sliding door RH	When stopped	HI or LO	
		Lock	OFF	
CHILD LOCK SW	Child lock	Unlock	ON	
		Full closed	OFF	J
FUL LATC SW R	Sliding door RH	Other than bellow	ON	0
		Neutral position	OFF	
NEUTRAL SW	Sliding door closure motor RH	Other than bellow	ON	DL

TERMINAL LAYOUT



PHYSICAL VALUES

-		nal No. color)	Description		Con	dition	Voltage	Р
-	(+)	(-)	Signal name	Input/ Output	Con	anon	volage	
-	1	Ground	Automatic door main	Input	Automatic door	OFF	8 – 16 V	
_	(Y)	Gibunu	switch	input	main switch	ON	0 – 1.5 V	

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Con	dition	Voltage
(+)	(-)	Signal name	Input/ Output	Con	union	voltage
2		Sliding door open/		Sliding door	Released	8 – 16 V
(BR)	Ground	close switch (rear RH)	Input	open/close switch (rear RH)	Pressed	0 – 1.5 V
3	Ground	Sliding door lock sta-	Input	Sliding door lock	Unlock	0 – 1.5 V
(L)	Clouid	tus switch	mput	knob RH	Lock	8 – 16 V
4 (R)	Ground	Encoder A signal	Input	Sliding door RH	Moving (auto or manual)	(V) 6 2 0 2 0 2 0 2 0 3 3 3 3 3 3 3 3 3 3 3 3 3
					When stopped	4 V or 0 – 0.5 V
5					Open	0 – 1.5 V
(GR)	Ground	Half latch switch	Input	Sliding door RH	Full closed/half latch	8 – 16 V
6 (LG)	Ground	Power supply (IGN)	Input	Ignition switch ON	1	9 – 16 V
8		Automatic sliding		Automatic slid-	Sounding	0 – 1.5 V
(BR)	Ground	door warning buzzer	Output	ing door warning buzzer RH	Not sounding	8 – 16 V
9 (P)	Ground	CAN - L	Input/ Output	-	_	_
10 (L)	Ground	CAN - H	Input/ Output	-	_	_
11 (G)	Ground	Encoder power sup- ply	Output	Ignition switch OF	F	8 – 16 V
12 (O)	Ground	Power supply (BAT)	Input	Ignition switch OF	F	8 – 16 V
14		Sliding door one-		Sliding door one-	Released	8 – 16 V
(SB)	Ground	touch open/close switch	Output	touch open/ close switch RH	Pressed	0 – 1.5 V
15				Sliding door clo-	Neutral position	8 – 16 V
(V)	Ground	Neutral switch	Input	sure motor	Other than above	0 – 1.5 V
18					Full closed	8 – 16 V
(W)	Ground	Half latch switch	Input	Sliding door RH	Other than above	0 – 1.5 V
19	0	Sliding door open/		Sliding door	Released	8 – 16 V
(GR)	Ground	close switch (front side)	Input	open/close switch (front RH)	Pressed	0 – 1.5 V
20	Ground	Child lock status	Input	Child lock	Unlock	0 – 1.5 V
(LG)		switch			Lock	8 – 16 V

< ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description		Con	dition	Voltage	
(+)	(-)	Signal name	Input/ Output	Con		voltage	
21 (V)	Ground	Encoder B signal	Input	Sliding door RH	Moving (auto or manual)	(V) 6 4 2 0 2 0 2 0 3 2 0 3 3 3 3 3 3 3 3 3 3 3 3 3	
					When stopped	4 V or 0 – 0.5 V	
22	Ground	Sliding door handle	Input	Sliding door han-	Released	8 – 16 V	
(Y)		switch		dle RH	Pulled	0 – 1.5 V	
23 (B)	Ground	Ground	—	-	_	0 V	
24	Ground	Sliding door touch	Incut	Sliding door	Pinching detec- tion	0 – 1.5 V	
(G)	Ground	sensor	Input	touch sensor RH	Other than above	4 – 8 V	
26 (GR)	Ground	Ground (encoder)		-	_	0 V	
27 (B/Y)	Ground	Ground	—	-	_	0 V	
28	Ground	Sliding door switch	Input	Sliding door	Close	8 – 16 V	
(W)				switch RH	Open	0 – 1.5 V	
33 (B/R)	Ground	Ground	_	-	_	0 V	
34	Oneveral	Sliding door closure	Outrast	Sliding door clo-	Close operation	9 – 16 V	
(R)	Ground	motor (close)	Output	sure motor RH	Other than above	0 – 1.5 V	
35		Sliding door closure		Sliding door clo-	Return operation	9 – 16 V	
(G)	Ground	motor (return)	Output	sure motor RH	Other than above	0 – 1.5 V	
36 (Y)	Ground	Power supply (BAT)	Input	Ignition switch OF	F	9 – 16 V	
37 (B/R)	Ground	Ground	—	-	_	0 V	
39		Sliding door lock re-		Sliding door lock	Operate	0 – 1.5 V	
(L)	Ground	lease actuator (-)	Output	release actuator RH	Other than above	0 V	
40	0	Sliding door lock re-	0	Sliding door lock	Operate	9 – 16 V	
(O)	Ground	lease actuator (+)	Output	release actuator RH	Other than above	0 V	
42 (Y)	Ground	Power supply (sliding door auto closure)	Input	Ignition switch OF	F	9 – 16 V	

< ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description		Con	dition	Voltage
(+)	(-)	Signal name	Input/ Output	Con		volage
43	Ground	Sliding door motor	Output	Sliding door RH	Auto open oper- ation	9 – 16 V
(B)	Ground	(open)	Output		Other than above	0 – 1.5 V
44	Ground	Clutch (-)	Output	Clutch RH	ON	0 – 1.5 V
(L)	Giouna		Output	Clutch Kh	OFF	0 V
46	Ground	Sliding door motor	Output	Sliding door RH	Auto close oper- ation	9 – 16 V
(W)	Giouna	(close)	Output		Other than above	0 – 1.5 V
47	Ground	Clutch(u)	Output	Clutch RH	ON	9 – 16 V
(BR)	Giouna	Clutch (+)	Output		OFF	0 V

RH : Fail-safe

INFOID:000000009649029

FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

Display contents of CONSULT	Fail-safe	Reference page ^{*1}
U1010: CAN COMM CIRCUIT		Return to normal status ^{*2}
B2401: IGN OPEN		 When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN	_	Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2405: ECU FAIL	-	Erase DTC ^{*2}
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed po- sition
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed po- sition
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed po- sition
B241A: ENCDR PWR SUPLY		 When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

< ECU DIAGNOSIS INFORMATION >

^{*1}: When battery is reconnected, cancellation conditions are unconditionally fulfilled.

*2: After returning to normal status, auto open/close function does not operate unless sliding door auto closure А function is operated.

RH : DTC Inspection Priority Chart

INFOID:000000009649030 В

INFOID:000000009649031

Priority	DTC
1	 U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B2401: IGN OPEN B2405: ECU FAIL
2	 B2402: TOUCH SENSOR OPEN B2403: PULSE ENCODER B2409: HALF LATCH SW B241A: ENCDR PWR SUPLY
3	 B2412: ASD MTR/ENCDR B2413: ASD MTR/ENCDR B2414: ASD MTR TIME OUT

RH : 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.

CONSULT display	Fail-safe	Reference page	
U1000: CAN COMM CIRCUIT	—	<u>DLK-172</u>	
U1010: CONTROL UNIT (CAN)	X	<u>DLK-173</u>	
B2401: IGN OPEN	×	<u>DLK-175</u>	
B2402: TOUCH SENSOR OPEN	X	DLK-179	
B2403: PULSE ENCODER	×	<u>DLK-184</u>	_
B2405: ECU FAIL	×	DLK-187	DL
B2409: HALF LATCH SW	×	DLK-192	
B2412: ASD MTR/ENCDR	×	DLK-199	
B2413: ASD MTR/ENCDR	×	DLK-203	_ L
B2414: ASD MTR TIME OUT	×	DLK-207	
B241A: ENCDR PWR SUPLY	×	DLK-195	M

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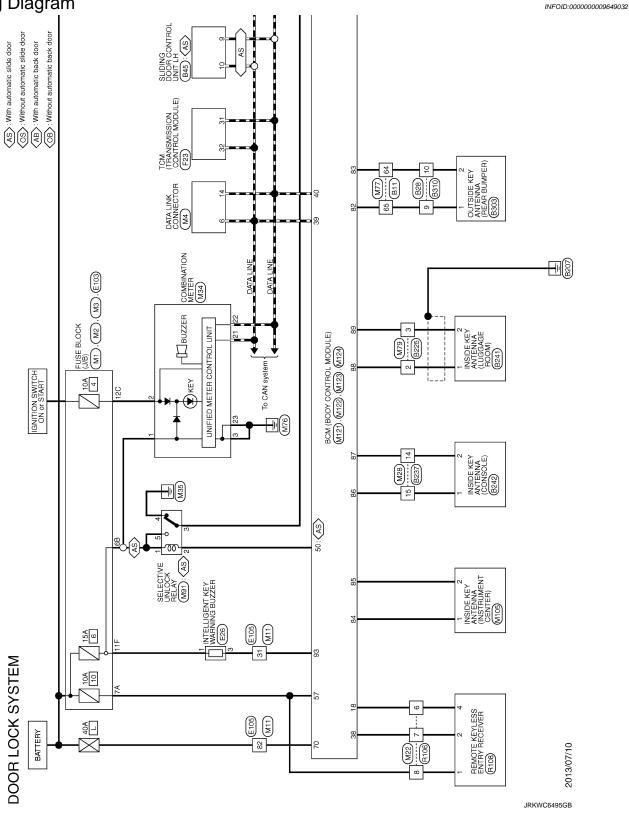
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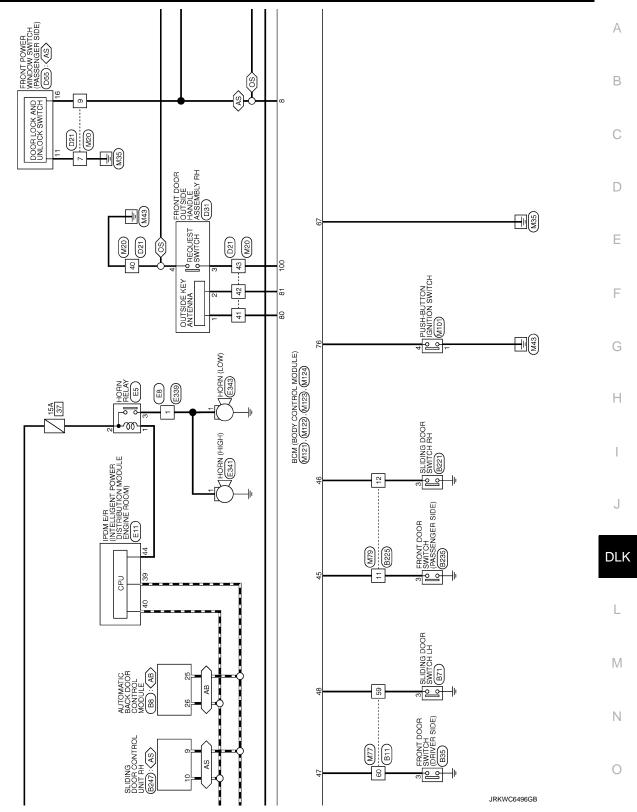
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< WIRING DIAGRAM >

WIRING DIAGRAM DOOR & LOCK SYSTEM

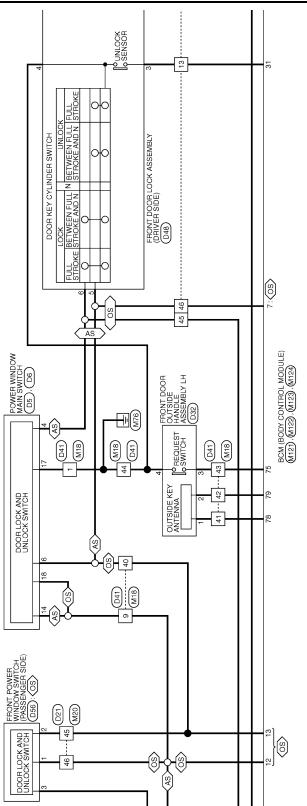
Wiring Diagram





DOOR & LOCK SYSTEM

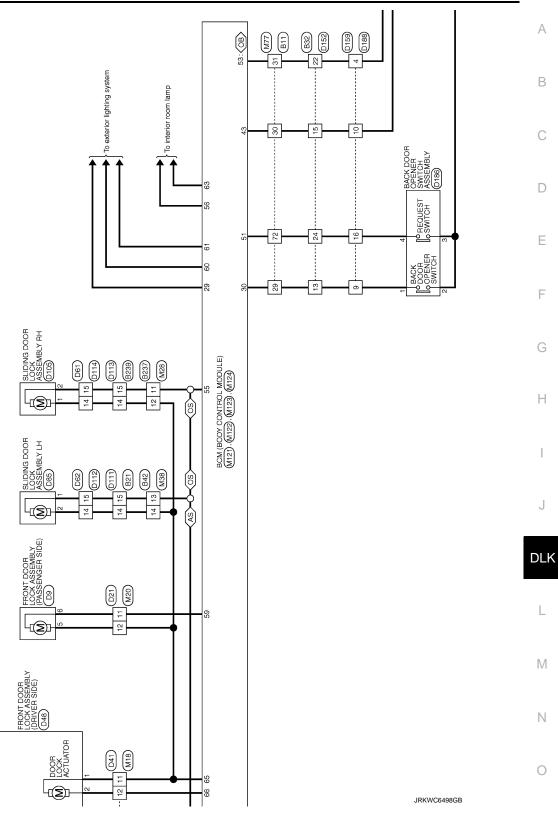
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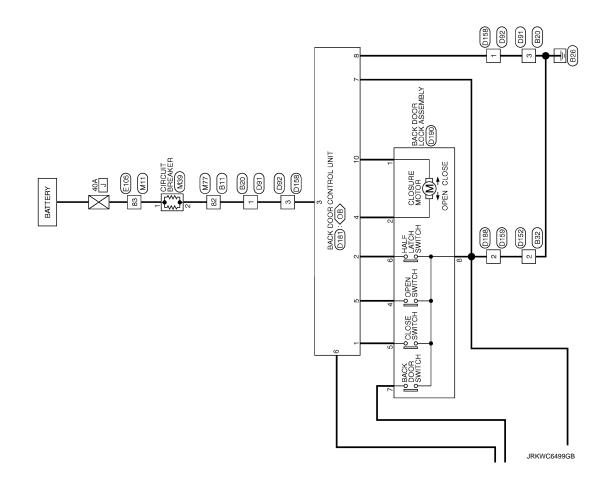
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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >



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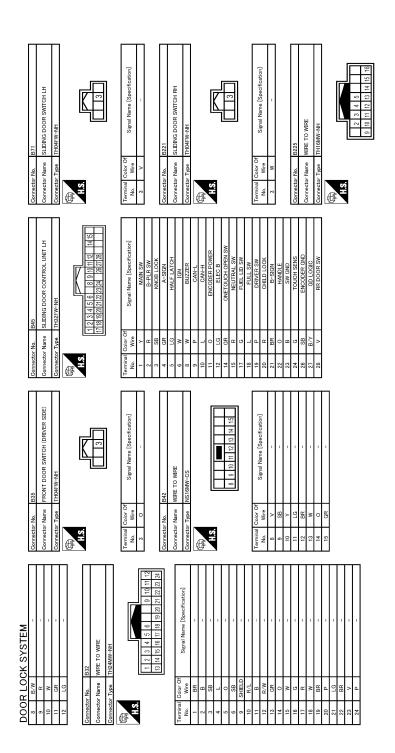


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JRKWC6500GB

Р

DOOR & LOCK SYSTEM



JRKWC6501GB

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B247 SLUDING DOOR CONTROL UNIT FAI SLUDING DOOR CONTROL UNIT FAI H1227W-HH H1227W-HH MAIN SW MAIN SW <	С
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DOOR & LOCK SYSTEM

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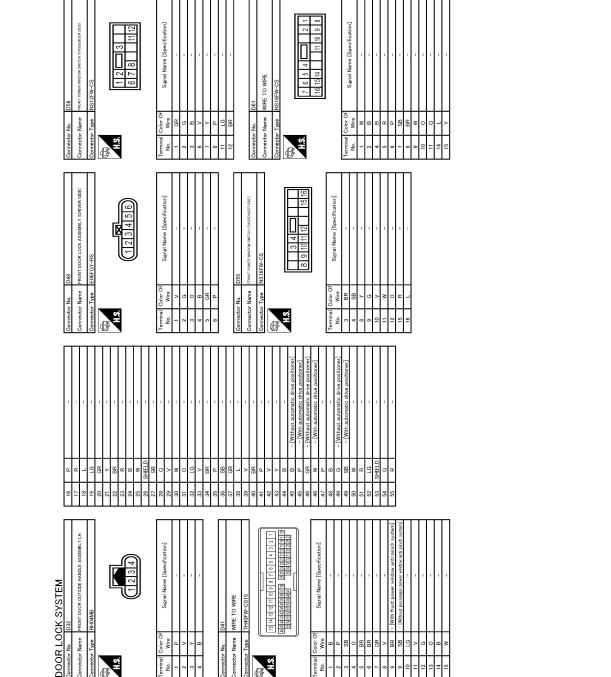
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< WIRING DIAGRAM >

DOOR L Connector No.	DOOR LOCK SYSTEM Genneetor No. B303 Connector Name OUTSIDE KEY ANTENIAA (REAR BUMPER)	(BUMPER)	Conne	Connector No.	D5 POWER WINDOW MAIN SWITCH	Terminal No.	Terminal Color Of No. Wire	Signal Name [Specification]		Π
Connect			Conne	ctor Type	Connector Type NS16FW-CS	17 18	в 8 с	· · ·	19 W	
。 『	~		ſ			2	2]	<u></u> ф	Π
6-H		C	<u>6</u> .1	2	10 10	Connector No.	r No. D9	6	H	Π
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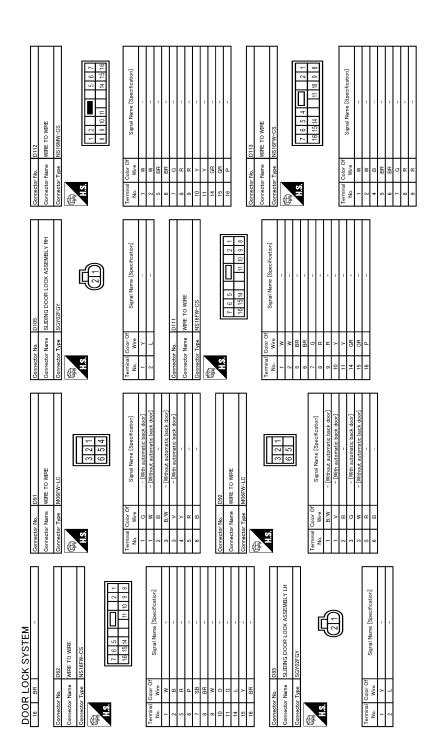
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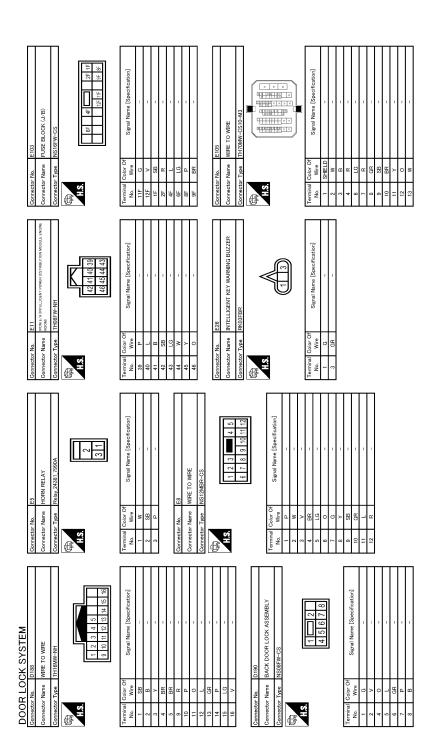
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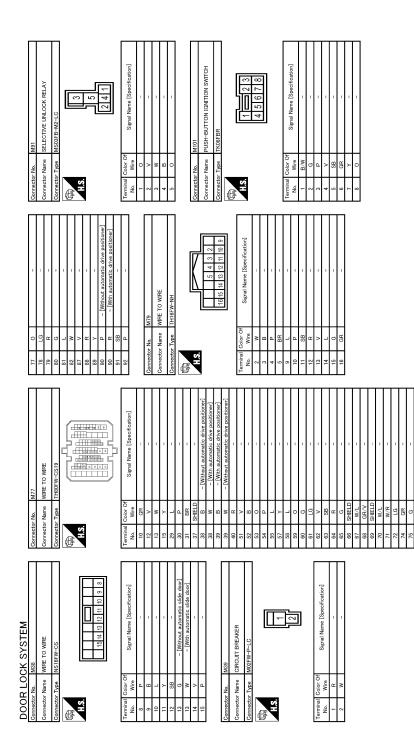
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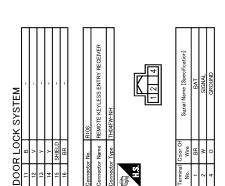
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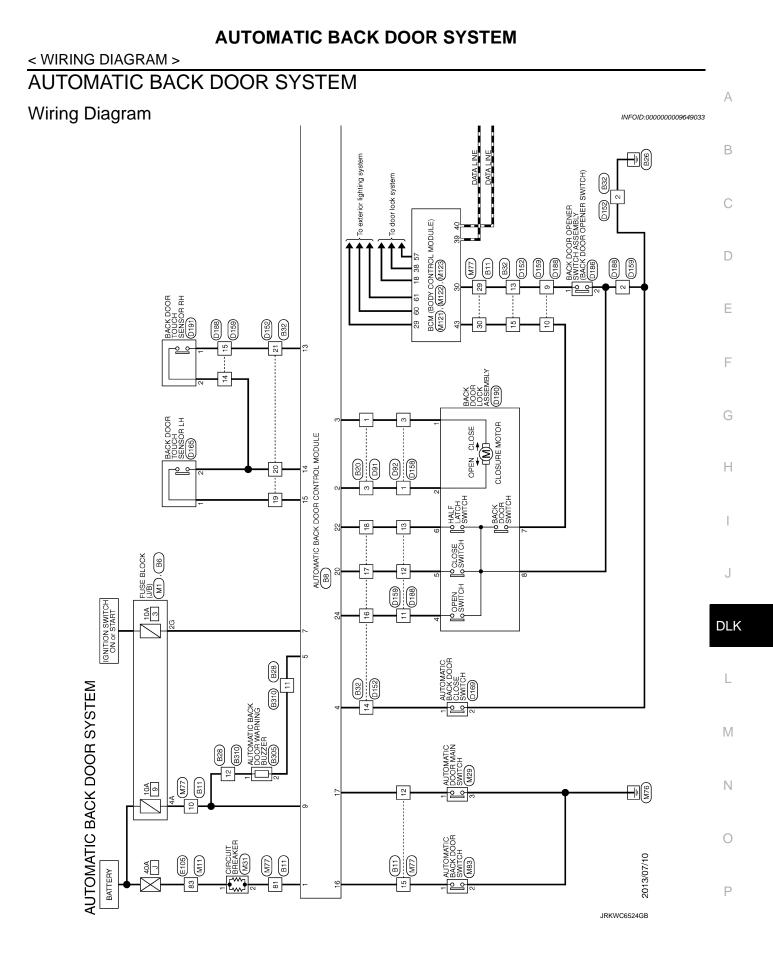
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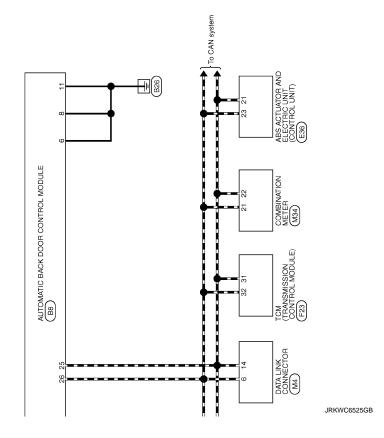
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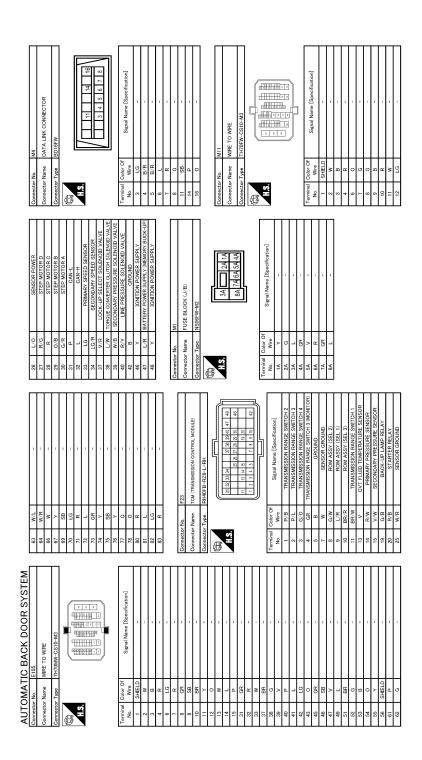
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Signal Name [Specification]	REAR WINDOW DEF RELAY CONT	COMBI SW INPUT 5	COMBLEW INPUT 4		COMBLSW INPLIT 1	KEY CYL UNLOCK SW	PW SW COMM [With automatic sliding door]	KEY CYL LOCK SW [Without automatic sliding door]	STOP LAMP SW 1	DOOR LK & UNLK SW LOCK	DOOR LK & UNLK SW UNLOCK	OPTICAL SENS	REAR WINDOW DEF OW	SENS DIM SDI V	RECENT/SENS GND	NATS ANT AMP.	SECURITY IND CONT	DONGLE LINK	NATS ANT AMP.	A/C ON	BLOWER FAN ON	HAZARD SW	BK DOOR OPNR SW	DR DOOR UNLK SENS	COMBI SW OUTPUT 5	COMBI SW OUTPUT 4	COMBLOW OUT 01 COMPLOY	COMBI SW OUTPUT 1	DETENT SW	RECEIVER COMM	CAN-H	CAN-L												
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JRKWC6531GB

INTEGRATED HOMELINK TRANSMITTER SYSTEM

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INTEGRATED HOMELINK TRANSMITTER SYSTEM

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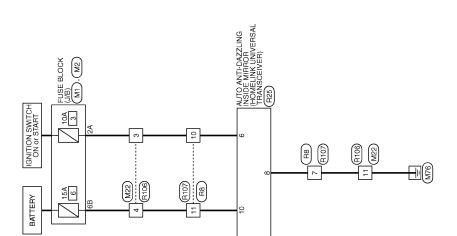
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INTEGRATED HOMELINK TRANSMITTER

2012/07/19

JRKWC2316GB

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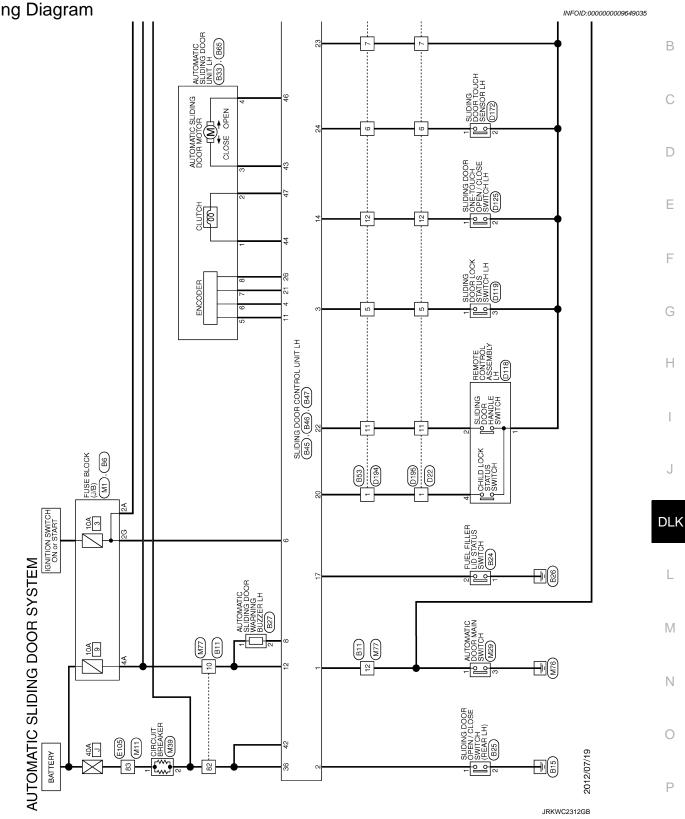
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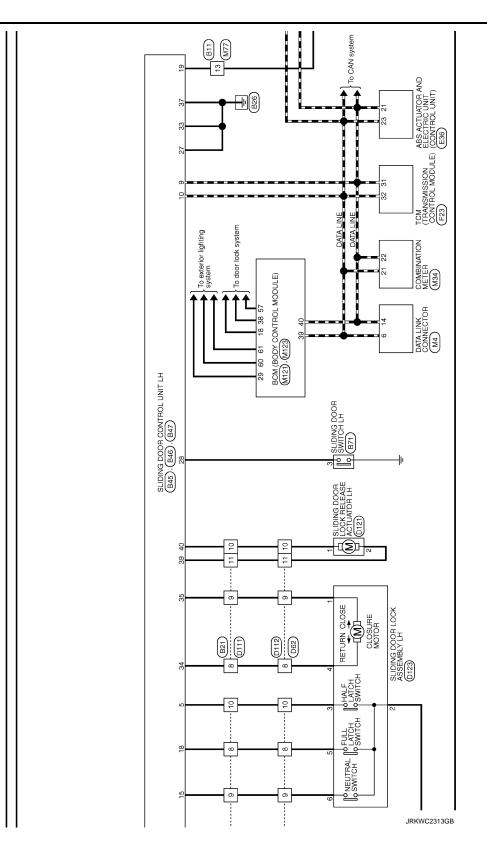
AUTOMATIC SLIDING DOOR SYSTEM

Wiring Diagram

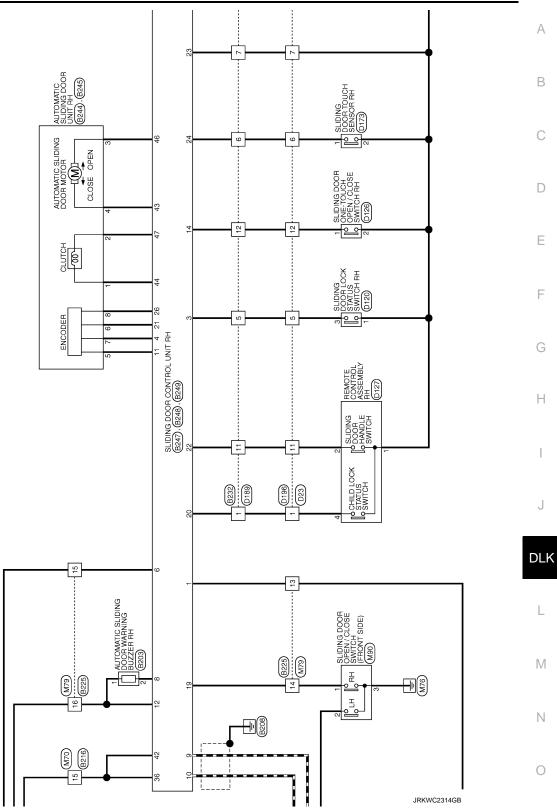


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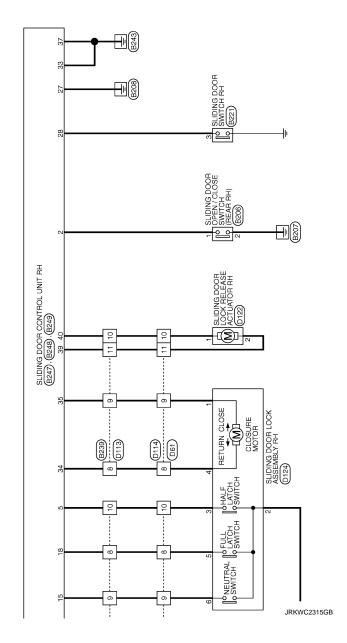
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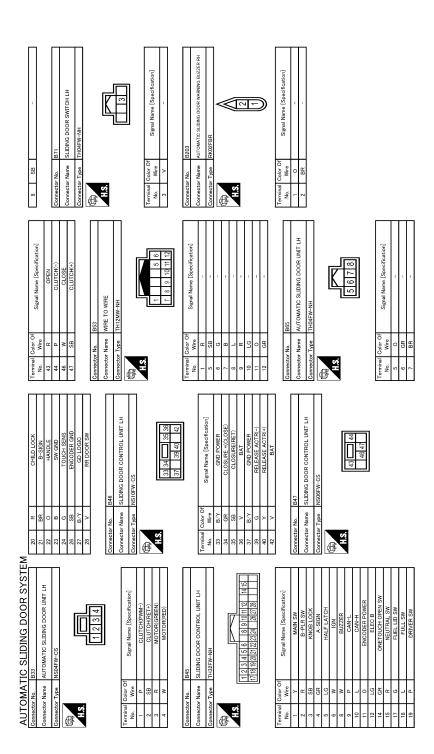
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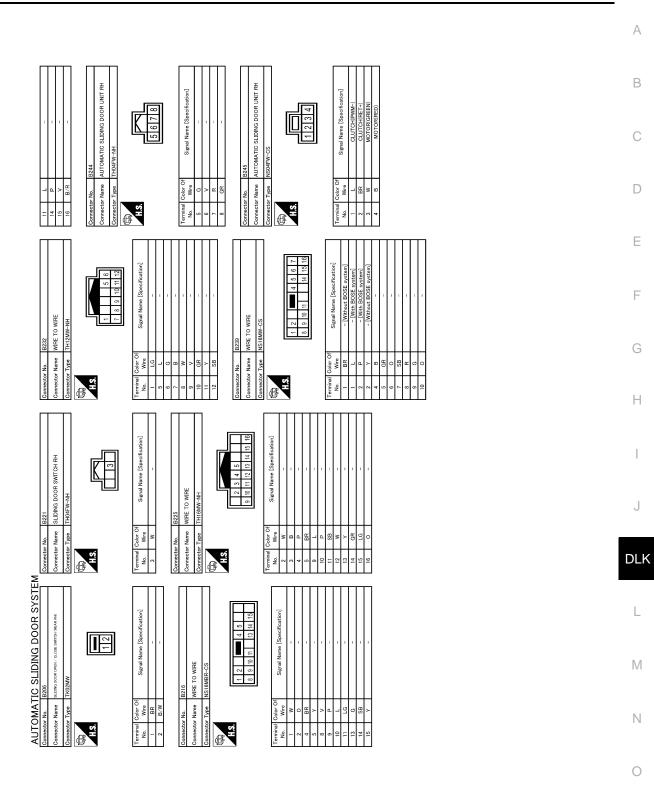
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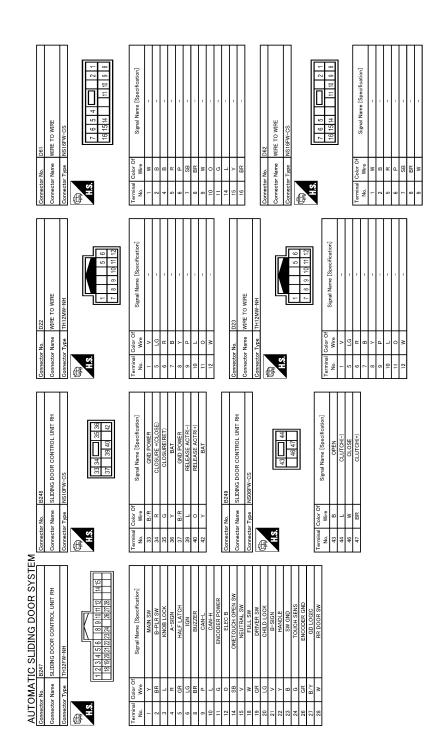
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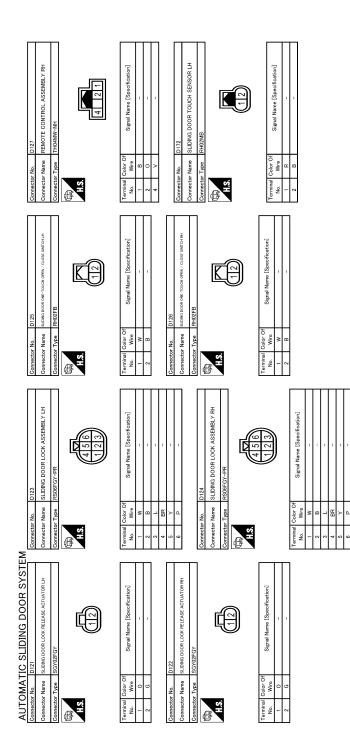
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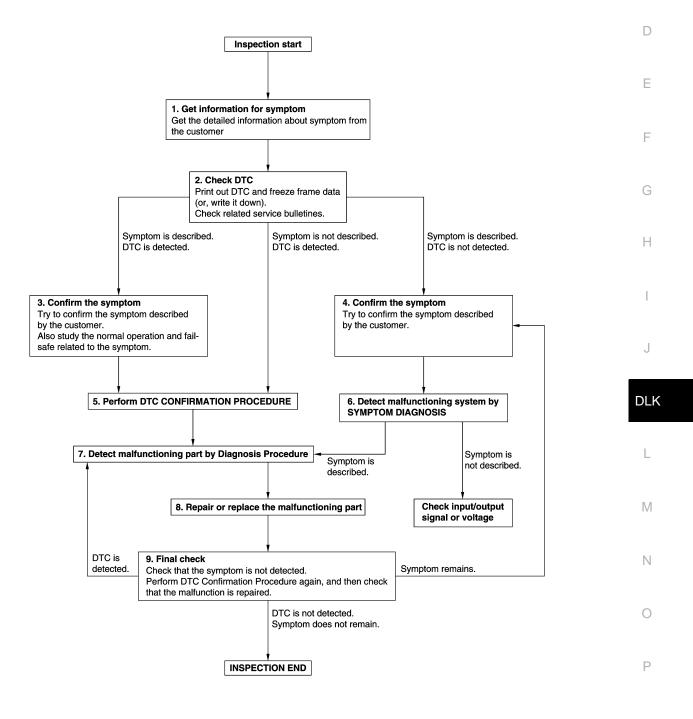
BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

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OVERALL SEQUENCE



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DETAILED FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Are any symptoms described and any DTC detected?

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

3.CONFIRM THE SYMPTOM

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to <u>BCS-62</u>, "<u>DTC Inspection Priority Chart</u>" (BCM), and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIR-MATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to <u>GI-42. "Intermittent Incident"</u>.

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

- YES >> GO TO 7.
- NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-SULT.
- 7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >	
Inspect according to Diagnosis Procedure of the system.	
Is malfunctioning part detected?	А
YES >> GO TO 8.	
NO >> Check according to <u>GI-42, "Intermittent Incident"</u> .	В
8.REPAIR OR REPLACE THE MALFUNCTIONING PART	
 Repair or replace the malfunctioning part. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement. 	С
3. Check DTC. If DTC is detected, erase it.	
>> GO TO 9.	D
9.FINAL CHECK	
When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.	Ε
When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.	F
Is DTC detected and does symptom remain?	
YES-1 >> DTC is detected: GO TO 7.	
YES-2 >> Symptom remains: GO TO 4. NO >> Before returning the vehicle to the customer, always erase DTC.	G
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ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMI-NAL

AUTOMATIC BACK DOOR SYSTEM

AUTOMATIC BACK DOOR SYSTEM : Description

INFOID:000000009649037

INFOID:000000009649038

When the battery is disconnected from the negative terminal, it is necessary to perform initial setting to operate automatic back door system normally.

CAUTION:

The following specified operations are not performed under the non-initialized condition.

- Automatic back door open/close function
- Anti-pinch function

AUTOMATIC BACK DOOR SYSTEM : Work Procedure

1.INITIALIZATION

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

CAUTION:

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

>> WORK END

AUTOMATIC SLIDING DOOR SYSTEM

AUTOMATIC SLIDING DOOR SYSTEM : Description

When the battery is disconnected from the negative terminal, it is necessary to perform initial setting to operate automatic sliding door system normally.

CAUTION:

Be careful of sliding door that does not operate smoothly in the non-initialized status because door speed is constant during automatic open/close operation. Also, be careful of high reverse load.

AUTOMATIC SLIDING DOOR SYSTEM : Work Procedure

INFOID:000000009649040

INFOID:000000009649039

1.INITIALIZATION

- 1. Operate automatic sliding door open/close switch or automatic sliding door one-touch open/close switch, and the automatic open function operates. (Perform open operation first in the non-initialized status regardless of sliding door position)
- 2. After sliding door is stopped in the fully open position, operate automatic sliding door open/close switch or automatic sliding door one-touch open/close switch, and the automatic close function operates.
- 3. Check for noise or malfunctioning during operation.
- 4. Check that automatic sliding door warning buzzer operates.

CAUTION:

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

>> WORK END

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CON-TROL MODULE

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL MODULE

Description INFOID:000000009649041	В
 When replacing control module, or removing connector terminal, it is necessary to perform initial setting to operate automatic back door system normally. CAUTION: The following specified operations are not performed under the non-initialized condition. Automatic back door open/close function Anti pipeh function 	С
Anti-pinch function Work Procedure	D
WOIK FIOCEDUIE	
1.INITIALIZATION	Е
1. Fully close the back door manually. (when back door is already fully closed, this operation is not neces- sary)	
 Perform automatic back door open/close operation of back door. Check for noise or malfunctioning during operation. 	F
4. Check that hazard lamp blinks and that warning buzzer operates.	
CAUTION: Never touch back door, or allow foreign materials to be pinched in door, when performing automatic back door open/close operation of back door, until it is in the fully closed or fully open position.	G
>> WORK END	Η
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ADDITIONAL SERVICE WHEN REPLACING SLIDING DOOR CONTROL UNIT

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING SLIDING DOOR CONTROL UNIT

Description

INFOID:000000009649043

When replacing control module, or removing connector terminal, it is necessary to perform initial setting to operate automatic sliding door system normally.

CAUTION:

Be careful of sliding door that does not operate smoothly in the non-initialized status because door speed is constant during automatic open/close operation. Also, be careful of high reverse load.

Work Procedure

INFOID:000000009649044

1.INITIALIZATION

- 1. Operate automatic sliding door open/close switch or automatic sliding door one-touch open/close switch, and the automatic open function operates. (Perform open operation first in the non-initialized status regardless of sliding door position)
- 2. After sliding door is stopped in the fully open position, operate automatic sliding door open/close switch or automatic sliding door one-touch open/close switch, and the automatic close function operates.
- 3. Check for noise or malfunctioning during operation.
- 4. Check that automatic sliding door warning buzzer operates.

CAUTION:

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

>> WORK END

U1000 CAN COMM CIRCUIT

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-32, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart".

SLIDING DOOR LH : DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
U1000	CAN COMM	When sliding door control unit cannot commu- nicate CAN communication signal continuous- ly for 2 seconds or more.	

INFOID:000000009649049

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< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR LH : Diagnosis Procedure

1.PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-17, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-42, "Intermittent Incident".

SLIDING DOOR RH

SLIDING DOOR RH : 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 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 <u>LAN-32, "CAN COMMUNICATION SYSTEM : CAN Communica-</u> tion Signal Chart".

SLIDING DOOR RH : DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
U1000	CAN COMM	When sliding door control unit cannot commu- nicate CAN communication signal continuous- ly for 2 seconds or more.	

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649053

1.PERFORM SELF DIAGNOSTIC

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

2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to LAN-17, "Trouble Diagnosis Flow Chart".
- NO >> Refer to <u>GI-42</u>, "Intermittent Incident".

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INFOID:000000009649051

INFOID:000000009649052

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	ITROL UNIT (
AUTOMATIC	BACK DOOR	CONTROL MODULE	
AUTOMATIC	BACK DOOR	CONTROL MODULE : DTC Log	INFOID:000000009649054
DTC DETECTIO	ON LOGIC		
DTC	CONSULT display description	DTC detecting condition	Possible cause
U1010	CONTROL UNIT (CAN)	Automatic back door control unit detected inter- nal CAN communication circuit malfunction	Automatic back door control mod- ule
AUTOMATIC	BACK DOOR	CONTROL MODULE : Diagnosi	s Procedure INFOID:00000009649055
		OOR CONTROL MODULE	
		ace automatic back door control module.	
	TOJ IS delected, Tepi		
		door control module. Refer to DLK-495.	"Removal and Installation".
SLIDING DO	OR LH		
SLIDING DO	OR LH : DTC L	ogic	INFOID:00000009649056
DTC DETECTIO	JN LOGIC		
	CONSULT display		
DTC	description	DTC detecting condition	Possible cause
DTC U1010		Sliding door control unit LH detected internal CAN communication circuit malfunction	Possible cause Sliding door control unit LH
U1010	description CONTROL UNIT	Sliding door control unit LH detected internal CAN communication circuit malfunction	
U1010 SLIDING DO	description CONTROL UNIT (CAN)	Sliding door control unit LH detected internal CAN communication circuit malfunction DSIS Procedure	Sliding door control unit LH
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U1010 SLIDING DO 1.REPLACE SL	description CONTROL UNIT (CAN) OR LH : Diagno IDING DOOR CON	Sliding door control unit LH detected internal CAN communication circuit malfunction Osis Procedure TROL UNIT	Sliding door control unit LH
U1010 SLIDING DO 1.REPLACE SL When DTC [U10 >> Repl	description CONTROL UNIT (CAN) OR LH : Diagno IDING DOOR CON 10] is detected, repl ace sliding door cor	Sliding door control unit LH detected internal CAN communication circuit malfunction Osis Procedure TROL UNIT	Sliding door control unit LH
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U1010 SLIDING DO 1.REPLACE SL When DTC [U10 >> Repl SLIDING DO	description CONTROL UNIT (CAN) OR LH : Diagno IDING DOOR CON 10] is detected, repl ace sliding door cor	Sliding door control unit LH detected internal CAN communication circuit malfunction DSIS Procedure TROL UNIT ace sliding door control unit LH. htrol unit LH. Refer to <u>DLK-500, "LH : Rer</u>	Sliding door control unit LH
U1010 SLIDING DO 1.REPLACE SL When DTC [U10 >> Repl SLIDING DO SLIDING DO	description CONTROL UNIT (CAN) OR LH : Diagno IDING DOOR CON 10] is detected, repl ace sliding door cor OR RH OR RH : DTC L	Sliding door control unit LH detected internal CAN communication circuit malfunction DSIS Procedure TROL UNIT ace sliding door control unit LH. htrol unit LH. Refer to <u>DLK-500, "LH : Rer</u>	Sliding door control unit LH INFOID:00000009649057
U1010 SLIDING DO 1.REPLACE SL When DTC [U10 >> Repl SLIDING DO SLIDING DO	description CONTROL UNIT (CAN) OR LH : Diagno IDING DOOR CON 10] is detected, repl ace sliding door cor OR RH OR RH : DTC L	Sliding door control unit LH detected internal CAN communication circuit malfunction DSIS Procedure TROL UNIT ace sliding door control unit LH. htrol unit LH. Refer to <u>DLK-500, "LH : Rer</u>	Sliding door control unit LH INFOID:00000009649057
U1010 SLIDING DO 1.REPLACE SL When DTC [U10 >> Repl SLIDING DO SLIDING DO	description CONTROL UNIT (CAN) OR LH : Diagno IDING DOOR CON 10] is detected, repl ace sliding door cor OR RH OR RH : DTC L	Sliding door control unit LH detected internal CAN communication circuit malfunction DSIS Procedure TROL UNIT ace sliding door control unit LH. htrol unit LH. Refer to <u>DLK-500, "LH : Rer</u>	Sliding door control unit LH INFOID:00000009649057
U1010 SLIDING DO 1.REPLACE SL When DTC [U10 >> Repl SLIDING DO SLIDING DO DTC DETECTIO	description CONTROL UNIT (CAN) OR LH : Diagno IDING DOOR CON 10] is detected, repl ace sliding door cor OR RH OR RH : DTC L ON LOGIC CONSULT display	Sliding door control unit LH detected internal CAN communication circuit malfunction DSIS Procedure TROL UNIT ace sliding door control unit LH. htrol unit LH. Refer to <u>DLK-500, "LH : Rer</u> Ogic	Sliding door control unit LH INFOID:00000009649057 moval and Installation".
U1010 SLIDING DO 1.REPLACE SL When DTC [U10 >> Repl SLIDING DO SLIDING DO DTC DETECTIO DTC U1010	description CONTROL UNIT (CAN) OR LH : Diagno IDING DOOR CON IDING DOOR CON IO] is detected, repl ace sliding door cor OR RH OR RH : DTC L ON LOGIC CONSULT display description CONTROL UNIT (CAN)	Sliding door control unit LH detected internal CAN communication circuit malfunction DSIS Procedure TROL UNIT ace sliding door control unit LH. htrol unit LH. Refer to DLK-500, "LH : Rer OGIC DTC detecting condition Sliding door control unit RH detected internal	Sliding door control unit LH INFOID:00000009649057 moval and Installation". INFOID:00000009649058
U1010 SLIDING DO 1.REPLACE SL When DTC [U10 >> Repl SLIDING DO SLIDING DO DTC DETECTIO U1010 SLIDING DO	description CONTROL UNIT (CAN) OR LH : Diagno IDING DOOR CON IDING DOOR CON IO] is detected, repl ace sliding door cor OR RH OR RH : DTC L ON LOGIC CONSULT display description CONTROL UNIT (CAN)	Sliding door control unit LH detected internal CAN communication circuit malfunction DSIS Procedure TROL UNIT ace sliding door control unit LH. htrol unit LH. Refer to DLK-500, "LH : Rer LOGIC DTC detecting condition Sliding door control unit RH detected internal CAN communication circuit malfunction DSIS Procedure	Sliding door control unit LH INFOID:00000009649057 moval and Installation". INFOID:00000009649058 Possible cause Sliding door control unit RH

>> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

B2401 IGNITION POWER SUPPLY CIRCUIT AUTOMATIC BACK DOOR CONTROL MODULE

AUTOMATIC BACK DOOR CONTROL MODULE : DTC Logic

INFOID:000000009649060

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2401	IGN OPEN	 When the automatic back door control unit detects the following condition for 0.3 second or more Power supply condition (OFF) of automatic back door control 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" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-174, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure"</u>. NO >> INSPECTION END

AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure

INFOID:000000009649061

1.CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check 10 A fuse, [No. 3, located in fuse block (J/B)].

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2. CHECK POWER SUPPLY CIRCUIT

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

(+)			Condition		Voltage
Automatic back do	Automatic back door control module				
Connector	Terminal	•			
B8	7	Ground	Ignition switch	ON	9 - 16 V

Is the measurement value normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace harness.

SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

DTC DETECTION LOGIC

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC	CONSULT display description	DTC detec	ing condition	Pos	sible cause
B2401	IGN OPEN	 When the sliding door collowing condition for 0.3 set of the supply condition control unit and ignition BCM via CAN 	second or more	Fuse Harness or c (Ignition pow circuit is ope	ver supply condition
	IRMATION PROC				
PERFOR	M DTC CONFIRMA	TION PROCEDURE			
Turn igni Check "S	ition switch ON. Self Diagnostic Rest	Ilt" mode of "AUTO S	LIDE DOOR" using	CONSULT.	
DTC detec					
	Refer to <u>DLK-175, "S</u> NSPECTION END	SLIDING DOOR LH :	Diagnosis Procedur	<u>ə"</u> .	
		gnosis Procedur	9		INFOID:00000000964900
.CHECK F		9	-		
	ition switch OFF.				
Check 1	0A fuse, [No. 3, loca	ited in fuse block (J/E)].		
	tion result normal?				
	GO TO 2. Baplace the blown fi	use ofter repairing the	offected circuit if a	iuso is blown	
N() >> H			апестео систи и а		
	-		affected circuit if a		
.CHECK P	POWER SUPPLY CI				
CHECK P. Turn igni Disconne	OWER SUPPLY CI ition switch OFF. ect sliding door cont	RCUIT			
CHECK P. Turn igni Disconne	OWER SUPPLY CI ition switch OFF. ect sliding door cont	RCUIT			
CHECK P Turn igni Disconne Check ve	POWER SUPPLY CI ition switch OFF. ect sliding door cont oltage between slidi (+)	RCUIT rol unit LH connector ng door control unit L	H harness connecto	r and ground.	
CHECK P Turn igni Disconne Check ve	POWER SUPPLY CI ition switch OFF. ect sliding door cont oltage between slidi (+) ding door control unit LH	RCUIT rol unit LH connector ng door control unit L (-)		r and ground.	Voltage
CHECK P Turn igni Disconne Check ve Slie Conne	POWER SUPPLY CI ition switch OFF. ect sliding door cont oltage between slidi (+) ding door control unit LH ector Termin	RCUIT rol unit LH connector ng door control unit L (-) nal	H harness connecto	r and ground.	-
CHECK P Turn igni Disconne Check ve Slie Conne B4	POWER SUPPLY CI ition switch OFF. ect sliding door cont oltage between slidi (+) ding door control unit LH ector Termin	RCUIT rol unit LH connector ng door control unit L (-) nal Ground	H harness connecto	r and ground.	Voltage 9 – 16 V
CHECK P Turn igni Disconne Check ve Slie Conne B4 the measu (ES >> 0	POWER SUPPLY CI ition switch OFF. ect sliding door cont oltage between slidi (+) ding door control unit LH ector Termin 15 6 urement value norma Check intermittent in	RCUIT rol unit LH connector ng door control unit L (-) nal Ground al? ucident. Refer to GI-4	H harness connecto	r and ground. ion	-
CHECK P Turn igni Disconne Check ve Slie Conne B4 the measu (ES >> 0 VO >> F	POWER SUPPLY CI ition switch OFF. ect sliding door cont oltage between slidi (+) ding door control unit LH ector Termin 15 6 irement value norma Check intermittent in Repair or replace ha	RCUIT rol unit LH connector ng door control unit L (-) nal Ground al? ucident. Refer to GI-4	H harness connecto	r and ground. ion	-
CHECK P Turn igni Disconne Check ve Slie Conne B4 the measu (ES >> 0 NO >> F LIDING	POWER SUPPLY CI ition switch OFF. ect sliding door control oltage between slidi (+) ding door control unit LH ector Termin 15 6 urement value norma Check intermittent in Repair or replace ha DOOR RH	RCUIT rol unit LH connector ng door control unit L (-) nal Ground al? icident. Refer to GI-4; rness.	H harness connecto	r and ground. ion	-
CHECK P Turn igni Disconne Check ve Slie Conne B4 the measu (ES >> 0 NO >> F LIDING	POWER SUPPLY CI ition switch OFF. ect sliding door cont oltage between slidi (+) ding door control unit LH ector Termin 15 6 irement value norma Check intermittent in Repair or replace ha	RCUIT rol unit LH connector ng door control unit L (-) nal Ground al? icident. Refer to GI-4; rness.	H harness connecto	r and ground. ion	-
CHECK P Turn igni Disconne Check ve Slie Conne B4 the measu (ES >> 0 VO >> F LIDING I	POWER SUPPLY CI ition switch OFF. ect sliding door cont oltage between slidi (+) ding door control unit LH ector Termin 15 6 irement value norma Check intermittent ir Repair or replace ha DOOR RH	RCUIT rol unit LH connector ng door control unit L (-) nal Ground al? icident. Refer to GI-4; rness.	H harness connecto	r and ground. ion	9 – 16 V
CHECK P Turn igni Disconne Check ve Slie Conne B4 the measu (ES >> 0 VO >> F LIDING I	POWER SUPPLY CI ition switch OFF. ect sliding door control oltage between slidi (+) ding door control unit LH ector Termin 15 6 Irement value norma Check intermittent in Repair or replace ha DOOR RH DOOR RH : DT	RCUIT rol unit LH connector ng door control unit L (-) nal Ground al? ncident. Refer to GI-4 rness. C Logic	H harness connecto	r and ground. ion ON ent".	9 – 16 V

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is DTC detected?

- YES >> Refer to <u>DLK-176, "SLIDING DOOR RH : Diagnosis Procedure"</u>.
- NO >> INSPECTION END

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649065

1.CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check 10A fuse, [No. 3, located in fuse block (J/B)].

Is the inspection result normal?

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

2. CHECK POWER SUPPLY CIRCUIT

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

(+) Sliding door control unit RH		(-)	Condition		Voltage
B247	6	Ground	Ignition switch	ON	9 – 16 V

Is the measurement value normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

B2402 TOUCH SENSOR SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

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DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2402	TOUCH SENSOR OPEN	When the sliding door control unit detects the open circuit of the sliding door touch sensor	 Sliding door touch sensor Harness or connector (Sliding door touch sensor circuit is open) Sliding door control unit
DTC CONFI	IRMATION PROC	EDURE	
1.PERFORM	M DTC CONFIRMA	TION PROCEDURE	
	•	ult" mode of "AUTO SLIDE DOOR" using C	ONSULT.
YES >> F		SLIDING DOOR LH : Diagnosis Procedure	
SLIDING [DOOR LH : Dia	gnosis Procedure	INFOID:00000009649067
1. CHECK S	LIDING DOOR TOU	JCH SENSOR INPUT SIGNAL	
1. Turn igni	tion switch OFF.		

2. Check voltage between sliding door touch sensor LH harness connector and sliding door control unit LH harness connector.

							J
(+)	(—)				
0	touch sensor .H	0	r control unit .H	Condition		Voltage	DLK
Connector	Terminal	Connector	Terminal				
D172	1	B45	23	Sliding door touch	Pinching detection	0 – 1.5 V	
DITZ	I	D45	23	sensor LH	Other than above	4 – 8 V	L

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check sliding door touch sensor circuit

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

Sliding door control unit LH		Sliding door touch sensor LH		Continuity	0
Connector	Terminal	Connector	Terminal	Continuity	
B45	24	D172	1	Existed	Р

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door c	ontrol unit LH		Continuity
Connector	Connector Terminal		Continuity
B45	24		Not existed

Is the inspection result normal?

B2402 TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace sliding door control unit LH. Refer to DLK-500, "LH : Removal and Installation".

NO >> Repair or replace harness.

$\mathbf{3}$.check sliding door touch sensor ground circuit

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

Sliding door control unit LH		Sliding door to	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B45	23	D172	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	23		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING DOOR TOUCH SENSOR CIRCUIT 2

1. Connect sliding door control unit LH connector and sliding door touch sensor LH connector.

2. Check voltage between sliding door control unit LH harness connector and ground.

	(+)		Voltage
Sliding door	control unit LH	()	
Connector	Terminal		
B45	23	Ground	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

5.CHECK SLIDING DOOR TOUCH SENSOR

Refer to DLK-180, "SLIDING DOOR RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door touch sensor LH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR LH : Component Inspection

1. CHECK SLIDING DOOR TOUCH SENSOR LH

1. Turn ignition switch OFF.

2. Disconnect sliding door touch sensor LH connector.

3. Check resistance between sliding door touch sensor LH terminals.

	Sliding door touch sensor LH Terminal		Condition		Resistance (Approx.)
	1	2	Sliding door touch sen-	Pinching detection	120 Ω or less
	I	2	sor LH	Other than above	1 k $\Omega\pm$ 10%

INFOID:000000009649068

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal? YES >> INSPECTION END NO >> Replace sliding door touch sensor LH. SLIDING DOOR RH

SLIDING DOOR RH : DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause	D
B2402	TOUCH SENSOR OPEN	When the sliding door control unit detects the open circuit of the sliding door touch sensor	 Sliding door touch sensor Harness or connector (Sliding door touch sensor circuit is open) Sliding door control unit 	E

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON
- Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

Is DTC detected?

- YES >> Refer to DLK-179, "SLIDING DOOR RH : Diagnosis Procedure".
- NO >> INSPECTION END

SLIDING DOOR RH : Diagnosis Procedure

1. CHECK SLIDING DOOR TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.

Check voltage between sliding door touch sensor RH harness connector and sliding door control unit RH 2. harness connector.

	(+)	(—)				DLK
	0	touch sensor RH	0	r control unit	Co	ndition	Voltage	DLK
	Connector	Terminal	Connector	Terminal	-			I
	D173	1	B247	23	Sliding door touch	Pinching detection	0 – 1.5 V	L
	0175	I	D247	23	sensor RH	Other than above	4 – 8 V	-
ls	the inspect	ion result no	ormal?					M

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check sliding door touch sensor circuit

Disconnect sliding door control unit RH connector and sliding door touch sensor RH connector. 1.

Check continuity between sliding door control unit RH harness connector and sliding door touch sensor 2. RH harness connector.

Sliding door co	Sliding door control unit RH		Sliding door touch sensor RH		
Connector	Terminal	Connector	Terminal	Continuity	Р
B247	24	D173	1	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

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B2402 TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Sliding door o	control unit RH		Continuity
Connector	Connector Terminal		Continuity
B247	24		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

3. check sliding door touch sensor ground circuit

1. Disconnect sliding door control unit RH connector and sliding door touch sensor RH connector.

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

Sliding door o	control unit RH	Sliding door to	uch sensor RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	23	D173	2	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door	control unit RH		Continuity	
Connector	Terminal	Ground	Continuity	
B247	23		Not existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING DOOR TOUCH SENSOR CIRCUIT 2

1. Connect sliding door control unit RH connector and sliding door touch sensor RH connector.

2. Check voltage between sliding door control unit RH harness connector and ground.

(+)				
Sliding door control unit RH		()	Voltage	
Connector	Terminal		g .	
B247	23	Ground	0 V	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

5.CHECK SLIDING DOOR TOUCH SENSOR

Refer to DLK-180, "SLIDING DOOR RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door touch sensor RH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR RH : Component Inspection

1.CHECK SLIDING DOOR TOUCH SENSOR RH

1. Turn ignition switch OFF.

2. Disconnect sliding door touch sensor RH connector.

3. Check resistance between sliding door touch sensor RH terminals.

DLK-180

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INFOID:000000009649071

B2402 TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

	Sliding door to		Cond	ition	Resistance	
	Term	ninal			(Approx.)	
	1	2	Sliding door touch sen-	Pinching detection	120 Ω or less	
	I	2	sor RH	Other than above	1 k $\Omega \pm$ 10%	-
s the ii	nspection resu	Ilt normal?				
YES	>> INSPEC	TION END				
NO	>> Replace	sliding door tou	ch sensor RH.			
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B2403 ENCODER AUTOMATIC BACK DOOR CONTROL MODULE

AUTOMATIC BACK DOOR CONTROL MODULE : DTC Logic

INFOID:000000009649072

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2403	PULSE ENCODER	When the automatic back door control unit cannot re- ceive the signal from the encoder just after starting the open/close operation	, , , , , , , , , , , , , , , , , , , ,

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

NO >> INSPECTION END

AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure

1.CHECK AUTOMATIC BACK DOOR CONTROL MODULE POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.

 Check automatic back door control module power supply and ground circuit. Refer to <u>DLK-238, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning parts.

SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

INFOID:000000009649074

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2403	PULSE ENCODER	When sliding door control unit cannot receive the signal from the encoder just after starting the open/ close operation	EncoderBattery voltage (low battery)Sliding door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to <u>DLK-182</u>, "SLIDING DOOR LH : Diagnosis Procedure".
- NO >> INSPECTION END

SLIDING DOOR LH : Diagnosis Procedure

1.CHECK ENCODER POWER SUPPLY

1. Turn ignition switch OFF.

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YES >> Refer to DLK-182, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure".

< DTC/CIRCUIT DIAGNOSIS >

2.

Disconnect automatic sliding door unit LH connector. Check voltage between automatic sliding door unit LH harness connector and ground. З

Automatic sl	(+) iding door unit LH		(-)	Voltage	
Connector	Terminal		\ /	Voltage	
B65	5	G	Ground	8 – 16 V	
	RCUIT or control unit LH conr een sliding door cont		ss connector and	automatic sliding door u	
Sliding door co		Automatic slidi	ng door unit LH		
Connector	Terminal	Connector	Terminal	Continuity	
B45	11	B65	5	Existed	
heck continuity betw	een sliding door contr	ol unit LH harnes	s connector and g	pround.	
Sliding door o	control unit LH			Oractionsite	
Connector	Terminal	Ground	d	Continuity	
B45	11			Not existed	
>> Replace slidin >> Repair or replation IECK ENCODER CII	g door control unit LH ace harness. RCUIT 2)0, "LH : Removal	and Installation".	
 >> Replace slidin >> Repair or replace HECK ENCODER CII Disconnect sliding doo Check continuity betw 	g door control unit LH ace harness. RCUIT 2 or control unit LH conr een sliding door cont	nector.		and Installation". automatic sliding door u	
>> Repair or replation of the second	g door control unit LH ace harness. RCUIT 2 or control unit LH conr reen sliding door cont	nector. rol unit LH harnes		automatic sliding door u	
 >> Replace slidin >> Repair or replace HECK ENCODER CII Disconnect sliding doo Check continuity between the second seco	g door control unit LH ace harness. RCUIT 2 or control unit LH conr reen sliding door cont	nector. rol unit LH harnes	ss connector and		
>> Replace slidin >> Repair or replation HECK ENCODER CII Disconnect sliding door Check continuity betw H harness connector Sliding door co	g door control unit LH ace harness. RCUIT 2 or control unit LH conr een sliding door cont ntrol unit LH	nector. rol unit LH harnes Automatic slidi	ss connector and	automatic sliding door u	
>> Replace slidin >> Repair or replation HECK ENCODER CII Disconnect sliding door Check continuity betwo H harness connector Sliding door co Connector B45	g door control unit LH ace harness. RCUIT 2 or control unit LH conr reen sliding door cont ntrol unit LH Terminal 4	nector. rol unit LH harnes Automatic slidi Connector B65	ss connector and ng door unit LH Terminal 6 7	automatic sliding door u Continuity Existed	
>> Replace slidin >> Repair or replation HECK ENCODER CII Disconnect sliding door Check continuity betw H harness connector Sliding door co Connector B45 Check continuity betw	g door control unit LH ace harness. RCUIT 2 or control unit LH conr reen sliding door cont ntrol unit LH Terminal 4 21	nector. rol unit LH harnes Automatic slidi Connector B65	ss connector and ng door unit LH Terminal 6 7	automatic sliding door u Continuity Existed ground.	
>> Replace slidin >> Repair or replation HECK ENCODER CII Disconnect sliding door Check continuity betw H harness connector Sliding door co Connector B45 Check continuity betw	g door control unit LH ace harness. RCUIT 2 or control unit LH conr reen sliding door cont ntrol unit LH Terminal 4 21 een sliding door contr	nector. rol unit LH harnes Automatic slidi Connector B65 ol unit LH harnes	ss connector and ng door unit LH Terminal 6 7 s connector and g	automatic sliding door u Continuity Existed	
>> Replace slidin >> Repair or replation HECK ENCODER CII Disconnect sliding door check continuity betw H harness connector Sliding door co Connector B45 check continuity betw Sliding door of Connector	g door control unit LH ace harness. RCUIT 2 or control unit LH conr reen sliding door cont ntrol unit LH 4 21 een sliding door contr control unit LH	nector. rol unit LH harnes Automatic slidi Connector B65	ss connector and ng door unit LH Terminal 6 7 s connector and g	automatic sliding door u Continuity Existed ground. Continuity	
>> Replace slidin >> Repair or replation IECK ENCODER CII Disconnect sliding door check continuity betwing H harness connector Sliding door co Connector B45 check continuity betwing Sliding door of	g door control unit LH ace harness. RCUIT 2 or control unit LH conrection reen sliding door contrest ntrol unit LH 4 21 een sliding door contrest control unit LH Terminal	nector. rol unit LH harnes Automatic slidi Connector B65 ol unit LH harnes	ss connector and ng door unit LH Terminal 6 7 s connector and g	automatic sliding door u Continuity Existed ground.	
>> Replace slidin >> Repair or replation HECK ENCODER CII Disconnect sliding door Check continuity betw H harness connector Sliding door co Connector B45 Check continuity betw Sliding door of Connector	g door control unit LH ace harness. RCUIT 2 or control unit LH conrecensibility door contre- meen sliding door contre- ntrol unit LH 4 21 een sliding door contre- control unit LH Control unit LH a 21 en sliding door contre- control unit LH a 21 control unit LH control unit LH a 21 control unit LH control unit LH a 21 control unit LH	nector. rol unit LH harnes Automatic slidi Connector B65 ol unit LH harnes	ss connector and ng door unit LH Terminal 6 7 s connector and g	automatic sliding door u Continuity Existed ground. Continuity	
>> Replace slidin >> Repair or replation IECK ENCODER CII isconnect sliding door heck continuity betw harness connector Sliding door co Connector B45 heck continuity betw Sliding door co Connector B45 inspection result nor >> GO TO 4.	g door control unit LH ace harness. RCUIT 2 or control unit LH conrecensibility door contre- reen sliding door contre- ntrol unit LH 4 21 een sliding door contre- control unit LH Control unit LH ace harness.	nector. rol unit LH harnes Automatic slidi Connector B65 ol unit LH harnes	ss connector and ng door unit LH Terminal 6 7 s connector and g	automatic sliding door u Continuity Existed ground. Continuity	

< DTC/CIRCUIT DIAGNOSIS >

Sliding door o	Sliding door control unit LH		Automatic sliding door unit LH		
Connector	Terminal	Connector	Terminal	Continuity	
B45	26	B65	8	Existed	

2. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ontrol unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	26		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK ENCODER CIRCUIT 3

1. Connect sliding door control unit LH connector and automatic sliding door unit LH connector.

2. Check voltage between sliding door control unit LH harness connector and ground.

	+)		
Sliding door	control unit LH	()	Voltage
Connector	Terminal	-	
B45	26	Ground	0 V

Is the inspection result normal?

YES >> GO TO 6.

NO	>> Replace sliding	door control unit L	H. Refer to	DLK-500,	"LH :	Removal	and Installation".
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6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END SLIDING DOOR RH

SLIDING DOOR RH : DTC Logic

INFOID:000000009649076

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2403	PULSE ENCODER	When sliding door control unit cannot receive the signal from the encoder just after starting the open/ close operation	EncoderBattery voltage (low battery)Sliding door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-184</u>, "SLIDING DOOR RH : Diagnosis Procedure".

NO >> INSPECTION END

SLIDING DOOR RH : Diagnosis Procedure

1.CHECK ENCODER POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic sliding door unit RH connector.

INFOID:000000009649077

< DTC/CIRCUIT DIAGNOSIS >

3.	Check voltage between	automatic sliding do	oor unit RH harness	connector and ground.
----	-----------------------	----------------------	---------------------	-----------------------

Automatic sli	(+) ding door unit RH		(-)	Voltage
Connector	Terminal			Ŭ
B244	5	Gr	ound	8 – 16 V
	CUIT r control unit RH coni			
H harness connector				automatic sliding door u
Sliding door cor	trol unit RH	Automatic slidin	g door unit RH	Continuity
Connector	Terminal	Connector	Terminal	-
B247	11	B244	5	Existed
eck continuity betwe	een sliding door contr	ol unit RH harness	s connector and g	ground.
Sliding door c	ontrol unit RH			Continuity
Connector	Terminal	Ground		
B247	11			Not existed
>> Repair or repla	g door control unit RH ice harness. CUIT 2		<u>0. "RH : Remova</u>	l and Installation".
>> Replace sliding >> Repair or repla ECK ENCODER CIR sconnect sliding doo	g door control unit RH ice harness. RCUIT 2 r control unit RH cont een sliding door conti	nector. rol unit RH harnes	s connector and	I and Installation". automatic sliding door u
>> Replace sliding >> Repair or repla ECK ENCODER CIF sconnect sliding doo neck continuity betwo	g door control unit RH ice harness. CUIT 2 r control unit RH cont een sliding door cont	nector.	s connector and	automatic sliding door u
>> Replace sliding >> Repair or repla ECK ENCODER CIR sconnect sliding doo neck continuity betwe H harness connector	g door control unit RH ice harness. CUIT 2 r control unit RH cont een sliding door cont	nector. rol unit RH harnes	s connector and	
>> Replace sliding >> Repair or repla ECK ENCODER CIR sconnect sliding doo neck continuity betwo harness connector Sliding door cor	g door control unit RH ice harness. RCUIT 2 r control unit RH cont een sliding door control itrol unit RH	nector. rol unit RH harnes Automatic slidin	s connector and	automatic sliding door u
>> Replace sliding >> Repair or repla ECK ENCODER CIR sconnect sliding doo neck continuity betwee harness connector Sliding door cor Connector B247	g door control unit RH ice harness. RCUIT 2 r control unit RH cont een sliding door control itrol unit RH Terminal 4	nector. rol unit RH harnes Automatic slidin Connector B244	s connector and g door unit RH Terminal 7 6	automatic sliding door u Continuity Existed
>> Replace sliding >> Repair or repla ECK ENCODER CIR sconnect sliding doo neck continuity betwee harness connector Sliding door cor Connector B247	g door control unit RH ice harness. RCUIT 2 r control unit RH cont een sliding door control itrol unit RH Terminal 4 21 een sliding door contr	nector. rol unit RH harnes Automatic slidin Connector B244	s connector and g door unit RH Terminal 7 6	automatic sliding door u Continuity Existed ground.
>> Replace sliding >> Repair or repla ECK ENCODER CIR sconnect sliding doo neck continuity betwee harness connector Sliding door cor Connector B247	g door control unit RH ice harness. RCUIT 2 r control unit RH cont een sliding door control itrol unit RH Terminal 4 21 een sliding door contr	nector. rol unit RH harnes Automatic slidin Connector B244 ol unit RH harness	s connector and g door unit RH Terminal 7 6 s connector and g	automatic sliding door u Continuity Existed
>> Replace sliding >> Repair or repla ECK ENCODER CIR sconnect sliding doo neck continuity betwe harness connector Sliding door cor Connector B247 neck continuity betwe Sliding door cor	g door control unit RH ice harness. RCUIT 2 r control unit RH cont een sliding door control itrol unit RH 4 21 een sliding door contro ontrol unit RH	nector. rol unit RH harnes Automatic slidin Connector B244	s connector and g door unit RH Terminal 7 6 s connector and g	automatic sliding door u Continuity Existed ground.
>> Replace sliding >> Repair or repla ECK ENCODER CIR sconnect sliding doo neck continuity betwee harness connector Sliding door cor Connector B247 neck continuity betwee Sliding door cor Connector	g door control unit RH ice harness. RCUIT 2 r control unit RH com een sliding door control itrol unit RH 4 21 een sliding door contro ontrol unit RH Terminal 4 21 een sliding door contro ontrol unit RH 1 21	nector. rol unit RH harnes Automatic slidin Connector B244 ol unit RH harness	s connector and g door unit RH Terminal 7 6 s connector and g	automatic sliding door u Continuity Existed ground. Continuity

< DTC/CIRCUIT DIAGNOSIS >

Sliding door co	ontrol unit RH	Automatic sliding	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B247	26	B244	8	Existed

2. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door co	ontrol unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	26		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK ENCODER CIRCUIT 3

1. Connect sliding door control unit RH connector and automatic sliding door unit RH connector.

2. Check voltage between sliding door control unit RH harness connector and ground.

(+)		
Sliding door of	ontrol unit RH	()	Voltage
Connector	Terminal	-	
B247	26	Ground	0 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

B2405 SLIDING DOOR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

B2405 SLIDING DOOR CONTROL UNIT SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2405	ECU FAIL	Sliding door control unit detected CPU malfunction	Sliding door control unit
LIDING [DOOR LH : Dia	gnosis Procedure	INFOID:00000009649079
	SLIDING DOOR C		
hen DTC [E	32405] is detected,	replace sliding door control unit LH.	
	Replace sliding door	control unit. Refer to <u>DLK-500, "LH : Remo</u>	oval and Installation".
	DOOR RH : DT	C Logic	INFOID:000000009649080
	CTION LOGIC		
		í .	
DTC	CONSULT display description	DTC detecting condition	Possible cause
B2405	ECU FAIL	Sliding door control unit detected CPU malfunction	Sliding door control unit
LIDING [DOOR RH : Dia	gnosis Procedure	INFOID:00000009649081
REPLACE	SLIDING DOOR C	ONTROL UNIT	
Vhen DTC [E	32405] is detected,	replace sliding door control unit RH.	
-			
>> F	Replace sliding door	control unit. Refer to <u>DLK-500, "RH : Rem</u>	oval and installation".

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INFOID:000000009649078

< DTC/CIRCUIT DIAGNOSIS >

B2409 HALF LATCH SWITCH AUTOMATIC BACK DOOR CONTROL MODULE

AUTOMATIC BACK DOOR CONTROL MODULE : DTC Logic

INFOID:000000009649082

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2409	HALF LATCH SW	When the automatic back door control unit can not detects 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 mod- ule

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

- 2. Operate automatic back door function.
- 3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-188, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure"</u>. NO >> INSPECTION END

AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure

INFOID:000000009649083

1.CHECK HALF LATCH SWITCH SIGNAL

- 1. Select "AUTO BACK DOOR" using CONSULT.
- 2. Select "HALF LATCH SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK HALF LATCH INPUT SIGNAL

1. Turn ignition switch OFF.

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

(+)			
Back door loc	k assembly	()	Voltage
Connector	Terminal		
D190	6	Ground	9 - 16 V

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 module connector.

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

< DTC/CIRCUIT DIAGNOSIS >

Connector			ick door lock assem	biy	Continuity
	Terminal	Connee	tor	Terminal	Continuity
B8	22	D190)	6	Existed
Check continuity betw	een automatic back c	loor control m	odule harness co	onnector and	ground.
Automatic back d	oor control module				
Connector	Terminal		Ground	C	ontinuity
B8	22			No	ot existed
the inspection result no (ES >> Replace autor NO >> Repair or repl .CHECK HALF LATCH neck continuity between	matic back door contr lace harness. SWITCH GROUND C	CIRCUIT			d Installation".
leck continuity between	Dack GOOL LOCK ASSEL	noly namess c	onnector and gr	ounu.	
Back door	lock assembly				Continuity
Connector	Terminal		Ground		Jonanary
D190	8				Existed
CHECK INTERMITTEN					
efer to <u>GI-42. "Intermitte</u> >> INSPECTION UTOMATIC BACK .CHECK HALF LATCH . Turn ignition switch O Disconnect back door . Check continuity betw	DOOR CONTRO SWITCH FF. lock assembly conne	ector.		ent Inspec	tion INFOID:000000
>> INSPECTION UTOMATIC BACK .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw	DOOR CONTRO SWITCH IFF. r lock assembly conne veen back door lock as	ector.		ent Inspec	tion INFOID:000000
>> INSPECTION UTOMATIC BACK .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw Back door lock	DOOR CONTRO SWITCH FF. r lock assembly conne veen back door lock as	ector.		ent Inspec	tion INFOID:000000
>> INSPECTION UTOMATIC BACK .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw	DOOR CONTRO SWITCH FF. r lock assembly conne veen back door lock as	ector.	nals. Condition	ent Inspec	Continuity
>> INSPECTION UTOMATIC BACK .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw Back door lock	DOOR CONTRO SWITCH FF. r lock assembly conne veen back door lock as	ector.	nals.		

DTC DETECTION LOGIC

< DTC/CIRCUIT DIAGNOSIS >

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2409	HALF LATCH SW	When the sliding door control unit cannot detects the half latch switch ON condition even when the sliding door release actuator operate	 Half latch switch Harness or connectors (Half latch switch circuit is open) Sliding door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

Is DTC detected?

YES >> Refer to DLK-190, "SLIDING DOOR LH : Diagnosis Procedure".

NO >> INSPECTION END

SLIDING DOOR LH : Diagnosis Procedure

INFOID:000000009649086

1.CHECK HALF LATCH SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

- 2. Disconnect sliding door lock assembly LH connector.
- 3. Check voltage between sliding door lock assembly LH harness connector and ground.

(+	·)		
Sliding door loc	k assembly LH	()	Voltage
Connector	Terminal		
D123	3	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

Sliding door co	ontrol unit LH	Sliding door lock	assembly LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	5	D123	3	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ontrol unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	5	-	Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

 ${\it 3.}$ check half latch switch ground circuit

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

< DTC/CIRCUIT DIAGNOSIS >

Sliding d	oor control unit LH		door lock assembly L		Continuity
Connector	Terminal	Connec		nal	-
B45	23	D123			Existed
Check continuity	between sliding door of	control unit LH h	arness connector	r and groun	ıd.
Sli	ding door control unit LH				Continuity
Connector	Tei	rminal	Ground		Continuity
B45		23			Not existed
the inspection resu					
YES >> GO TO 4					
	replace harness.	Ŧo			
	CH SWITCH CIRCUI				
	oor control unit LH co tween sliding door co				connector.
encon voltage be				na groana.	
	(+)				
Slidir	ng door control unit LH		()		Voltage
Connector	Termir	nal			
Connector	181111				
B45 the inspection resu YES >> GO TO 5 NO >> Replace O.CHECK HALF LAT	23 It normal? sliding door control un CH SWITCH	it LH. Refer to D		moval and	0 V Installation".
B45 the inspection resurverse of the section resurverse of the sectio	23 It normal? sliding door control un CH SWITCH LIDING DOOR LH : Control LIDING DOOR LH : Control It normal?	it LH. Refer to D	0LK-500, "LH : Re	moval and	
B45 the inspection resurverse of the section resurverse of the sectio	23 It normal? . sliding door control un CH SWITCH LIDING DOOR LH : Control It normal? . sliding door lock asser TTENT INCIDENT	it LH. Refer to D	0LK-500, "LH : Re	moval and	
B45 the inspection resurverse of the section resurverse of the sectio	23 It normal? . sliding door control un CH SWITCH LIDING DOOR LH : Control It normal? . sliding door lock asser TTENT INCIDENT	it LH. Refer to D	0LK-500, "LH : Re	moval and	
B45 the inspection resurverse of the section resurverse of the sectio	23 It normal? . sliding door control un CH SWITCH LIDING DOOR LH : Control un It normal? . sliding door lock asser TTENT INCIDENT mittent Incident".	it LH. Refer to D	0LK-500, "LH : Re	moval and	
B45 the inspection resurverse of the section resurverse of the sectio	23 It normal? sliding door control un CH SWITCH LIDING DOOR LH : Control It normal? sliding door lock asser TTENT INCIDENT mittent Incident". TION END	it LH. Refer to D omponent Inspe mbly LH.	0LK-500, "LH : Re	moval and	Installation".
B45 S the inspection resurves YES >> GO TO 5 NO >> Replace CHECK HALF LAT S the inspection resurves YES >> GO TO 6 NO >> Replace CHECK INTERMIT S INSPECT S INSPECT S INSPECT	23 It normal? . sliding door control un CH SWITCH LIDING DOOR LH : Control un It normal? . sliding door lock asser TTENT INCIDENT mittent Incident". FION END LH : Component	it LH. Refer to D omponent Inspe mbly LH.	0LK-500, "LH : Re	moval and	
B45 the inspection resurverse of the section resurverse of the sectio	23 It normal? . sliding door control un CH SWITCH LIDING DOOR LH : Control un It normal? . sliding door lock asser TTENT INCIDENT mittent Incident". FION END LH : Component	it LH. Refer to D omponent Inspe mbly LH.	0LK-500, "LH : Re	moval and	Installation".
B45 S the inspection resurves YES >> GO TO 5 NO >> Replace O.CHECK HALF LAT S the inspection resurves S the inspection resu	23 It normal? . sliding door control un CH SWITCH LIDING DOOR LH : Control It normal? . sliding door lock asser TTENT INCIDENT mittent Incident". FION END LH : Component CH SWITCH	it LH. Refer to D omponent Inspe mbly LH. Inspection LH connector.	OLK-500, "LH : Re ection".	emoval and	Installation".
B45 S the inspection resurves YES >> GO TO 5 NO >> Replace O.CHECK HALF LAT S the inspection resurves S the inspection resu	23 It normal? sliding door control un CH SWITCH LIDING DOOR LH : Cl LIDING DOOR LH : Cl It normal? sliding door lock asser TTENT INCIDENT mittent Incident". TION END LH : Component CH SWITCH ch OFF. g door lock assembly between sliding door l	it LH. Refer to D omponent Inspe mbly LH. Inspection LH connector. ock assembly LH	DLK-500, "LH : Re ection". H terminals.	emoval and	Installation".
B45 S the inspection resurverse of the inspe	23 It normal? sliding door control un CH SWITCH LIDING DOOR LH : Control un TCH SWITCH LIDING DOOR LH : Control un Sliding door lock asser TTENT INCIDENT mittent Incident". TION END LH : Component CH SWITCH ch OFF. g door lock assembly between sliding door l	it LH. Refer to D omponent Inspe mbly LH. Inspection LH connector. ock assembly LH	OLK-500, "LH : Re ection".	emoval and	Installation".
B45 S the inspection result YES >> GO TO 5 NO >> Replace O.CHECK HALF LAT Sefer to <u>DLK-191, "S</u> S the inspection result YES >> GO TO 6 NO >> Replace O.CHECK INTERMIT Sefer to <u>GI-42, "Interner</u> S INSPECT S INSPECT CHECK HALF LAT . Turn ignition switt . Disconnect slidin . Check continuity Sliding door lock	23 It normal? sliding door control un CH SWITCH LIDING DOOR LH : Control un It normal? sliding door lock asser TTENT INCIDENT mittent Incident". TION END LH : Component CH SWITCH ch OFF. g door lock assembly between sliding door lock	it LH. Refer to D omponent Inspe mbly LH. Inspection LH connector. ock assembly LH	DLK-500, "LH : Re ection". H terminals.	emoval and	Installation".

NO >> Replace sliding door lock assembly LH. SLIDING DOOR RH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR RH : DTC Logic

INFOID:000000009649088

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2409	HALF LATCH SW	When the sliding door control unit cannot detects the half latch switch ON condition even when the sliding door release actuator operate	 Half latch switch Harness or connectors (Half latch switch circuit is open) Sliding door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

Is DTC detected?

YES >> Refer to <u>DLK-192</u>, "SLIDING DOOR RH : Diagnosis Procedure".

NO >> INSPECTION END

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649089

1.CHECK HALF LATCH SWITCH INPUT SIGNAL

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

(+)		
Sliding door lo	Sliding door lock assembly RH		Voltage
Connector	Terminal		
D124	3	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect sliding door control unit RH connector.

 Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

Sliding door control unit RH		Sliding door lock	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B247	5	D124	3	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door co	ontrol unit RH		Continuity	
Connector	Terminal	Ground	Continuity	
B247	5		Not existed	

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

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

1. Disconnect sliding door control unit RH connector.

< DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

	Continuity	Sliding door lock assembly RH		Sliding door control unit RH	
I	Continuity	Terminal	Connector	Terminal	Connector
	Existed	2	D124	23	B247

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door co	ntrol unit RH		Continuity	
Connector	Terminal	Ground	Continuity	D
B247	23		Not existed	D

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK HALF LATCH SWITCH CIRCUIT 2

- 1. Connect sliding door control unit RH connector and sliding door lock assembly RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

(+))			G
Sliding door co	ontrol unit RH	(–)	Voltage	
Connector	Terminal			н
B247	23	Ground	0 V	11

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

5.CHECK HALF LATCH SWITCH

Refer to D	LK-193.	"SLIDING	DOOR	RH :	Component	Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly RH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR RH : Component Inspection

1.CHECK HALF LATCH SWITCH

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

_	Sliding door loo	k assembly RH		Conditio	0	Continuity	
	Terr	ninal		Condition	1	Continuity	Р
	2	2	Sliding door PH		Open	Existed	
	3	2	Sliding door RH		Half latch/full closed	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door lock assembly RH.

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< DTC/CIRCUIT DIAGNOSIS >

B241A ENCODER SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B241A	ENCDR PWR SUPLY	When battery voltage to encoder is 4.5 V or less	EncoderHarness or connectorsSliding door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.
- Is DTC detected?
- YES >> Refer to <u>DLK-194</u>, "SLIDING DOOR LH : Diagnosis Procedure".
- NO >> INSPECTION END

SLIDING DOOR LH : Diagnosis Procedure

INFOID:000000009649092

INFOID:000000009649091

1.CHECK ENCODER POWER SUPPLY

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

(+)			
Automatic sliding door unit LH		()	Voltage
Connector	Terminal		
B65	5	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK ENCODER CIRCUIT

1. Disconnect sliding door control unit LH connector.

2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door co	Sliding door control unit LH		Automatic sliding door unit LH		
Connector	Terminal	Connector	Terminal	Continuity	
B45	11	B65	5	Existed	

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ntrol unit LH		Continuity
Connector	Connector Terminal		Continuity
B45	11		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

B241A ENCODER

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK INTERMITTENT INCIDENT		Δ
Refer to GI-42, "Intermittent Incident".		
>> INSPECTION END SLIDING DOOR RH		В
SLIDING DOOR RH : DTC Logic	INFOID:000000009649093	C

DTC DETECTION LOGIC

					Г
DTC	CONSULT display description	DTC detection	ng condition	Possible cause	
B241A	ENCDR PWR SUPLY	When battery voltage to e	ncoder is 4.5 V or less	EncoderHarness or connectorsSliding door control unit	E
DTC CONFI	RMATION PROC	EDURE			F
1.perform	M DTC CONFIRMA	TION PROCEDURE			
	0	ult" mode of "AUTO SL	IDE DOOR RIGHT"	using CONSULT.	G
YES >> F		<u>SLIDING DOOR RH : I</u>	Diagnosis Procedure	<u>"</u>	ŀ
SLIDING E	DOOR RH : Dia	ignosis Procedure	;	INFOID:00000009649094	
.снеске	NCODER POWER	SUPPLY			
2. Disconne	tion switch OFF. ect automatic sliding oltage between auto	g door unit RH connect omatic sliding door unit	or. RH harness connec	tor and ground.	J
	(+)				DL
	Automatic sliding d	oor unit RH	()	Voltage	
Co	onnector	Terminal			
	B247	11	Ground	8 – 16 V	L

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK ENCODER CIRCUIT

1. Disconnect sliding door control unit RH connector.

2. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

 Sliding door co	ontrol unit RH	Automatic sliding	g door unit RH	Continuity	0
Connector	Terminal	Connector	Terminal	Continuity	
 B247	11	B244	5	Existed	Ρ

3. Check continuity between sliding door control unit RH harness connector and ground.

 Sliding door co	ontrol unit RH		Continuity
 Connector Terminal		Ground	Continuity
 B247	11		Not existed

Is the inspection result normal?

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B241A ENCODER

< DTC/CIRCUIT DIAGNOSIS >

>> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>. >> Repair or replace harness. YES

NO

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

B2412 AUTOMATIC SLIDING DOOR MOTOR/ENCODER SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC c	letecting condition	Possible cause	
B2412	ASD MTR/ENCDR	automatic sliding do	control unit transmits signal to oor motor but pulse signal from cted for 1 second or more	Sliding door motorEncoderHarness or connectors	_
TC CONFI	RMATION PROC	EDURE			_
.PERFORM	M DTC CONFIRMA	TION PROCEDU	RE		
. Check "S <u>S DTC detec</u>	ted?		O SLIDE DOOR" using C		
	Refer to <u>DLK-197, "</u> NSPECTION END	<u>SLIDING DOOR L</u>	<u>H : Diagnosis Procedure</u>		
-	DOOR LH : Dia	anosis Proced	duro		
		-		INFOID:0000000964	49096
.CHECK E	NCODER MONITO	DR ITEM			
	UTO SLDE DOOR		Γ. LH" in "DATA MONITOR"	mada	
			cording to the following co		
. Check th					-
. Check th	at the function ope	rates normally acc	cording to the following co	nditions.	-
. Check th	at the function ope		cording to the following co	nditions. Status	-
. Check th	at the function ope onitor item CODER A LH	rates normally acc	Conding to the following concerning to the following concerning (auto or manual)	nditions. Status HI ⇔ LO	-
. Check th	at the function ope onitor item CODER A LH CODER B LH	rates normally acc	Condition Moving (auto or manual) When stopped	Nditions. Status HI ⇔ LO HI or LO	-
. Check th M ENC ENC S the inspect YES >> C NO >> C CHECK E . Turn ignit	at the function ope onitor item CODER A LH	Sliding door LH Sliding door LH Sliding door LH	Condition Condition Moving (auto or manual) When stopped Moving (auto or manual) When stopped	Nditions. Status HI ⇔ LO HI or LO HI ⇔ LO	-
. Check th M ENC ENC Sthe inspect YES >> C NO >> C CHECK E . Turn ignit . Disconne	at the function ope onitor item CODER A LH CODER B LH CODER B LH CODER B LH CODER POWER CODER POWER CODER POWER CODER POWER CODER POWER CODER Solution Switch OFF. Cot automatic slidin Oltage between automatic	rates normally acc Sliding door LH Sliding door LH . SUPPLY g door unit LH cor	Condition Condition Moving (auto or manual) When stopped Moving (auto or manual) When stopped	Status HI ⇔ LO HI or LO HI ⇔ LO HI ⇔ LO HI ⇔ LO	-
. Check th M ENC ENC Sthe inspect YES >> C NO >> C CHECK E . Turn ignit . Disconne	at the function ope onitor item CODER A LH CODER B LH CODER B LH CODER B LH CODER POWER COTO 7. COTO 7. COTO 7. COTO 2. NCODER POWER tion switch OFF. ect automatic slidin oltage between auto (+)	Sliding door LH Sliding door LH Sliding door LH SUPPLY g door unit LH cor omatic sliding doo	Condition Condition Moving (auto or manual) When stopped Moving (auto or manual) When stopped When stopped nnector. r unit LH harness connect	nditions. Status HI ↔ LO HI or LO HI ↔ LO HI or LO or and ground.	-
. Check th	at the function ope onitor item CODER A LH CODER B LH CODER B LH CODER B LH CODER POWER CODER POWER Tion switch OFF. The automatic slidin oltage between automatic slidin (+) Automatic sliding d	Sliding door LH Sliding door LH Sliding door LH SUPPLY g door unit LH cor omatic sliding doo	Condition Condition Moving (auto or manual) When stopped Moving (auto or manual) When stopped	Status HI ⇔ LO HI or LO HI ⇔ LO HI ⇔ LO HI ⇔ LO	-
. Check th	at the function ope onitor item CODER A LH CODER B LH CODER B LH CODER B LH CODER B LH CODER POWER COTO 7. COTO 7. COTO 2. NCODER POWER tion switch OFF. Sect automatic slidin oltage between auto (+)	Sliding door LH Sliding door LH Sliding door LH SUPPLY g door unit LH cor omatic sliding doo	Condition Condition Moving (auto or manual) When stopped Moving (auto or manual) When stopped When stopped nnector. r unit LH harness connect	nditions. Status HI ↔ LO HI or LO HI ↔ LO HI or LO or and ground.	- - - -

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK ENCODER CIRCUIT 1

1. Disconnect sliding door control unit LH connector.

2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

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INFOID:000000009649095

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< DTC/CIRCUIT DIAGNOSIS >

Sliding door co	Sliding door control unit LH		Automatic sliding door unit LH	
Connector	Terminal	Connector	Terminal	Continuity
B45	11	B65	5	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	Sliding door control unit LH		Continuity
Connector	Connector Terminal		Continuity
B45	11		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

4.CHECK ENCODER CIRCUIT 2

1. Disconnect sliding door control unit LH connector.

2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door	control unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	4	B65	6	Existed
D43	21	B03	7	LAISIEU

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	Sliding door control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	4	Giouna	Not existed
D40	21		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK ENCODER GROUND CIRCUIT

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

Sliding door co	Sliding door control unit LH		Automatic sliding door unit LH	
Connector	Terminal	Connector	Terminal	Continuity
B45	26	B65	8	Existed

2. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ntrol unit LH		Continuity	
Connector	Connector Terminal		Continuity	
B45	26		Not existed	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

O.CHECK ENCODER CIRCUIT 3

1. Connect sliding door control unit LH connector and automatic sliding door unit LH connector.

2. Check voltage between sliding door control unit LH harness connector and ground.

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< DTC/CIRCUIT DIAGNOSIS >

		(+)						
	Sliding door contro		l unit I H		(-	—)		Voltage
Cor	nector		Terminal				volidgo	
	B45		26		Gro	ound		0 V
s the inspectio	on result noi	rmal?						
NO >> Re CHECK AU	place slidin	ng door SLIDIN	G DOOR MOT	I. Refer to OR CIRC	UIT			and Installation".
. Check con		veen sl						hit LH connector. automatic sliding door ur
S	Sliding door co	ontrol uni	it LH	Auto	matic sliding	g door unit l	Н	Continuity
Conne	ector		Terminal	Conr	nector	Term	inal	Continuity
B4	7		43	B	33	3		Existed
			46			4		
. Check con	tinuity betw	veen sli	iding door contr	ol unit LH	l harness	connecto	r and g	round.
	Sliding d	loor cont	trol unit LH					Continuity
Со	onnector		Termina	I	Gr	ound		
	B47		43		_			Not existed
the inspectio			46					
NO >> Re	pair or repl	ace ha	liding door unit rness.	LH.				
	OOR RH	ace ha : DT(rness.	LH.				INFOID:0000000096490
NO >> Re SLIDING D SLIDING D(OOR RH	ace ha I : DT(IC	rness. C Logic	LH.	condition			INFOID:0000000096490
NO >> Re SLIDING D SLIDING D TC DETECT	DOR RH OOR RH OOR RH FION LOG	ace ha 1 : DT IC lisplay on	rness. C Logic	C detecting or control un door motor	nit transmits : but pulse si	gnal from	• Enco	Possible cause
NO >> Re SLIDING D DTC DETECT DTC B2412 TC CONFIR .PERFORM . Turn ignitic	Ppair or repl OOR RH OOR RH FION LOG CONSULT d description ASD MTR/EN MATION F DTC CONF on switch O	ace ha : DT(IC IC ISPlay on CDR PROC FIRMAT N.	rness. C Logic DTC When sliding doc automatic sliding encoder is not de EDURE TION PROCED	C detecting or control un door motor etected for 1	it transmits : but pulse si second or r	gnal from nore	Enco Harne	Possible cause g door motor der ess or connectors
NO >> Re SLIDING D SLIDING D TC DETECT DTC DTC B2412 TC CONFIR .PERFORM . Turn ignitic . Check "Se SDTC detecte YES >> Re	Ppair or repl OOR RH OOR RH FION LOG CONSULT d description ASD MTR/EN CONSULT d description ASD MTR/EN CONSULT d description ASD MTR/EN CONSULT d description ASD MTR/EN	ace ha : DT(IC IC Isplay on CDR PROC FIRMA ^T N. c Resu 199. "S	rness. C Logic DTC When sliding doc automatic sliding encoder is not de EDURE	C detecting of or control un door motor etected for 1 URE JTO SLID	it transmits si but pulse si second or r	gnal from nore RIGHT" u	• Enco • Harne	Possible cause g door motor der ess or connectors
NO >> Re SLIDING D SLIDING D TC DETECT DTC B2412 DTC CONFIR .PERFORM . Turn ignitic . Check "Se SDTC detecte YES >> Re NO >> INS	Ppair or repl OOR RH OOR RH FION LOG CONSULT d description ASD MTR/EN CONSULT d description ASD MTR/EN	ace ha : DT(IC lisplay on CDR PROC -IRMA ⁻ N. c Resu <u>199, "S</u>	rness. C Logic DTC When sliding doc automatic sliding encoder is not de EDURE TION PROCED Ilt" mode of "AL	C detecting or control un door motor etected for 1 URE JTO SLID R RH : Dia	it transmits si but pulse si second or r	gnal from nore RIGHT" u	• Enco • Harne	Possible cause g door motor der ess or connectors
NO >> Re SLIDING D SLIDING D TC DETECT DTC B2412 DTC CONFIR .PERFORM . Turn ignitic . Check "Se SDTC detecte YES >> Re NO >> INS	Ppair or repl OOR RH OOR RH FION LOG CONSULT d description ASD MTR/EN MATION F DTC CONF DTC C	ace ha : DT(IC IC Isplay on CDR PROC TIRMAT N. c Resu 199. "S END : Dia	rness. C Logic DTC When sliding doc automatic sliding encoder is not de EDURE TION PROCED Ilt" mode of "AL SLIDING DOOF gnosis Proc	C detecting or control un door motor etected for 1 URE JTO SLID R RH : Dia	it transmits si but pulse si second or r	gnal from nore RIGHT" u	• Enco • Harne	Possible cause g door motor der ess or connectors

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< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 7. NO >> GO TO 2.

2.CHECK ENCODER POWER SUPPLY

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

(-	+)		
Automatic slidi	ng door unit RH	()	Voltage
Connector	Terminal	_	
B244	5	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK ENCODER CIRCUIT 1

1. Disconnect sliding door control unit RH connector.

 Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door co	ontrol unit RH	Automatic sliding	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B247	11	B244	5	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door co	ontrol unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	11		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

4.CHECK ENCODER CIRCUIT 2

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

Sliding door of	Sliding door control unit RH		Automatic sliding door unit RH		
Connector	Terminal	Connector	Terminal	Continuity	
B247	4	B244	7	Existed	
D247	21	D244	6	LAISIEU	

3. Check continuity between sliding door control unit RH harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

Sliding doc	r control unit RH			
Connector	Terminal		a d	Continuity
B247	4	Grou	na	Not existed
DZHI	21			NOT EXISTED
he inspection result n ES >> GO TO 5. O >> Repair or re CHECK ENCODER (Check continuity be RH harness connec	place harness. GROUND CIRCUIT tween sliding door cont	trol unit RH harnes	ss connector and	automatic sliding door
Connector	control unit RH Terminal	Automatic slidir Connector	Terminal	Continuity
B247	26	B244	8	Existed
	ween sliding door cont		-	
Sliding	door control unit RH			Continuity
Connector	Termina	al C	Ground	Continuity
B247 he inspection result n	26			Not existed
	CIRCUIT 3 r control unit RH conne een sliding door control			
Check voltage betwe	r control unit RH conne			
Check voltage betwe	r control unit RH conne een sliding door control (+)		connector and gr	ound.
Check voltage betwee	r control unit RH conne een sliding door control (+) oor control unit RH	unit RH harness o	connector and gr	ound.
Check voltage between Sliding d Sliding d Connector B247 he inspection result n ES >> Replace aut	r control unit RH conne een sliding door control (+) oor control unit RH Terminal 26	unit RH harness o	(-)	Voltage
Check voltage betwee Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid	r control unit RH conne een sliding door control (+) oor control unit RH Terminal 26 ormal? omatic sliding door unit	t RH. H. Refer to <u>DLK-50</u>	(-)	Voltage
Check voltage between Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid CHECK AUTOMATIC Disconnect sliding d	r control unit RH conne een sliding door control (+) oor control unit RH <u>Terminal</u> 26 <u>ormal?</u> omatic sliding door unit ing door control unit RI SLIDING DOOR MOT oor control unit RH con tween sliding door cont	I unit RH harness of G RH. H. Refer to <u>DLK-50</u> OR CIRCUIT	(-) round	Voltage 0 V al and Installation".
Check voltage between Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid CHECK AUTOMATIC Disconnect sliding d Check continuity be RH harness connect	r control unit RH conne een sliding door control (+) oor control unit RH <u>Terminal</u> 26 <u>ormal?</u> omatic sliding door unit ing door control unit RI SLIDING DOOR MOT oor control unit RH con tween sliding door cont	I unit RH harness of G RH. H. Refer to <u>DLK-50</u> OR CIRCUIT	(-) round 00, "RH : Remov atic sliding door as connector and	Voltage 0 V al and Installation". unit RH connector.
Check voltage between Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid CHECK AUTOMATIC Disconnect sliding d Check continuity be RH harness connect	r control unit RH conne een sliding door control (+) oor control unit RH 26 ormal? omatic sliding door unit ing door control unit RI SLIDING DOOR MOT oor control unit RH con tween sliding door cont tor.	t RH. H. Refer to <u>DLK-50</u> OR CIRCUIT Inector and automatical trol unit RH harnes	(-) round 00, "RH : Remov atic sliding door as connector and	Voltage 0 V al and Installation".
Check voltage between Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid CHECK AUTOMATIC Disconnect sliding d Check continuity be RH harness connect Sliding door Connector	r control unit RH conne een sliding door control (+) oor control unit RH <u>Terminal</u> 26 <u>ormal?</u> omatic sliding door unit ing door control unit RI SLIDING DOOR MOT oor control unit RH con tween sliding door cont tor.	I unit RH harness of G TRH. H. Refer to <u>DLK-50</u> OR CIRCUIT Inector and automatrol unit RH harnes Automatic slidir Connector	(–) round 00, "RH : Remov atic sliding door as connector and	Voltage 0 V al and Installation". unit RH connector. automatic sliding door Continuity
Check voltage between Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid CHECK AUTOMATIC Disconnect sliding d Check continuity be RH harness connect Sliding door Connector B249	r control unit RH conne een sliding door control (+) oor control unit RH 26 ormal? omatic sliding door unit ing door control unit RI control unit RH contween sliding door control tor. control unit RH control unit RH 43 46	I unit RH harness of G TRH. H. Refer to <u>DLK-50</u> OR CIRCUIT Inector and automatrol unit RH harnes Automatic slidir Connector B245	(-) round 00, "RH : Remov atic sliding door as connector and ng door unit RH Terminal 4 3	Voltage 0 V al and Installation". unit RH connector. d automatic sliding door Continuity Existed
Check voltage between Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid CHECK AUTOMATIC Disconnect sliding d Check continuity be RH harness connect Sliding door Connector B249	r control unit RH conne een sliding door control (+) oor control unit RH 26 ormal? omatic sliding door unit ing door control unit RI SLIDING DOOR MOT oor control unit RH con tween sliding door cont tor.	I unit RH harness of G TRH. H. Refer to <u>DLK-50</u> OR CIRCUIT Inector and automatrol unit RH harnes Automatic slidir Connector B245	(-) round 00, "RH : Remov atic sliding door as connector and ng door unit RH Terminal 4 3	Voltage 0 V al and Installation". unit RH connector. d automatic sliding door Continuity Existed
Check voltage betwee Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid CHECK AUTOMATIC Disconnect sliding d Check continuity betwee RH harness connect Sliding door Connector B249 Check continuity betwee	r control unit RH conne een sliding door control (+) oor control unit RH 26 ormal? omatic sliding door unit ing door control unit RI control unit RH contween sliding door control tor. control unit RH control unit RH 43 46	I unit RH harness of G TRH. H. Refer to <u>DLK-50</u> OR CIRCUIT Inector and automatrol unit RH harnes Automatic slidir Connector B245	(-) round 00, "RH : Remov atic sliding door as connector and ng door unit RH Terminal 4 3	Voltage 0 V al and Installation". unit RH connector. automatic sliding door Continuity Continuity Existed ground.
Check voltage betwee Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid CHECK AUTOMATIC Disconnect sliding d Check continuity betwee RH harness connect Sliding door Connector B249 Check continuity betwee	r control unit RH conne een sliding door control (+) oor control unit RH 26 ormal? omatic sliding door unit ing door control unit RI SLIDING DOOR MOT oor control unit RH con tween sliding door cont tor.	I unit RH harness of G G t RH. H. Refer to <u>DLK-50</u> OR CIRCUIT Intector and automatic trol unit RH harnes Automatic slidir Connector B245 rol unit RH harnes	connector and gr (-) round 00, "RH : Remov atic sliding door atic	Voltage 0 V al and Installation". unit RH connector. d automatic sliding door Continuity Existed
Check voltage betwee Sliding d Connector B247 he inspection result n ES >> Replace aut O >> Replace slid CHECK AUTOMATIC Disconnect sliding d Check continuity betwee RH harness connect Sliding door Connector B249 Check continuity betwee Sliding door	r control unit RH conne een sliding door control (+) oor control unit RH 26 ormal? omatic sliding door unit ing door control unit RI control unit RH cont tween sliding door cont tor. control unit RH 43 46 tween sliding door cont r control unit RH	I unit RH harness of G TRH. H. Refer to <u>DLK-50</u> OR CIRCUIT Inector and automatrol unit RH harnes Automatic slidir Connector B245	connector and gr (-) round 00, "RH : Remov atic sliding door atic	Voltage 0 V al and Installation". unit RH connector. automatic sliding door Continuity Continuity Existed ground.

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace automatic sliding door unit RH.
- NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

B2413 AUTOMATIC SLIDING DOOR MOTOR/ENCODER SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

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INEOID:000000009649100

DTC DETECTION LOGIC

Is DTC detected?

YES	>> Refer to DLK-203	, "SLIDING DOOR LH : Diagnosis Procedure".

NO >> INSPECTION END

SLIDING DOOR LH : Diagnosis Procedure

1.CHECK ENCODER CIRCUIT

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

Sliding door co	Sliding door control unit LH		Automatic sliding door unit LH		
Connector	Terminal	Connector	Terminal	Continuity	
	4		6	Existed	
D45	21		7	Existed	
B45	4	– B65	7		
	21	-	6	Not existed	
e inspection result no	rmal?		4		

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT

Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

< DTC/CIRCUIT DIAGNOSIS >

Sliding door o	Sliding door control unit LH		Automatic sliding door unit LH	
Connector	Terminal	Connector	Terminal	Continuity
	43	B33	3	Existed
B47	46		4	LAISIEU
D47	43		4	Not existed
	46		3	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK AUTOMATIC SLIDING DOOR UNIT LH

1. Replace automatic sliding door unit LH. (New unit or other unit)

2. Erase DTC.

3. Operate auto open/close function.

Is DTC detected?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> INSPECTION END

SLIDING DOOR RH

SLIDING DOOR RH : DTC Logic

INFOID:000000009649101

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2413	ASD MTR/ENCDR	When sliding door control unit detects pulse signal that is in the reverse direction of sliding door motor operation	 Reverse connection of harness be- tween encoder and sliding door control unit Reverse connection of harness be- tween automatic sliding door motor and sliding door control unit Encoder Automatic sliding door motor Sliding door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

Is DTC detected?

YES >> Refer to DLK-204, "SLIDING DOOR RH : Diagnosis Procedure".

NO >> INSPECTION END

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649102

1.CHECK ENCODER CIRCUIT

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

< DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit RH		Automatic sliding	Automatic sliding door unit RH		
Connector	Terminal	Connector	Terminal	Continuity	
	4		7	Eviated	
D0.47	21		6	Existed	
B247	4	– B244	6	Net evieted	
	21	_	7	Not existed	
the inspection result n	ormal?				
ES >> GO TO 2.					
•					
	SLIDING DOOR MO				
•	en sliding door control	unit RH harness co	nnector and autor	matic sliding door	
ness connector.					
Sliding door	control unit RH	Automatic sliding	g door unit RH	Quatinuitu	
Connector	Terminal	Connector	Terminal	Continuity	
	43		4	Eviete d	
D 040	46		3	Existed	
B249	43	B245	3	Net eviete d	
			Ũ	Mat autotal	
	46	_	4	Not existed	
the inspection result n	46	_		Not existed	
ES >> GO TO 3.	46 ormal?	-		Not existed	
ES >> GO TO 3. O >> Repair or re	46 ormal? place harness.			Not existed	
ES >> GO TO 3. O >> Repair or re	46 ormal?	TRH		Not existed	
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatics	46 ormal? place harness.		4	Not existed	
ES >> GO TO 3. IO >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC.	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N		4	Not existed	
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N		4	Not existed	
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o DTC detected?	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N close function.	lew unit or other uni	4 t)		
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o DTC detected?	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N close function.	lew unit or other uni	4 t)		
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o DTC detected? ES >> Replace slice	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N close function.	lew unit or other uni	4 t)		
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o DTC detected? ES >> Replace slice	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N close function.	lew unit or other uni	4 t)		
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o DTC detected? ES >> Replace slice	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N close function.	lew unit or other uni	4 t)		
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o DTC detected? ES >> Replace slice	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N close function.	lew unit or other uni	4 t)		
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o DTC detected? ES >> Replace slice	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N close function.	lew unit or other uni	4 t)		
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o DTC detected? ES >> Replace slice	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N close function.	lew unit or other uni	4 t)		
ES >> GO TO 3. O >> Repair or re CHECK AUTOMATIC Replace automatic s Erase DTC. Operate auto open/o DTC detected? ES >> Replace slice	46 ormal? place harness. SLIDING DOOR UNI sliding door unit RH. (N close function.	lew unit or other uni	4 t)		

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< DTC/CIRCUIT DIAGNOSIS >

B2414 AUTOMATIC SLIDING DOOR MOTOR SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

INFOID:000000009649103

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2414	ASD MTR TIME OUT	When the sliding door control unit and sliding door motor operate in the same direction for 15 seconds or more continuously	 Clutch Automatic sliding door motor Sliding door control unit Battery voltage (low battery)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

Is DTC detected?

YES >> Refer to DLK-206, "SLIDING DOOR LH : Diagnosis Procedure".

NO >> INSPECTION END

SLIDING DOOR LH : Diagnosis Procedure

1. CHECK SLIDING DOOR CONTROL UNIT LH POWER SUPPLY

Check sliding door control unit LH power supply.

Refer to DLK-239, "SLIDING DOOR CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK CLUTCH

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "CLUTCH" in "ACTIVE TEST" mode.
- 3. Touch "HOLD" or "RELEASE" to check that it works normally.

Is the inspection result normal?

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

 $\mathbf{3.}$ CHECK AUTOMATIC SLIDING DOOR MOTOR OUTPUT SIGNAL

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

	(+) Automatic sliding door unit LH		Con	dition	Voltage
Connector	Terminal	•			
	3	Ground	Sliding door LH	Auto open opera- tion	9 – 16 V
D22				Other than above	0 – 1.5 V
B33	4			Auto close opera- tion	9 – 16 V
				Other than above	0 – 1.5 V

Is the inspection result normal?

INFOID:000000009649104

< DTC/CIRCUIT DIAGNOSIS >

NO >> 0	GO TO 5.	door control unit	LH. Refe	r to <u>DLK-50(</u>	<u>), "LH : R</u> (emoval and	Installation".		
 Turn ignit Disconne Check co 		control unit LH c					H connector. omatic sliding door unit		
Ş	Sliding door contro	unit LH	/	Automatic slidir	ig door unit	LH	Continuity		
Conr	nector	Terminal	Со	nnector	Ter	minal	Continuity		
В	47	44		B33		1	Existed		
		47				2			
Check co	ontinuity betwee	en sliding door co	ontrol unit	LH harness	connecto	or and grou	nd.		
	Sliding door	control unit LH					0		
C	onnector	Termin	al		Name and a state of the state o		Continuity		
-	B47	44			Ground		Not existed		
	047	47							
Disconne Check co	ect sliding door	IDING DOOR M control unit LH c en sliding door c	onnector.		s connect	or and auto	omatic sliding door unit		
	Sliding door contro	unit LH	, , , , , , , , , , , , , , , , , , ,	Automatic slidir	ig door unit	LH			
Conr	nector	Terminal	Со	nnector	Ter	minal	Continuity		
B	47	43		B33		3	Existed		
D	47	46		D33		4	Existed		
Check co	ontinuity betwee	en sliding door co	ontrol unit	LH harness	connecto	or and grou	nd.		
	Sliding door	control unit LH							
С	connector	Termin	al	-			Continuity		
	D 47	43		- Ground		Ground			
	B47	46		-			Not existed		
(ES >> F NO >> F LIDING I LIDING [tion result norm Replace automa Repair or replac DOOR RH DOOR RH :	itic sliding door u e harness. DTC Logic	unit LH.				INFOID:000000009649105		
DTC	CONSULT disp description	lay	DTC detect	ing condition		P	ossible cause		
B2414	ASD MTR TIME		e in the same	ntrol unit and s e direction for 1		 Sliding do 	sliding door motor or control unit Itage (low battery)		

< DTC/CIRCUIT DIAGNOSIS >			
DTC CONFIRMATION PROCEDUR	RE		
1. PERFORM DTC CONFIRMATION	PROCEDURE		
 Turn ignition switch ON. Check "Self Diagnostic Result" mo <u>Is DTC detected?</u> YES >> Refer to <u>DLK-208. "SLIDIN</u> NO >> INSPECTION END 		E DOOR RIGHT" using CONSULT.	
SLIDING DOOR RH : Diagnos	sis Procedure		INFOID:000000009649106
1. CHECK SLIDING DOOR CONTRO	L UNIT RH POWE	R SUPPLY	
Check sliding door control unit RH pow Refer to <u>DLK-239</u> , <u>"SLIDING DOOR C</u> <u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfe 2. CHECK CLUTCH	<u>ONTRÓĽ UNIT : D</u>	<u>Diagnosis Procedure"</u> .	
1.Select "AUTO SLDE DOOR RIGH2.Select "CLUTCH" in "ACTIVE TES3.Touch "HOLD" or "RELEASE" to clIs the inspection result normal?YES>> GO TO 3.NO>> GO TO 4.3.CHECK AUTOMATIC SLIDING DO	ST" mode. heck that it works r	normally.	
 Turn ignition switch OFF. Disconnect automatic sliding door Check voltage between automatic 	unit RH connector		
(+)			
Automatic sliding door unit RH	(-)	Condition	Voltage

Automatic sliding door unit RH		()	Condition		Voltage
Connector	Terminal				
3				Auto close opera- tion	9 – 16 V
B245		Ground	Oliding door DU	Other than above	0 – 1.5 V
B245	4		Sliding door RH	Auto open opera- tion	9 – 16 V
				Other than above	0 – 1.5 V

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to DLK-500, "RH : Removal and Installation". NO >> GO TO 5.

4. CHECK CLUTCH CIRCUIT

- Turn ignition switch OFF.
 Disconnect sliding door control unit RH connector and automatic sliding door unit RH connector.
- Check continuity between sliding door control unit RH harness connector and automatic sliding door unit 3. RH harness connector.

Sliding door co	Sliding door control unit RH		Automatic sliding door unit RH		
Connector	Terminal	Connector Terminal		Continuity	
B249	44	B245	1	Existed	
D243	47	0240	2	Existed	

4. Check continuity between sliding door control unit RH harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

$\begin{tabular}{ c c c c } \hline Connector & Terminal & Ground & Not existed & Not exist$	Connector	door control unit RH				Continuity
B249 44 47 Not existed inspection result normal? >> Replace automatic sliding door unit RH. >> Repair or replace harness. HECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT Disconnect sliding door control unit RH connector. Inspection result normal? Disconnect sliding door control unit RH connector. Disconnector and automatic sliding door unit RH harness connector and automatic sliding door unit RH harness connector. Sliding door control unit RH Automatic sliding door unit RH Continuity Connector Terminal Continuity B249 43 B245 4 Sliding door control unit RH Existed Sited Connector Terminal Continuity B249 43 B245 3 Existed 3 Existed Sliding door control unit RH Ground Continuity B249 43 B245 3 B249 43 B249 A B249 43 B249 Not existed Inspection result normal? A Not existed Soliding door unit RH A Soliding door unit RH Soliding door unit RH B249 <td>Connector</td> <td>Termin</td> <td colspan="2" rowspan="2"></td> <td>Ground</td> <td>Continuity</td>	Connector	Termin			Ground	Continuity
47 inspection result normal? >> Replace automatic sliding door unit RH. >> Repair or replace harness. HECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT bisconnect sliding door control unit RH connector. bick continuity between sliding door control unit RH harness connector and automatic sliding door Sliding door control unit RH Automatic sliding door unit RH Connector Terminal Connector Terminal B249 43 46 B245 3 Existed Sliding door control unit RH Continuity Connector Terminal Connector Terminal B249 43 B249 46 Mathematic Sliding door control unit RH Ground B249 46 Mathemater Not existed	B2/0	44			biouna	Not existed
>> Replace automatic sliding door unit RH. >> Repair or replace harness. HECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT Disconnect sliding door control unit RH connector. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector. Sliding door control unit RH Automatic sliding door unit RH Connector Terminal B249 43 46 B245 3 Existed Continuity Connector Terminal Connector Terminal B249 46 43 B245 40 Continuity Continuity Continuity Continuity Continuity Add Continuity Continuity Continuity Continuity Continuity Add Continuity Con	D243	47				NOT EXISTEN
>> Repair or replace harness. HECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT Disconnect sliding door control unit RH connector. Sheck continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector. Sliding door control unit RH Automatic sliding door unit RH Connector Terminal Continuity B249 43 B245 4 Existed 3 Existed Sliding door control unit RH B245 4 Existed Connector Terminal Continuity Continuity B249 43 B245 4 Existed Sliding door control unit RH Ground Continuity Continuity B249 43 B245 3 Continuity Sliding door control unit RH Ground Continuity Continuity B249 43 Mot existed Mot existed Inspection result normal? >> Replace automatic sliding door unit RH. Sliding door unit RH.	•					
ECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT sconnect sliding door control unit RH connector. neck continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector. Sliding door control unit RH Automatic sliding door unit RH Continuity Sliding door control unit RH Automatic sliding door unit RH Continuity Connector Terminal Connector Terminal B249 43 B245 3 Existed heck continuity between sliding door control unit RH B245 3 Continuity B249 43 B245 3 Continuity Sliding door control unit RH Ground Continuity Continuity B249 43 Marcular Continuity Continuity B249 43 Marcular Continuity Continuity B249 43 Marcular Marcular Continuity B249 43 Marcular Marcular Marcular Marcular 43 Marcular Marcular Marcular B249 46 Marcular Marcular Marcul			unit RH.			
isconnect sliding door control unit RH connector. heck continuity between sliding door control unit RH harness connector and automatic sliding door H harness connector. Sliding door control unit RH Automatic sliding door unit RH Continuity Sliding door control unit RH Automatic sliding door unit RH Continuity Connector Terminal Continuity B249 43 B245 4 B249 46 B245 3 heck continuity between sliding door control unit RH harness connector and ground. Existed Sliding door control unit RH Ground Continuity B249 43 Ground Continuity B249 43 Not existed Not existed B249 46 Silding door control unit RH Continuity B249 43 A Continuity B249 43 Mot existed Not existed Inspection result normal? >> Replace automatic sliding door unit RH. Siding door unit RH. Siding door unit RH.	•	•				
Sheck continuity between sliding door control unit RH harness connector and automatic sliding door control unit RH Sliding door control unit RH Automatic sliding door unit RH Continuity Connector Terminal Continuity B249 43 B245 4 Existed Sliding door control unit RH Automatic sliding door unit RH Continuity B249 43 B245 4 Existed Sliding door control unit RH Ground Continuity Sliding door control unit RH Ground Continuity Sliding door control unit RH Automatic sliding door control unit RH Out existed B249 43 Ground Continuity B249 43 Out existed Out existed Sepection result normal? Separation of the sliding door unit RH. Out existed						
Sliding door control unit RH Automatic sliding door unit RH Continuity Connector Terminal Connector Terminal B249 43 B245 4 Existed heck continuity between sliding door control unit RH harness connector and ground. Existed Continuity Sliding door control unit RH Ground Continuity B249 43 Ground Continuity B249 43 Not existed Not existed B249 43 Ground Continuity B249 43 Ground Continuity B249 43 Ground Not existed B249 43 Ground Not existed B249 43 Ground Not existed					s connector and	Lautomatic sliding d
Connector Terminal Connector Terminal Continuity B249 43 B245 4 Existed B249 46 3 Existed 6 heck continuity between sliding door control unit RH harness connector and ground. Continuity Continuity Sliding door control unit RH Connector Terminal Continuity Sliding door control unit RH Ground Continuity B249 43 Ground Continuity B249 43 Not existed Not existed inspection result normal? >> Replace automatic sliding door unit RH. Existed Existed				TTT Harries		automatic sharing a
Connector Terminal Connector Terminal Continuity B249 43 B245 4 Existed B249 46 3 Existed 6 heck continuity between sliding door control unit RH harness connector and ground. Continuity Continuity Sliding door control unit RH Ground Continuity B249 43 Ground Continuity B249 43 Output Output B249 46 Output Not existed Inspection result normal? >> Replace automatic sliding door unit RH. Output Output			-			
B249 43 B245 4 Existed 46 B245 3 Existed Sheck continuity between sliding door control unit RH harness connector and ground. Sliding door control unit RH Connector Terminal Connector Terminal Ground B249 43 Not existed B249 43 Not existed inspection result normal? >> Replace automatic sliding door unit RH.					_	Continuity
B249 46 B245 Existed Sheck continuity between sliding door control unit RH harness connector and ground. Image: Connector and ground. Sliding door control unit RH Continuity Connector Terminal B249 43 B249 46 inspection result normal? Not existed >> Replace automatic sliding door unit RH.	Connector		Cor	nector		
Sheck continuity between sliding door control unit RH harness connector and ground. Sliding door control unit RH Connector Terminal Continuity B249 43 Not existed inspection result normal? >> Replace automatic sliding door unit RH. Continuity	B249		В	3245		Existed
Sliding door control unit RH Continuity Connector Terminal B249 43 43 Not existed inspection result normal? >> Replace automatic sliding door unit RH.		_				
Connector Terminal Continuity B249 43 Ground Not existed inspection result normal? >> Replace automatic sliding door unit RH. Continuity	check continuity be	tween sliding door c	ontrol unit	RH harness	s connector and	ground.
Connector Terminal Continuity B249 43 Ground Not existed inspection result normal? >> Replace automatic sliding door unit RH. Continuity	Sliding	loor control unit RH				
B249 43 inspection result normal? >> Replace automatic sliding door unit RH.			al			Continuity
46 inspection result normal? >> Replace automatic sliding door unit RH.		43		G	Ground	
>> Replace automatic sliding door unit RH.	B249	46				Not existed
>> Replace automatic sliding door unit RH.						
>> Repair or replace harness.	<u>inspection result r</u>	ormal?				
			unit RH.			
	S >> Replace au	tomatic sliding door u	unit RH.			
	>> Replace au	tomatic sliding door u	unit RH.			
	>> Replace au	tomatic sliding door u	unit RH.			
	S >> Replace au	tomatic sliding door u	unit RH.			
	S >> Replace au	tomatic sliding door u	unit RH.			
	>> Replace au	tomatic sliding door u	unit RH.			
	S >> Replace au	tomatic sliding door u	unit RH.			
	S >> Replace au	tomatic sliding door u	unit RH.			
	s >> Replace au	tomatic sliding door u	unit RH.			
	S >> Replace au	tomatic sliding door u	unit RH.			
	S >> Replace au	tomatic sliding door u	unit RH.			
	S >> Replace au	tomatic sliding door u	unit RH.			
	S >> Replace au	tomatic sliding door u	unit RH.			
	>> Replace au	tomatic sliding door u	unit RH.			

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B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

B2416 TOUCH SENSOR RH

DTC Logic

INFOID:000000009649107

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2416	TOUCH SEN R OPEN	When the automatic back door control unit detects the open circuit of the back door touch sensor RH	 Back door touch sensor RH Harness or connectors (Back door touch sensor RH circuit is open) Automatic back door control module

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to DLK-210, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009649108

1.CHECK TOUCH SENSOR INPUT SIGNAL

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

((+)	(-)				
Back door to	uch sensor RH	Automatic back door control mod- ule		Condition		Voltage
Connector	Terminal	Connector	Terminal			
D191	1	B8	14	Back door touch	Detect obstruc- tion	0 – 1.5 V
0191	I	Do	14	sensor RH	Other than above	5 – 6.7 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check back door touch sensor RH circuit

1. Disconnect automatic back door control module connector and back door touch sensor RH connector.

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

Automatic back do	or control module	Back door touch sensor RH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B8	13	D191	1	Existed	

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

Automatic back doe	or control module		Continuity	
Connector	Terminal	Ground	Continuity	
B8	13	`	Not existed	

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3}$.check back door touch sensor RH ground circuit

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

Automatic bac	k door control module	Back door tou	uch sensor RH	Continuity	_
Connector	Terminal	Connector	Terminal	Continuity	
B8	14	D191	2	Existed	D

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

Automatic ba	ck door control module		Continuity	
Connector	Terminal	Ground	Continuity	
B8	14		Not existed	F

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR TOUCH SENSOR RH GROUND CIRCUIT 2

1. Connect automatic back door control module connector and back door touch sensor RH connector.

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

(+)				
Automatic back d	Automatic back door control module		Voltage	I	
Connector	Terminal				
B8	14	Ground	0 – 1.5 V	J	

Is the inspection result normal?

YES >> GO TO 5.

NO	>> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u> .	DL
_		

5.CHECK BACK DOOR TOUCH SENSOR RH

Refer to DLK-211, "Component Inspection".	L
Is the inspection result normal?	
YES >> GO TO 6. NO >> Replace back door touch sensor RH.	M
6.CHECK INTERMITTENT INCIDENT	1 1 1
Refer to GI-42, "Intermittent Incident".	Ν
>> INSPECTION END	
Component Inspection	0
1.CHECK TOUCH SENSOR RH	
 Turn ignition switch OFF. Disconnect back door touch sensor RH connector. 	Ρ

3. Check resistance between back door touch sensor RH terminals.

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B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

	Back door touch sensor RH Terminal		Condition		Resistance
	1	2	Back door touch sensor	Detect obstruction	360 - 440 Ω
	I	2	RH	Other than above	0.9 - 1.1 kΩ

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door touch sensor RH.

B2417 TOUCH SENSOR LH

- DTC/CIRCUIT DIAGNOSIS -

DTC Logic						INFOID:000000009649110
-	TION LOGIC					INFOL2.00000009949110
DTC	CONSULT displa description	ау	DTC detecting co	ondition	Pos	sible cause
B2417	TOUCH SEN L OPEN			r control unit detects or touch sensor LH.	 Harness or of (Back door to is open) 	ouch sensor LH connectors ouch sensor LH circuit ack door control mod-
1.PERFORM	RMATION PRO		CEDURE			
	-	esult" mode of	"AUTO BACK	DOOR" using CO	ONSULT.	
YES >> R	tefer to <u>DLK-213</u> NSPECTION EN	<u>3. "Diagnosis F</u> ID	Procedure".			
Diagnosis	Procedure					INFOID:000000009649111
1. СНЕСК ВИ	ACK DOOR TO	JCH SENSOR	INPUT SIGN	AL		
2. Check vo	ion switch OFF. Itage between t arness connect		h sensor LH h	arness connecto	r and automa	tic back door control
	(+)	(-				
Back door t	ouch sensor LH	Automatic back c		Conditi	ion	Voltage
Connector	Terminal	Connector	Terminal			

D	ĸ

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L

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0 – 1.5 V

5 – 6.7 V

Detect obstruc-

Other than

tion

above

Back door touch

sensor LH

Automatic back do	Automatic back door control module		Back door touch sensor LH	
Connector	Terminal	Connector	Terminal	Continuity
B8	15	D165	1	Existed

Disconnect automatic back door control module connector and back door touch sensor LH connector.

2. Check continuity between automatic back door control module harness connector and back door touch

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

14

	Automatic back do	or control module		Continuity
_	Connector	Terminal	Ground	Continuity
_	B8	15		Not existed

D165

YES

NO

1.

1

Is the inspection result normal?

>> GO TO 3.

>> GO TO 2.

sensor LH harness connector.

B8

2. CHECK BACK DOOR TOUCH SENSOR LH CIRCUIT

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.
- NO >> Repair or replace harness.

3.CHECK BACK DOOR TOUCH SENSOR LH GROUND CIRCUIT

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

Automatic back door control module		Back door tou	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B8	14	D165	2	Existed

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

Automatic back do	or control module		Continuity
Connector	Connector Terminal		Continuity
B8	14	*	Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR TOUCH SENSOR LH GROUND CIRCUIT 2

1. Connect automatic back door control module connector and back door touch sensor LH connector.

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

	(+)		
Automatic back door control module		()	Voltage
Connector	Terminal		
B8	14	Ground	0 – 1.5 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.

5.CHECK BACK DOOR TOUCH SENSOR LH

Refer to DLK-214, "Component Inspection".

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Replace back door touch sensor LH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK BACK DOOR TOUCH SENSOR LH

1. Turn ignition switch OFF.

2. Disconnect back door touch sensor LH connector.

3. Check resistance between back door touch sensor LH terminals.

INFOID:000000009649112

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

Back door touch sensor LH		Con	dition	Resistance 360 - 440 Ω 0.9 - 1.1 kΩ	
Term	Terminal 1 2		Detect obstruction Other than above		
the inspection resu	Ilt normal?	LH	Other than above	0.3 - 1.1 K22	-
ES >> INSPEC		sensor LH.			

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< DTC/CIRCUIT DIAGNOSIS >

B2419 OPEN SWITCH

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2419	OPEN SW	 When the automatic 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 mod- ule

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

- 2. Operate automatic back door.
- 3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to <u>DLK-216, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009649114

1. CHECK AUTOMATIC BACK DOOR CONTROL MODULE OUTPUT SIGNAL

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

(+)		(-)	Voltage
Back door lock assembly			
Connector	Terminal		
D190	4	Ground	9 - 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK OPEN SWITCH CIRCUIT

1. Disconnect automatic back door control module connector.

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

Automatic back d	Automatic back door control module		ck assembly Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
B8	24	D190	4	Existed	

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

INFOID:000000009649113

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic back doo	r control module		Continuity
Connector	Terminal	Ground	Continuity
B8	24	-	Not existed
Is the inspection result normal?	2		
		le. Refer to <u>DLK-495, "Rem</u>	noval and Installation".
NO >> Repair or replace h			
3.CHECK OPEN SWITCH GF	ROUND CIRCUIT		
Check continuity between back	c door lock assembly har	ness connector and ground	1.
Back door lo	ckassembly		
Connector	Terminal	Ground	Continuity
D190	8		Existed
Is the inspection result normal?			
YES >> GO TO 4.	-		
NO >> Repair or replace h	narness.		
4. CHECK OPEN SWITCH			
Refer to DLK-217, "Componen	t Inspection".		
Is the inspection result normal?	<u>?</u>		
YES >> GO TO 5.			
NO >> Replace back door	•		
5. CHECK INTERMITTENT IN			
Refer to GI-42, "Intermittent Inc	<u>cident"</u> .		
>> INSPECTION END)		
Component Inspection			INFOID:00000009649115
COMPONENT INSPECTION	AI.		
	N		
1. CHECK OPEN SWITCH			
 Turn ignition switch OFF. Disconnect back door lock 	accombly connector		
 Check continuity between 		terminals.	
	· ·····,		
Back door lock assem	ıbly	Condition	Continuity
Terminal			

	· · · · · · · · · · · · · · · · · · ·		Condition	Continuity	IVI
Term	inal			Continuity	
Δ	Q	Back door	Open	Existed	
4	0	Back door	Fully closed/Half latch	Not existed	Ν

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

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< DTC/CIRCUIT DIAGNOSIS >

B2420 CLOSE SWITCH

DTC Logic

INFOID:000000009649116

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2420	CLOSE SW	 When the automatic back door control unit detects any of the following condition 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 mod- ule

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

- YES >> Refer to DLK-218, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009649117

1. CHECK AUTOMATIC BACK DOOR CONTROL MODULE 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
Connector	Terminal		
D190	D190 5		9 - 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control module connector.

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

Automatic back doc	or control module	Back door loc	k assembly	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B8	20	D190	5	Existed	

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

Automatic back de	oor control module		Continuity	
Connector	Connector Terminal		Continuity	
B8	20		Not existed	

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-495, "Removal and Installation"

B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >	•			
NO >> Repair or replace ha	rness.			
3. CHECK CLOSE SWITCH GR		UIT	/	А
Check continuity between back of	door lock as	embly harness connector and ground.		
		,		В
Back door lock as			Continuity	
Connector	Termi	nal Ground	,	
D190	8		Existed	С
Is the inspection result normal?				
YES >> GO TO 4.			,	
NO >> Repair or replace ha	rness.		L	D
4.CHECK CLOSE SWITCH				
Refer to <u>DLK-219, "Component I</u>	nspection".		I	Е
Is the inspection result normal?				
YES >> GO TO 5. NO >> Replace back door le	ook accomb			
5.CHECK INTERMITTENT INC		y.	I	F
Refer to GI-42, "Intermittent Incid	<u>dent"</u> .		(G
				0
>> INSPECTION END				
Component Inspection			INFOID:000000009649118	Н
1.CHECK CLOSE SWITCH				
1. Turn ignition switch OFF.				
 Disconnect back door lock a Check continuity between back 		assembly terminals		
5. Check continuity between ba				
Back door lock assemb	ly		Oractionsity	5
Terminal		Condition	Continuity	j

Fully closed

Open/Half latch

١c	the	inspection	result	normal?	

YES >> INSPECTION END

5

NO >> Replace back door lock assembly.

8

Back door

L

DLK

Existed

Not existed

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B2421 CLUTCH OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

B2421 CLUTCH OPERATION TIME

DTC Logic

INFOID:000000009649119

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2421	CLUTCH TIME OUT	When the automatic back door control unit detects the power distribution to the clutch for 2 minutes or more	 Automatic back door control mod- ule Battery voltage (low voltage)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to DLK-220, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009649120

1. CHECK AUTOMATIC BACK DOOR CONTROL MODULE POWER SUPPLY AND GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- Check automatic back door control module power supply and ground circuit. Refer to <u>DLK-238</u>, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure".

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to DLK-495, "Removal and Installation".
- NO >> Repair or replace the malfunctioning parts.

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

B2422 BACK DOOR STATE

DTC Logic

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INFOID:000000009649121

DTC DETECTION LOGIC В CONSULT display DTC DTC detecting condition Possible cause description С Back door mechanism When the automatic back door control unit detects B2422 BACK DOOR STATE back door position malfunction according to the · Automatic back door control modpulse signal ule D DTC CONFIRMATION PROCEDURE 1.PERFORM DTC CONFIRMATION PROCEDURE Ε 1. Turn ignition switch ON. Operate automatic back door. 2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT. 3. F Is DTC detected? YES >> Refer to DLK-221, "Diagnosis Procedure". >> INSPECTION END NO **Diagnosis** Procedure INFOID:000000009649122 **1.**REPLACE AUTOMATIC BACK DOOR CONTROL MODULE Н When DTC [B2422] is detected, replace automatic back door control module. >> Replace automatic back door control module. Refer to DLK-495, "Removal and Installation".

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B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

DTC Logic

INFOID:000000009649123

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
B2423	ABD MTR TIME OUT	When the automatic back door control unit and au- tomatic back door motor operate in the same direc- tion for 30 seconds or more continuously	 Automatic back door control

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

- YES >> Refer to DLK-222, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009649124

$1. \mathsf{CHECK} \ \mathsf{AUTOMATIC} \ \mathsf{BACK} \ \mathsf{DOOR} \ \mathsf{CONTROL} \ \mathsf{MODULE} \ \mathsf{POWER} \ \mathsf{SUPPLY} \ \mathsf{AND} \ \mathsf{GROUND} \ \mathsf{CIRCUIT}$

- 1. Turn ignition switch OFF.
- Check automatic back door control module power supply and ground circuit. Refer to <u>DLK-238</u>, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure".

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.
- NO >> Repair or replace the malfunctioning parts.

B2424 CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

B2424 CLOSURE CONDITION

DTC Logic

INFOID:000000009649125

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DTC DETECTION LOGIC В CONSULT display de-DTC DTC detecting condition Possible cause scription When the following condition is detected after Harness or connector OPEN/CLOSE operation of the back door closure (Open switch or close switch B2424 **CLSR CONDITION** circuit is open or shorted) motor D Back door lock assembly Open switch and close switch are ON DTC CONFIRMATION PROCEDURE Ε **1.**PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. Operate automatic back door. 2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT. 3. Is DTC detected? >> Refer to DLK-223, "Diagnosis Procedure". YES >> INSPECTION END NO **Diagnosis** Procedure INFOID:000000009649126 Н 1. CHECK AUTOMATIC BACK DOOR CONTROL MODULE OUTPUT Turn ignition switch OFF. 1. Disconnect back door lock assembly connector. 2. 3. Check voltage between back door lock assembly harness connector and ground. (+) Back door lock assembly Voltage (-) Connector Terminal DLK 4 D190 9 - 16 V Ground 5 Is the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. 2. CHECK OPEN/CLOSE SWITCH CIRCUIT Μ 1. Disconnect automatic back door control module connector. 2. Check continuity between automatic back door control module harness connector and back door lock assembly harness connector. Ν Automatic back door control module Back door lock assembly Continuity Connector Terminal Connector Terminal 20 5 B8 D190 Existed 24 4 P Check continuity between automatic back door control module harness connector and ground. 3 Automatic back door control module Continuity Terminal Connector Ground 20

B8

24

Not existed

B2424 CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.
- NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

embly	Ground	Continuity	
Terminal		Continuity	
8		Existed	

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK OPEN/CLOSE SWITCH

Refer to DLK-224, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1.CHECK OPEN/CLOSE SWITCH

1. Turn ignition switch OFF.

2. Disconnect back door lock assembly.

3. Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity
Terr	ninal		nanon	Continuity
F			Fully closed	Existed
5	0	Da els de en la els	Open/half latch	Not existed
	0	Back door lock	Open	Existed
4	4		Fully closed/half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

INFOID:000000009649127

B2425 AUTOMATIC BACK DOOR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

B2425 AUTOMATIC BACK DOOR CONTROL UNIT

DTC Logic

INFOID:000000009649128

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DTC	CONSULT display description	DTC Detection Condition	Possible cause
B2425	AUTO BCK DR CNT UNIT	Automatic back door control unit detected CPU malfunction	Automatic back door control mod- ule
Diagnosis P	rocedure		INFOID:000000009
		OOR CONTROL MODULE	
Vhen DTC [B2	425] is detected, repla	ace automatic back door control module.	
>> Re	place automatic back	door control module. Refer to <u>DLK-495</u> ,	"Removal and Installation".

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< DTC/CIRCUIT DIAGNOSIS >

B2621 INSIDE ANTENNA

DTC Logic

INFOID:000000009649130

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2621	INSIDE ANTENNA	An excessive high or low voltage from inside anten- na (instrument center) is sent to BCM	 Inside key antenna (instrument center) Harness or connector (Front inside key antenna (instrument center) circuit is open or shorted)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "WORK SUPPORT" of "INTELLIGENT KEY".
- 4. Check BCM for DTC.

Is inside key antenna DTC detected?

YES >> Refer to <u>DLK-226, "Diagnosis Procedure"</u>.

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

Diagnosis Procedure

INFOID:000000009649131

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+		()	Condition	Signal
BC	∠IVI	(—)	Condition	(Reference value)
Connector	Terminal			
M124	84, 85	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15
IVI 124	04, 00	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 11 11 11 11 11 11 11 11 11 11 11 11 1

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and inside key antenna (instrument center) connector.

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

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

-	Continuity	a (instrument center)	Inside key antenna	СМ	B
В	Continuity	Terminal	Connector	Terminal	Connector
_	Existed	1	M105	84	M124
	Existed	2	WITU5	85	111124

3. Check continuity between BCM harness connector and ground.

B	СМ		Continuity	D
Connector	Terminal	Ground	Continuity	D
M124	84	Ground	Not existed	
11/124	85		NUL EXISIEU	E

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

	+) CM	()	Condition	Signal (Reference value)	
Connector	Terminal	-			I
M124	84 85	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB	J DLK
M124	84, 85	Ground			L
			When Intelligent Key is not in the antenna detection area	(V) 15 10 11 0 0 11 11 11 11 11 11	M
				JMKIA5951GB	Ν

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center).

NO >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

B2622 INSIDE ANTENNA

DTC Logic

INFOID:000000009649132

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA	An excessive high or low voltage from inside anten- na (console) is sent to BCM	 Inside key antenna (console) Harness or connector (Front inside key antenna (console) circuit is open or shorted)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "WORK SUPPORT" of "INTELLIGENT KEY".
- 4. Check BCM for DTC.

Is inside key antenna DTC detected?

YES >> Refer to <u>DLK-228</u>, "Diagnosis Procedure".

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

Diagnosis Procedure

INFOID:000000009649133

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+ BC		(-)	Condition	Signal (Reference value)
Connector	Terminal	_		
M124	86, 87	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
W124	60, 67	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

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

DLK-228

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

	BCM		Inside key a	antenna (console)		Continuity
Connector	Ter	minal	Connector	Termi	nal	Continuity
M124		86	B242	1		Existed
101124		87	0242	2		Existed
heck continuity	y between BC	M harness co	onnector and gro	ound.		
	BCM					
Connector		Terminal				Continuity
		86		Ground		
M124		87				Not existed
onlaco incida l	vov antonna /	concolo) (No	w antonna ar at	hor antonna)		
onnect BCM c	onnector and	inside key ar	ew antenna or othe ntenna (console) ector and ground	connector.	scope.	
onnect BCM c heck signal be	onnector and tween BCM h	inside key ar	ntenna (console) ector and ground	connector.	·	Signal
heck signal be	onnector and tween BCM h	inside key ar harness conne	ntenna (console) ector and ground	connector. I using oscillos	·	Signal ference value)
onnect BCM c heck signal be (+) BCM	onnector and tween BCM h	inside key ar harness conne	ntenna (console) ector and ground	connector. d using oscillos dition t Key is in the	·	ference value)

< DTC/CIRCUIT DIAGNOSIS >

B2623 INSIDE ANTENNA

DTC Logic

INFOID:000000009649134

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA	An excessive high or low voltage from inside anten- na (luggage room) is sent to BCM	 Inside key antenna (luggage room) Harness or connector (Front inside key antenna (luggage room) circuit is open or shorted)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "WORK SUPPORT" of "INTELLIGENT KEY".
- 4. Check BCM for DTC.

Is inside key antenna DTC detected?

YES >> Refer to DLK-230, "Diagnosis Procedure".

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

Diagnosis Procedure

INFOID:000000009649135

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+ BC		()	Condition	Signal (Reference value)
Connector	Terminal			(
M124	88, 89	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
W124	00, 09	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Is the inspection result normal?

- YES >> Replace BCM. Refer to <u>BCS-98. "Removal and Installation"</u>.
- NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

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

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B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

Connector			Inside ke	ey antenna (luggage	room)	Continuity	
Connector		Terminal	Connecto	or Te	minal	Continuity	
M124		88	B241		1	Existed	
11124		89	2		2	LAISIEU	
Check continu	iity between	BCM harness c	onnector an	d ground.			
	BCM						
Connect	Connector Termina				C	ontinuity	
		88		Ground			
M124		89			N	ot existed	
Replace inside Connect BCM	e key antenr connector a petween BC	nd inside key a	n). (New ant ntenna (lugg	enna or other an Jage room) conne round using oscil	ector.		
BC				Condition	Si	Signal	
Connector	Terminal	(-)		Condition		(Reference value)	
					(Refere	nce value)	
M124	88, 89	Ground		elligent Key is in the detection area	(Refere		

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B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2626 OUTSIDE ANTENNA

DTC Logic

INFOID:000000009649136

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2626	OUTSIDE ANTENNA	An excessive high or low voltage from front door right outside key antenna is sent to BCM	 Front door right outside key antenna Harness or connector (Front door right outside key antenna circuit is open or shorted)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

- YES >> Refer to <u>DLK-232</u>, "Diagnosis Procedure".
- NO >> Outside key antenna (passenger side) is OK.

Diagnosis Procedure

INFOID:000000009649137

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition		Signal (Reference value)
Connector	Terminal				
M124	80, 81	Ground	When the passenger door request switch is	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	(V) 15 10 5 0 1 5 1 5 0 1 5 0 1 5 5 5 5 5 5 5 5 5 5 5 5 5
W124	00, 01	Giouna	operated with power switch ON	When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	(V) 15 10 5 0 500 ms JMKIA5954GB

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

NO >> GO TO 2.

- 2. CHECK OUTSIDE KEY ANTENNA CIRCUIT
- 1. Disconnect BCM connector and front door outside handle assembly RH connector.
- 2. Check continuity between BCM harness connector and front door outside handle assembly RH harness connector.

DLK-232

B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

BCM			Fron	Front door outside handle assembly RH		
Con	nector	Tern	ninal Co	nnector T	erminal	Continuity
М	124	8	0	D31	1	Existed
IVI	124	8	1	551	2	Existed
Check c	ontinuity be	etween BC	M harness connected	or and ground.		
		BCM				Continuity
C	Connector		Terminal	Ground		Continuity
	M124		80	Ground		Not existed
			81			Not oxioted
ES >> O >> CHECK (Replace Connect Turn ign	outside key BCM conn ition switch	eplace hari EY ANTEI y antenna iector and ON.	NNA INPUT SIGNA (passenger side). (I front door outside h	New antenna or othe andle assembly RH	connector.	
	(+)			nd ground using osc	anoscope.	
	BCM (-)		Co	ndition	(Da	Signal eference value)
^	T				(14	elence value)
Connector	Terminal					
		Ground	When the passenger door request switch is	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	⊢▶	DO msJMKIA59550
M124	80, 81	Ground		is in the antenna de- tection area (The dis- tance between Intelligent Key and an-	(V) (V) 15 50 (V) 15 10 50 (V) 15 10 15 10 15 10 10 10 10 10 10 10 10 10 10	00 ms
M124	80, 81		door request switch is operated with power	is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less) When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an-	(V) (V) 15 50 (V) 15 10 50 (V) 15 10 15 10 15 10 10 10 10 10 10 10 10 10 10	
M124 the inspec	80, 81 2tion result r Replace fro	<u>normal?</u> nt door ou	door request switch is operated with power switch ON	is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less) When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	15 10 5 0 ↓ 5 5 0 ↓ 5 0 ↓ 5 0 ↓ 5 0 ↓	JMKIA59550
M124 the inspec	80, 81 2tion result r Replace fro	<u>normal?</u> nt door ou	door request switch is operated with power switch ON tside handle assem	is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less) When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	15 10 5 0 ↓ 5 5 0 ↓ 5 0 ↓ 5 0 ↓ 5 0 ↓	JMKIA59550
M124 the inspec	80, 81 2tion result r Replace fro	<u>normal?</u> nt door ou	door request switch is operated with power switch ON tside handle assem	is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less) When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	15 10 5 0 ↓ 5 5 0 ↓ 5 0 ↓ 5 0 ↓ 5 0 ↓	JMKIA59550

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2627 OUTSIDE ANTENNA

DTC Logic

INFOID:000000009649138

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2627	OUTSIDE ANTENNA	An excessive high or low voltage from front door left outside key antenna is sent to BCM	 Front door left outside key antenna Harness or connector (Front door left outside key anten- na circuit is open or shorted)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON. 1.
- Check "Self Diagnostic Result" mode of "BCM" using CONSULT. 2.

Is DTC detected?

>> Refer to <u>DLK-234, "Diagnosis Procedure"</u>. >> Outside key antenna (driver side) is OK. YES

NO

Diagnosis Procedure

INFOID:000000009649139

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(- BC Connector	+) CM Terminal	()	Condition		Signal (Reference value)
M124	78.79	Ground	When the driver door request switch is oper-	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB
W124	70,79	Ground	ated with power switch ON	When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	(V) 15 10 5 0 500 ms JMKIA5954GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

Disconnect BCM connector and front door outside handle assembly LH connector. 1.

2. Check continuity between BCM harness connector and front door outside handle assembly LH harness connector.

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

	BC	M	Front	door outside han	dle assembly LH	Continuity	
Conr	nector	Tern	ninal Con	nector	Terminal	Continuity	
M	124	7	8	032	1	Existed	
IVI	124	7	9	552	2	LAISted	
Check co	ontinuity be	BCM	M harness connecto	or and ground.			
С	onnector		Terminal	_		Continuity	
			78	Ground			
	M124		79	_		Not existed	
ES >> 0 O >> F CHECK C Replace Connect Turn igni	outside ke BCM conn tion switch	eplace harr EY ANTEI y antenna lector and ON.	ness. NNA INPUT SIGNAL (driver side). (New a front door outside ha arness connector ar	antenna or othe andle assembl	y LH connector.		
	+)						
В	СМ	(—)	Con	dition	(Signal (Reference value)	
Connector	Terminal				Ň	,	
M124			When the driver door request switch is oper-	When Intelligen is in the antenna tection area (Th tance between Intelligent Key a tenna: 80 cm or	a de- 15 10 e dis- 5 0 nd an-	500 ms	
			ated with power switch ON	When Intelligen is not in the antu detection area (distance betwee telligent Key an tenna: Approx. 2	15 The 10 The 5 en In- 0 d an- 0	00 ms	
ES >> F		nt door ou	tside handle assemt			JMKIA5954G	

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2628 OUTSIDE ANTENNA

DTC Logic

INFOID:000000009649140

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2628	OUTSIDE ANTENNA	An excessive high or low voltage from outside key antenna (rear bumper) is sent to BCM	 Outside key antenna (rear bumper) Harness or connector (Outside key antenna (rear bumper) circuit is open or shorted)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

- YES >> Refer to <u>DLK-230, "Diagnosis Procedure"</u>.
- NO >> Outside key antenna (rear bumper) is OK.

Diagnosis Procedure

INFOID:000000009649141

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		()	Condition		Signal (Reference value)	
Connector	Terminal					
M124	82, 83	Ground	When the back door request switch is oper-	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB	
WIZ+	02,00	Ciouna	ated with power switch ON	When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	(V) 15 10 5 0 500 ms JMKIA5954GB	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

NO >> GO TO 2.

- 2. CHECK OUTSIDE KEY ANTENNA CIRCUIT
- 1. Disconnect BCM connector and outside key antenna (rear bumper) connector.
- 2. Check continuity between BCM harness connector and outside key antenna (rear bumper) harness connector.

DLK-236

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

	BC	CM	Out	Outside key antenna (rear bumper)		_ Continuity	
Conr	nector	Tern	ninal Cor	nector	Terminal	Continuity	
NЛ	124	8	2 B	3303	1	Existed	
IVI	124	8	3		2	Existed	
Check c	ontinuity be	etween BC	M harness connecto	or and ground.			
		DOM					
		BCM	Taurainal	_		Continuity	
C	onnector		Terminal 82	- Ground	k	Continuity	
	M124		83	-		Not existed	
ha inchas	tion result r	oormol?	05				
•	<u>GO TO 3.</u>	ionnar:					
	Repair or re	eplace hari	ness.				
	•	•	NNA INPUT SIGNAL	_2			
			(rear bumper). (New		r antenna)		
			y antenna (rear bum		antenna)		
Turn igni	ition switch	ON.					
Check si	ignal betwe	en BCM h	arness connector ar	nd ground using c	oscilloscope.		
(+)						
	CM	()	Con	dition		Signal	
Connector	Terminal				(R	(Reference value)	
				When Intelligent Ke	ey (V)		
				is in the antenna de	10		
				tection area (The d tance between	is- 5 0		
				Intelligent Key and			
			When the back door	tenna: 80 cm or les	is) 5	00 ms	
M124	82, 83	Ground	request switch is oper- ated with power			JMKIA5955G	
			switch ON	When Intelligent Ke	ev (V)		
				is not in the antenn	a 15		
				detection area (The			
				distance between I telligent Key and a	· · ·		
				tenna: Approx. 2 m	. ⊢	▶ ∢ 00 ms	
						JMKIA5954G	
ne inspec	tion result r	normal?					
			antenna (rear bumpe				
0 >> l	Replace BC	CM. Refer	to <u>BCS-98, "Remova</u>	al and Installation	<u>"</u> .		

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT AUTOMATIC BACK DOOR CONTROL MODULE

AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure

INFOID:000000009649142

1.CHECK FUSE, FUSIBLE LINK AND CIRCUIT BREAKER

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

Fuse and fusible link No.	Signal name		
J (40A)	Rattony power supply		
9 (10A)	Battery power supply		
3 (10A)	Ignition power supply		

Is the fuse fusing?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect automatic back door control module connector.
- 3. Check voltage between automatic back door control module harness connector and ground.

(+) Automatic back door control module		(-)	-) Condition		Voltage
Connector	Terminal				
	1			OFF	
B8	7	Ground	Ignition switch	ON	9 - 16 V
	9	†		OFF	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$\mathbf{3.}$ CHECK GROUND CIRCUIT

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

Automatic back de	oor control module		Continuity	
Connector	Terminal	Ground	Continuity	
B8	11		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness. BACK DOOR CONTROL UNIT

BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000009649143

1.CHECK FUSE

Check that the following fusible link is not fusing.

•	Fusible link	Signal name	
_	J (40A)	Battery power supply	

Is the inspection result normal?

YES >> GO TO 2.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(-) Voltage round 8 - 16 V r and ground. Continuity und Existed	
round 8 - 16 V r and ground. Continuity und	
r and ground.	
r and ground.	
und	
und	
edure INFOID:000	000000964914
Signal name	
Ignition power supply	
Battery power supply	
	le link is
	Ignition power supply

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(+	·)				
Sliding door c	ontrol unit LH	(-)	Cond	lition	Voltage
Connector	Terminal				
D45	6			ON	9 – 16 V
B45 -	12	Cround			8 – 16 V
B46	36	Ground	Ignition switch	OFF	9 – 16 V
B40	42				
iding door RH					
(+	-)				Voltage
Sliding door o	ontrol unit RH	(-)	Cond	lition	
Chang abor of		1			
Connector	Terminal				
Connector	Terminal 6			ON	9 – 16 V
_		Cround		ON	9 – 16 V 8 – 16 V
Connector	6	Ground	Ignition switch	ON	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

Sliding door LH

0				
-	Sliding door o	control unit LH		Continuity
-	Connector	Terminal		Continuity
-	B45	27	Ground	
-	B46	33		Existed
	D40	37		

Sliding door RH

	ing abor rai			
-	Sliding door o	control unit RH		Continuity
-	Connector	Terminal		Continuity
-	B247	27	Ground	
-	B248	33		Existed
_	D240	37		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Component Function Check

INFOID:000000009649145

1.CHECK FUNCTION

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

Monitor item		Condition	Status	
	Driver eide deer	Open	On	D
DOOR SW-DR	Driver side door	Closed	Off	
	Decembra side dece	Open	On	
DOOR SW-AS	Passenger side door	Closed	Off	— E
	Olidia a de sa LU	Open	On	
DOOR SW-RL	Sliding door LH	Closed	Off	F
	Olidian desa DU	Open	On	
DOOR SW-RR	Sliding door RH	Closed	Off	

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Refer to <u>DLK-241, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK DOOR SWITCH INPUT SIGNAL

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

(+)					
Door switch			(-)	Signal (Reference value)	
Connec	ctor	Terminal			
Driver side	B35				-
Passenger side	B235			(V) 15	
Sliding door LH	B71	-		¹ ⁹ NNNNNN	
Sliding door RH	B221	3	Ground	0	
				рків4960Ј 7.0 - 8.0 V	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector.

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

А

В

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J

Ρ

INFOID:000000009649146

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Door switch		B	Continuity		
Coni	nector	Terminal	minal Connector Terminal		Continuity	
Driver side	B35			47		
Passenger side	B235		45	Existed		
Sliding LH	B71	3	M122	48	Existed	
Sliding RH	B221	†		46		

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

	Door switch		Continuity	
Co	nnector	Terminal	-	Continuity
Driver side	B35		Ground	
Passenger side	B235	3	Giouna	Not existed
Sliding LH	B71			NOL EXISTED
Sliding RH	B221			

Is the inspection result normal?

>> Replace BCM. Refer to BCS-98, "Removal and Installation". YES

NO >> Repair or replace harness.

3. CHECK DOOR SWITCH

Refer to DLK-242, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

>> Replace malfunctioning door switch. NO

4.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK DOOR SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

INFOID:000000009649147

BACK DOOR SWITCH

BACK DOOR	SVIIC	Н				
Component Fur	nction C	heck				INFOID:00000009649148
1.CHECK FUNCTION	Л					
 Select "DOOR L Select "DOOR S Check that the full 	SW-BK" in '	"DATA MONIT	OR" mode.	o the foll	owing condition	ns.
Monitor item			Conditio	n		Status
DOOR SW-BK	B	ack door	Op	ben		On
			Clo	osed		Off
	or switch is DLK-243,	_	<u>ocedure"</u> .			
Diagnosis Proce	dure					INFOID:00000009649149
1.CHECK BACK DO	OOR SWIT	TCH INPUT SI	IGNAL			
 Turn ignition swi Disconnect back Check signal be 	door lock			ess conne	ector and grou	nd using oscilloscope.
(+)						
Back door loc			(—)			Signal rence value)
Connector	Terminal	I				
D190	7		Ground		(V) ₁₅ 10 5 0 ••10 9.0	JPMIA0593GB D - 10.0 V
Is the inspection resu YES >> GO TO 3		?				
NO >> GO TO 2	2.					
1. Disconnect BCM	1 connecto	or.		arness co	onnector and B	CM harness connector.
Back doo	or lock assem	nbly		BC	И	
Connector	-	Terminal	Connecto	or	Continuity	
D190		7	M122		43	Existed
Check continuity	between	back door locl	k assembly ha	arness co	onnector and g	round.
Ba	ack door lock	assembly				
Connector		Termina	al	G	round	Continuity
D190	ult normal?	7				Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

NO >> Repair or replace harness.

DLK-243

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

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

Back door loo	Back door lock assembly		Continuity
Connector	Terminal	Ground	Continuity
D190	8		Existed
Is the inspection result norma	<u>l?</u>		
YES >> GO TO 4.			
NO >> Repair or replace	harness.		
4.CHECK BACK DOOR SW	ITCH		
Refer to DLK-244, "Compone	nt Inspection"		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1.CHECK BACK DOOR SWITCH

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

_	Back door lo	ock assembly	Con	dition	Continuity
	Terr	ninal	Con		Continuity
	7	0	Back door lock	Lock	Existed
	I	0	Back door lock	Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

INFOID:000000009649150

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK AND UNLOCK SWITCH WITH AUTOMATIC SLIDING DOOR

WITH AUTOMATIC SLIDING DOOR : Component Function Check

INFOID:000000009649151

А

В

С

1.CHECK FUNCTION

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

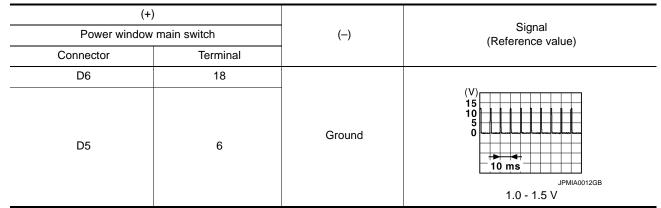
Monitor item	Cor	ndition	Status
		Lock	ON
CDL LOCK SW		Unlock	OFF
	 Door lock and unlock switch 	Lock	OFF
CDL UNLOCK SW		Unlock	ON
he inspection result norm	nal?		
	Inlock switch is OK.		
O >> Refer to <u>DLK-24</u>	<u>45, "WITH AUTOMATIC SI</u>	<u>IDING DOOR : Diagr</u>	nosis Procedure".
TH AUTOMATIC S	LIDING DOOR : Dia	gnosis Procedure	INFOID:00000000
CHECK POWER WINDO			
Turn ignition switch ON			
Check power window of			
es power window operate			
ES >> Replace the ma	Ifunctioning power window	v switch.	
O >> Refer to <u>PWC-</u>	52, "POWER WINDOW N	AIN SWITCH : Diag	nosis Procedure" (power win
	nt power window switch (page 1)		(PASSENGER SIDE) : Diagn
		abbeliger blue/j.	
	TIC SLIDING DOOF	χ ^τ	
	TIC SLIDING DOOF TIC SLIDING DOOR		nction Check INFOID:0000000
ITHOUT AUTOMAT			nction Check INFOID:0000000
ITHOUT AUTOMAT	TIC SLIDING DOOR		nction Check INFOID:0000000
ITHOUT AUTOMAT CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW"	TIC SLIDING DOOR	Component Fui	de.
THOUT AUTOMAT CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW"	TIC SLIDING DOOR	Component Fui	de.
/ITHOUT AUTOMAT .CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW"	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi	Component Fui	de. nditions.
THOUT AUTOMAT CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi	Component Fui	de.
CHECK FUNCTION .CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi	Component Fui	de. nditions.
/ITHOUT AUTOMAT .CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function Monitor item CDL LOCK SW	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi	Component Fui	de. nditions. Status ON
ITHOUT AUTOMAT CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi	Component Fui	de. nditions. Status ON OFF
ITHOUT AUTOMAT CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function Monitor item CDL LOCK SW CDL UNLOCK SW	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi Cor	Component Fui	de. nditions. Status ON OFF OFF
THOUT AUTOMAT CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function Monitor item CDL LOCK SW CDL UNLOCK SW he inspection result norm	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi Cor Door lock and unlock switch nal?	Component Fui	de. nditions. Status ON OFF OFF
ITHOUT AUTOMAT CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function Monitor item CDL LOCK SW CDL UNLOCK SW the inspection result norm 'ES >> Door lock and u	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi Cor	Component Fui	de. Inditions. ON OFF OFF ON
CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function Monitor item CDL LOCK SW CDL UNLOCK SW the inspection result norm (ES >> Door lock and u IO >> Refer to DLK-24	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi Cor Door lock and unlock switch nal? unlock switch is OK. 45. "WITHOUT AUTOMAT	Component Fui	de. nditions. Status ON OFF OFF ON Diagnosis Procedure".
/ITHOUT AUTOMAT .CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function Monitor item CDL LOCK SW CDL UNLOCK SW the inspection result norm (ES >> Door lock and under the select to DLK-24)	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi Cor Door lock and unlock switch <u>nal?</u> unlock switch is OK.	Component Fui	de. Inditions. Status ON OFF OFF OFF ON
ITHOUT AUTOMAT CHECK FUNCTION Select "DOOR LOCK" of Select "CDL LOCK SW" Check that the function Monitor item CDL LOCK SW CDL UNLOCK SW the inspection result norm ES >> Door lock and u IO >> Refer to DLK-24	of "BCM" using CONSULT. ", "CDL UNLOCK SW" in "I operates normally accordi Cor Door lock and unlock switch nal? unlock switch is OK. 45. "WITHOUT AUTOMAT TIC SLIDING DOOR	Component Fui	de. Inditions. Status ON OFF OFF OFF ON Diagnosis Procedure".

1. Turn ignition switch OFF.

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< DTC/CIRCUIT DIAGNOSIS >

- 2. Disconnect power window main switch connector.
- 3. Check signal between power window main switch harness connector and ground using oscilloscope.



Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check door lock and unlock switch circuit

1. Disconnect BCM connector and power window main switch connector.

2. Check continuity between BCM harness connector and power window main switch harness connector.

В	СМ	Power windo	w main switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M121	12	D6	18	Existed
	13	D5	6	LXISIEU

3. Check continuity between BCM harness connector and ground.

E	BCM		Continuity
Connector	Terminal	Ground	Continuity
M121	12	Ground	Not existed
IVI I Z I	13		NOT EXISTED

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3.}$ CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

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

Power window	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D6	17		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to DLK-248, "WITHOUT AUTOMATIC SLIDING DOOR : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to <u>PWC-123</u>, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

< DTC/CIRCUIT DIAGNOSIS >

Refer to GI-42, "Intermittent Incident". А >> INSPECTION END FRONT POWER WINDOW SWITCH (PASSENGER SIDE) В 1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL 1. Turn ignition switch OFF. Disconnect front power window switch (passenger side) connector. 2. Check signal between front power window switch (passenger side) harness connector and ground using 3. oscilloscope. D (+) Signal front power window switch (passenger side) (-) (Reference value) Ε Connector Terminal 1 D56 Ground 2 10 ms JPMIA0012GB 1.0 - 1.5 V Н Is the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. 2.check door lock and unlock switch circuit Disconnect BCM connector and front power window switch (passenger side) connector. 1. Check continuity between BCM harness connector and front power window switch (passenger side) har-2. J ness connector. BCM front power window switch (passenger side) DLK Continuity Connector Terminal Connector Terminal 12 1 M121 D56 Existed 13 2 Check continuity between BCM harness connector and ground. 3. M BCM Continuity Connector Terminal Ground 12 M121 Not existed Ν 13 Is the inspection result normal? YES >> Replace BCM. Refer to BCS-98, "Removal and Installation". NO >> Repair or replace harness. 3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND Ρ Check continuity between front power window switch (passenger side) harness connector and ground. front power window switch (passenger side) Continuity Connector Terminal Ground D56 3 Existed Is the inspection result normal? **DLK-247** Revision: 2014 May 2014 QUEST

< DTC/CIRCUIT DIAGNOSIS >

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

4.CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to DLK-248, "WITHOUT AUTOMATIC SLIDING DOOR : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front power window switch (passenger side). Refer to <u>PWC-123</u>, "<u>Removal and Installa-</u> tion".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

WITHOUT AUTOMATIC SLIDING DOOR : Component Inspection

INFOID:000000009649155

POWER WINDOW MAIN SWITCH

1. CHECK DOOR LOCK AND UNLOCK SWITCH

1. Turn ignition switch OFF.

- 2. Disconnect power window main switch connector.
- 3. Check continuity between power window main switch terminals.

Power windo	w main switch	Cor	ndition	Continuity
Terr	minal		lation	Continuity
18			LOCK	Existed
10	17	Door lock and unlock	UNLOCK	Not existed
6		switch	LOCK	Not existed
0			UNLOCK	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch.

FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

1. CHECK DOOR LOCK AND UNLOCK SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.

3. Check continuity between front power window switch (passenger side) terminals.

Front power window s	witch (passenger side)	Cor	ndition	Continuity
Ter	minal			Continuity
1			LOCK	Existed
I	2	Door lock and unlock	UNLOCK	Not existed
2		switch	LOCK	Not existed
2			UNLOCK	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side).

< DTC/CIRCUIT DIA	GNOSI			ACTUAT	UK		
DOOR LOCK /	ACTU/	ATOR					Δ
DRIVER SIDE							A
DRIVER SIDE :	Compo	onent Fund	tion Che	ck		INFOID:00000009649156	В
	DN						D
Select "DOOR Lu Select "DOOR Lu Select "DOOR Lu Touch "ALL LOC Is the inspection result YES >> Door loc	OCK" in ' K" or "AL <u>Ilt norma</u> k actuato	'ACTIVE TĔS .L UNLK" to cl <u>l?</u> ır is OK.	T" mode. heck that it v		-		C
NO >> Refer to DRIVER SIDE :		<u>, "DRIVER SI</u> sis Proced		SIS Procedur	<u>e</u> .		_
	-					INFOID:00000009649157	E
 CHECK DOOR LC Turn ignition swit Disconnect front Check voltage be 	tch OFF. door locl	k assembly (d	river side) co		arness connect	or and ground.	F
(+)							G
Front door lock as (driver side)		(—)		Condition		Voltage	Н
Connector T	erminal				1		
D48	1	Ground	Door lock and	I unlock switch	Lock Unlock	9 - 16 V	
$\frac{NO \implies GO TO 2}{2.CHECK DOOR LO}$ 1. Disconnect BCM	front doc 2. DCK ACT I, all door	TUATOR CIRC	CUIT s connector.				J DLK
2. Check continuity connector.	betwee	n BCM harne	ss connecto	r and front o	door lock asse	mbly (driver side) harness	
	BCM		Front o	loor lock assem	nbly (driver side)	Continuity	L
Connector		Terminal	Conne	ector	Terminal		
M123		65 66	– D4	.8	1	Existed	Μ
3. Check continuity	betweer		s connector	and ground.			Ν
	BCI	N				Continuity	14
Connector		Termir	nal	Gro	ound	Continuity	0
M123	_	65 66				Not existed	0
Is the inspection result YES >> GO TO 3 NO >> Repair o 3. CHECK BCM OU	3. r replace	harness.					Ρ

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

	+) CM	()	Condition		Voltage
Connector	Terminal				
M123	65	Ground	Door lock and unlock switch	Lock	9 - 16 V
101123	66	Giouna	DOUT TOCK and UNIOCK SWITCH	Unlock	9 - 10 V

Is the inspection result normal?

YES >> Check for internal short of door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Touch "ALL LOCK" 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-250</u>, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

((+)				
	ock assembly nger side)	()	Condition		Voltage
Connector	Terminal				
D9	5	Ground	Door lock and unlock switch	Lock	9 - 16 V
	6	Giouna	Door lock and unlock Switch	Unlock	3-10 V

Is the inspection result normal?

YES >> Replace front door lock assembly (passenger side).

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

B	СМ	Front door lock asser	mbly (passenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	65	D9	5	Existed
WIZ5	59	9	6	LXISIEU

3. Check continuity between BCM harness connector and ground.

INFOID:000000009649159

INFOID:000000009649158

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

	BCM				Continuity
Connec	tor	Terminal	Groun	d	Continuity
M123		65	Glouin	u	Not existed
101123	,	59			NOT EXISTED
he inspection r	esult normal?				
ES >> GO T					
•	r or replace ha				
CHECK BCM (OUTPUT SIGN	AL			
Connect BCM	l connector.				
		l harness cor	nnector and ground.		
Check voltage	e between BCM	I harness cor	nnector and ground.		
Check voltage	e between BCN	1 harness cor			
Check voltage	e between BCM	1 harness cor (–)	nnector and ground. Condition		Voltage
Check voltage	e between BCN				Voltage
Check voltage (B Connector	e between BCN +) CM	()	Condition	Lock	
Check voltage	e between BCN +) CM Terminal			Lock Unlock	Voltage —9 - 16 V
Check voltage (B Connector	e between BCM +) CM Terminal 65 59	()	Condition		
Check voltage (B Connector M123 he inspection r	e between BCM +) CM Terminal 65 59	(–) — Ground	Condition Door lock and unlock switch		
Check voltage (B Connector M123 he inspection r ES >> Chec	e between BCM +) CM Terminal 65 59 esult normal? < for internal sh	(–) Ground ort of door loo	Condition Door lock and unlock switch	Unlock	

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< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR LOCK ACTUATOR WITH AUTOMATIC SLIDING DOOR

WITH AUTOMATIC SLIDING DOOR : Component Function Check

INFOID:000000009649160

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Touch "ALL LOCK" 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-255, "WITHOUT AUTOMATIC SLIDING DOOR : Diagnosis Procedure"</u>.

WITH AUTOMATIC SLIDING DOOR : Diagnosis Procedure

INFOID:000000009649161

Sliding door lock assembly LH

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.

- 2. Disconnect sliding door lock assembly LH connector.
- 3. Check voltage between sliding door lock assembly LH harness connector and ground.

(+) Sliding door lock assembly LH		()	Condition		Voltage
Connector	Terminal				
D85	2	Ground	Door lock and unlock switch	Lock	9 - 16 V
	1			Unlock	

Is the inspection result normal?

YES >> Replace sliding door lock assembly.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT 1

- 1. Disconnect BCM, all door lock actuators connector.
- 2. Check continuity between BCM harness connector and sliding door lock assembly LH harness connector.

BCM		Sliding door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	65	D85	2	Existed

3. Check continuity between BCM harness connector and ground.

B	СМ	Ground	Continuity
Connector	Terminal		
M123	65		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR CIRCUIT 2

1. Disconnect selective unlock relay connector.

 Check continuity between selective unlock relay harness connector and sliding door lock assembly LH harness connector.

< DTC/CIRCUIT DIAGNOSIS >

Connector M91 Check continuity betw	Terminal		Sliding door lock asser	-	Continuity	
Check continuity betw		Co	onnector	Terminal	— • • • •	
-	3		D85	1	Existed	
	veen BCM h	arness connect	or and ground.			
Selective	unlock relay				Continuity	
Connector	Term	ninal	Ground			
M91	3	3		1	lot existed	
ne inspection result no	ormal?					
ES >> GO TO 4. D >> Repair or rep	laco harnos					
CHECK SELECTIVE (
			CIRCOIT			
Disconnect selective Check continuity betw	veen selectiv	connector. /e unlock relav	harness connector	and ground.		
-		-				
	ive unlock relay				Continuity	
Connector		Terminal	Ground			
M91		4			Existed	
ne inspection result no	<u>prmal?</u>					
ES >> GO TO 5. D >> Repair or rep	lace harness	5.				
CHECK SELECTIVE (
eck selective unlock re						
er to <u>DLK-258, "Comp</u>		<u>ction"</u>				
ne inspection result no	<u>prmal?</u>					
ES >> GO TO 6. D >> Replace sele	otivo unlook	rolov				
CHECK BCM OUTPU		reiay.				
Connect BUIN conne		ness connector	and ground.			
Connect BCM conne Check voltage betwe						
Check voltage betwe						
Check voltage betwe (+)						
Check voltage betwe		()	Cor	ndition	Voltage	
Check voltage between (+) BCM Connector	Terminal		Cor	1		
Check voltage betwe (+) BCM	Terminal 65	()	Cor	Lock	9 - 16 V	
Check voltage between (+) BCM Connector				1		

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

< DTC/CIRCUIT DIAGNOSIS >

(·	+)				
Sliding door loo	ck assembly RH	()	Condition		Voltage
Connector	Terminal				
D105	1	Ground	Door lock and unlock switch	Lock	9 - 16 V
5105	2	Gibunu	DOUT TOOK AND UTITOOK SWITCH	Unlock	9-10 V

Is the inspection result normal?

YES >> Replace sliding door lock assembly.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, all door lock actuators connector.

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

В	BCM		Sliding door lock assembly RH		
Connector	Terminal	Connector	Terminal	Continuity	
M123	65	D105	1	Existed	
M122	55		2		

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M123	65	Ground	Not existed
M122	55		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 $\mathbf{3.}$ CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

(- P(+) CM	()	Condition Voltag		Voltage		
Connector	Terminal	(—)			voltage		
M123	65	Ground	Door look and unlook switch	Lock	9 - 16 V		
M122	55	Ground	Door lock and unlock switch Unlock		Unlock and unlock switch Unlock 9 - 16 V	Unlock 9 - 16	9-16 V

Is the inspection result normal?

YES >> Check for internal short of door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

WITH AUTOMATIC SLIDING DOOR : Component Inspection

INFOID:000000009649162

1.CHECK SELECTIVE UNLOCK RELAY

1. Turn ignition switch OFF.

2. Remove selective unlock relay.

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< DTC/CIRCUIT DIAGNOSIS >

3. Check the continuity between selective unlock relay terminals under the following conditions.

Terr	minal	Condition	Continuity		
		No current supply	Existed	5	പ്പം
4	3	12 V direct current supply between ter- minals 1 and 2.	Not existed		3-5
5	3	12 V direct current supply between ter- minals 1 and 2.	Existed		241
		No current supply	Not existed		JMLIA

Is the inspection result normal?

- >> INSPECTION END. YES
- NO >> Replace selective unlock relay.

WITHOUT AUTOMATIC SLIDING DOOR



1.CHECK FUNCTION

1.

- Select "DOOR LOCK" of "BCM" using CONSULT. Select "DOOR LOCK" in "ACTIVE TEST" mode. 2.
- 3. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
- NO >> Refer to DLK-255, "WITHOUT AUTOMATIC SLIDING DOOR : Diagnosis Procedure".

WITHOUT AUTOMATIC SLIDING DOOR : Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.

- Disconnect sliding door lock assembly LH connector and sliding door lock assembly RH connector. 2.
- 3. Check voltage between sliding door lock assembly LH/RH harness connector and ground.

	(+)						D
Sliding door lock assembly		(–) Condition		n	Voltage		
Co	nnector	Terminal					[
	Dec	2			Lock		_
LH	D85	1	Doc	Door lock and unlock	Unlock	0.401/	
	D105	1	Ground	switch	Lock	9 - 16 V	ľ
RH	D105	2			Unlock	-	

Is the inspection result normal?

YES >> Replace sliding door lock assembly.

- 2. CHECK DOOR LOCK ACTUATOR CIRCUIT
- Disconnect BCM, all door lock actuators connector. 1.
- Check continuity between BCM harness connector and sliding door lock assembly LH/RH harness con-2. nector.

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< DTC/CIRCUIT DIAGNOSIS >

BCM			Sliding door l	Continuity	
Con	nector	Terminal	Connector	Terminal	Continuity
LH	M123	65	D85	2	Eviete d
LH	M122	55		1	
RH	M123	65	D105	1	Existed
	M122	55	D105	2	

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M123	65	Ground	Not existed
M122	55		NUL EXISIEU

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

(-	+)				
BC	M	()	Condition		Voltage
Connector	Terminal				
M123	65	Ground	Door lock and unlock switch	Lock	9 - 16 V
M122	55	Gibullu	DOUT TOOK AND UTTOOK SWITCH	Unlock	3-10 V

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator and fuel lid lock actuator.

NO >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOS			
SELECT UNLOCK			
Component Function	Check		A
1.CHECK FUNCTION			
	f "BCM" using CONSULT.		В
2. Select "DOOR LOCK" in	"ACTIVE TEST" mode.		
3. Touch "ALL UNLK" to ch Is the inspection result norm	eck that it works normally al?	of sliding door LH.	С
YES >> Selective unlock	relay is OK.		
	7, "Diagnosis Procedure".		D
Diagnosis Procedure			INFOID:000000009649166
1.CHECK SELECTIVE UNI	LOCK RELAY POWER SU	JPPLY 1	E
 Turn ignition switch OFF Disconnect BCM connect 			
	BCM harness connector a	and ground.	F
(+)		
B	CM	(–)	Voltage (V)
Connector	Terminal		
M122 Is the inspection result norm	50	Ground	9 - 16 V H
YES >> GO TO 6. NO >> GO TO 2. 2. CHECK SELECTIVE UNI		JPPLY 2	I
1. Disconnect selective un	lock relay connector.		
2. Check voltage between	selective unlock relay and	l ground.	Ŭ
(+)		DLł
	unlock relay	()	Voltage (V)
Connector	Terminal 1		
M91	5	- Ground	9 - 16 V
Is the inspection result norm	al?		M
YES >> GO TO 4. NO >> GO TO 3.			141
3. DETECT MALFUNCTION	NING PART		Ν
Check the following.			N
10 A fuse (#6)Harness for open or short	between selective unlock	relay harness connector and	d battery terminal.
Is the inspection result norm	al?		0
YES >> GO TO 6. NO >> Repair or replac	e the malfunctioning parts		2
4.CHECK SELECTIVE UNI			Р
1. Disconnect BCM connect	ctor.		

2. Check continuity between selective unlock relay harness connector and BCM harness connector.

SELECT UNLOCK RELAY

< DTC/CIRCUIT DIAGNOSIS >

Selective unlock relay		BC	Continuity	
Connector	Terminal	Connector	Terminal	- Continuity
M91	2	M122	50	Existed
Check continuity be	etween BCM harness	connector and groun	d.	
	BCM			

	BC	JM		Continuity
-	Connector	Terminal	Ground	Continuity
-	M122	50		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK SELECTIVE UNLOCK RELAY

Check selective unlock relay.

Refer to DLK-258, "Component Inspection"

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace selective unlock relay.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident"

>> INSPECTION END

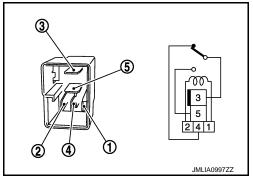
Component Inspection

1.CHECK SELECTIVE UNLOCK RELAY

1. Turn ignition switch OFF.

- 2. Remove selective unlock relay.
- 3. Check the continuity between selective unlock relay terminals under the following conditions.

Terminal		Condition	Continuity
		No current supply	Existed
4	3	12 V direct current supply between ter- minals 1 and 2.	Not existed
5	3	12 V direct current supply between ter- minals 1 and 2.	Existed
		No current supply	Not existed



Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace selective unlock relay.

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "UNLK SEN-DR" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

	Monitor item	Con	dition	Status	
	UNLK SEN -DR	Driver side door	Lock	OFF	D
			Unlock	ON	

Is the inspection result normal?

- YES >> Unlock sensor is OK.
- NO >> Refer to <u>DLK-259</u>, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK UNLOCK SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.

- 2. Disconnect front door lock assembly (driver side) connector.
- 3. Check signal between front door lock assembly (driver side) harness connector and ground with oscilloscope.

(+ Front door lock asse		(-)	Signal	_
Connector	Terminal		(Reference value)	I
D48	3	Ground	(V) 15 0 • 10ms •	J DLK

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK UNLOCK SENSOR CIRCUIT

1. Disconnect BCM connector.

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

BC	BCM		Front door lock assembly (driver side)		(
Connector	Terminal	Connector	Terminal	Continuity	
M121	31	D48	3	Existed	ſ

3. Check continuity between BCM harness connector and ground.

-	B	CM		Continuity	
_	Connector	Terminal	Ground	Continuity	
-	M121	31		Not existed	

Is the inspection result normal?

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INFOID:000000009649168

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3}$.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	Terminal	Ground	Continuity	
D48	4		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK UNLOCK SENSOR

Refer to DLK-260, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side).

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1.CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.

2. Disconnect front door lock assembly (driver side) connector.

3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock as	Front door lock assembly (driver side)		Condition		
Terr	minal			Continuity	
3	Λ	Driver side door	Unlock	Existed	
	4	Driver side door	Lock	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side).

< DTC/CIRCUIT DIAGNOSIS >

DOOR KEY CYLINDER SWITCH WITH AUTOMATIC SLIDING DOOR

WITH AUTOMATIC SLIDING DOOR : Component Function Check

INFOID:00000000964917

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1.CHECK FUNCTION

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

Monitor item	Co	ndition	Status	
		Lock	ON	_
KEY CYL LK-SW	Deiven side deser herrendinden	Neutral / Unlock	OFF	-
	 Driver side door key cylinder 	Unlock	ON	
KEY CYL UN-SW		Neutral / Lock	OFF	

YES >> Door key cylinder switch is OK.

NO >> Refer to <u>DLK-261. "WITH AUTOMATIC SLIDING DOOR : Diagnosis Procedure"</u>.

WITH AUTOMATIC SLIDING DOOR : Diagnosis Procedure

INFOID:000000009649172

1.CHECK DOOR KEY CYLINDER SWITCH INPUT 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.

	(+) Front door lock assembly (driver side)		Signal (Reference value)	J
Connector	Terminal	•		
	5			DLK
D48	6	Ground	(V) 15 0 5 0 ++ 10ms FKIB4960J 7.0 - 8.0 V	L

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SWITCH 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 wind	ow main switch	Front door lock as	sembly (driver side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D5	4	D48	6	- Existed
D5	6	- D40	5	EXISIEU

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

< DTC/CIRCUIT DIAGNOSIS >

Power windo	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D5	4	Ground	Not existed
5	6		NOT EXISTED

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-68. "Removal and Installation".

NO >> Repair or replace harness.

3. check door key cylinder switch ground circuit

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

Front door lock ass	sembly (driver side)		Continuity
Connector	Terminal	Ground	Continuity
D48	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-262, "WITH AUTOMATIC SLIDING DOOR : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side).

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

WITH AUTOMATIC SLIDING DOOR : Component Inspection

INFOID:000000009649173

1. CHECK DOOR KEY CYLINDER SWITCH

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

Front door lock ass	• • • •	Condit	ion	Continuity
			Unlock	Existed
5	5 		Neutral / Lock	Not existed
G		Driver side door key cylinder	Lock	Existed
0			Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side).

WITHOUT AUTOMATIC SLIDING DOOR

WITHOUT AUTOMATIC SLIDING DOOR : Component Function Check

INFOID:000000009649174

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.

DLK-262

< DTC/CIRCUIT DIAGNOSIS >

- 2. Select "KEY CYL LK-SW", "KEY CYL UN-SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

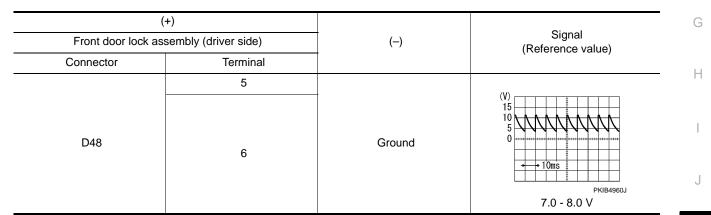
Monitor item	Сог	ndition	Status	
		Lock	ON	В
KEY CYL LK-SW	Driver eide deer key evlinder	Neutral / Unlock	OFF	-
KEY CYL UN-SW	 Driver side door key cylinder 	Unlock	ON	
KET OTE ON-SW		Neutral / Lock	OFF	C

Is the inspection result normal?

- YES >> Door key cylinder switch is OK.
- NO >> Refer to <u>DLK-263</u>, "WITHOUT AUTOMATIC SLIDING DOOR : Diagnosis Procedure".

WITHOUT AUTOMATIC SLIDING DOOR : Diagnosis Procedure

- 1. CHECK DOOR KEY CYLINDER SWITCH INPUT 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.



Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

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

E	BCM	Front door lock assembly (driver side)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	Ν
M121	8	D48	6	Existed	-
	7	D40	5	LAISIEU	

3. Check continuity between BCM harness connector and ground.

-	BC	CM		Continuity	_
-	Connector	Terminal	Ground	Continuity	Р
-	M121	8	Ground	Not existed	
	IVI I Z I	7		NUL EXISIEU	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98. "Removal and Installation".

NO >> Repair or replace harness.

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< DTC/CIRCUIT DIAGNOSIS >

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

Front door lock as	sembly (driver side)		Continuity
Connector	Connector Terminal		Continuity
D48	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-264, "WITHOUT AUTOMATIC SLIDING DOOR : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side).

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

WITHOUT AUTOMATIC SLIDING DOOR : Component Inspection

INFOID:000000009649176

1. CHECK DOOR KEY CYLINDER SWITCH

1. Turn ignition switch OFF.

2. Disconnect front door lock assembly (driver side) connector.

3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock ass	embly (driver side)	Condit	ion	Continuity
Term	inal	Condition		Continuity
5			Unlock	Existed
5	4	Duiven side de se beve adiadan	Neutral / Lock	Not existed
6		4 Driver side door key cylinder	Lock	Existed
0			Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side).

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Component Func	tion Check			INFOID:00000009649177
.CHECK FUNCTION				
 Select "INTELLIGE Select "RKE OPE Check that the fund 	COUN1" in "DATA		llowing conditions	
Monito	· item		Condition	
RKE OPE COUN1		Checks whether value chang	ges when operating In	elligent Key
the inspection result				
	yless entry receive <u>_K-265, "Diagnosis</u>			
Diagnosis Proced	ure			INFOID:000000009649178
CHECK REMOTE K	EYLESS ENTRY	RECEIVER POWER SU	PPLY	
. Turn ignition switch				
 Disconnect remote Check voltage bety 		eiver connector. ess entry receiver harnes	s connector and a	round
. Check vollage belv			s connector and g	iouria.
	(1)			
	(+)			
Remote ke	(+) yless entry receiver	(-)		Voltage
Remote ke Connector				Voltage
Connector R108	yless entry receiver Termina 1			Voltage 9 - 16 V
Connector R108 s the inspection result YES >> GO TO 3. NO >> GO TO 2.	yless entry receiver Termina 1 normal?	al		
Connector R108 s the inspection result YES >> GO TO 3. NO >> GO TO 2. DETECT MALFUNC Check the following.	yless entry receiver Termina 1 normal?	al		
Connector R108 s the inspection result YES >> GO TO 3. NO >> GO TO 2. DETECT MALFUNC Check the following. 10 A fuse (#10)	yless entry receiver Termina 1 normal?	al	ss connector and	9 - 16 V
Connector R108 s the inspection result YES >> GO TO 3. NO >> GO TO 2. DETECT MALFUNC Check the following. 10 A fuse (#10) Harness for open or s s the inspection result	yless entry receiver Termina 1 normal? CTIONING PART	al Ground	ss connector and	9 - 16 V
Connector R108 s the inspection result YES >> GO TO 3. NO >> GO TO 2. DETECT MALFUNC Check the following. 10 A fuse (#10) Harness for open or s s the inspection result YES >> GO TO 6.	yless entry receiver Termina 1 normal? CTIONING PART Short between sele normal?	al Ground	ss connector and	9 - 16 V
Connector R108 Sthe inspection result YES >> GO TO 3. NO >> GO TO 2. Check the following. 10 A fuse (#10) Harness for open or s Sthe inspection result YES >> GO TO 6. NO >> Repair or r	yless entry receiver Termina 1 normal? CTIONING PART short between sele normal? eplace the malfund	Ground Ground ective unlock relay harnes ctioning parts.		9 - 16 V
Connector R108 s the inspection result YES >> GO TO 3. NO >> GO TO 2. LDETECT MALFUNC Check the following. 10 A fuse (#10) Harness for open or s s the inspection result YES >> GO TO 6. NO >> Repair or r ACHECK REMOTE K	yless entry receiver Termina 1 normal? CTIONING PART short between sele normal? eplace the malfunction of the selection of the selectio	al Ground		9 - 16 V
Connector R108 s the inspection result YES >> GO TO 3. NO >> GO TO 2. DETECT MALFUNC Check the following. 10 A fuse (#10) Harness for open or s s the inspection result YES >> GO TO 6. NO >> Repair or r CHECK REMOTE K . Disconnect BCM c	vless entry receiver Termina 1 normal? CTIONING PART short between sele normal? eplace the malfunct EYLESS ENTRY onnector.	ective unlock relay harnes ctioning parts. RECEIVER GROUND C	IRCUIT 1	9 - 16 V
Connector R108 Sthe inspection result YES >> GO TO 3. NO >> GO TO 2. DETECT MALFUNC Check the following. 10 A fuse (#10) Harness for open or some sthe inspection result YES >> GO TO 6. NO >> Repair or r CHECK REMOTE K . Disconnect BCM c . Check continuity be	vless entry receiver Termina 1 normal? CTIONING PART short between sele normal? eplace the malfunct EYLESS ENTRY onnector.	ective unlock relay harnes ctioning parts. RECEIVER GROUND C	IRCUIT 1 te keyless entry re	9 - 16 V Dattery terminal.
Connector R108 s the inspection result YES >> GO TO 3. NO >> GO TO 2. 2.DETECT MALFUNC Check the following. 10 A fuse (#10) Harness for open or s s the inspection result YES >> GO TO 6. NO >> Repair or r 3.CHECK REMOTE K . Disconnect BCM c . Check continuity be	vless entry receiver Termina 1 normal? CTIONING PART Short between sele normal? eplace the malfunc EYLESS ENTRY onnector. etween BCM harn	ective unlock relay harnes ctioning parts. RECEIVER GROUND C ess connector and remot	IRCUIT 1 te keyless entry re	9 - 16 V

B	CM		Continuity	P
Connector Terminal		Ground	Continuity	
M121	18		Not existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

4.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

1. Connect remote keyless entry receiver connector and BCM connector.

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

(+) Remote keyless entry receiver		(–) Condition	Signal (Reference value)		
Connector	Terminal			(Reference value)	
			Waiting	(Approx.) 12 V	
R108	2	Ground	Press the Intelligent Key lock or unlock button	(V) 15 10 5 0 200 ms JMMIA0572GE	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace remote keyless entry receiver.

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

1. Disconnect BCM and remote keyless entry receiver connector.

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

B	BCM		Remote keyless entry receiver	
Connector	Terminal	Connector	Terminal	Continuity
M121	38	R108	2	Existed

3. Check continuity between BCM harness connector and ground.

ВС	CM		Continuity
Connector	Connector Terminal		Continuity
M121	38		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR REQUEST SWITCH

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "REQ SW-DR", "REQ SW-AS" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Condition		
REQ SW -DR	Driver eide deer request ewitch	Pressed	ON	D
REQ SW -DR	Driver side door request switch	Released	OFF	
REQ SW -AS		Pressed	ON	F
	Passenger side door request switch	Released	OFF	

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to <u>DLK-267, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

- 2. Disconnect malfunctioning front door outside assembly connector.
- 3. Check voltage between malfunctioning front door outside handle assembly harness connector and ground.

	(+)					
Front door outside handle assembly			()	Voltage		
	Connector		Terminal	-		J
LH		D32	2	Ground	9 - 16 V	
RH		D31	3	Giouria	9-10 V	DLK

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check door request switch circuit

1. Disconnect BCM connector.

 Check continuity between malfunctioning front door outside handle assembly harness connector and BCM harness connector.

N	Continuity	Front door outside handle assembly BCM		Front door outside handle assembly			
	Continuity	Terminal	Connector	Terminal	nector	Con	
-	Existed	75	M124	2	D32	LH	
0	Existed	100	101124	3	- 3	D31	RH

Check continuity between malfunctioning front door outside handle assembly harness connector and ground.

Fr	ont door outside handle as	sembly		Continuity
(Connector	Terminal	Ground	Continuity
LH	D32	2	Giouna	Not existed
RH	D31	3		

Is the inspection result normal?

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INFOID:000000009649179

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.
- NO >> Repair or replace harness.

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

Check continuity between malfunctioning front door outside handle assembly harness connector and ground.

Front door outside handle assembly				
Connector		Terminal	Cround	Continuity
LH	D32	Ground 4	Ground	Eviated
RH	D31			Existed

is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Refer to DLK-268, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front door outside handle assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.

2. Disconnect malfunctioning front door request switch connector.

3. Check continuity between malfunctioning front door request switch terminals.

Front door r	Front door request switch		Condition		
Terminal		Condition		Continuity	
3	3 4	Door request switch	Pressed	Existed	
			Released	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunctioning front door outside handle assembly.

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR REQUEST SWITCH

Component Function Check INFOID:000000009649182 **1**.CHECK FUNCTION 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT. Select "REQ SW-BD/TR" in "DATA MONITOR" mode. 2. 3. Check that the function operates normally according to the following conditions. Monitor item Condition Status On Pressed **REQ SW-BD/TR** Back door request switch Released Off Is the inspection result normal? YES >> Back door request switch is OK. >> Refer to DLK-269, "Diagnosis Procedure". NO Diagnosis Procedure INFOID:000000009649183 1. CHECK BACK DOOR REQUEST SWITCH INPUT SIGNAL 1. Turn ignition switch OFF. 2. Disconnect back door opener switch assembly connector. Check voltage between back door opener switch assembly harness connector and ground. 3. (+)Back door opener switch assembly (-) Voltage Connector Terminal D186 4 Ground 9 - 16 V Is the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. 2.CHECK BACK DOOR REQUEST SWITCH CIRCUIT Disconnect BCM connector. 1. 2. Check continuity between BCM harness connector and back door opener switch assembly harness connector. BCM Back door opener switch assembly Continuity Terminal Connector Terminal Connector M122 51 D186 4 Existed Check continuity between BCM harness connector and ground. BCM Continuity Connector Terminal Ground M122 51 Not existed Is the inspection result normal? YES >> Replace BCM. Refer to BCS-98, "Removal and Installation". NO >> Repair or replace harness. ${ m 3.}$ CHECK BACK DOOR REQUEST SWITCH GROUND CIRCUIT

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

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BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR REQUEST SWITCH

Refer to DLK-270, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK BACK DOOR REQUEST SWITCH

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

-	Back door opener switch assembly Terminal		Condition		Continuity
_					Continuity
_	2		Back door request switch	Pressed	Existed
	3	4	Back door request switch	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly.

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< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH

А **Component Function Check** INFOID:00000009649185 **1**.CHECK FUNCTION В 1. Select "TRUNK" of "BCM" using CONSULT. Select "TR/BD OPEN SW" in "DATA MONITOR" mode. 2. Check that the function operates normally according to the following conditions. 3. Monitor item Condition Status ON Pressed D TR/BD OPEN SW Back door opener switch OFF Released Is the inspection result normal? Е YES >> Back door opener switch is OK. >> Refer to DLK-271, "Diagnosis Procedure". NO Diagnosis Procedure INFOID:000000009649186 1. CHECK BACK DOOR OPEN INPUT SIGNAL 1. Turn ignition switch OFF. 2. Disconnect back door opener switch assembly connector. Check signal between back door opener switch assembly harness connector and ground. 3. Н (+)Signal Back door opener switch assembly (-) (Reference value) Connector Terminal D186 1 Ground DLK 10 ms JPMIA0012GB 1.0 - 1.5 V Is the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. Μ 2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M121	30	D186	1	Existed

3. Check continuity between BCM harness connector and ground.

В	BCM		Continuity	
Connector	Connector Terminal		Continuity	
M121	30		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

DLK-271

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BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

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-272, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

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.

Back door opene	Back door opener switch assembly		Condition	
Tern	Terminal			
1	1 2	Back door opener switch	Pressed	Existed
1			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly.

< DTC/CIRCUIT DIAGNO				
INTELLIGENT KEY	WARNING	BUZZER		
Component Function	Check			INFOID:000000009649188
1. CHECK FUNCTION				
 Select "INTELLIGENT Select "OUTSIDE BUZ Touch "On" or "Off" to a ls the inspection result norr YES >> Intelligent Key NO >> Refer to DLK-2 	ZER" in "ACTIVE check that it works nal? warning buzzer is	ETEST" mode. s normally. s OK.		
Diagnosis Procedure				INFOID:000000009649189
1.CHECK FUSE				
 Turn ignition switch OF Check 15 A fuse, [No.] Is the inspection result norr YES >> GO TO 2. NO >> Replace the block CHECK INTELLIGENT 	6, located in fuse <u>nal?</u> own fuse after rep	pairing the affected	circuit if a fuse is blo	wn.
 Disconnect Intelligent k 				
2. Check voltage betweer			ness connector and g	round.
	(+)			
	y warning buzzer	-1	()	Voltage
Connector E26	Termina 1		Ground	9 - 16 V
Is the inspection result norr YES >> GO TO 3. NO >> Repair or repla 3. CHECK INTELLIGENT 1. Disconnect BCM conne 2. Check continuity between	ce harness. KEY WARNING E ector.		lligent Key warning b	ouzzer harness connector.
BCM		Intelligent Ke	ey warning buzzer	Continuity
Connector	Terminal	Connector	Terminal	
3. Check continuity betwe	93 en BCM harness	E26 connector and gro	3 und.	Existed
			1	
Connector	BCM Termin	al	Ground	Continuity
M124	93			Not existed
<u>Is the inspection result norr</u> YES >> GO TO 4.	nal?			

Is the inspection result normal?

>> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.
> Replace Intelligent Key warning buzzer. YES

NO

DLK-273

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

Component Inspection

INFOID:000000009649190

1.CHECK INTELLIGENT KEY WARNING BUZZER

- Turn ignition switch OFF. 1.
- Disconnect Intelligent Key warning buzzer connector.
 Connect battery power supply directly to Intelligent Key warning buzzer terminals and check the operation.

Intelligent Key		
Terr	Operation	
(+)	(-)	*
1	3	Buzzer sounds

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace Intelligent Key warning buzzer.

INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY

Component Function Check

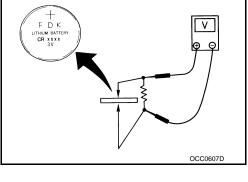
1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "RKE OPE COUN1" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Monitor item Condition			
RKE OPE COUN1	Check that the numerical value is changing while operating on the Intelligent Key.			
Is the inspection result normal? YES >> Intelligent Key is OK. NO >> Refer to DLK-275. "Comp	onent Inspection".			
Component Inspection		INFOID:00000009649192		
1.CHECK INTELLIGENT KEY BATTE	ERY			
Check by connecting a resistance (ap current value becomes about 10 mA. and Installation".				
Standard : Approx. 2.5 -	3.0V			

Is the measurement value within the specification?

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



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< DTC/CIRCUIT DIAGNOSIS >

COMBINATION METER BUZZER

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INSIDE BUZZER" in "ACTIVE TEST" mode.
- 3. Touch "Key", "Knob" or "Take Out" to check that it works normally.

Is the inspection result normal?

- Yes >> Combination meter buzzer is OK.
- No >> Refer to <u>DLK-276, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK COMBINATION METER BUZZER CIRCUIT

Refer to WCS-40, "Component Function Check".

Is the inspection result normal?

Yes >> GO TO 2.

No >> Repair or replace the malfunctioning parts.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

INFOID:000000009649193

< DTC/CIRCUIT DIAGNOSIS >	
INFORMATION DISPLAY	A
Component Function Check	INFOID:000000009649195
1.CHECK FUNCTION	В
 Select "INTELLIGENT KEY" of "BCM" using CONSULT. Select "LCD" in "ACTIVE TEST" mode. Check each warning display on meter display. Is the inspection result normal? 	C
YES >> Information display is OK. NO >> Refer to <u>DLK-277, "Diagnosis Procedure"</u> .	D
Diagnosis Procedure	INFOID:000000009649196
1.CHECK COMBINATION METER	E
Refer to MWI-34, "On Board Diagnosis Function". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	F
2.CHECK INTERMITTENT INCIDENT	G
Refer to <u>GI-42, "Intermittent Incident"</u> .	Н

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< DTC/CIRCUIT DIAGNOSIS >

KEY WARNING LAMP

Component Function Check

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INDICATOR" in "ACTIVE TEST" mode.
- 3. Touch "KEY IND" or "KEY ON" to check that it works normally.

Is the inspection result normal?

- YES >> Key warning lamp is OK.
- NO >> Refer to <u>DLK-278</u>, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK KEY WARNING LAMP

Refer to MWI-34, "On Board Diagnosis Function".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

INFOID:000000009649197

< DTC/CIRCUIT DIAGNOSIS >	
HAZARD FUNCTION	
Component Function Check	ŀ
1.CHECK FUNCTION	E
 Select "INTELLIGENT KEY" of "BCM" using CONSULT. Select "FLASHER" in "ACTIVE TEST" mode. Touch "LH" or "RH" to check that it works normally. 	(
<u>Is the inspection result normal?</u> YES >> Hazard warning lamp circuit is OK. NO >> Refer to <u>DLK-279. "Diagnosis Procedure"</u> .	[
Diagnosis Procedure	
1.CHECK HAZARD SWITCH CIRCUIT	E
Refer to EXL-86, "Component Function Check" (xenon type), EXL-196, "Component Function Check" (halo- gen type). Is the inspection result normal?	F
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CHECK INTERMITTENT INCIDENT	(
Refer to GI-42, "Intermittent Incident".	ŀ
>> INSPECTION END	

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BACK DOOR OPEN REQUEST SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPEN REQUEST SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:000000009649201

1. CHECK BACK DOOR CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect back door control unit connector.

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

(+) Back door control unit		()	Condition		Voltage
Connector	Terminal	•			
D181	6	Cround	Back door opener	Pressed	0 - 1.5 V
DIOI	0	Ground		Released	8 - 16 V

Is the inspection result normal?

YES >> Replace back door control unit. Refer to <u>DLK-494, "Removal and Installation"</u>.

NO >> GO TO 2.

2.CHECK BACK DOOR CONTROL UNIT CIRCUIT

1. Disconnect BCM connector.

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

Back door	control unit	B	СМ	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
D181	6	M122	53	Existed	

3. Check continuity between BCM harness connector and ground.

Back door control unit			Continuity	
Connector	Terminal	Ground	Continuity	
D181	6		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 ${f 3.}$ CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

(+)				
BCM		(-)	Condition		Voltage
Connector	Terminal				
M122	53	Ground	Back door opener	Pressed	0 V
IVI 122	55	Ground	switch	Released	9 - 16 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

AUTOMATIC BACK DOOR CLOSE SWITCH

AUTOMATIC BACK DOOR CLOSE SWITCH **Component Function Check** INFOID:000000009649202 **1**.CHECK FUNCTION 1. Select "AUTO BACK DOOR" using CONSULT. Select "BK DOOR CL SW" in "DATA MONITOR" mode. 2. Check that the function operates normally according to the following conditions. 3. Monitor item Condition Status ON Pressed **BK DOOR CL SW** Automatic back door close switch OFF Released Is the inspection result normal? YES >> Automatic back door close switch is OK. NO >> Refer to DLK-281, "Diagnosis Procedure". Diagnosis Procedure INFOID:000000009649203 1. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH INPUT SIGNAL 1. Turn ignition switch OFF. 2. Disconnect automatic back door close switch connector. Check voltage between automatic back door close switch harness connector and ground. 3. (+)Automatic back door close switch (-) Voltage Connector Terminal D169 1 Ground 9 - 16 V Is the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. 2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH CIRCUIT Disconnect automatic back door control module connector. 1. 2. Check continuity between automatic back door control module harness connector and automatic back door close switch harness connector. Automatic back door control module Automatic back door close switch Continuity Connector Terminal Connector Terminal B8 4 D169 1 Existed Check continuity between automatic back door control module harness connector and ground. 3.

	Automatic back de	por control module		Continuity	
	Connector	Terminal	Ground	Continuity	
	B8	4		Not existed	0
1 - 11-	- the second second second second	- 10			-

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.

NO >> Repair or replace harness.

 $\mathbf{3.}$ 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
D169	2	-	Existed
the increation result normal	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to DLK-282, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door close switch.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

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

Automatic back	Automatic back door close switch Terminal		Condition	
Terr				
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.

Revision: 2014 May

	AUTOMATI	C DOOR MAI		Н	
< DTC/CIRCUIT DIAGNOS	SIS >				
AUTOMATIC DOOI	R MAIN SWIT	СН			
AUTOMATIC BACK	DOOR CONT	ROL MODUL	E		
AUTOMATIC BACK E		OL MODULE	: Compoi	nent Fun	
1.CHECK FUNCTION					
1. Select "AUTO BACK D	OR" using CONS				
 Select "MAIN SW" in "E Check that the function 	ATA MONITOR" m	ode.	ollowing co	nditions.	
Monitor item		Condition			Status
	A	10	١		ON
MAIN SW	Automatic door main	Switch	F		OFF
s the inspection result norn YES >> Automatic door NO >> Refer to DLK-2 AUTOMATIC BACK D	main switch is OK. 33, "AUTOMATIC E				
1.check automatic do			C		UUIE INFOID:000000009649206
 Turn ignition switch OF Disconnect automatic d Check voltage between 	oor main switch co automatic door ma		s connector	and ground	
	(+) Automatic door main switch (-) Voltage				
Connector	Terminal				Voltage
M29	1	Gr	ound		9 - 16 V
s the inspection result norm YES >> GO TO 3. NO >> GO TO 2. 2.CHECK AUTOMATIC DO 1. Disconnect automatic b 2. Check continuity betwee main switch harness co	DOR MAIN SWITC	odule connector.	odule harne	ss connecto	or and automatic door
Automatic back door	control module	Automat	ic door main sv	witch	
Connector	Terminal	Connector		Terminal	
B8	17	M29			Existed
3. Check continuity betwe	en automatic back	door control mod	ule connecto	or and grou	nd.
Automatic	back door control modu	lle			Continuity
Connector B8	T	ērminal 17	Ground		Not existed
Is the inspection result norn	nal?				
YES >> Replace autom NO >> Repair or replace	atic back door cont			i, "Removal	and Installation".

3. CHECK automatic door main switch ground circuit

Check continuity between automatic door main switch connector and ground.

DLK-283

AUTOMATIC DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic door main switch			Continuity
Connector	Terminal	Ground	Continuity
M29	3		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC DOOR MAIN SWITCH

Refer to DLK-284, "AUTOMATIC BACK DOOR CONTROL MODULE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic door main switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

1. CHECK AUTOMATIC DOOR MAIN SWITCH

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

Automatic do	Automatic door main switch		Condition	
Terminal		Condition		Continuity
1	2	Automatic door main	ON	Existed
I	3	switch	OFF	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic door main switch.

SLIDING DOOR CONTROL UNIT

SLIDING DOOR CONTROL UNIT : Component Function Check

INFOID:000000009649208

1.CHECK FUNCTION

1. Select "AUTO SLDE DOOR" (LH) or "AUTO SLDE DOOR RIGHT" (RH) using CONSULT.

2. Select "MAIN SW" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

YES >> Automatic door main switch is OK.

NO >> Refer to <u>DLK-284, "SLIDING DOOR CONTROL UNIT : Diagnosis Procedure"</u>.

SLIDING DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000009649209

1. CHECK AUTOMATIC DOOR MAIN SWITCH POWER SUPPLY

1. Turn ignition switch OFF.

2. Disconnect automatic door main switch connector.

AUTOMATIC DOOR MAIN SWITCH

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3.	Check voltage between	automatic door main s	witch harness con	nector and grour	nd.
	(+)			
	Automatic door main switch		()		Voltage (Approx.)
	Connector	Terminal			()
	M29 1		Grou	nd	8 – 16 V
ls th	e inspection result norm	<u>al?</u>			
YE					
NC 2					
	CHECK AUTOMATIC DC				
	Disconnect sliding door Check continuity betwee ness connector.			ctor and automat	tic door main switch ha
_	Sliding door LH				
	Sliding door contro	ol unit LH	Automatic door	main switch	Continuity
	Connector	Terminal	Connector	Terminal	Continuity
	B45	1	M29	1	Existed
_	Sliding door RH				
	Sliding door contro	ol unit LH	Automatic door	main switch	Continuity
	Connector	Terminal	Connector	Terminal	
_	B247	1	M29	1	Existed
3.	Check continuity betwee	en sliding door control	unit connector and	ground.	
	Sliding door LH				
		control unit LH			Continuity
	Connector	Terminal Ground		nd	N (1 1 1
	B45	1			Not existed
	Sliding door RH	control unit LH			
	Connector	Terminal	Grou	nd	Continuity
	B247	1			Not existed
le th	ie inspection result norm				Not existed
YE	•				
NC					
3.0	CHECK AUTOMATIC DC	OR MAIN SWITCH G	ROUND CIRCUIT		
Che	ck continuity between au	Itomatic door main sw	itch connector and	ground.	
_	-		1	-	
	Automatic door				Continuity
	Connector	Terminal	Ground		
	M29	3			Existed
	e inspection result norm	al?			
YE		e harness			
	CHECK AUTOMATIC DC				
				op options "	
	er to <u>DLK-286, "SLIDING</u>		VII: Component Ir	<u>ispection"</u> .	
<u>is tr</u> YE	e inspection result norm S >> GO TO 5.	<u>ai :</u>			
NC		tic door main switch.			

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AUTOMATIC DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR CONTROL UNIT : Component Inspection

INFOID:000000009649210

1. CHECK AUTOMATIC DOOR MAIN SWITCH

1. Turn ignition switch OFF.

2. Disconnect automatic door main switch connector.

3. Check continuity between automatic door main switch terminals.

Automatic door main switch		Condition		Continuity
Ter	Terminal		Condition	
1	2	Automatic door main	ON	Existed
I	5	switch	OFF	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic door main switch.

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS > AUTOMATIC BACK DOOR SWITCH А **Component Function Check** INFOID:000000009649211 **1**.CHECK FUNCTION В 1. Select "AUTO BACK DOOR" using CONSULT. Select "AUTO BD SW" in "DATA MONITOR" mode. 2. 3. Check that the function operates normally according to the following conditions. Monitor item Condition Status ON Pressed D Automatic back door switch AUTO BD SW OFF Released Is the inspection result normal? YES >> Automatic back door switch is OK. NO >> Refer to DLK-287, "Diagnosis Procedure". Diagnosis Procedure INFOID:000000009649212 1.CHECK AUTOMATIC BACK DOOR SWITCH INPUT SIGNAL 1. Turn ignition switch OFF. 2. Disconnect automatic back door switch connector. Check voltage between automatic back door switch harness connector and ground. 3. Н (+) Automatic back door switch (-) Voltage Connector Terminal M83 1 Ground 9 - 16 V Is the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. 2.CHECK AUTOMATIC BACK DOOR SWITCH CIRCUIT DLK Disconnect automatic back door control module connector. 1. 2. Check continuity between automatic back door control module harness connector and automatic back door switch harness connector. L Automatic back door control module Automatic back door switch Continuity Terminal Connector Connector Terminal M B8 16 M83 1 Existed Check continuity between automatic back door control module harness connector and ground. 3 Ν Automatic back door control module Continuity Connector Terminal Ground B8 16 Not existed Is the inspection result normal? YES >> Replace automatic back door control module. Refer to DLK-495, "Removal and Installation". P NO >> Repair or replace harness. ${f 3}.$ CHECK AUTOMATIC BACK DOOR SWITCH GROUND CIRCUIT Check continuity between automatic back door switch harness connector and ground.

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Automatic back door switch			Continuity
Connector	Terminal	Ground	Continuity
M83	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-288, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK AUTOMATIC BACK DOOR SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

Revision: 2014 May

NO >> Replace automatic back door switch.

OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS > OPEN SWITCH

OPEN SWITCH					
Diagnosis Procedur	.e				INFOID:000000009649214
1.CHECK OPEN SWITC	CH INPUT SIGNAL				
	DFF. or lock assembly conr een back door lock as		ess connec	tor and ground.	
	(+)				
Back do	oor lock assembly		()		Voltage
Connector	Termina	al			
D190	4		Ground		8 - 16 V
	or control unit connec		ss connecto	or and back doc	or lock assembly harness
Back door	control unit		Back door loc	k assembly	0 // //
Connector	Terminal	Conn	ector	Terminal	Continuity
D181	5	D1	90	4	Existed
Connector D181	door control unit Termina 5	1	Gro	und	Continuity Not existed
s the inspection result new YES >> Replace bac NO >> Repair or rep 3.CHECK OPEN SWITC Check continuity between	k door control unit. R blace harness. CH GROUND CIRCU	ШТ			<u>tion"</u> .
Back	door lock assembly				Continuity
Connector	Те	rminal	Gr	ound	·
D190		8			Existed
Is the inspection result no YES >> GO TO 4. NO >> Repair or rep 4.CHECK OPEN SWITC Refer to <u>DLK-290, "Comp</u> Is the inspection result no YES >> GO TO 5. NO >> Replace bac	blace harness. CH <u>ponent Inspection"</u> .	<u>.</u>			
5. CHECK INTERMITTE	NT INCIDENT				

Refer to GI-42, "Intermittent Incident".

OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

Component Inspection

INFOID:000000009649215

1. CHECK OPEN SWITCH

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

Back door loo	Back door lock assembly		Condition	Continuity	
Term	inal		Sonation	Continuity	
4	0	Back door	Open	Existed	
4	0	Back 0001	Fully closed/Half latch	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

CLOSE SWITCH

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CLOSE SWITCH

Diagnosis Procedur	re				INFOID:000000009649216
1.CHECK CLOSE SWIT	TCH INPUT SIGNA	AL.			
 Turn ignition switch (Disconnect back doc Check voltage between 	or lock assembly co		arness connector a	nd ground.	
	(+)				
Back do	or lock assembly		(—)		Voltage
Connector	Term	inal			
D190	5		Ground		8 - 16
Is the inspection result no YES >> GO TO 3. NO >> GO TO 2. 2.CHECK CLOSE SWIT 1. Disconnect back doo	TCH CIRCUIT	ector.			
			rness connector and	d back door le	ock assembly harness
Back door co			Back door lock assemb		Continuity
Connector	Terminal			Terminal	
D181	1		190	5	Existed
Check continuity bet	ween back door co	ontroi unit na	arness connector an	a grouna.	
Back	door control unit				
Back					Continuity
Connector	Term	inal	Ground		Continuity
Connector D181	1		Ground		Continuity Not existed
Connector D181 Is the inspection result no	ormal? ck door control unit. place harness. TCH GROUND CIF	. Refer to <u>DI</u> RCUIT	_K-494, "Removal a		Not existed
Connector D181 Is the inspection result new YES >> Replace bac NO >> Repair or rep 3. CHECK CLOSE SWIT Check continuity between	ormal? ck door control unit. place harness. TCH GROUND CIF	. Refer to <u>DI</u> RCUIT	_K-494, "Removal a		Not existed
Connector D181 Is the inspection result new YES >> Replace bac NO >> Repair or rep 3. CHECK CLOSE SWIT Check continuity between	ormal? ck door control unit. place harness. TCH GROUND CIF n back door lock as	. Refer to <u>DI</u> RCUIT	_K-494, "Removal a		Not existed
Connector D181 Is the inspection result new YES >> Replace bac NO >> Repair or rep 3. CHECK CLOSE SWIT Check continuity between Back do Connector D190	ormal? ck door control unit. place harness. TCH GROUND CIF n back door lock as por lock assembly Term	. Refer to <u>D</u> RCUIT ssembly har	<u>K-494, "Removal a</u>		Not existed
Connector D181 Is the inspection result ne YES >> Replace bac NO >> Repair or rep 3. CHECK CLOSE SWIT Check continuity between Back do Connector D190 Is the inspection result ne YES >> GO TO 4. NO >> Repair or rep 4. CHECK CLOSE SWIT Refer to DLK-292, "Complete the inspection result ne Is the inspection result ne	ormal? ck door control unit. place harness. TCH GROUND CIF n back door lock as por lock assembly Term cormal? place harness. TCH ponent Inspection".	Refer to DI RCUIT ssembly har	<u>K-494, "Removal a</u>		Not existed
Connector D181 Is the inspection result ne YES >> Replace bac NO >> Repair or rep 3. CHECK CLOSE SWIT Check continuity between Back do Connector D190 Is the inspection result ne YES >> GO TO 4. NO >> Repair or rep 4. CHECK CLOSE SWIT Refer to DLK-292, "Comp Is the inspection result ne YES >> GO TO 5.	ormal? ck door control unit. place harness. TCH GROUND CIF n back door lock as por lock assembly Term cormal? place harness. TCH ponent Inspection" ormal? ck door lock assemble	Refer to DI RCUIT ssembly har	<u>K-494, "Removal a</u>		Not existed

Refer to GI-42, "Intermittent Incident".

< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

Component Inspection

INFOID:000000009649217

1. CHECK CLOSE SWITCH

1. Turn ignition switch OFF.

2. Disconnect back door lock assembly connector.

3. Check continuity between back door lock assembly terminals.

Back door lo	Back door lock assembly		Condition	
Ten	minal	Con		Continuity
5	0	Back door	Fully closed	Existed
5	0	Dack 0001	Open/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

		an an ant Function (Nh a al (
VITH AUTOMATIC B	ACK DOOR : Com	ponent Function C	леск	INFOID:000000009649218
CHECK FUNCTION				
2. Select "HALF LATCH S	OOR" using CONSULT. SW" in "DATA MONITOR operates normally acco		onditions.	
Monitor item		Condition		Status
HALF LATCH SW	Back door	Fully closed/Half la	atch	OFF
	Back 0001	Open		ON
YES >> Half latch switc NO >> Refer to <u>DLK-2</u> WITH AUTOMATIC B	<u>93, "WITH AUTOMATIC</u>		<u>sis Procedure"</u>	INFOID:000000009649219
1. CHECK HALF LATCH IN	VPUT SIGNAL			
	ock assembly connector n back door lock assemb		nd ground.	
Back door loo		()		Voltage
Connector	Terminal	(-)		voltage
D190	6	Ground		9 - 16 V
s the inspection result norn				
I. Disconnect automatic b	back door control module een automatic back doo		ess connector	and back door lock
NO >> GO TO 2. 2.CHECK HALF LATCH S 1. Disconnect automatic b 2. Check continuity betwee	back door control module een automatic back doo nector.	or control module harne		
 NO >> GO TO 2. CHECK HALF LATCH S Disconnect automatic b Check continuity betwee assembly harness conrelations 	back door control module een automatic back doo nector.			and back door lock
NO >> GO TO 2. 2.CHECK HALF LATCH S . Disconnect automatic b 2. Check continuity between assembly harness conress conress and the second s	control module	or control module harne Back door lock ass	embly	
NO >> GO TO 2. 2.CHECK HALF LATCH S 1. Disconnect automatic b 2. Check continuity between assembly harness conress conress Automatic back door Connector B8	control module	Back door lock ass Connector D190	embly Terminal 6	Continuity Existed
NO >> GO TO 2. 2.CHECK HALF LATCH S . Disconnect automatic b 2. Check continuity between assembly harness conress Automatic back door Connector B8	control module Contro	Back door lock ass Connector D190	embly Terminal 6 S connector and	Continuity Existed ground.
NO >> GO TO 2. 2.CHECK HALF LATCH S . Disconnect automatic b 2. Check continuity between assembly harness conrector Automatic back door Connector B8 3. Check continuity between B8	control module Contro	Back door lock ass Connector D190	embly Terminal 6 S connector and	Continuity Existed
NO >> GO TO 2. 2.CHECK HALF LATCH S . Disconnect automatic b 2. Check continuity between assembly harness conrector Automatic back door B8 3. Check continuity between Automatic back door	control module	Back door lock ass Connector D190 control module harness	embly Terminal 6 s connector and	Continuity Existed ground.
NO >> GO TO 2. 2.CHECK HALF LATCH S 1. Disconnect automatic b 2. Check continuity between assembly harness conrector Automatic back door B8 3. Check continuity between Automatic back door Connector	control module control module Terminal 22 control module Calledon Control module Calledon	Back door lock ass Connector D190 control module harness	embly Terminal 6 s connector and	Continuity Existed d ground.

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Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D190	8	-	Existed
the increation recult norma	10		

Is the inspection result normal?

YES >> GO TO 4.

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

4.CHECK HALF LATCH SWITCH

Refer to DLK-294, "WITH AUTOMATIC BACK DOOR : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

WITH AUTOMATIC BACK DOOR : Component Inspection

INFOID:000000009649220

1.CHECK HALF LATCH SWITCH

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

-	Back door lock assembly		Condition		Continuity	
_	Termir	nal		Condition	Continuity	
-	6	0	Back door lock	Open	Existed	
	U	0	DACK UUUI IUCK	Fully closed/Half latch	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

WITHOUT AUTOMATIC BACK DOOR

WITHOUT AUTOMATIC BACK DOOR : Diagnosis Procedure

INFOID:000000009649221

1. CHECK HALF LATCH SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect back door lock assembly connector.

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

(-)	()		
Back door loc	k assembly	(-)	Voltage
Connector	Terminal		
D190	6	Ground	3.5 -5.5 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect back door control unit connector.

2. Check continuity between back door control unit harness connector.

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			or lock assembly	Continuity
Connector	Terminal	Connector	Term	nal
D181	2	D190	6	Existed
Check continuity betw	veen back door control	unit harness conr	nector and groun	d.
Back	door control unit			Quantinusitus
Connector	Terminal		Ground	Continuity
D181	2			Not existed
the inspection result no	ormal?			-
	door control unit. Refe	er to <u>DLK-494, "Re</u>	emoval and Insta	llation".
NO >> Repair or repl				
.CHECK HALF LATCH	SWITCH GROUND CI	RCUIT		
heck continuity between	back door lock assem	bly harness conne	ector and ground	
Back door	r lock assembly			
Connector	Terminal	Gro	und	Continuity
D190	8			Existed
the inspection result no	_			Existed
(ES >> GO TO 4.				
NO >> Repair or repl	laca harnoss			
.CHECK HALF LATCH	SWITCH			
efer to DLK-295, "WITH	OUT AUTOMATIC BAC	CK DOOR : Comp	onent Inspection	
				-
the increation recult ne				
the inspection result no				
/ES >> GO TO 5.				
YES >> GO TO 5. NO >> Replace back	door lock assembly.			
/ES >> GO TO 5.	door lock assembly.			
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTE	door lock assembly.			
YES >> GO TO 5. NO >> Replace back	door lock assembly.			
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTEN efer to <u>GI-42, "Intermitte</u>	k door lock assembly. NT INCIDENT ent Incident".			
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTEN efer to <u>GI-42, "Intermittenter services</u> >> INSPECTION	k door lock assembly. NT INCIDENT ent Incident".			
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTEN efer to <u>GI-42, "Intermitte</u>	k door lock assembly. NT INCIDENT ent Incident".	R : Componen	t Inspection	INF0ID:000000000
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTER efer to GI-42, "Intermitte >> INSPECTION	a door lock assembly. NT INCIDENT <u>ent Incident"</u> . I END ATIC BACK DOOF	R : Componen	t Inspection	INFOID:000000009
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTEN efer to <u>GI-42, "Intermittenter services</u> >> INSPECTION	a door lock assembly. NT INCIDENT <u>ent Incident"</u> . I END ATIC BACK DOOF	R : Componen	t Inspection	INFOID:00000009
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTER efer to GI-42, "Intermitte >> INSPECTION	A door lock assembly. NT INCIDENT Ent Incident". N END ATIC BACK DOOF SWITCH	२ : Componen	t Inspection	INFOID:000000009
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTER efer to GI-42, "Intermitte >> INSPECTION /ITHOUT AUTOMA .CHECK HALF LATCH Turn ignition switch O Disconnect back door	A door lock assembly. NT INCIDENT <u>ent Incident"</u> . N END ATIC BACK DOOF SWITCH DFF. r lock assembly connect	ctor.		INFOID:000000005
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTER efer to GI-42, "Intermitte >> INSPECTION /ITHOUT AUTOMA .CHECK HALF LATCH Turn ignition switch O Disconnect back door	A door lock assembly. NT INCIDENT Ant Incident". N END ATIC BACK DOOF SWITCH DFF.	ctor.		INF0ID:000000009
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTER efer to GI-42, "Intermitte >> INSPECTION /ITHOUT AUTOMA .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw	A door lock assembly. NT INCIDENT ent Incident". N END ATIC BACK DOOF SWITCH OFF. r lock assembly connect veen back door lock as	ctor.		INFOID:00000000
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTER efer to GI-42, "Intermitte >> INSPECTION /ITHOUT AUTOMA .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw	A door lock assembly. NT INCIDENT <u>ent Incident"</u> . N END ATIC BACK DOOF SWITCH DFF. r lock assembly connect	ctor. sembly terminals.		
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTER efer to GI-42, "Intermitte >> INSPECTION /ITHOUT AUTOMA .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw Back door	A door lock assembly. NT INCIDENT ent Incident". N END ATIC BACK DOOF SWITCH OFF. r lock assembly connect veen back door lock as	ctor. sembly terminals.		INFOID:00000000
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTEN efer to GI-42, "Intermitte >> INSPECTION /ITHOUT AUTOMA .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw Back door Te	A door lock assembly. NT INCIDENT ent Incident". N END ATIC BACK DOOF SWITCH DFF. r lock assembly connect veen back door lock as lock assembly	ctor. sembly terminals.		
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTER efer to GI-42, "Intermitte >> INSPECTION /ITHOUT AUTOMA .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw Back door	A door lock assembly. NT INCIDENT Ent Incident". N END ATIC BACK DOOF SWITCH DFF. r lock assembly connect veen back door lock as	ctor. sembly terminals.	ondition	Continuity Existed
YES >> GO TO 5. NO >> Replace back CHECK INTERMITTER efer to GI-42, "Intermitte >> INSPECTION /ITHOUT AUTOMA .CHECK HALF LATCH Turn ignition switch O Disconnect back door Check continuity betw Back door Te	A door lock assembly. NT INCIDENT ent Incident". A END ATIC BACK DOOF SWITCH OFF. r lock assembly connect veen back door lock as lock assembly rminal 8	ctor. sembly terminals.	ondition Open Fully closed/Halt	Continuity Existed

SLIDING DOOR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR CONTROL UNIT : Component Function Check

INFOID:000000009649223

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" (LH) or "AUTO SLDE DOOR RIGHT" (RH) using CONSULT.
- 2. Select "HAF LATC SW L" (LH) or "HAF LATC SW R" (RH) in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item		Condition	
	Sliding door LH	Open	ON
HAF LATC SW L		Half latch/fully closed	OFF
HAF LATC SW R		Open	ON
HAF LATE SW K	Sliding door RH	Half latch/fully closed	OFF

Is the inspection result normal?

YES >> Half latch switch is OK.

NO >> Refer to <u>DLK-298</u>, "SLIDING DOOR CONTROL UNIT : Component Inspection".

SLIDING DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000009649224

1.CHECK HALF LATCH SWITCH INPUT SIGNAL

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

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

(+)		
Sliding door lock assembly LH		(-)	Voltage
Connector	Terminal		
D123	3	Ground	8 – 16 V
Sliding door RH			
(+)		
Sliding door lock	assembly RH	(-)	Voltage
Connector	Terminal		
D124	3	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect sliding door control unit connector.

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

Sliding door LH Sliding door control unit LH Sliding door lock assembly LH Continuity Connector Terminal Connector Terminal B45 5 D123 3 Existed Sliding door RH Sliding door control unit RH Sliding door lock assembly RH Continuity Connector Terminal Connector Terminal B247 D124 5 3 Existed

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

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	Sliding door LH Sliding door con	trol unit LH				
	Connector	Terminal		Gro	ound	Continuity
_	B45	5				Not existed
	Sliding door RH		÷			
_	Sliding door cont	rol unit RH				Continuity
	Connector	Terminal		Gro	und	Continuity
_	B247	5				Not existed
t	he inspection result normal	<u>?</u>	·			
1	ES >> Replace sliding do >> Repair or replace	harness.				
5.	CHECK HALF LATCH SWI	TCH GROUND CII	RCUIT			
	Disconnect sliding door co Check continuity between ness connector.			mess con	nector and sli	ding door lock assembly h
_	Sliding door LH					
_	Sliding door control			-	assembly LH	
_	Connector	Terminal	Conne		Terminal	
-	B45	23	D12	23	2	Existed
-	Sliding door RH		011 11	<u> </u>		
_	Sliding door control			-	assembly RH	Continuity
	Connector	Terminal	Conne		Terminal	-
_	B247	23	D12		2	Existed
	Check continuity between	sliding door contro	ol unit har	ness con	nector and gr	ound.
_	Sliding door LH					
_	Sliding door c	ontrol unit LH				Continuity
_	Connector	Terminal		Gr	ound	-
_	B45	23				Not existed
-	Sliding door RH				1	
_	Sliding door c	ontrol unit RH				Continuity
_	Connector	Terminal		Gr	ound	
_	B247	23				Not existed
YE	he inspection result normal ES >> GO TO 4. O >> Repair or replace	harness.				
	CHECK HALF LATCH SWI	TCH CIRCUIT 2				
	Connect sliding door conti	ol unit connector a				
• . (Connect sliding door contr Check voltage between sl	ol unit connector a				
	Connect sliding door cont Check voltage between sl Sliding door LH	ol unit connector a				
• . (Connect sliding door contr Check voltage between sl Sliding door LH (+)	rol unit connector a iding door control u		ess conne	ector and grou	nd.
	Connect sliding door cont Check voltage between sl Sliding door LH	rol unit connector a iding door control u		ess conne		

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Sliding door RH

(+)		
Sliding door co	ontrol unit RH	(-)	Voltage
Connector Terminal			
B247	23	Ground	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit.

5. CHECK HALF LATCH SWITCH

Refer to DLK-298, "SLIDING DOOR CONTROL UNIT : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR CONTROL UNIT : Component Inspection

1.CHECK HALF LATCH SWITCH

1. Turn ignition switch OFF.

2. Disconnect sliding door lock assembly connector.

3. Check continuity between sliding door lock assembly terminals.

Sliding	Sliding door lock assembly Terminal		Condition			Continuity	
			Condition				
2		2	Sliding door		Open	Existed	
			Sliding door		Half latch/fully closed	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door lock assembly.

INFOID:000000009649225

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR TOUCH SENSOR

LH

LH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO BACK DOOR" using CONSULT.
- 2. Select "TOUCH SEN LH" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Condition		Status	D
TOUCH SEN LH	Back door touch sensor LH	Other than below	OFF			
	Back door touch sensor LH	Detect obstruction	ON	F		

Is the inspection result normal?

YES >> Back door touch sensor LH is OK.

NO >> Refer to <u>DLK-299, "LH : Diagnosis Procedure"</u>.

LH : Diagnosis Procedure

1. CHECK BACK DOOR TOUCH SENSOR INPUT SIGNAL

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

	(+)	((-)						
	Back door tou	uch sensor LH		door control mod- Ile	Condition		Condition Voltage		Voltage	
	Connector	Terminal	Connector	Terminal						
	D165	1	Do	14	Back door touch	Detect obstruc- tion	0 – 1.5 V	J		
	D165	D165	1	B8	В8	14	sensor LH	Other than above	5 – 6.7 V	DL

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR TOUCH SENSOR LH CIRCUIT

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

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

ŀ	Automatic back door control module		Back door tou	ch sensor LH	Continuity	N	
(Connector	Terminal Connector Termina		Terminal	Continuity		
	B8	15	D165	1	Existed	0	

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

Automatic back do	or control module		Continuity	Р
 Connector	Terminal	Ground	Continuity	
 B8	15	-	Not existed	

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.

NO >> Repair or replace harness.

DLK-299

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INFOID:000000009649226

INFOID:000000009649227

BACK DOOR TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

$\mathbf{3}$. Check back door touch sensor LH ground circuit

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

Automatic back do	Automatic back door control module		Back door touch sensor LH		
Connector	Terminal	Connector	Terminal	Continuity	
B8	14	D165	2	Existed	

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

Automatic back do	or control module		Continuity	
Connector	Terminal	Ground	Continuity	
B8	14		Not existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR TOUCH SENSOR LH GROUND CIRCUIT 2

1. Connect automatic back door control module connector and back door touch sensor LH connector.

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

	(+)			
Automatic back	door control module	()	Voltage	
Connector	Terminal			
B8	14	Ground	0 – 1.5 V	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.

5.CHECK BACK DOOR TOUCH SENSOR LH

Refer to DLK-300, "LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door touch sensor LH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

LH : Component Inspection

INFOID:000000009649228

1. CHECK BACK DOOR TOUCH SENSOR LH

1. Turn ignition switch OFF.

2. Disconnect back door touch sensor LH connector.

3. Check resistance between back door touch sensor LH terminals.

Back door to	Back door touch sensor LH Terminal		Condition	
Terr				
1	2	Back door touch sensor	Detect obstruction	360 - 440 Ω
		LH	Other than above	0.9 - 1.1 kΩ

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

- YES >> INSPECTION END
- NO >> Replace back door touch sensor LH. RH

RH: Component Function Check

1.CHECK FUNCTION

1. Select "AUTO BACK DOOR" using CONSULT.

2. Select "TOUCH SEN RH" in "DATA MONITOR" mode.

Check that the function operates normally according to the following conditions.

Monitor item	C	Status	D	
	Back door touch sensor RH	Other than below	OFF	
TOUCH SEN RH		Detect obstruction	ON	Е

Is the inspection result normal?

YES >> Back door touch sensor RH is OK.

NO >> Refer to DLK-301, "RH : Diagnosis Procedure".

RH : Diagnosis Procedure

1. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.

2. Check voltage between back door touch sensor RH harness connector and automatic back door control Н module harness connector.

	(+)	()					1		
-	Back door to	uch sensor RH		door control mod- le	Condition		Condition Voltage		Voltage	
-	Connector	Terminal	Connector	Terminal				1		
	D191	1 B8	Back door touch	50 44	Detect obstruc- tion	0 – 1.5 V	J			
			B8 14	sensor RH	Other than above	5 – 6.7 V	DLk			

Is the inspection result normal?

YFS >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR TOUCH SENSOR RH CIRCUIT

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

Automatic back do	or control module	Back door tou	ch sensor RH	Continuity	_ N
Connector	Terminal	Connector	Terminal	- Continuity	
B8	13	D191	1	Existed	0

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

Α	utomatic back door	control module		Continuity	Р
Con	nector	Terminal	Ground	Continuity	
	B8	13		Not existed	

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-495, "Removal and Installation". NO >> Repair or replace harness.

DLK-301

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BACK DOOR TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK BACK DOOR TOUCH SENSOR RH GROUND CIRCUIT

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

Automatic back door control module		Back door touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	14	D191	2	Existed

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

Automatic back do	Automatic back door control module		Continuity
Connector	Terminal	Ground	Continuity
B8	14	-	Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR TOUCH SENSOR RH GROUND CIRCUIT 2

1. Connect automatic back door control module connector and back door touch sensor RH connector.

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

	(+)		
Automatic back of	Automatic back door control module		Voltage
Connector	Terminal		
B8	14	Ground	0 – 1.5 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.

5.CHECK BACK DOOR TOUCH SENSOR RH

Refer to DLK-302, "RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door touch sensor RH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH : Component Inspection

INFOID:000000009649231

1.CHECK TOUCH SENSOR RH

1. Turn ignition switch OFF.

2. Disconnect back door touch sensor RH connector.

3. Check resistance between back door touch sensor RH terminals.

Back door to	Back door touch sensor RH		Condition	
Ter	minal	Condi		Resistance
1	2	Back door touch sensor	Detect obstruction	360 - 440 Ω
I	Ζ.	RH	Other than above	0.9 - 1.1 kΩ

Is the inspection result normal?

< DTC	CIRCUIT DIAGNOSIS >	
YES NO	>> INSPECTION END >> Replace back door touch sensor RH.	A
		В
		С
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BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR CLOSURE MOTOR WITH AUTOMATIC BACK DOOR

WITH AUTOMATIC BACK DOOR : Diagnosis Procedure

INFOID:000000009649232

1.CHECK BACK DOOR CLOSURE MOTOR INPUT SIGNAL

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

(+) Back door lock assembly					
		()	0	Condition	Voltage
Connector	Terminal				
	4			Open	9 - 16 V
D190	1	Cround	Back door	Ohter than above	0 - 1.5 V
D190	2	Ground	Back door	Close	9 - 16 V
	2			Ohter than above	0 - 1.5 V

Is the inspection result normal?

- YES >> Replace back door lock assembly.
- NO >> GO TO 2.

2. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

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

Automatic back doo	or control module	Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	3	D190	1	Existed
Do	2	- 190	2	LAISIEU

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

Automatic back doo	or control module		Continuity
Connector	Terminal	Ground	Continuity
B8	3	Gibuna	Not existed
	2		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.

NO >> Repair or replace harness.

WITHOUT AUTOMATIC BACK DOOR

WITHOUT AUTOMATIC BACK DOOR : Diagnosis Procedure

INFOID:000000009649233

1. CHECK BACK DOOR CLOSURE MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.

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

BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Back door lo	ck assembly	(-)	(Condition	Voltage
Connector	Terminal				
	1			Open	5 - 16 V
D100	I	Ground Back door	Ohter than above	0 - 1.5 V	
D190	2		Back door	Close	5 - 16 V
	2			Ohter than above	0 - 1.5 V

NO >> GO TO 2.

2. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

1. Disconnect back door control unit connector.

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

Back door	control unit	Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D181	10	D190	1	Existed
DIGI	4	D190	2	EXISTED

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

Back door co	Back door control unit		Continuity
Connector	Terminal	Ground	Continuity
D181	10	Ground	Not existed
D181	4		NOT EXISTED

Is the inspection result normal?

YES >> Replace back door control unit.

NO >> Repair or replace harness.

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AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC BACK DOOR WARNING BUZZER

Diagnosis Procedure

INFOID:000000009649234

1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect automatic back door warning buzzer connector.
- 3. Check voltage between automatic back door warning buzzer harness connector and ground.

(+)			
Automatic back door	Automatic back door warning buzzer		Voltage
Connector	Terminal		
B305	1	Ground	9 - 16 V

Is the inspection result normal?

YES >> GO TO 3.

2.CHECK FUSE

Check the following.

- 10 A fuse, [No.9, located in fuse block (J/B)].
- Harness for open or short between automatic back door warning buzzer harness connector and battery terminal.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

 $\mathbf{3.}$ CHECK AUTOMATIC BACK DOOR WARNING BUZZER OUTPUT SIGNAL CIRCUIT

1. Disconnect automatic back door control module connector.

2. Check continuity between automatic back door control module harness connector and automatic back door warning buzzer harness connector.

Automatic back d	oor control module	Automatic back door warning buzzer		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B8	5	B305	2	Existed	

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

Automatic back do	or control module		Continuity
Connector	Terminal	Ground	Continuity
B8	5		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR WARNING BUZZER

Refer to DLK-306, "Component Inspection"

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to DLK-495, "Removal and Installation".
- NO >> Replace automatic back door warning buzzer.

Component Inspection

INFOID:000000009649235

1.CHECK AUTOMATIC BACK DOOR WARNING BUZZER

1. Turn ignition switch OFF.

2. Disconnect automatic back door warning buzzer connector.

DLK-306

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

3. Check battery power supply directly to automatic back door warning buzzer terminals and check the operation.

ning buzzer			
	Operation	В	
(-)			
2	Buzzer sounds		
	(-) 2	(-)	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door warning buzzer.

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< DTC/CIRCUIT DIAGNOSIS >

GROUND CIRCUIT

Component Function Check

INFOID:000000009649236

INFOID:000000009649237

1.CHECK FUNCTION

1. Select "AUTO BACK DOOR" using CONSULT.

2. Select "DESTINATION" and "HAZARD" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DECTINATION	Circuit between automatic	Normal	NAM
DESTINATION	back door control module terminal 6 and ground	Open or short	JPN
	Circuit between automatic		ON
HAZARD	back door control module terminal 8 and ground	Open or short	OFF

Is the inspection result normal?

YES >> Automatic back door ground circuit is OK.

NO >> Refer to DLK-308, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK GROUND CIRCUIT

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

_	Automatic back door control module			Continuity	
	Connector	Terminal	Ground	Continuity	
	B8	6	Giouna	Existed	
		8		Existed	

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-495, "Removal and Installation"</u>.

NO >> Repair or replace harness.

INTEGRATED HOMELINK TRANSMITTER	
< DTC/CIRCUIT DIAGNOSIS >	
INTEGRATED HOMELINK TRANSMITTER	A
Component Function Check	0000009649238
1.CHECK FUNCTION	В
Check that system receiver (garage door opener, etc.) operates with original hand-held transmitter. Is the inspection result normal?	
YES >> GO TO 2.	С
NO >> Receiver or hand-held transmitter is malfunctioning.	
2.CHECK ILLUMINATE	D
 Turn ignition switch OFF. Does red light of transmitter illuminate when any transmitter button is pressed? 	
Is the inspection result normal?	E
YES >> GO TO 3. NO >> Refer to <u>DLK-309, "Diagnosis Procedure"</u> .	
3. CHECK TRANSMITTER	F
Check transmitter with Tool*.	
*:For details, refer to Technical Service Bulletin. <u>Is the inspection result normal?</u>	G
YES >> Receiver or hand-held transmitter malfunction, not vehicle related. NO >> Replace auto anti-dazzling inside mirror (integrated homelink transmitter).	Н
Diagnosis Procedure	0000009649239
1.CHECK POWER SUPPLY	I

- 1. Turn ignition switch OFF.
- Disconnect auto anti-dazzling inside mirror (integrated homelink transmitter) connector. 2.
- Check voltage between auto anti-dazzling inside mirror (integrated homelink transmitter) harness connec-3. tor and ground.

((+)				DLK	
	ling inside mirror nelink transmitter)	()	Condition		Voltage (Approx.)	DER
Connector	Terminal					L
Bac	6			ON	Detter v velte re	_
R25	10	Ground	Ignition switch	OFF	Battery voltage	
ne inspection re	sult normal?		1	1		M

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Check 10 A fuse [No. 6 and No 3 located in the fuse block (J/B)].

NO-2 >> Harness for open or short between fuse and auto anti-dazzling inside mirror (integrated homelink Ν transmitter).

2.CHECK GROUND CIRCUIT

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

	Auto anti-dazzling inside mirror (Integrated homelink transmitter)		Continuity	P
Connector	Terminal	Ground		
R25	8		Existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness. 0

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

 $3. {\sf CHECK} {\sf INTERMITTENT} {\sf INCIDENT}$

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

< DTC/CIRCUIT DIAGNOS	SIS >			
SLIDING DOOR LH				
SLIDING DOOR LH :	Component Fund	ction Check		INFOID:00000009649240
1. CHECK FUNCTION				
 Select "AUTO SLDE DO Select "ENCODER A LI Check that the function 	H " and "ENCODER B	LH" in "DATA M		
Monitor item		Condition		Status
		Moving (auto or m	nanual)	HI ⇔ LO
ENCODER A LH	Sliding door LH	When stopped		HI or LO
		Moving (auto or m	nanual)	HI ⇔ LO
ENCODER B LH	Sliding door LH	When stopped		HI or LO
SLIDING DOOR LH : 1.CHECK ENCODER POV 1. Turn ignition switch OF 2. Disconnect automatic s 3. Check voltage between	VER SUPPLY F. liding door unit LH cor	nnector.	s connector and	INFOID:00000009649241
	(+)			
	ing door unit LH		(-)	Voltage
Connector	Terminal			
B65	5	Gr	ound	8 – 16 V
s the inspection result norn YES >> GO TO 3. NO >> GO TO 2. 2.CHECK ENCODER CIR 1. Disconnect sliding door 2. Check continuity betwee LH harness connector.	CUIT 1 control unit LH conne		s connector and	l automatic sliding door unit
Sliding door con	rol unit LH	Automatic slidin	g door unit LH	
Connector	Terminal	Connector	Terminal	- Continuity
B45	11	B65	5	Existed
B. Check continuity betwe	en sliding door control	unit LH harness	connector and	ground.
Sliding door co	ntrol unit LH			Continuity
Connector	Terminal	Grour	d	-
B45	11			Not existed
s the inspection result norn YES >> Replace sliding NO >> Repair or replace	door control unit LH.	Refer to <u>DLK-500</u>	<u>), "LH : Remova</u>	l and Installation".

3. CHECK ENCODER CIRCUIT 2

1. Disconnect sliding door control unit LH connector.

< DTC/CIRCUIT DIAGNOSIS >

 Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door c	ontrol unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	4	P65 6		Existed
D45	21	B65	7	LAISIEU

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door c	Sliding door control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	4	Ground	Not existed
D40	21		NUL EXISIEU

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK ENCODER GROUND CIRCUIT

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

Sliding door co	Sliding door control unit LH		Automatic sliding door unit LH	
Connector	Terminal	Connector Terminal		Continuity
B45	26	B65	8	Existed

2. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ontrol unit LH		Continuity
Connector	Connector Terminal		Continuity
B45	26		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK ENCODER CIRCUIT 3

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

(+)				
Sliding door co	Sliding door control unit LH		Voltage	
Connector	Terminal			
B45	26	Ground	0 V	

Is the inspection result normal?

YES >> Replace automatic sliding door unit LH.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>. SLIDING DOOR RH

SLIDING DOOR RH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "ENCODER A RH " and "ENCODER B RH" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

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< DTC/CIRCUIT DIAGNOSIS >

Monitor item		Condition		Status
	011 11 511	Moving (auto or ma	anual)	HI ⇔ LO
ENCODER A RH	Sliding door RH	When stopped		HI or LO
		Moving (auto or ma	anual)	HI ⇔ LO
ENCODER B RH	Sliding door RH	When stopped		HI or LO
he inspection result not ES >> Encoder is OF O >> Refer to <u>DLK-</u> IDING DOOR RH CHECK ENCODER PC	<. 313. "SLIDING DOOR : Diagnosis Proce	-	ocedure".	INF01D:000000
	FF. sliding door unit RH co an automatic sliding doo		connector and	ground.
	(+)			
Automatic sl	liding door unit RH	(-	-)	Voltage
Connector	Terminal			
B244	5	Gro	und	8 – 16 V
ES >> GO TO 3. IO >> GO TO 2. CHECK ENCODER CI Disconnect sliding do	RCUIT 1 or control unit RH conn veen sliding door contro		connector and	automatic sliding doc
ES >> GO TO 3. IO >> GO TO 2. CHECK ENCODER CI Disconnect sliding doo Check continuity betw	RCUIT 1 or control unit RH conn veen sliding door contro r.			automatic sliding doc
ES >> GO TO 3. O >> GO TO 2. CHECK ENCODER CI Disconnect sliding door Check continuity betw RH harness connecto Sliding door co	RCUIT 1 or control unit RH conn veen sliding door contro r.	ol unit RH harness Automatic sliding	door unit RH	
ES >> GO TO 3. D >> GO TO 2. CHECK ENCODER CI Disconnect sliding doo Check continuity betw RH harness connecto Sliding door co Connector B247	RCUIT 1 or control unit RH conn veen sliding door contro r. ontrol unit RH Terminal	Automatic sliding Connector B244	door unit RH Terminal 5	Continuity Existed
ES >> GO TO 3. O >> GO TO 2. CHECK ENCODER CI Disconnect sliding doo Check continuity betw RH harness connecto Sliding door co Connector B247 Check continuity betw	RCUIT 1 or control unit RH conn veen sliding door contro r. ontrol unit RH Terminal 11 veen sliding door contro	Automatic sliding Connector B244	door unit RH Terminal 5	Continuity Existed
ES >> GO TO 3. O >> GO TO 2. CHECK ENCODER CI Disconnect sliding doo Check continuity betw RH harness connecto Sliding door co Connector B247 Check continuity betw Sliding door of	RCUIT 1 or control unit RH conn veen sliding door contro r. ontrol unit RH Terminal 11 veen sliding door contro control unit RH	Automatic sliding Connector B244 ol unit RH harness	door unit RH Terminal 5 connector and g	Continuity Existed
ES >> GO TO 3. O >> GO TO 2. CHECK ENCODER CI Disconnect sliding doo Check continuity betw RH harness connector Sliding door co Connector B247 Check continuity betw Sliding door of Connector	RCUIT 1 or control unit RH conn veen sliding door contro r. ontrol unit RH Terminal 11 veen sliding door contro	Automatic sliding Connector B244	door unit RH Terminal 5 connector and g	Continuity Existed ground. Continuity
ES >> GO TO 3. IO >> GO TO 2. CHECK ENCODER CI Disconnect sliding door Check continuity betw RH harness connector Sliding door co Connector B247 Check continuity betw Sliding door co Sliding door co Connector B247 Check continuity betw Sliding door B247	RCUIT 1 or control unit RH conn veen sliding door contro r. ontrol unit RH 11 veen sliding door contro control unit RH control unit RH 11	Automatic sliding Connector B244 ol unit RH harness	door unit RH Terminal 5 connector and g	Continuity Existed ground.
NO >> GO TO 2. CHECK ENCODER CI Disconnect sliding door Check continuity betw RH harness connector Sliding door co Connector B247 Check continuity betw Sliding door of Connector B247 the inspection result nor (ES >> Replace slidin NO >> Repair or repl CHECK ENCODER CI Disconnect sliding door	RCUIT 1 or control unit RH conn veen sliding door contro r. ontrol unit RH Terminal 11 veen sliding door contro control unit RH 11 rmal? ng door control unit RH. ace harness. RCUIT 2 or control unit RH conn veen sliding door contro	Automatic sliding Connector B244 ol unit RH harness Ground Refer to <u>DLK-500</u> ector.	door unit RH Terminal 5 connector and g	Continuity Existed ground. Continuity Not existed I and Installation".
YES >> GO TO 3. IO >> GO TO 2. CHECK ENCODER CI Disconnect sliding door Check continuity betw RH harness connector Sliding door co Connector B247 Check continuity betw Sliding door co Connector B247 Check continuity betw Sliding door co Connector B247 Check continuity betw Connector B247 Check continuity betw Connector B247 Check continuity betw CHECK ENCODER CI Disconnect sliding door Check continuity betw RH harness connector	RCUIT 1 or control unit RH conn veen sliding door control ontrol unit RH Terminal 11 veen sliding door control control unit RH Terminal 11 rmal? ng door control unit RH. ace harness. RCUIT 2 or control unit RH conn veen sliding door control or control unit RH conn	Automatic sliding Connector B244 Ol unit RH harness Ground Refer to DLK-500 ector. ol unit RH harness	door unit RH Terminal 5 connector and g . "RH : Remova connector and	Continuity Existed ground. Continuity Not existed I and Installation".
ES >> GO TO 3. IO >> GO TO 2. CHECK ENCODER CI Disconnect sliding door Check continuity betw RH harness connector Sliding door co Connector B247 Check continuity betw Sliding door co Connector B247 Check continuity betw Sliding door co Connector B247 the inspection result not 'ES >> Replace slidin IO >> Repair or repl CHECK ENCODER CI Disconnect sliding door Check continuity betw RH harness connecto Sliding door co	RCUIT 1 or control unit RH conn veen sliding door control r. ontrol unit RH Terminal 11 veen sliding door control control unit RH 11 rmal? ng door control unit RH. ace harness. RCUIT 2 or control unit RH conn veen sliding door control or control unit RH conn	Automatic sliding Connector B244 ol unit RH harness Ground Refer to <u>DLK-500</u> ector. ol unit RH harness Automatic sliding	door unit RH Terminal 5 connector and g , "RH : Remova connector and door unit RH	Continuity Existed ground. Continuity Not existed I and Installation".
YES >> GO TO 3. NO >> GO TO 2. CHECK ENCODER CI Disconnect sliding door Check continuity betw RH harness connector Sliding door co Connector B247 Check continuity betw Sliding door co Connector B247 Check continuity betw Sliding door co Connector B247 Check continuity betw Connector B247 Check continuity betw Connector B247 Check continuity betw CHECK ENCODER CI Disconnect sliding door Check continuity betw RH harness connector	RCUIT 1 or control unit RH conn veen sliding door control ontrol unit RH Terminal 11 veen sliding door control control unit RH Terminal 11 rmal? ng door control unit RH. ace harness. RCUIT 2 or control unit RH conn veen sliding door control or control unit RH conn	Automatic sliding Connector B244 Ol unit RH harness Ground Refer to DLK-500 ector. ol unit RH harness	door unit RH Terminal 5 connector and g . "RH : Remova connector and	Continuity Existed ground. Continuity Not existed I and Installation". automatic sliding doc

< DTC/CIRCUIT DIAGNOSIS >

Sliding door o	Sliding door control unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	4	Ground	Not existed
DZHI	21		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK ENCODER GROUND CIRCUIT

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

Sliding door co	Sliding door control unit RH		Automatic sliding door unit RH		
Connector	Terminal	Connector Terminal		Continuity	
B247	26	B244	8	Existed	

2. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door co	ntrol unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	26		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK ENCODER CIRCUIT 3

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

(+)			
Sliding door o	Sliding door control unit RH		Voltage
Connector	Connector Terminal		
B247	26	Ground	0 V

Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

SLIDING DOOR SWITCH

<pre>< DTC/CIRCUIT DIAGNOS SLIDING DOOR SW</pre>					
SLIDING DOOR LH	VII CII				
SLIDING DOOR LH : (Component Fund	tion Chec	k		INFOID:000000009649244
1. CHECK FUNCTION					
 Select "AUTO SLDE DC Select "RR-LH DOOR S Check that the function of 	W " in "DATA MONIT	OR" mode.	following co	nditions.	
Monitor item		Condition			Status
RR-LH DOOR SW	Sliding door LH	Open			ON
		Closed			OFF
Is the inspection result norm YES >> Sliding door swit NO >> Refer to DLK-31 SLIDING DOOR LH : I	ch is OK 5, "SLIDING DOOR I	-	<u>s Procedure"</u>		INFOID:00000009649245
1.SLIDING DOOR SWITCH	I INPUT SIGNAL				(
 Turn ignition switch OFF Disconnect sliding door Check voltage between 	switch LH connector.	I harness co	nnector and g	ground.	
(+)		_	<i>,</i> ,		
Sliding door s		_	()		Voltage
Connector B71	Terminal 3	Gr	ound		8 – 16 V
Is the inspection result norm		GI	Juliu		0 - 10 V
YES >> GO TO 3. NO >> GO TO 2. 2.CHECK SLIDING DOOR 1. Disconnect sliding door 2. Check continuity betwee ness connector.	SWITCH CIRCUIT		ness connect	or and slidir	D ng door switch LH har-
Sliding door control	unit I H	Sliding do	or switch LH		
Connector		Connector	Termir	nal	Continuity
B45	28	B71	3		Existed
3. Check continuity betwee	en sliding door control	unit LH harn	ess connecto	or and grour	nd.
Sliding door co	ntrol unit LH				
Connector	Terminal		Ground		Continuity
B45	28				Not existed
Is the inspection result norm	al?				
YES >> Replace sliding NO >> Repair or replace 3. CHECK SLIDING DOOR Refer to <u>DLK-316</u> , "SLIDING	SWITCH			emoval and	Installation".

Is the inspection result normal?

YES >> GO TO 4.

SLIDING DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace sliding door switch LH.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR LH : Component Inspection

1. CHECK SLIDING DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door switch LH connector.
- 3. Check continuity between sliding door switch LH terminals.

Sliding do	Sliding door switch LH		Condition	
Ter	minal	Con	allon	Continuity
3	Ground part of door	Sliding door switch LH	Pressed	Existed
5	switch	Sharing door switch Err	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door switch LH.

SLIDING DOOR RH

SLIDING DOOR RH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "RR-RH DOOR SW " in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Condition		Status
RR-RH DOOR SW	Sliding door RH	Open	ON		
		Closed	OFF		

Is the inspection result normal?

YES >> Sliding door switch is OK

NO >> Refer to <u>DLK-316</u>, "SLIDING DOOR RH : Diagnosis Procedure".

SLIDING DOOR RH : Diagnosis Procedure

1.SLIDING DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door switch RH connector.

3. Check voltage between sliding door switch RH harness connector and ground.

	(+)		
Sliding do	or switch RH	(-)	Voltage
Connector	Terminal		
B221	3	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check sliding door switch circuit

1. Disconnect sliding door control unit RH connector.

INFOID:000000009649248

INFOID:000000009649246

INFOID:000000009649247

SLIDING DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

2.	Check continuity between sliding door control unit RH harness connector and sliding door switch RH har-
	ness connector.

Sliding door co	ontrol unit RH	Sliding door switch RH		Continuity	
Connector	Terminal	Connector	Terminal	- Continuity	
B247	28	B221	3	Existed	
Check continuity be	tween sliding door co	ontrol unit RH harnes	s connector and gro	bund.	
Sliding doo	r control unit RH			Continuity	
Connector	Terminal	Groun	nd	Continuity	
B247	28			Not existed	
the inspection result r ES >> GO TO 4. O >> Replace slic CHECK INTERMITT	ling door switch RH.				
fer to <u>GI-42, "Intermit</u>	tent Incident".				
>> INSPECTIC	N END				
IDING DOOR R	H : Component	Inspection		INFOID:00000000964924	
CHECK SLIDING DO	OR SWITCH				
Turn ignition switch					

Slidin	Sliding door switch RH		Condition		
	Terminal Ground part of door			Continuity	L
3			Pressed	Existed	
5	switch	Sliding door switch RH	Released	Not existed	
Is the inspection re	sult normal?			·	M

Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace sliding door switch RH.

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< DTC/CIRCUIT DIAGNOSIS >

FULL LATCH SWITCH SLIDING DOOR LH

SLIDING DOOR LH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "FULL LATC SW L" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status	
FULL LATC SW L	Sliding door LH	Full close OFF	
TOLE LATO SWIL		Other than above	ON

Is the inspection result normal?

YES >> Full latch switch is OK.

NO >> Refer to <u>DLK-318</u>, "SLIDING DOOR LH : Diagnosis Procedure".

SLIDING DOOR LH : Diagnosis Procedure

INFOID:000000009649251

INEOID:000000009649250

1.CHECK FULL LATCH SWITCH INPUT SIGNAL

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

(+)	(+)		
Sliding door lock	assembly LH	(-)	Voltage
Connector	Terminal		
D123	5	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK FULL LATCH SWITCH CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

Sliding door control unit LH		Sliding door lock assembly LH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B45	18	D123	5	Existed	

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door o	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	18	*	Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

 $\mathbf{3}$. CHECK FULL LATCH SWITCH GROUND CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

DLK-318

FULL LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Connector	control unit LH Terminal	Connector	or lock assembly LH Terminal		Continuity
B45	23	D123	2		Existed
-	-	oor control unit LH har		nd around.	
	oor control unit LH			0	Continuity
Connector	Termi		Ground		·
B45	23			N	lot existed
the inspection result	normal?				
YES >> GO TO 4. NO >> Repair or	replace harness.				
.CHECK FULL LAT	•	CUIT 2			
		H connector and sliding	i door lock assem	bly I H conr	nector
		r control unit LH harne			
	()				
	(+)				Valtaga
Connector	door control unit LH	minal	()		Voltage
B45		23	Ground		0 V
D40		25	Giouna		0 0
CHECK FULL LATC	liding door contro CH SWITCH IDING DOOR LH	ol unit LH. Refer to DLI		oval and Ins	stallation".
YES >> GO TO 5. NO >> Replace s CHECK FULL LATO efer to <u>DLK-319, "SL</u> the inspection result YES >> GO TO 6. NO >> Replace s CHECK INTERMIT	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT	I : Component Inspect ssembly LH.		oval and Ins	stallation".
YES >> GO TO 5. NO >> Replace s CHECK FULL LATO efer to <u>DLK-319, "SL</u> the inspection result YES >> GO TO 6. NO >> Replace s	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT	I : Component Inspect ssembly LH.		oval and Ins	stallation".
YES >> GO TO 5. NO >> Replace s CHECK FULL LATO efer to <u>DLK-319, "SL</u> the inspection result YES >> GO TO 6. NO >> Replace s CHECK INTERMIT	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT ittent Incident".	I : Component Inspect ssembly LH.		oval and Ins	stallation".
YES >> GO TO 5. NO >> Replace s CHECK FULL LATC efer to <u>DLK-319, "SL</u> the inspection result YES >> GO TO 6. NO >> Replace s CHECK INTERMIT efer to <u>GI-42, "Interm</u> >> INSPECT	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT littent Incident".	I : Component Inspect ssembly LH.		oval and Ins	
YES >> GO TO 5. NO >> Replace s CHECK FULL LATC efer to <u>DLK-319, "SL</u> the inspection result YES >> GO TO 6. NO >> Replace s CHECK INTERMIT efer to <u>GI-42, "Interm</u> >> INSPECT LIDING DOOR I	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT ittent Incident". ON END _H : Compone	I : Component Inspect ssembly LH.		oval and Ins	
YES >> GO TO 5. NO >> Replace s CHECK FULL LATC efer to <u>DLK-319, "SL</u> the inspection result YES >> GO TO 6. NO >> Replace s CHECK INTERMIT efer to <u>GI-42, "Interm</u> >> INSPECT	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT ittent Incident". ON END _H : Compone	I : Component Inspect ssembly LH.		oval and Ins	
YES >> GO TO 5. NO >> Replace s .CHECK FULL LATO efer to <u>DLK-319</u> , <u>"SL</u> the inspection result YES >> GO TO 6. NO >> Replace s .CHECK INTERMIT efer to <u>GI-42</u> , <u>"Interm</u> >> INSPECT LIDING DOOR I .CHECK FULL LATO Turn ignition switc Disconnect sliding	liding door contro CH SWITCH <u>IDING DOOR LH</u> <u>normal?</u> liding door lock a TENT INCIDENT <u>ittent Incident"</u> . ON END _H : Compone CH SWITCH h OFF. door lock assem	I : Component Inspect ssembly LH.	<u>on"</u> .	oval and Ins	
YES >> GO TO 5. NO >> Replace s .CHECK FULL LATO efer to <u>DLK-319</u> , <u>"SL</u> the inspection result YES >> GO TO 6. NO >> Replace s .CHECK INTERMIT efer to <u>GI-42</u> , <u>"Interm</u> >> INSPECT LIDING DOOR I .CHECK FULL LATO Turn ignition switc Disconnect sliding	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT ittent Incident". ON END LH : Compone CH SWITCH h OFF. door lock assem	t : Component Inspect ssembly LH. - ent Inspection ably LH connector. oor lock assembly LH	on".	ival and Ins	INFOID:0000000096492
YES >> GO TO 5. NO >> Replace s .CHECK FULL LATC efer to <u>DLK-319</u> , "SL the inspection result YES >> GO TO 6. NO >> Replace s .CHECK INTERMIT efer to <u>GI-42</u> , "Interm >> INSPECT LIDING DOOR I .CHECK FULL LATC Turn ignition switc Disconnect sliding Check continuity b	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT ittent Incident". ON END LH : Compone CH SWITCH h OFF. door lock assem between sliding do	t : Component Inspect ssembly LH. - ent Inspection ably LH connector. oor lock assembly LH	<u>on"</u> .	ival and Ins	
YES >> GO TO 5. NO >> Replace s .CHECK FULL LATO efer to <u>DLK-319</u> , <u>"SL</u> the inspection result YES >> GO TO 6. NO >> Replace s .CHECK INTERMIT efer to <u>GI-42</u> , <u>"Interm</u> >> INSPECT LIDING DOOR I .CHECK FULL LATO Turn ignition switc Disconnect sliding Check continuity b Sliding door lock	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT ittent Incident". ON END LH : Compone CH SWITCH h OFF. door lock assem between sliding do assembly LH al	t : Component Inspect ssembly LH. ent Inspection	on".	oval and Ins	INFOID:0000000096492
YES >> GO TO 5. NO >> Replace s .CHECK FULL LATO efer to <u>DLK-319</u> , <u>"SL</u> the inspection result YES >> GO TO 6. NO >> Replace s .CHECK INTERMIT efer to <u>GI-42</u> , <u>"Interm</u> >> INSPECT LIDING DOOR I .CHECK FULL LATO Turn ignition switc Disconnect sliding Check continuity b	liding door contro CH SWITCH IDING DOOR LH normal? liding door lock a TENT INCIDENT ittent Incident". ON END LH : Compone CH SWITCH h OFF. door lock assem between sliding do	t : Component Inspect ssembly LH. - ent Inspection ably LH connector. oor lock assembly LH	on". erminals.		INFOID:0000000096492

SLIDING DOOR RH

FULL LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR RH : Component Function Check

INFOID:000000009649253

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "FUL LATC SW R" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
FUL LATC SW R	Sliding door RH	Full close OFF	
T OE LATC SWIT		Other than above	ON

Is the inspection result normal?

YES >> Full latch switch is OK.

NO >> Refer to DLK-320, "SLIDING DOOR RH : Diagnosis Procedure".

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649254

1. CHECK FULL LATCH SWITCH INPUT SIGNAL

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

(+)			
Sliding door loc	k assembly RH	()	Voltage
Connector	Terminal		
D124	5	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK FULL LATCH SWITCH CIRCUIT

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

Sliding door control unit RH		Sliding door lock assembly RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B247	18	D124	5	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

ConnectorTerminalGroundB24718Not existed	_	Sliding door control unit RH			Continuity
B247 18 Not existed		Connector	Terminal	Ground	Continuity
	_	B247	18	*	Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3}$.check full latch switch ground circuit

- 1. Disconnect sliding door control unit RH connector.
- 2. Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

FULL LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding doc	or control unit RH	Sliding door lo	ck assembly RH	Continuity
Connector	Terminal	Connector	Terminal	· · · · · · · · · · · · · · · · · · ·
B247	23	D124	2	Existed
. Check continuity	between sliding door	control unit RH harnes	ss connector and gr	ound.
Sliding	door control unit RH			
Connector	Terminal	Gro	bund	Continuity
B247	23			Not existed
s the inspection resu	It normal?			
YES >> GO TO 4				
· ·	r replace harness.			
LCHECK FULL LAT	TCH SWITCH CIRCUI	Т 2		
		onnector and sliding de		
2. Check voltage be	etween sliding door co	ntrol unit RH harness	connector and grou	nd.
	(+)			
Sliding	door control unit RH		()	Voltage
Connector	Termina			-
			auad	0 V
B247	23	Gr	ound	0 0
s the inspection resu YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT	ilt normal? 5. sliding door control ur FCH SWITCH	nit RH. Refer to <u>DLK-5</u>	00. "RH : Removal a	
s the inspection result YES >> GO TO 5 NO >> Replace CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection result YES >> GO TO 6	ilt normal? 5. sliding door control ur TCH SWITCH LIDING DOOR RH : C ilt normal? 5.	nit RH. Refer to <u>DLK-5</u>	00. "RH : Removal a	
s the inspection resurves YES >> GO TO 5 NO >> Replace C.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resurves YES >> GO TO 6 NO >> Replace	ilt normal? 5. sliding door control ur FCH SWITCH <u>LIDING DOOR RH : C</u> ilt normal? 5. sliding door lock asse	nit RH. Refer to <u>DLK-5</u>	00. "RH : Removal a	
s the inspection result YES >> GO TO 5 NO >> Replace CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection result YES >> GO TO 6 NO >> Replace CHECK INTERMI	ilt normal? 5. sliding door control un TCH SWITCH <u>LIDING DOOR RH : C</u> ilt normal? 5. sliding door lock asse TTENT INCIDENT	nit RH. Refer to <u>DLK-5</u>	00. "RH : Removal a	
s the inspection resurves YES >> GO TO 5 NO >> Replace C.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resurves YES >> GO TO 6 NO >> Replace	ilt normal? 5. sliding door control un TCH SWITCH <u>LIDING DOOR RH : C</u> ilt normal? 5. sliding door lock asse TTENT INCIDENT	nit RH. Refer to <u>DLK-5</u>	00. "RH : Removal a	
s the inspection resu YES >> GO TO 5 NO >> Replace CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resu YES >> GO TO 6 NO >> Replace CHECK INTERMI Refer to <u>GI-42, "Inter</u>	It normal? Siding door control un TCH SWITCH LIDING DOOR RH : C It normal? Siding door lock asse TTENT INCIDENT mittent Incident".	nit RH. Refer to <u>DLK-5</u>	00. "RH : Removal a	
s the inspection resurves YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resurves YES >> GO TO 6 NO >> Replace D.CHECK INTERMI Refer to <u>GI-42, "Inter</u> >> INSPEC	Ilt normal? siding door control un FCH SWITCH LIDING DOOR RH : C It normal? siding door lock asse TTENT INCIDENT mittent Incident".	nit RH. Refer to <u>DLK-5</u> Component Inspection	00. "RH : Removal a	
s the inspection resurves YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resurves YES >> GO TO 6 NO >> Replace D.CHECK INTERMI Refer to <u>GI-42, "Inter</u> >> INSPEC	It normal? Siding door control un TCH SWITCH LIDING DOOR RH : C It normal? Siding door lock asse TTENT INCIDENT mittent Incident".	nit RH. Refer to <u>DLK-5</u> Component Inspection	00. "RH : Removal a	
s the inspection resurves YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resurves YES >> GO TO 6 NO >> Replace D.CHECK INTERMI Refer to <u>GI-42, "Inter</u> >> INSPEC	It normal? Siding door control un TCH SWITCH LIDING DOOR RH : C It normal? Siding door lock asse TTENT INCIDENT mittent Incident". TION END RH : Component	nit RH. Refer to <u>DLK-5</u> Component Inspection	00. "RH : Removal a	and Installation".
s the inspection resu YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resu YES >> GO TO 6 NO >> Replace D.CHECK INTERMI Refer to <u>GI-42, "Inter</u> >> INSPEC SLIDING DOOR	It normal? Si sliding door control un TCH SWITCH LIDING DOOR RH : C It normal? Si sliding door lock asse TTENT INCIDENT mittent Incident". TION END RH : Component TCH SWITCH	nit RH. Refer to <u>DLK-5</u> Component Inspection	00. "RH : Removal a	and Installation".
s the inspection resurves YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resurves YES >> GO TO 6 NO >> Replace D.CHECK INTERMI Refer to <u>GI-42, "Inter</u> >> INSPEC SLIDING DOOR .CHECK FULL LAT . Turn ignition switt 2. Disconnect slidin	It normal? is sliding door control un TCH SWITCH LIDING DOOR RH : C It normal? is sliding door lock asse TTENT INCIDENT mittent Incident". TION END RH : Component TCH SWITCH ch OFF. g door lock assembly	ait RH. Refer to <u>DLK-5</u> <u>Component Inspection</u> mbly RH. t Inspection RH connector.	00. "RH : Removal : 	and Installation".
s the inspection resurves YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resurves YES >> GO TO 6 NO >> Replace D.CHECK INTERMI Refer to <u>GI-42, "Inter</u> >> INSPEC SLIDING DOOR .CHECK FULL LAT . Turn ignition switt 2. Disconnect slidin	It normal? is sliding door control un TCH SWITCH LIDING DOOR RH : C It normal? is sliding door lock asse TTENT INCIDENT mittent Incident". TION END RH : Component TCH SWITCH ch OFF. g door lock assembly	ait RH. Refer to <u>DLK-5</u> Component Inspection mbly RH.	00. "RH : Removal : 	and Installation".
s the inspection resurves YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection resurves YES >> GO TO 6 NO >> Replace D.CHECK INTERMI Refer to <u>GI-42, "Inter</u> >> INSPEC SLIDING DOOR .CHECK FULL LAT . Turn ignition switt 2. Disconnect slidin	It normal? Siding door control un TCH SWITCH LIDING DOOR RH : C It normal? Siding door lock asse TTENT INCIDENT mittent Incident". TION END RH : Component TCH SWITCH ch OFF. g door lock assembly between sliding door	ait RH. Refer to <u>DLK-5</u> <u>Component Inspection</u> mbly RH. t Inspection RH connector. lock assembly RH terr	00. "RH : Removal a	and Installation".
s the inspection result YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT Refer to <u>DLK-321, "S</u> s the inspection result YES >> GO TO 6 NO >> Replace D.CHECK INTERMI Refer to <u>GI-42, "Inter</u> >> INSPEC SLIDING DOOR I.CHECK FULL LAT . Turn ignition switt . Check continuity	It normal? Siding door control un TCH SWITCH LIDING DOOR RH : Control un TCH SWITCH Siding door lock asses TTENT INCIDENT mittent Incident". TION END RH : Component TCH SWITCH ch OFF. g door lock assembly between sliding door (assembly RH	ait RH. Refer to <u>DLK-5</u> <u>Component Inspection</u> mbly RH. t Inspection RH connector.	00. "RH : Removal a	and Installation".
s the inspection resuly YES >> GO TO 5 NO >> Replace D.CHECK FULL LAT Refer to <u>DLK-321</u> , "S s the inspection resuly YES >> GO TO 6 NO >> Replace D.CHECK INTERMI Refer to <u>GI-42</u> , "Inter >> INSPEC SLIDING DOOR .CHECK FULL LAT . Turn ignition switt . Disconnect sliding . Check continuity Sliding door loce	It normal? 5. sliding door control un FCH SWITCH LIDING DOOR RH : Control un It normal? 5. sliding door lock asse TTENT INCIDENT mittent Incident". TION END RH : Component FCH SWITCH ch OFF. g door lock assembly between sliding door x assembly RH inal	ait RH. Refer to <u>DLK-5</u> <u>Component Inspection</u> mbly RH. t Inspection RH connector. lock assembly RH terr	00. "RH : Removal a	and Installation".

NO >> Replace sliding door lock assembly RH.

< DTC/CIRCUIT DIAGNOSIS >

NEUTRAL SWITCH SLIDING DOOR LH

SLIDING DOOR LH : Component Function Check

INFOID:000000009649256

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "NEUTRAL SW" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
	Sliding door closure mo-	Neutral position	OFF
NEUTRAL SW	tor LH	Other than above	ON

Is the inspection result normal?

YES >> Neutral switch is OK.

NO >> Refer to <u>DLK-322</u>, "SLIDING DOOR LH : Diagnosis Procedure".

SLIDING DOOR LH : Diagnosis Procedure

INFOID:000000009649257

1.CHECK NEUTRAL SWITCH INPUT SIGNAL

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

(+)			Voltage
Sliding door lock assembly LH		()	
Connector	Terminal		
D123	6	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK NEUTRAL SWITCH CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

Sliding door	Sliding door control unit LH		Sliding door lock assembly LH		
Connector	Terminal	Connector	Terminal	Continuity	
B45	15	D123	6	Existed	

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door o	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	15		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

 ${
m 3.}$ CHECK NEUTRAL SWITCH GROUND CIRCUIT

1. Disconnect sliding door control unit LH connector.

NEUTRAL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

tiouity	k assembly LH	Sliding door loc	control unit LH	Sliding door o
itinuity	Terminal	Connector	Terminal	Connector
isted	2	D123	23	B45

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door of	control unit LH		Continuity	ı
Connector	Terminal	Ground	Continuity	D
B45	23		Not existed	D

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK NEUTRAL SWITCH CIRCUIT 2

- 1. Connect sliding door control unit LH connector and sliding door lock assembly LH connector.
- 2. Check voltage between sliding door control unit LH harness connector and ground.

(+))			G
Sliding door co	ontrol unit LH	()	Voltage	
Connector	Terminal			Ц
B45	23	Ground	0 V	11

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

5.CHECK NEUTRAL SWITCH

Refer to <u>DLK-323</u>, "SLIDING DOOR LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly LH.

 $\mathbf{6.}$ CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR LH : Component Inspection

1.CHECK NEUTRAL SWITCH

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

•	Sliding door loc	k assembly LH	Con	dition	Continuity	
-	Term	inal	CON		Continuity	Р
-	6	2	Sliding door closure motor LH	Neutral position	Not existed	
	0	2		Other than above	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door lock assembly LH.

SLIDING DOOR RH

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INFOID:000000009649258

NEUTRAL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR RH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "NEUTRAL SW" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Conditior	ו	Status
	Sliding door closure mo-	Neutral position	OFF
NEUTRAL SW	tor RH	Other than above	ON

Is the inspection result normal?

YES >> Neutral switch is OK.

NO >> Refer to <u>DLK-324</u>, "SLIDING DOOR RH : Diagnosis Procedure".

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649260

INFOID:000000009649259

1.CHECK NEUTRAL SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

- 2. Disconnect sliding door lock assembly RH connector.
- 3. Check voltage between sliding door lock assembly RH harness connector and ground.

(+)			Voltage
Sliding door lock assembly RH		()	
Connector	Terminal		
D124	6	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK NEUTRAL SWITCH CIRCUIT

1. Disconnect sliding door control unit RH connector.

 Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

Sliding door control unit RH		Sliding door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	15	D124	6	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	15	_	Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK NEUTRAL SWITCH GROUND CIRCUIT

1. Disconnect sliding door control unit RH connector.

 Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

NEUTRAL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding door	control unit RH	Sliding door	Sliding door lock assembly RH	
Connector	Terminal	Connector	Terminal	Continuity
B247	23	D124	2	Existed
. Check continuity b	etween sliding doo	or control unit RH harne	ess connector and gro	ound.
Slidin	g door control unit RH	1		
Connector	Т	erminal	Ground	Continuity
B247		23		Not existed
the inspection result	normal?			
YES >> GO TO 4.				
•	eplace harness.			
CHECK NEUTRAL				
		connector and sliding		
. Check voltage betv	ween sliding door	control unit RH harnes	s connector and grou	na.
	(+)			
Sliding d	oor control unit RH		(-)	Voltage
Connector	Termi	inal		
B247	23		Ground	0 V
D247				
the inspection result YES >> GO TO 5. NO >> Replace sl	iding door control SWITCH	unit RH. Refer to <u>DLK-</u>		and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to <u>DLK-325, "SLI</u> the inspection result	iding door control SWITCH DING DOOR RH	unit RH. Refer to <u>DLK-</u> : Component Inspectio		and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to DLK-325, "SLI the inspection result YES >> GO TO 6.	iding door control SWITCH DING DOOR RH normal?	: Component Inspectio		and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to DLK-325, "SLI the inspection result YES >> GO TO 6. NO >> Replace sl	iding door control SWITCH <u>DING DOOR RH</u> normal? iding door lock as	: Component Inspectio		and Installation".
the inspection resultYES>> GO TO 5.NO>> Replace sl•CHECK NEUTRALefer to DLK-325, "SLIthe inspection resultYES>> GO TO 6.NO>> Replace sl•CHECK INTERMIT	iding door control SWITCH <u>DING DOOR RH</u> normal? iding door lock as: FENT INCIDENT	: Component Inspectio		and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to DLK-325, "SLI the inspection result YES >> GO TO 6. NO >> Replace sl	iding door control SWITCH <u>DING DOOR RH</u> normal? iding door lock as: FENT INCIDENT	: Component Inspectio		and Installation".
the inspection resultYES>> GO TO 5.NO>> Replace sl•CHECK NEUTRALefer to DLK-325, "SLIthe inspection resultYES>> GO TO 6.NO>> Replace sl•CHECK INTERMIT	iding door control SWITCH <u>DING DOOR RH</u> normal? iding door lock as: FENT INCIDENT ittent Incident".	: Component Inspectio		and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to <u>DLK-325, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMITT efer to <u>GI-42, "Interm</u> >> INSPECTI	iding door control SWITCH <u>DING DOOR RH</u> normal? iding door lock as: FENT INCIDENT ittent Incident".	: Component Inspectio		and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to <u>DLK-325, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMIT efer to <u>GI-42, "Interm</u> >> INSPECTI LIDING DOOR F	iding door control SWITCH <u>DING DOOR RH</u> normal? iding door lock as: FENT INCIDENT ittent Incident". ON END RH : Compone	: Component Inspectio		
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to <u>DLK-325, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMIT efer to <u>GI-42, "Interm</u> >> INSPECTI LIDING DOOR F CHECK NEUTRAL	iding door control SWITCH <u>DING DOOR RH</u> normal? iding door lock as: FENT INCIDENT ittent Incident". ON END RH : Compone SWITCH	: Component Inspectio		
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to <u>DLK-325, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMITT efer to <u>GI-42, "Interm</u> >> INSPECTI CHECK NEUTRAL CHECK NEUTRAL . Turn ignition switch	iding door control SWITCH <u>DING DOOR RH</u> normal? iding door lock as: FENT INCIDENT ittent Incident". ON END RH : Compone SWITCH	: Component Inspection		
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to <u>DLK-325</u> , "SLI the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMITT efer to <u>GI-42</u> , "Interm >> INSPECTI CHECK NEUTRAL CHECK NEUTRAL . Turn ignition switch Disconnect sliding	iding door control SWITCH <u>DING DOOR RH</u> normal? iding door lock as: FENT INCIDENT ittent Incident". ON END RH : Compone SWITCH n OFF. door lock assemb	: Component Inspection	<u>n"</u> .	
the inspection result YES >> GO TO 5. NO >> Replace sl OCHECK NEUTRAL efer to <u>DLK-325</u> , "SL the inspection result YES >> GO TO 6. NO >> Replace sl OCHECK INTERMIT efer to <u>GI-42</u> , "Interm >> INSPECTI CHECK NEUTRAL CHECK NEUTRAL . Turn ignition switch Disconnect sliding Check continuity b	iding door control SWITCH DING DOOR RH normal? iding door lock as: FENT INCIDENT ittent Incident". ON END RH : Compone SWITCH n OFF. door lock assemb etween sliding doo	: Component Inspectio sembly RH. ent Inspection	<u>n"</u> .	
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to <u>DLK-325</u> , "SL the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMIT efer to <u>GI-42</u> , "Interm >> INSPECTI CHECK NEUTRAL CHECK NEUTRAL . Turn ignition switch Disconnect sliding . Check continuity b	iding door control SWITCH DING DOOR RH normal? iding door lock as: FENT INCIDENT ittent Incident". ON END RH : Compone SWITCH n OFF. door lock assemb etween sliding doo	: Component Inspection sembly RH. ent Inspection	<u>n"</u> .	
the inspection result YES >> GO TO 5. NO >> Replace sl OCHECK NEUTRAL efer to <u>DLK-325</u> , "SL the inspection result YES >> GO TO 6. NO >> Replace sl OCHECK INTERMIT efer to <u>GI-42</u> , "Interm >> INSPECTI CHECK NEUTRAL CHECK NEUTRAL . Turn ignition switch Disconnect sliding Check continuity b	iding door control SWITCH DING DOOR RH normal? iding door lock as: FENT INCIDENT ittent Incident". ON END RH : Compone SWITCH n OFF. door lock assemb etween sliding doo	: Component Inspection sembly RH. ent Inspection	n". rminals.	INFOID:0000000096492
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK NEUTRAL efer to <u>DLK-325</u> , "SL the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMIT efer to <u>GI-42</u> , "Interm >> INSPECTI CHECK NEUTRAL CHECK NEUTRAL . Turn ignition switch Disconnect sliding . Check continuity b	iding door control SWITCH DING DOOR RH normal? iding door lock as: FENT INCIDENT ittent Incident". ON END RH : Compone SWITCH n OFF. door lock assemb etween sliding doo	: Component Inspection sembly RH. ent Inspection	n". rminals. ndition	INFOID:0000000096492

YES >> INSPECTION END

NO >> Replace sliding door lock assembly RH.

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR HANDLE SWITCH SLIDING DOOR LH

SLIDING DOOR LH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "DOR HAND SW L" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOR HAND SW L	Sliding door handle LH	Pull	ON
DOR HAND SW E		Release	OFF

Is the inspection result normal?

YES >> Sliding door handle switch is OK.

NO >> Refer to <u>DLK-326</u>, "SLIDING DOOR LH : Diagnosis Procedure".

SLIDING DOOR LH : Diagnosis Procedure

1.CHECK SLIDING DOOR HANDLE SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect remote control assembly LH connector.
- 3. Check voltage between remote control assembly LH harness connector and ground.

(+)			
Remote control	Remote control assembly LH		Voltage
Connector	Terminal		
D118	2	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING DOOR HANDLE SWITCH CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and remote control assembly LH harness connector.

Sliding door	control unit LH	Remote contro	ol assembly LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	22	D118	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door o	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	22		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to DLK-500, "LH : Removal and Installation".

NO >> Repair or replace harness.

${f 3.}$ CHECK SLIDING DOOR HANDLE SWITCH GROUND CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and remote control assembly LH harness connector.

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SLIDING DOOR HANDLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	T		e control assembly Li		Continuity		
Connector B45	Terminal 23	Connector D118	Term 1		Existed		
_		oor control unit LH harness connector and grou					
Check continuity be	etween sliding doo		amess connector	and ground			
Sliding	g door control unit LH						Continuity
Connector	Т	erminal	Ground		Continuity		
B45		23			Not existed		
ne inspection result r	normal?						
ES >> GO TO 4. D >> Repair or re	nlago harnago						
CHECK SLIDING D	eplace harness.						
Connect sliding doo Check voltage betw					nector.		
Oneek voltage betw				na groana.			
	(+)						
Sliding do	oor control unit LH		(—)		Voltage		
Connector	Termi	nal					
B45	23		Ground		0 V		
e inspection result r	<u>Iomar:</u>						
ES >> GO TO 6. IO >> Replace rei CHECK INTERMITT		mbly LH.					
ES >> GO TO 6. O >> Replace rei CHECK INTERMITT	ENT INCIDENT	mbly LH.					
ES >> GO TO 6. O >> Replace represent the contract of the cont	ENT INCIDENT	mbly LH.					
ES >> GO TO 6. O >> Replace ren CHECK INTERMITT fer to <u>GI-42, "Intermit</u> >> INSPECTIC	ENT INCIDENT ttent Incident".	-					
ES >> GO TO 6. D >> Replace rer CHECK INTERMITT er to <u>GI-42, "Intermit</u> >> INSPECTIO	ENT INCIDENT ttent Incident".	-			INF0ID:0000000		
ES >> GO TO 6. O >> Replace rep CHECK INTERMITT fer to <u>GI-42, "Intermit</u> >> INSPECTIO	ENT INCIDENT ttent Incident". DN END H : Compone	nt Inspection			INFOID:000000		
ES >> GO TO 6. O >> Replace rep CHECK INTERMITT fer to <u>GI-42, "Intermit</u> >> INSPECTIO	ENT INCIDENT ttent Incident". ON END H : Compone OOR HANDLE SV OFF. control assembly	nt Inspection VITCH LH connector.	terminals.		INFOID:000000		
S >> GO TO 6. >> Replace rep CHECK INTERMITT er to <u>GI-42. "Intermit</u> >> INSPECTION IDING DOOR L CHECK SLIDING DO Turn ignition switch Disconnect remote	ENT INCIDENT ttent Incident". DN END H : Component DOR HANDLE SV OFF. control assembly etween remote co	nt Inspection VITCH LH connector.					
ES >> GO TO 6. O >> Replace rep CHECK INTERMITT fer to <u>GI-42, "Intermit</u> >> INSPECTIO IDING DOOR L CHECK SLIDING DO Turn ignition switch Disconnect remote Check continuity be	ENT INCIDENT ttent Incident". ON END H : Component OOR HANDLE SV OFF. control assembly etween remote co	nt Inspection VITCH LH connector.	terminals. Condition		INFOID:0000000		
ES >> GO TO 6. IO >> Replace rep CHECK INTERMITT offer to GI-42, "Intermit >> INSPECTIONS IDING DOOR L CHECK SLIDING DO Turn ignition switch Disconnect remote Check continuity be Remote control as Termina	ENT INCIDENT ttent Incident". DN END H : Component DOR HANDLE SV OFF. control assembly etween remote co sembly LH	nt Inspection VITCH LH connector. ntrol assembly LH					
ES >> GO TO 6. D >> Replace rep CHECK INTERMITT er to GI-42. "Intermit >> INSPECTIONS IDING DOOR L CHECK SLIDING DO Turn ignition switch Disconnect remote Check continuity be Remote control as	ENT INCIDENT ttent Incident". DN END H : Component DOR HANDLE SV OFF. control assembly etween remote co sembly LH	nt Inspection VITCH LH connector.	Condition		Continuity		
S >> GO TO 6. >> Replace rep HECK INTERMITT r to <u>GI-42</u> , "Intermit >> INSPECTIONS DING DOOR L HECK SLIDING DO Turn ignition switch Disconnect remote Check continuity be Remote control as Termina 2	ENT INCIDENT ttent Incident". DN END H : Component DOR HANDLE SV OFF. control assembly etween remote co sembly LH 1 S	nt Inspection VITCH LH connector. ntrol assembly LH	Condition		Continuity Existed		
S >> GO TO 6. >> Replace rep HECK INTERMITT or to GI-42. "Intermit >> INSPECTION DING DOOR L HECK SLIDING DO Turn ignition switch Disconnect remote Check continuity be Remote control as Termina 2 e inspection result r S >> INSPECTION	ENT INCIDENT ttent Incident". DN END H : Component DOR HANDLE SV OFF. control assembly tween remote co sembly LH 1 s hormal?	nt Inspection VITCH LH connector. ntrol assembly LH	Condition		Continuity Existed		

SLIDING DOOR RH

SLIDING DOOR HANDLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR RH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "DOR HAND SW R" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOR HAND SW R	Sliding door handle RH	Pull	ON
		Release	OFF

Is the inspection result normal?

YES >> Sliding door handle switch is OK.

NO >> Refer to DLK-328, "SLIDING DOOR RH : Diagnosis Procedure".

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649266

1. CHECK SLIDING DOOR HANDLE SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect remote control assembly RH connector.
- 3. Check voltage between remote control assembly RH harness connector and ground.

(+	-)		
Remote contro	l assembly RH	(—)	Voltage
Connector	Terminal		
D127	2	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING DOOR HANDLE SWITCH CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and remote control assembly RH harness connector.

Sliding door	control unit RH	Remote contro	ol assembly RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	22	D127	2	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door c	ontrol unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	22		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3}$.check sliding door handle switch ground circuit

1. Disconnect sliding door control unit RH connector.

2. Check continuity between sliding door control unit RH harness connector and remote control assembly RH harness connector.

INFOID:000000009649265

SLIDING DOOR HANDLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding door c	ontrol unit RH	Remote co	ntrol assembly RH	Continuity
Connector	Terminal	Connector	Terminal	
B247	23	D127	1	Existed
. Check continuity be	etween sliding door	control unit RH harr	ness connector and g	round.
Sliding	g door control unit RH			Continuity
Connector	Tern	ninal	Ground	Continuity
B247	2	3		Not existed
the inspection result i	normal?			
YES >> GO TO 4. NO >> Repair or re	eplace harness.			
CHECK SLIDING DO	•			
			a control cocombly DI	Leonnester
			e control assembly RI	
	Ū			
	(+)			
	oor control unit RH		()	Voltage
Connector	Terminal			
	22			0 V
CHECK SLIDING DO	ding door control un DOR HANDLE SWI	it RH. Refer to <u>DLK</u> TCH	Ground -500, "RH : Removal	
s the inspection result is YES >> GO TO 5. NO >> Replace slip O.CHECK SLIDING DO Sefer to DLK-329, "SLIP S the inspection result is YES >> GO TO 6. NO >> Replace reliance	normal? ding door control un DOR HANDLE SWI DING DOOR RH : C normal? mote control assem	it RH. Refer to <u>DLK</u> TCH component Inspection	- <u>-500. "RH : Removal</u>	
s the inspection result is YES >> GO TO 5. NO >> Replace slip D.CHECK SLIDING DO Refer to DLK-329, "SLIP S the inspection result is YES >> GO TO 6.	normal? ding door control un DOR HANDLE SWI DING DOOR RH : C normal? mote control assem	it RH. Refer to <u>DLK</u> TCH component Inspection	- <u>-500. "RH : Removal</u>	
s the inspection result is YES >> GO TO 5. NO >> Replace slip O.CHECK SLIDING DO Sefer to DLK-329, "SLIP S the inspection result is YES >> GO TO 6. NO >> Replace reliance	normal? ding door control un DOR HANDLE SWI <u>DING DOOR RH : C</u> normal? mote control assem ENT INCIDENT	it RH. Refer to <u>DLK</u> TCH component Inspection	- <u>-500. "RH : Removal</u>	
s the inspection result i YES >> GO TO 5. NO >> Replace slip O.CHECK SLIDING DO Refer to DLK-329, "SLII the inspection result i YES >> GO TO 6. NO >> Replace result i O.CHECK INTERMITT Refer to GI-42, "Intermit	normal? ding door control un DOR HANDLE SWI DING DOOR RH : C normal? mote control assemi ENT INCIDENT ttent Incident".	it RH. Refer to <u>DLK</u> TCH component Inspection	- <u>-500. "RH : Removal</u>	
s the inspection result i YES >> GO TO 5. NO >> Replace slip D.CHECK SLIDING DO Refer to DLK-329, "SLIP s the inspection result if YES >> GO TO 6. NO >> Replace replace replace replace D.CHECK INTERMITT Refer to GI-42, "Intermition of the second sec	normal? ding door control un DOR HANDLE SWI DING DOOR RH : C normal? mote control assem ENT INCIDENT ttent Incident".	it RH. Refer to <u>DLK</u> TCH component Inspection	- <u>-500. "RH : Removal</u>	
s the inspection result i YES >> GO TO 5. NO >> Replace slip O.CHECK SLIDING DO Refer to DLK-329, "SLII the inspection result i YES >> GO TO 6. NO >> Replace result i O.CHECK INTERMITT Refer to GI-42, "Intermit	normal? ding door control un DOR HANDLE SWI DING DOOR RH : C normal? mote control assem ENT INCIDENT ttent Incident".	it RH. Refer to <u>DLK</u> TCH component Inspection	- <u>-500. "RH : Removal</u>	
s the inspection result i YES >> GO TO 5. NO >> Replace slip D.CHECK SLIDING DO Refer to DLK-329, "SLIP s the inspection result if YES >> GO TO 6. NO >> Replace replace replace replace D.CHECK INTERMITT Refer to GI-42, "Intermition of the second sec	normal? ding door control un DOR HANDLE SWI DING DOOR RH : C normal? mote control assem ENT INCIDENT ttent Incident". DN END H : Component	it RH. Refer to <u>DLK</u> TCH Component Inspection	- <u>-500. "RH : Removal</u>	and Installation".
s the inspection result i YES >> GO TO 5. NO >> Replace slip O.CHECK SLIDING DO Sefer to DLK-329, "SLIP S the inspection result if YES >> GO TO 6. NO >> Replace replace replace replace O.CHECK INTERMITT Sefer to GI-42, "Intermition of the second of	normal? ding door control un DOR HANDLE SWI DING DOOR RH : C normal? mote control assem ENT INCIDENT ttent Incident". DN END H : Component DOR HANDLE SWI OFF. control assembly R	it RH. Refer to <u>DLK</u> TCH <u>component Inspection</u> bly RH. : Inspection TCH H connector.	<u>-500, "RH : Removal</u> on".	and Installation".
sthe inspection result is YES >> GO TO 5. NO >> Replace slip O.CHECK SLIDING DO Stefer to DLK-329, "SLIP Sthe inspection result in YES >> GO TO 6. NO >> Replace replace replace replace O.CHECK INTERMITT Stefer to GI-42, "Intermition Stefer to GI-42, "Intermition CHECK SLIDING DO CHECK SLIDING DO Turn ignition switch Disconnect remote	normal? ding door control un DOR HANDLE SWI DING DOOR RH : Control assem ENT INCIDENT ENT INCIDENT ttent Incident". DN END H : Component OFF. control assembly R etween remote control	it RH. Refer to <u>DLK</u> TCH component Inspection bly RH. : Inspection TCH H connector. rol assembly RH ter	<u>-500, "RH : Removal</u> on". minals.	and Installation".
s the inspection result is YES >> GO TO 5. NO >> Replace slip D.CHECK SLIDING DO Refer to DLK-329, "SLIP s the inspection result is YES >> GO TO 6. NO >> Replace replace replace replace D.CHECK INTERMITT Sefer to GI-42, "Intermition Set of GI-42	normal? ding door control un DOR HANDLE SWI DING DOOR RH : Conormal? mote control assem ENT INCIDENT ttent Incident". DN END H : Component DOR HANDLE SWI OFF. control assembly Ret etween remote control	it RH. Refer to <u>DLK</u> TCH component Inspection bly RH. : Inspection TCH H connector. rol assembly RH ter	<u>-500, "RH : Removal</u> on".	and Installation".
s the inspection result is YES >> GO TO 5. NO >> Replace slip O.CHECK SLIDING DO Sefer to DLK-329, "SLIP s the inspection result in YES >> GO TO 6. NO >> Replace replace replace replace O.CHECK INTERMITT Sefer to GI-42, "Intermit >> INSPECTIO SLIDING DOOR R .CHECK SLIDING DO .CHECK continuity be .CHECK continuity be	normal? ding door control un DOR HANDLE SWIT DING DOOR RH : Control assemination DING DOOR RH : Control assemination mote control assemination ENT INCIDENT Ittent Incident". DN END H : Component DOR HANDLE SWIT OFF. control assembly RH I	it RH. Refer to <u>DLK</u> TCH component Inspection bly RH. : Inspection TCH H connector. rol assembly RH ter	<u>-500, "RH : Removal</u> on". minals.	and Installation".

NO >> Replace remote control assembly RH.

< DTC/CIRCUIT DIAGNOSIS >

CHILD LOCK STATUS SWITCH SLIDING DOOR LH

SLIDING DOOR LH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "CHILD LOCK SW" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CHILD LOCK SW	Child lock LH	LOCK	OFF
Shieb EOOK SW		UNLOCK	ON

Is the inspection result normal?

YES >> Child lock status switch is OK.

NO >> Refer to <u>DLK-330</u>, "SLIDING DOOR LH : Diagnosis Procedure".

SLIDING DOOR LH : Diagnosis Procedure

INFOID:000000009649269

INFOID-000000009649268

1.CHECK CHILD LOCK STATUS SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect remote control assembly LH connector.
- 3. Check voltage between remote control assembly LH harness connector and ground.

(+)			
Remote control	assembly LH	(—)	Voltage
Connector	Terminal		
D118	4	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK CHILD LOCK STATUS SWITCH CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and remote control assembly LH harness connector.

Sliding door o	control unit LH	Remote contro	ol assembly LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	20	D118	4	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door of	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	20		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to DLK-500, "LH : Removal and Installation".

NO >> Repair or replace harness.

3.CHECK CHILD LOCK STATUS SWITCH GROUND CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and remote control assembly LH harness connector.

DLK-330

CHILD LOCK STATUS SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding door o	control unit LH	R	Remote control as	sembly LH	Continuity
Connector	Terminal	Conr	nector	Terminal	
B45	23	D1	118	1	Existed
Check continuity be	etween sliding d	oor control unit	LH harness c	onnector and gr	ound.
Sliding	door control unit Ll	4			Continuity
Connector		Terminal	Gro	ound	Continuity
B45		23			Not existed
s the inspection result	normal?				
YES >> GO TO 4. NO >> Repair or re	eplace harness.				
	-		2		
. Connect sliding doo				ol assembly I H	connector
. Check voltage betv					
	()				
	(+)				Valtara
Connector	por control unit LH	minal	()		Voltage
CONNECION	IEI				
		23	Groupe	4	0 V
YES >> GO TO 5. NO >> Replace sli CHECK CHILD LOC Refer to <u>DLK-331, "SLI</u>	normal? ding door contro K STATUS SW DING DOOR LH	ІТСН			0 V and Installation".
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331, "SLI s the inspection result</u> YES >> GO TO 6. NO >> Replace re D.CHECK INTERMITT	normal? ding door contro K STATUS SW <u>DING DOOR LH</u> normal? mote control as ENT INCIDENT	ol unit LH. Refer ITCH <u>I : Component In</u> sembly LH.	to <u>DLK-500.</u>		
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331, "SLI</u> s the inspection result YES >> GO TO 6. NO >> Replace re D.CHECK INTERMITT	normal? ding door contro K STATUS SW <u>DING DOOR LH</u> normal? mote control as ENT INCIDENT	ol unit LH. Refer ITCH <u>I : Component In</u> sembly LH.	to <u>DLK-500.</u>		
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331, "SLI</u> s the inspection result YES >> GO TO 6. NO >> Replace re	normal? ding door contro K STATUS SW DING DOOR LH normal? mote control as ENT INCIDENT ttent Incident".	ol unit LH. Refer ITCH <u>I : Component In</u> sembly LH.	to <u>DLK-500.</u>		
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331, "SLI</u> s the inspection result YES >> GO TO 6. NO >> Replace re D.CHECK INTERMITT Refer to <u>GI-42, "Intermi</u> >> INSPECTIO	normal? ding door contro K STATUS SW DING DOOR LH normal? mote control as ENT INCIDENT ttent Incident".	ol unit LH. Refer ITCH <u>I : Component II</u> sembly LH.	to <u>DLK-500.</u>		and Installation".
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331, "SLI</u> s the inspection result YES >> GO TO 6. NO >> Replace re D.CHECK INTERMITT Refer to <u>GI-42, "Intermi</u> >> INSPECTIO SLIDING DOOR L	normal? ding door contro K STATUS SW DING DOOR LH normal? mote control as ENT INCIDENT ttent Incident". DN END H : Compon	ol unit LH. Refer ITCH <u>I : Component II</u> sembly LH.	to <u>DLK-500.</u>		
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331, "SLI</u> s the inspection result YES >> GO TO 6. NO >> Replace re D.CHECK INTERMITT Refer to <u>GI-42, "Intermi</u>	normal? ding door contro K STATUS SW DING DOOR LH normal? mote control as ENT INCIDENT ttent Incident". DN END H : Compon	ol unit LH. Refer ITCH <u>I : Component II</u> sembly LH.	to <u>DLK-500.</u>		and Installation".
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331, "SLI</u> s the inspection result YES >> GO TO 6. NO >> Replace re D.CHECK INTERMITT Refer to <u>GI-42, "Intermi</u> >> INSPECTIO SLIDING DOOR L	normal? ding door contro K STATUS SW DING DOOR LH normal? mote control as ENT INCIDENT ttent Incident". DN END H : Compon K STATUS SW OFF. control assemb	ol unit LH. Refer ITCH <u>H : Component In</u> sembly LH. r ent Inspectic ITCH	to <u>DLK-500.</u> <u>nspection"</u> . DN	"LH : Removal a	and Installation".
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331</u> , "SLI s the inspection result YES >> GO TO 6. NO >> Replace re D.CHECK INTERMITT Refer to <u>GI-42</u> , "Intermi >> INSPECTIO SLIDING DOOR L 1.CHECK CHILD LOC 1. Turn ignition switch 2. Disconnect remote	normal? ding door contro K STATUS SW DING DOOR LH normal? mote control as ENT INCIDENT ttent Incident". DN END H : Compon K STATUS SW OFF. control assemb etween remote o	ol unit LH. Refer ITCH <u>H : Component In</u> sembly LH. r ent Inspectic ITCH	to <u>DLK-500.</u> <u>Inspection"</u> . On	"LH : Removal a	and Installation".
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331</u> , "SLI s the inspection result YES >> GO TO 6. NO >> Replace re D.CHECK INTERMITT Refer to <u>GI-42</u> , "Intermi >> INSPECTIO SLIDING DOOR L 1.CHECK CHILD LOC 1. Turn ignition switch 2. Disconnect remote 3. Check continuity be	normal? ding door contro K STATUS SW DING DOOR LH normal? mote control as ENT INCIDENT ttent Incident". DN END H : Compon K STATUS SW OFF. control assemb etween remote o	ol unit LH. Refer ITCH <u>H : Component In</u> sembly LH. r ent Inspectic ITCH	to <u>DLK-500.</u> <u>nspection"</u> . DN	"LH : Removal a	and Installation".
s the inspection result YES >> GO TO 5. NO >> Replace sli D.CHECK CHILD LOC Refer to <u>DLK-331</u> , "SLI s the inspection result YES >> GO TO 6. NO >> Replace re D.CHECK INTERMITT Refer to <u>GI-42</u> , "Intermi >> INSPECTIO SLIDING DOOR L 1.CHECK CHILD LOC 1. Turn ignition switch 2. Disconnect remote 3. Check continuity be Remote control as	normal? ding door contro K STATUS SW DING DOOR LH normal? mote control as ENT INCIDENT ttent Incident". DN END H : Compon K STATUS SW OFF. control assemb etween remote o	ol unit LH. Refer ITCH <u>H : Component In</u> sembly LH. r ent Inspectic ITCH	to <u>DLK-500.</u> <u>Inspection"</u> . On	"LH : Removal a	and Installation".

SLIDING DOOR RH

CHILD LOCK STATUS SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR RH : Component Function Check

INFOID:000000009649271

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "CHILD LOCK SW" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CHILD LOCK SW	Child lock RH	LOCK	OFF
		UNLOCK	ON

Is the inspection result normal?

YES >> Child lock status switch is OK.

NO >> Refer to <u>DLK-332</u>, "SLIDING DOOR RH : Diagnosis Procedure".

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649272

1. CHECK CHILD LOCK STATUS SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect remote control assembly RH connector.
- 3. Check voltage between remote control assembly RH harness connector and ground.

(+)			
Remote contro	l assembly RH	(—)	Voltage
Connector	Terminal		
D127	4	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CHILD LOCK STATUS SWITCH CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and remote control assembly RH harness connector.

Sliding door o	control unit RH	Remote contro	ol assembly RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	20	D127	4	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door c	Sliding door control unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	20		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3}$.check child lock status switch ground circuit

1. Disconnect sliding door control unit RH connector.

2. Check continuity between sliding door control unit RH harness connector and remote control assembly RH harness connector.

CHILD LOCK STATUS SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding door	control unit RH	Remote cont	ol assembly RH	Continuity
Connector	Terminal	Connector	Terminal	
B247	23	D127	1	Existed
. Check continuity b	etween sliding door c	ontrol unit RH harne	ss connector and g	round.
Sliding	g door control unit RH			Continuity
Connector	Termi	inal	Ground	Continuity
B247	23			Not existed
the inspection result	normal?			
YES >> GO TO 4. NO >> Repair or r	eplace harness.			
			ontrol opportubly D	Loopportor
	or control unit RH cor ween sliding door con			
	Ū.		5	
	(+)			
	loor control unit RH		(-)	Voltage
Connector	Terminal			
Connector				0.1/
B247 the inspection result YES >> GO TO 5.	23 normal? iding door control uni CK STATUS SWITCH	t RH. Refer to <u>DLK-5</u>		0 V and Installation".
B247 The inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC lefer to <u>DLK-333, "SL</u> the inspection result YES >> GO TO 6.	23 normal? iding door control uni CK STATUS SWITCH IDING DOOR RH : Co normal?	t RH. Refer to <u>DLK-5</u>	00. "RH : Removal	
B247 The inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC lefer to <u>DLK-333, "SL</u> the inspection result YES >> GO TO 6.	23 normal? iding door control uni CK STATUS SWITCH IDING DOOR RH : Co normal? emote control assemb	t RH. Refer to <u>DLK-5</u>	00. "RH : Removal	
B247 the inspection result YES >> GO TO 5. NO >> Replace sl .CHECK CHILD LOO refer to DLK-333, "SL the inspection result YES >> GO TO 6. NO >> Replace result YES >> GO TO 6. NO >> Replace result .CHECK INTERMIT	23 normal? iding door control uni CK STATUS SWITCH IDING DOOR RH : Co normal? emote control assemb TENT INCIDENT	t RH. Refer to <u>DLK-5</u>	00. "RH : Removal	
B247 the inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC efer to DLK-333, "SL the inspection result YES >> GO TO 6. NO >> Replace result	23 normal? iding door control uni CK STATUS SWITCH IDING DOOR RH : Co normal? emote control assemb TENT INCIDENT	t RH. Refer to <u>DLK-5</u>	00. "RH : Removal	
B247 the inspection result YES >> GO TO 5. NO >> Replace sl .CHECK CHILD LOO refer to DLK-333, "SL the inspection result YES >> GO TO 6. NO >> Replace result YES >> GO TO 6. NO >> Replace result .CHECK INTERMIT	23 normal? iding door control uni CK STATUS SWITCH IDING DOOR RH : Co normal? emote control assemb TENT INCIDENT ittent Incident".	t RH. Refer to <u>DLK-5</u>	00. "RH : Removal	
B247 the inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC tefer to DLK-333, "SL the inspection result YES >> GO TO 6. NO >> Replace result YES >> GO TO 6. NO >> Replace result CHECK INTERMIT refer to GI-42, "Interm	23 normal? iding door control unit CK STATUS SWITCH IDING DOOR RH : Co normal? emote control assemb TENT INCIDENT ittent Incident". ON END	t RH. Refer to <u>DLK-5</u> omponent Inspection	00. "RH : Removal	
B247 the inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC efer to <u>DLK-333, "SL</u> the inspection result YES >> GO TO 6. NO >> Replace re CHECK INTERMIT refer to <u>GI-42, "Interm</u> >> INSPECTI	23 normal? iding door control unit CK STATUS SWITCH IDING DOOR RH : Co normal? emote control assemb TENT INCIDENT ittent Incident". ON END RH : Component	t RH. Refer to <u>DLK-5</u> pmponent Inspection ly RH.	00. "RH : Removal	and Installation".
B247 the inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC efer to <u>DLK-333, "SL</u> the inspection result YES >> GO TO 6. NO >> Replace re CHECK INTERMIT efer to <u>GI-42, "Interm</u> >> INSPECTI SLIDING DOOR F	23 normal? iding door control uni CK STATUS SWITCH IDING DOOR RH : Co normal? emote control assemb TENT INCIDENT ittent Incident". ON END RH : Component CK STATUS SWITCH	t RH. Refer to <u>DLK-5</u> pmponent Inspection ly RH.	00, "RH : Removal	and Installation".
B247 the inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC tefer to <u>DLK-333</u> , "SL the inspection result YES >> GO TO 6. NO >> Replace re CHECK INTERMIT tefer to <u>GI-42</u> , "Interm >> INSPECTI SLIDING DOOR F CHECK CHILD LOC Turn ignition switcl Disconnect remote	23 normal? iding door control unit CK STATUS SWITCH IDING DOOR RH : Co normal? emote control assemb TENT INCIDENT ittent Incident". ON END RH : Component CK STATUS SWITCH n OFF. e control assembly RH	t RH. Refer to <u>DLK-5</u> pomponent Inspection ly RH. Inspection	500, "RH : Removal	and Installation".
B247 the inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC tefer to <u>DLK-333</u> , "SL the inspection result YES >> GO TO 6. NO >> Replace re CHECK INTERMIT tefer to <u>GI-42</u> , "Interm >> INSPECTI SLIDING DOOR F CHECK CHILD LOC Turn ignition switcl Disconnect remote	23 normal? iding door control unit CK STATUS SWITCH IDING DOOR RH : Co normal? emote control assemb TENT INCIDENT ittent Incident". ON END RH : Component CK STATUS SWITCH n OFF.	t RH. Refer to <u>DLK-5</u> pomponent Inspection ly RH. Inspection	500, "RH : Removal	and Installation".
B247 the inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC tefer to <u>DLK-333</u> , "SL the inspection result YES >> GO TO 6. NO >> Replace re CHECK INTERMIT tefer to <u>GI-42</u> , "Interm >> INSPECTI SLIDING DOOR F CHECK CHILD LOC Turn ignition switcl Disconnect remote	23 normal? iding door control unit CK STATUS SWITCH IDING DOOR RH : Control assemb IDING DOOR RH : Control assemb TENT INCIDENT ittent Incident". ON END RH : Component CK STATUS SWITCH n OFF. a control assembly RH etween remote control	t RH. Refer to <u>DLK-5</u> <u>omponent Inspection</u> Iy RH. Inspection I connector. ol assembly RH term	inals.	and Installation".
B247 the inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC tefer to <u>DLK-333, "SL</u> the inspection result YES >> GO TO 6. NO >> Replace re CHECK INTERMIT tefer to <u>GI-42, "Interm</u> >> INSPECTI CHECK CHILD LOC . CHECK CHILD LOC . Turn ignition switcl . Check continuity b	23 normal? iding door control unit CK STATUS SWITCH IDING DOOR RH : Control assemb IDING DOOR RH : Control assemb TENT INCIDENT ittent Incident". ON END RH : Component CK STATUS SWITCH on OFF. e control assembly RH etween remote control ssembly RH	t RH. Refer to <u>DLK-5</u> <u>omponent Inspection</u> Iy RH. Inspection I connector. ol assembly RH term	500, "RH : Removal	and Installation".
B247 the inspection result YES >> GO TO 5. NO >> Replace sl CHECK CHILD LOC efer to <u>DLK-333</u> , "SL the inspection result YES >> GO TO 6. NO >> Replace re CHECK INTERMIT refer to <u>GI-42</u> , "Interm >> INSPECTI SLIDING DOOR F CHECK CHILD LOC Turn ignition switcl Disconnect remote Check continuity b Remote control a	23 normal? iding door control unit CK STATUS SWITCH IDING DOOR RH : Colspan="2">Colspan="2 inormal? emote control assemble IDING DOOR RH : Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">CON END CON END CK STATUS SWITCH n OFF. e control assembly RH al	t RH. Refer to <u>DLK-5</u> <u>omponent Inspection</u> Iy RH. Inspection I connector. ol assembly RH term	inals.	and Installation".

NO >> Replace remote control assembly RH.

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR LOCK STATUS SWITCH SLIDING DOOR LH

SLIDING DOOR LH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "KNOB LCK SW L" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
KNOB LCK SW L	Sliding door LH	LOCK	OFF
KNOD LOK SW L		UNLOCK	ON

Is the inspection result normal?

YES >> Sliding door lock status switch is OK.

NO >> Refer to <u>DLK-334</u>, "SLIDING DOOR LH : Diagnosis Procedure".

SLIDING DOOR LH : Diagnosis Procedure

INFOID:000000009649275

INFOID-000000009649274

1.CHECK SLIDING DOOR LOCK STATUS SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door lock status switch LH connector.
- 3. Check voltage between sliding door lock status switch LH harness connector and ground.

(+)			
Sliding door lock s	tatus switch LH	()	Voltage
Connector	Terminal		
D119	1	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check sliding door lock status switch circuit

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door lock status switch LH harness connector.

Sliding door	control unit LH	Sliding door lock	status switch LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	3	D119	1	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	3		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3}$. CHECK SLIDING DOOR LOCK STATUS SWITCH GROUND CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and sliding door lock status switch LH harness connector.

SLIDING DOOR LOCK STATUS SWITCH

< DTC/CIRCUIT DIAGNOSIS >

_	control unit LH		k status switch LH	Continuity
Connector	Terminal	Connector	Terminal	
B45	23	D119	3	Existed
Check continuity b	etween sliding doo	r control unit LH harnes	ss connector and g	round.
Sliding	door control unit LH			Continuity
Connector	Те	rminal	Ground	Continuity
B45		23		Not existed
the inspection result	normal?			
YES >> GO TO 4. NO >> Repair or r	eplace harness.			
	•	JS SWITCH CIRCUIT :	2	
		connector and sliding do		tch I H connector
		ontrol unit LH harness		
-	(1)		-	
Qliding d	(+) oor control unit LH		(-)	Voltage
	Termin			vollage
Connector	TOTTIM	a		
Connector B45	23	Gi	ound	0 V
B45 the inspection result YES >> GO TO 5. NO >> Replace sl O.CHECK SLIDING D	normal? iding door control u OOR LOCK STATU	init LH. Refer to <u>DLK-5</u> JS SWITCH	00, "LH : Removal	0 V and Installation".
B45 Sthe inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to DLK-331, "SLI Sthe inspection result YES >> GO TO 6. NO >> Replace sl	normal? iding door control u OOR LOCK STATU <u>DING DOOR LH :</u> normal? iding door lock actu	init LH. Refer to <u>DLK-5</u> JS SWITCH Component Inspection	00, "LH : Removal	
B45 S the inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to <u>DLK-331, "SLI</u> S the inspection result YES >> GO TO 6. NO >> Replace sl D.CHECK INTERMITT	normal? iding door control u OOR LOCK STATU <u>DING DOOR LH :</u> normal? iding door lock actu	init LH. Refer to <u>DLK-5</u> JS SWITCH Component Inspection	00, "LH : Removal	
B45 Sthe inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to DLK-331, "SLI Sthe inspection result YES >> GO TO 6. NO >> Replace sl	normal? iding door control u OOR LOCK STATU <u>DING DOOR LH :</u> normal? iding door lock actu	init LH. Refer to <u>DLK-5</u> JS SWITCH Component Inspection	00, "LH : Removal	
B45 S the inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to <u>DLK-331, "SLI</u> S the inspection result YES >> GO TO 6. NO >> Replace sl D.CHECK INTERMITT	normal? iding door control u OOR LOCK STATU DING DOOR LH : normal? iding door lock actu ENT INCIDENT ittent Incident".	init LH. Refer to <u>DLK-5</u> JS SWITCH Component Inspection	00, "LH : Removal	
B45 S the inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to <u>DLK-331, "SLI</u> S the inspection result YES >> GO TO 6. NO >> Replace sl D.CHECK INTERMITT Refer to <u>GI-42, "Interm</u>	normal? iding door control u OOR LOCK STATU DING DOOR LH : normal? iding door lock actu ENT INCIDENT ittent Incident".	unit LH. Refer to <u>DLK-5</u> JS SWITCH <u>Component Inspection</u> Jator LH.	00, "LH : Removal	
B45 S the inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to <u>DLK-331, "SLI</u> S the inspection result YES >> GO TO 6. NO >> Replace sl D.CHECK INTERMITT Refer to <u>GI-42, "Interm</u> >> INSPECTIONE SLIDING DOOR L	normal? iding door control u OOR LOCK STATU DING DOOR LH : normal? iding door lock actu "ENT INCIDENT ittent Incident". ON END .H : Componer	init LH. Refer to <u>DLK-5</u> JS SWITCH <u>Component Inspection</u> Jator LH.	00, "LH : Removal	and Installation".
B45 S the inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to <u>DLK-331, "SLI</u> S the inspection result YES >> GO TO 6. NO >> Replace sl D.CHECK INTERMITT Refer to <u>GI-42, "Interm</u> >> INSPECTIONS SLIDING DOOR L .CHECK SLIDING D	normal? iding door control u OOR LOCK STATU DING DOOR LH : normal? iding door lock actu "ENT INCIDENT ittent Incident". ON END .H : Componer OOR LOCK STATU	init LH. Refer to <u>DLK-5</u> JS SWITCH <u>Component Inspection</u> Jator LH.	00, "LH : Removal	and Installation".
B45 S the inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to <u>DLK-331, "SLI</u> S the inspection result YES >> GO TO 6. NO >> Replace sl D.CHECK INTERMITT Refer to <u>GI-42, "Interm</u> >> INSPECTIONS CHECK SLIDING DOOR L .CHECK SLIDING D . Turn ignition switch Disconnect sliding	normal? iding door control u OOR LOCK STATU DING DOOR LH : normal? iding door lock actu ENT INCIDENT ittent Incident". ON END .H : Componer OOR LOCK STATU	Init LH. Refer to <u>DLK-5</u> JS SWITCH <u>Component Inspection</u> Jator LH. It Inspection JS SWITCH	00. "LH : Removal	and Installation".
B45 S the inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to <u>DLK-331, "SLI</u> S the inspection result YES >> GO TO 6. NO >> Replace sl D.CHECK INTERMITT Refer to <u>GI-42, "Interm</u> >> INSPECTIONS CHECK SLIDING DOOR L .CHECK SLIDING D . Turn ignition switch Disconnect sliding	normal? iding door control u OOR LOCK STATU DING DOOR LH : normal? iding door lock actu ENT INCIDENT ittent Incident". ON END .H : Componer OOR LOCK STATU OOR LOCK STATU	Init LH. Refer to <u>DLK-5</u> JS SWITCH <u>Component Inspection</u> Jator LH. It Inspection JS SWITCH Vitch LH connector. r lock status switch LH	00. "LH : Removal	and Installation".
B45 s the inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to <u>DLK-331, "SLI</u> s the inspection result YES >> GO TO 6. NO >> Replace sl D.CHECK INTERMITT Refer to <u>GI-42, "Interm</u> >> INSPECTIONE CHECK SLIDING D . CHECK SLIDING D . Turn ignition switch . Disconnect sliding . Check continuity b	normal? iding door control u OOR LOCK STATU DING DOOR LH : normal? iding door lock actu ENT INCIDENT ittent Incident". ON END .H : Componer OOR LOCK STATU OOR LOCK STATU OFF. door lock status sv etween sliding doo	Init LH. Refer to <u>DLK-5</u> JS SWITCH <u>Component Inspection</u> Jator LH. It Inspection JS SWITCH Vitch LH connector. r lock status switch LH	00. "LH : Removal	and Installation".
B45 S the inspection result YES >> GO TO 5. NO >> Replace sl D.CHECK SLIDING D Refer to <u>DLK-331, "SLI</u> S the inspection result YES >> GO TO 6. NO >> Replace sl D.CHECK INTERMIT Refer to <u>GI-42, "Interm</u> >> INSPECTIONS CHECK SLIDING D . CHECK SLIDING D . Turn ignition switch Disconnect sliding . Check continuity b Sliding door lock sta	iding door control u OOR LOCK STATU DING DOOR LH : normal? iding door lock actu ENT INCIDENT ittent Incident". ON END .H : Componer OOR LOCK STATU n OFF. door lock status sw etween sliding doo	Init LH. Refer to <u>DLK-5</u> JS SWITCH <u>Component Inspection</u> Jator LH. It Inspection JS SWITCH Vitch LH connector. r lock status switch LH	00. "LH : Removal	and Installation".

NO \implies Replace sliding door lock status switch LH. SLIDING DOOR RH

SLIDING DOOR LOCK STATUS SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR RH : Component Function Check

INFOID:000000009649277

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "KNOB LCK SW R" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
KNOB LCK SW R	Sliding door RH	LOCK	OFF
		UNLOCK	ON

Is the inspection result normal?

YES >> Sliding door lock status switch is OK.

NO >> Refer to DLK-332, "SLIDING DOOR RH : Diagnosis Procedure".

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649278

1. CHECK SLIDING DOOR LOCK STATUS SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door lock status switch RH connector.
- 3. Check voltage between sliding door lock status switch RH harness connector and ground.

(+	(+)		
Sliding door lock	status switch RH	()	Voltage
Connector	Terminal		
D120	3	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SLIDING DOOR LOCK STATUS SWITCH CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door lock status switch RH harness connector.

Sliding door of	Sliding door control unit RH		Sliding door lock status switch RH	
Connector	Terminal	Connector	Terminal	Continuity
B247	3	D120	3	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door c	ontrol unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	3	-	Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

3. check sliding door lock status switch ground circuit

1. Disconnect sliding door control unit RH connector.

2. Check continuity between sliding door control unit RH harness connector and sliding door lock status switch RH harness connector.

SLIDING DOOR LOCK STATUS SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding door o	control unit RH	Sli	ding door lock sta	tus switch RH	Continuity
Connector	Terminal	Cor	nector	Terminal	Continuity
B247	23	D	120	1	Existed
Check continuity b	etween sliding o	loor control unit	RH harness c	onnector and g	round.
Sliding	door control unit R	Н			
Connector		Terminal	al Ground		Continuity
B247		23			Not existed
the inspection result	normal?				
YES >> GO TO 4.					
•	eplace harness				
.CHECK SLIDING D					
Connect sliding do Check voltage betw					
Check voltage bet	veen sluing doo			nector and gro	
	(+)				
Sliding d	oor control unit RH		()		Voltage
Connector	-	rminal			
D047		23	Ground	4	0 V
CHECK SLIDING D	normal? iding door contr OOR LOCK ST,	ol unit RH. Refe ATUS SWITCH	er to <u>DLK-500.</u>		and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK SLIDING D efer to <u>DLK-333, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl	iding door contr OOR LOCK ST/ <u>DING DOOR R</u> normal?	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH.	er to <u>DLK-500.</u>		
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK SLIDING D efer to <u>DLK-333, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMITT	normal? iding door contr OOR LOCK ST DING DOOR R normal? iding door lock a	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH.	er to <u>DLK-500.</u>		
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK SLIDING D efer to <u>DLK-333, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMITT efer to <u>GI-42, "Intermi</u>	normal? iding door contr OOR LOCK ST DING DOOR R normal? iding door lock a "ENT INCIDEN"	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH.	er to <u>DLK-500.</u>		
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK SLIDING D efer to <u>DLK-333, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMITT	normal? iding door contr OOR LOCK ST DING DOOR R normal? iding door lock a "ENT INCIDEN"	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH.	er to <u>DLK-500.</u>		
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK SLIDING D efer to <u>DLK-333, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMITT efer to <u>GI-42, "Intermi</u>	normal? iding door contr OOR LOCK ST DING DOOR R normal? iding door lock a "ENT INCIDEN" ittent Incident".	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH. T	er to <u>DLK-500.</u>		
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK SLIDING D efer to <u>DLK-333</u> , "SLI the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMITT efer to <u>GI-42</u> , "Intermined >> INSPECTION	normal? iding door contr OOR LOCK ST DING DOOR R normal? iding door lock a "ENT INCIDEN" ittent Incident". ON END RH : Compor	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH. T	er to <u>DLK-500.</u>		and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl CHECK SLIDING D efer to <u>DLK-333, "SLI</u> the inspection result YES >> GO TO 6. NO >> Replace sl CHECK INTERMITT efer to <u>GI-42, "Intermi</u> >> INSPECTIONE	iding door contr OOR LOCK ST DING DOOR R normal? iding door lock a "ENT INCIDEN" ittent Incident". ON END RH : Compor OOR LOCK ST OFF. door lock status	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH. T nent Inspecti ATUS SWITCH	er to <u>DLK-500.</u> Inspection".	"RH : Removal	and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl OCHECK SLIDING D efer to DLK-333, "SLI the inspection result YES >> GO TO 6. NO >> Replace sl OCHECK INTERMITT efer to GI-42, "Interm >> INSPECTIONS LIDING DOOR F OCHECK SLIDING D Turn ignition switch Disconnect sliding	iding door contr OOR LOCK ST, DING DOOR R normal? iding door lock a "ENT INCIDEN" ittent Incident". ON END RH : Compor OOR LOCK ST, door lock status etween sliding c	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH. T nent Inspecti ATUS SWITCH	er to <u>DLK-500.</u> Inspection". ON nector. switch RH terr	"RH : Removal	and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl OCHECK SLIDING D efer to DLK-333, "SLI the inspection result YES >> GO TO 6. NO >> Replace sli OCHECK INTERMITT efer to GI-42, "Intermi >> INSPECTIONS LIDING DOOR F OCHECK SLIDING D Turn ignition switch Disconnect sliding Check continuity b	normal? iding door contr OOR LOCK ST DING DOOR R normal? iding door lock a "ENT INCIDEN" ittent Incident". ON END RH : Compor OOR LOCK ST OOR LOCK ST OOR LOCK ST o OFF. door lock status etween sliding o	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH. T nent Inspecti ATUS SWITCH	er to <u>DLK-500.</u> Inspection".	"RH : Removal	and Installation".
the inspection result YES >> GO TO 5. NO >> Replace sl OCHECK SLIDING D efer to DLK-333, "SLI the inspection result YES >> GO TO 6. NO >> Replace sl OCHECK INTERMITT efer to GI-42, "Interm >> INSPECTIONS LIDING DOOR F OCHECK SLIDING D Turn ignition switch Disconnect sliding Check continuity bo	normal? iding door contr OOR LOCK ST DING DOOR R normal? iding door lock a "ENT INCIDEN" ittent Incident". ON END RH : Compor OOR LOCK ST OOR LOCK ST OOR LOCK ST o OFF. door lock status etween sliding o	ol unit RH. Refe ATUS SWITCH <u>H : Component</u> actuator RH. T nent Inspecti ATUS SWITCH	er to <u>DLK-500.</u> Inspection". ON nector. switch RH terr	"RH : Removal	and Installation".

YES >> INSPECTION END NO >> Replace sliding door lock actuator RH. < DTC/CIRCUIT DIAGNOSIS >

FUEL LID STATUS SWITCH

Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "F LID SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
F LID SW	Fuel filler lid status switch	ON	ON
		OFF	OFF

Is the inspection result normal?

- YES >> Fuel filler lid status switch is OK.
- NO >> Refer to <u>DLK-338</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000009649281

1. CHECK FUEL FILLER LID STATUS SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect fuel filler lid status switch connector.
- 3. Check voltage between fuel filler lid status switch harness connector and ground.

(+)	(+)		
Fuel filler lid s	tatus switch	(-)	Voltage
Connector	Terminal		
B24	2	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK FUEL FILLER LID STATUS SWITCH CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- 2. Check continuity between sliding door control unit LH harness connector and fuel filler lid status switch harness connector.

Sliding door of	Sliding door control unit LH		Fuel filler lid status switch	
Connector	Terminal	Connector	Terminal	Continuity
B45	17	B24	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door c	Sliding door control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	17		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK FUEL FILLER LID STATUS SWITCH GROUND CIRCUIT

Check continuity between fuel filler lid status switch LH harness connector and ground.

INFOID:000000009649280

FUEL LID STATUS SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	uel filler lid status s	witch		Continuity
Connector		Terminal	Ground	Continuity
B24		1		Existed
the inspection resu	lt normal?			
YES >> GO TO 4				
•	r replace harnes			
CHECK FUEL FIL				
efer to <u>DLK-339. "C</u>		<u>ection"</u> .		
s the inspection resu				
YES >> GO TO 5 NO >> Replace	fuel filler interlo	ck assembly		
CHECK INTERMI		-		
efer to <u>GI-42, "Inter</u>				
		-		
>> INSPEC	FION END			
Component Insp				
• •				INFOID:00000009
.CHECK FUEL FIL	LER LID STATI	JS SWITCH		
. Turn ignition swit				
 Disconnect fuel f Check continuity 		witch connector. ller lid status switch termina		
	between ider in		ais.	
Fuel filler lid s	tatus switch	C	ondition	Continuity
	inal	_ 00	JIGHON	Continuity
Term				
Term	1	Fuel filler lid status switch	ON	Existed

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< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR OPEN/CLOSE SWITCH FRONT LH

FRONT LH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "DRIVER SW" in "DATA MONITOR" mode.

3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DRIVER SW	Sliding door open/close switch	Pressed	ON
DRIVERSW	(front LH)	Released	OFF

Is the inspection result normal?

YES >> Sliding door open/close switch (front LH) is OK.

NO >> Refer to <u>DLK-340</u>, "FRONT LH : Diagnosis Procedure".

FRONT LH : Diagnosis Procedure

INFOID:000000009649284

INFOID-000000009649283

1. CHECK SLIDING DOOR OPEN/CLOSE SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door open/close switch (front side) connector.
- 3. Check voltage between sliding door open/close switch (front side) harness connector and ground.

(+)		
Sliding door open/clos	se switch (front side)	()	Voltage
Connector	Terminal		
M90	2	Ground	8 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SLIDING DOOR OPEN/CLOSE SWITCH CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door open/close switch (front side) harness connector.

Sliding door o	control unit LH	Sliding door open/clo	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
B45	19	M90	2	Existed	

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	19		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

 $\mathbf{3.}$ CHECK SLIDING DOOR OPEN/CLOSE SWITCH GROUND CIRCUIT

Check continuity between sliding door open/close switch (front side) harness connector and ground.

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< DTC/CIRCUIT DIAGNOSIS >

	(front side)				Continuitu
	Terminal		Ground		Continuity
	3				Existed
eplace harness OOR OPEN/CL <u>ONT LH : Com</u> r <u>normal?</u>	OSE SWITCH	ide).			
ENT INCIDEN	т				
ittent Incident".					
ON END					
ponent Insp	ection				INFOID:00000000964928
door open/clos					
switch (front side)		Cond	dition		Continuity
al		Cont			Continuity
3	Sliding door open/close s (front LH)	witch	Pressed Released		Existed Not existed
ON END iding door open iponent Fun i E DOOR RIGH W" in "DATA MO	ction Check		bllowing condition:	s.	INFOID:00000000964928
1	Condition	า		S	tatus
	•				ON
	и INП <i>)</i>	Rele	eased	(DFF
normal?		, 			
	OOR OPEN/CL ONT LH : Comp normal? iding door open FENT INCIDEN ittent Incident". ON END ponent Insp OOR OPEN/CL n OFF. door open/clos etween sliding of switch (front side) al 3 <u>normal?</u> ON END iding door open iding door open ponent Fun be DOOR RIGH W" in "DATA Mo ction operates r	normal? replace harness. OOR OPEN/CLOSE SWITCH ONT LH : Component Inspection". normal? iding door open/close switch (front site) ICENT INCIDENT ittent Incident". ON END ponent Inspection OOR OPEN/CLOSE SWITCH n OFF. door open/close switch (front side) cetween sliding door open/close switch switch (front side) al 3 Sliding door open/close s iding door open/close switch (front side) al 3 Sliding door open/close s ifront LH) normal? ON END iding door open/close switch (front side) al 3 Sliding door open/close s iding door open/close switch (front side) iding door open/close switch (front side) <td>eplace harness. OOR OPEN/CLOSE SWITCH ONT LH : Component Inspection". normal? iding door open/close switch (front side). TENT INCIDENT ittent Incident". ON END ponent Inspection OOR OPEN/CLOSE SWITCH n OFF. door open/close switch (front side) connect etween sliding door open/close switch (front switch (front side) al 3 Sliding door open/close switch (front side) connect throw LH) normal? ON END iding door open/close switch (front side). ponent Function Check A DE DOOR RIGHT" using CONSULT. W" in "DATA MONITOR" mode. ction operates normally according to the form Sliding door open/close switch (Pres</td> <td>eplace harness. OOR OPEN/CLOSE SWITCH ONT LH : Component Inspection". normal? iding door open/close switch (front side). TENT INCIDENT ittent Incident". ON END ponent Inspection OOR OPEN/CLOSE SWITCH n OFF. door open/close switch (front side) connector. etween sliding door open/close switch (front side) terminals switch (front side) a Sliding door open/close switch (front side) terminals switch (front side) a Sliding door open/close switch (front side) terminals witch (front side) a Sliding door open/close switch (front side). normal? ON END iding door open/close switch (front side). ponent Function Check M DE DOOR RIGHT" using CONSULT. W" in "DATA MONITOR" mode. ction operates normally according to the following condition: n Condition Sliding door open/close switch (Pressed</td> <td>normal? eplace harness. OOR OPEN/CLOSE SWITCH ONT LH : Component Inspection". normal? iding door open/close switch (front side). TENT INCIDENT ittent Incident". ON END ponent Inspection OOR OPEN/CLOSE SWITCH n OFF. door open/close switch (front side) connector. etween sliding door open/close switch (front side) terminals. switch (front side) al 3 Sliding door open/close switch (front side) terminals. switch (front side) al 3 Sliding door open/close switch (front side) terminals. mormal? ON END iding door open/close switch (front side). pressed Released DE DOOR RIGHT" using CONSULT. W" in "DATA MONITOR" mode. ction operates normally according to the following conditions. Sliding door open/close switch Pressed</td>	eplace harness. OOR OPEN/CLOSE SWITCH ONT LH : Component Inspection". normal? iding door open/close switch (front side). TENT INCIDENT ittent Incident". ON END ponent Inspection OOR OPEN/CLOSE SWITCH n OFF. door open/close switch (front side) connect etween sliding door open/close switch (front switch (front side) al 3 Sliding door open/close switch (front side) connect throw LH) normal? ON END iding door open/close switch (front side). ponent Function Check A DE DOOR RIGHT" using CONSULT. W" in "DATA MONITOR" mode. ction operates normally according to the form Sliding door open/close switch (Pres	eplace harness. OOR OPEN/CLOSE SWITCH ONT LH : Component Inspection". normal? iding door open/close switch (front side). TENT INCIDENT ittent Incident". ON END ponent Inspection OOR OPEN/CLOSE SWITCH n OFF. door open/close switch (front side) connector. etween sliding door open/close switch (front side) terminals switch (front side) a Sliding door open/close switch (front side) terminals switch (front side) a Sliding door open/close switch (front side) terminals witch (front side) a Sliding door open/close switch (front side). normal? ON END iding door open/close switch (front side). ponent Function Check M DE DOOR RIGHT" using CONSULT. W" in "DATA MONITOR" mode. ction operates normally according to the following condition: n Condition Sliding door open/close switch (Pressed	normal? eplace harness. OOR OPEN/CLOSE SWITCH ONT LH : Component Inspection". normal? iding door open/close switch (front side). TENT INCIDENT ittent Incident". ON END ponent Inspection OOR OPEN/CLOSE SWITCH n OFF. door open/close switch (front side) connector. etween sliding door open/close switch (front side) terminals. switch (front side) al 3 Sliding door open/close switch (front side) terminals. switch (front side) al 3 Sliding door open/close switch (front side) terminals. mormal? ON END iding door open/close switch (front side). pressed Released DE DOOR RIGHT" using CONSULT. W" in "DATA MONITOR" mode. ction operates normally according to the following conditions. Sliding door open/close switch Pressed

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< DTC/CIRCUIT DIAGNOSIS >

3. Check voltage between sliding door open/close switch (front side) harness connector and ground.

(+)	(+)		
Sliding door open/clos	se switch (front side)	()	Voltage
Connector	Terminal		
M90	1	Ground	8 – 16 V

Is the inspection result normal?

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

2.CHECK SLIDING DOOR OPEN/CLOSE SWITCH CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door open/close switch (front side) harness connector.

Sliding door of	control unit RH	Sliding door open/clo	ose switch (front side)	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B247	19	M90	1	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	19		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK SLIDING DOOR OPEN/CLOSE SWITCH GROUND CIRCUIT

Check continuity between sliding door open/close switch (front side) harness connector and ground.

Sliding door open/cl	ose switch (front side)		Continuity
Connector	Terminal	Ground	Continuity
M90	3		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING DOOR OPEN/CLOSE SWITCH

Refer to DLK-342, "FRONT RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door open/close switch (front side).

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

FRONT RH : Component Inspection

1.CHECK SLIDING DOOR OPEN/CLOSE SWITCH

3. Check continuity between sliding door open/close switch (front side) terminals.

DLK-342

INFOID:000000009649288

^{1.} Turn ignition switch OFF.

^{2.} Disconnect sliding door open/close switch (front side) connector.

< DTC/CIRCUIT DIAGNOSIS >

	(front side)	Condition		Continuity		
Terminal						
1		iding door open/close sv ont RH)	witch	Pressed	Existed	
(h = 1 = = = = = = = = = = = = = = = = =				Released	Not existed	1
the inspection result norma ES >> INSPECTION EN IO >> Replace sliding o EAR LH	ND loor open/clc	·	de).			
EAR LH : Componen					INF0ID:00000	000964928
CHECK FUNCTION						
Select "AUTO SLDE DO Select "B PILLER SW" in Check that the function of	I "DATA MOP	NITOR" mode.	the fol	lowing conditions		
Monitor item		Condition	1		Status	
	Sliding	door open/close switch	Press	ed	ON	<u> </u>
B PILLER SW	(rear LH		Relea	sed	OFF	
EAR LH : Diagnosis I	Procedure	9				
CHECK SLIDING DOOR Turn ignition switch OFF. Disconnect sliding door of Check voltage between s (+) Sliding door open/close Connector B25	OPEN/CLOS open/close sy sliding door c	SE SWITCH INPUT witch (rear LH) con open/close switch (nector	r. H) harness conne	ector and ground. Voltage 8 – 16 V	
Disconnect sliding door of Check voltage between s (+) Sliding door open/close Connector	OPEN/CLOS open/close sv sliding door o e switch (rear L Termir 1 al? OPEN/CLOS control unit L en sliding do	SE SWITCH INPUT witch (rear LH) con open/close switch (H) hal SE SWITCH CIRCU H connector.	inector rear L (- Grou	r. H) harness conne	ector and ground. Voltage 8 – 16 V	
Turn ignition switch OFF. Disconnect sliding door of Check voltage between s (+) Sliding door open/close Connector B25 the inspection result norma (ES >> GO TO 3. IO >> GO TO 3. IO >> GO TO 2. CHECK SLIDING DOOR (Disconnect sliding door of Check continuity betwee	OPEN/CLOS open/close sy sliding door o e switch (rear Ll Termir 1 al? OPEN/CLOS control unit Ll en sliding do connector.	SE SWITCH INPUT	inector (rear Ll (- Grou	r. H) harness conne	ector and ground. Voltage 8 – 16 V	
Turn ignition switch OFF. Disconnect sliding door of Check voltage between s (+) Sliding door open/close Connector B25 the inspection result norma ES >> GO TO 3. IO >> GO TO 3. IO >> GO TO 2. CHECK SLIDING DOOR of Disconnect sliding door of Check continuity betwee switch (rear LH) harness	OPEN/CLOS open/close sy sliding door o e switch (rear Ll Termir 1 al? OPEN/CLOS control unit Ll en sliding do connector.	SE SWITCH INPUT	inector (rear Ll (- Grou	r. H) harness conne	ector and ground. Voltage 8 – 16 V	
Turn ignition switch OFF. Disconnect sliding door of Check voltage between s (+) Sliding door open/close Connector B25 the inspection result norma (ES >> GO TO 3. IO >> GO TO 3. IO >> GO TO 2. CHECK SLIDING DOOR (Disconnect sliding door of Check continuity betwee switch (rear LH) harness	OPEN/CLOS oppen/close sv sliding door o e switch (rear L Termin 1 al? OPEN/CLOS control unit L en sliding do connector.	SE SWITCH INPUT	inector (rear Ll (- Grou	r. H) harness conne) und ess connector ar	ector and ground. Voltage 8 – 16 V	
Turn ignition switch OFF. Disconnect sliding door of Check voltage between s (+) Sliding door open/close Connector B25 the inspection result normation result normation (Check Science) (ES >> GO TO 3. NO >> GO TO 2. CHECK SLIDING DOOR (Check continuity between switch (rear LH) harness Sliding door control (Connector) Sliding door control (Connector)	OPEN/CLOS open/close sv sliding door o e switch (rear L Termin 1 al? OPEN/CLOS control unit L en sliding do connector. unit LH Terminal 2	SE SWITCH INPUT	Inector (rear L (- Grou JIT	r. H) harness conne) und ess connector ar ose switch (rear LH) Terminal 1	ector and ground. Voltage 8 – 16 V d sliding door open Continuity Existed	
Turn ignition switch OFF. Disconnect sliding door of Check voltage between s (+) Sliding door open/close Connector B25 the inspection result normation result normation (Check SLIDING DOOR Of Check continuity betweet switch (rear LH) harness Sliding door control Connector B1 Check continuity betweet switch (rear LH) harness Sliding door control Connector B45 Check continuity betweet	OPEN/CLOS open/close sv sliding door o e switch (rear L Termin 1 al? OPEN/CLOS control unit L en sliding do connector. unit LH Terminal 2 n sliding doo control unit LH	SE SWITCH INPUT	Inector (rear L (- Grou JIT	r. H) harness conne) und ess connector ar ose switch (rear LH) Terminal 1	ector and ground. Voltage 8 – 16 V d sliding door open Continuity Existed	

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.
- NO >> Repair or replace harness.

$\mathbf{3}$.check sliding door open/close switch ground circuit

Check continuity between sliding door open/close switch (rear LH) harness connector and ground.

Sliding door open/c	lose switch (rear LH)		Continuity
Connector	Terminal	Ground	Continuity
B25	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING DOOR OPEN/CLOSE SWITCH

Refer to DLK-344, "REAR LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door open/close switch (rear LH).

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

REAR LH : Component Inspection

1.CHECK SLIDING DOOR OPEN/CLOSE SWITCH

1. Turn ignition switch OFF.

- 2. Disconnect sliding door open/close switch (rear LH) connector.
- 3. Check continuity between sliding door open/close switch (rear LH) terminals.

Sliding door open/close switch (rear LH)		Condition		Continuity	
Term	ninal	Con		Continuity	
1	2	Sliding door open/close switch	Pressed	Existed	
I	2	(rear LH)	Released	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door open/close switch (rear LH).

REAR RH

REAR RH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "B PILLER SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
B PILLER SW	Sliding door open/close switch	Pressed	ON
	(rear RH)	Released	OFF

Is the inspection result normal?

YES >> Sliding door open/close switch (rear RH) is OK.

NO >> Refer to <u>DLK-343</u>, "REAR LH : Diagnosis Procedure".

DLK-344

INFOID:000000009649292

INFOID:000000009649291

< DTC/CIRCUIT DIAGNOSIS > **REAR RH : Diagnosis Procedure**

INFOID:000000009649293

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 $1. {\sf check \ sliding \ door \ open/close \ switch \ input \ signal}$

- Turn ignition switch OFF. 1.
- 2.

Disconnect sliding door open/close switch (rear RH) connector. Check voltage between sliding door open/close switch (rear RH) harness connector and ground. 3.

	(+)				
Sliding door oper	n/close switch (rear RH)		()		Voltage
Connector	Terminal				
B206	1		Ground	d	8 – 16 V
the inspection result n	ormal?				
'ES >> GO TO 3.					
IO >> GO TO 2.					
CHECK SLIDING DO			RCUIT		
Disconnect sliding d Check continuity be			RH harnes	s connector and	sliding door open/cl
switch (rear RH) har	ness connector.				
Sliding door co	ontrol unit RH	Sliding do	oor open/close	switch (rear RH)	
Connector	Terminal	Connec	-	Terminal	- Continuity
B247	2	B206	6	1	Existed
Check continuity bet	tween sliding door c	control unit R	H harness c	connector and gro	und.
Olidiaa					
Connector	door control unit RH	inal	C	round	Continuity
Connector	Ieim	inai	Ground		
B2/7	2				Not ovistod
B247	2 ormol2				Not existed
the inspection result n	ormal?		0 DI K-500	"RH · Removal a	
the inspection result n	ormal? ling door control uni		o <u>DLK-500.</u>	"RH : Removal a	
the inspection result n 'ES >> Replace slid	ormal? ling door control uni place harness.	t RH. Refer t			
the inspection result n ′ES >> Replace slid IO >> Repair or rep	ormal? ling door control uni place harness. OR OPEN/CLOSE	t RH. Refer t	OUND CIR	CUIT	nd Installation".
the inspection result n ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee	ormal? ling door control uni place harness. POR OPEN/CLOSE n sliding door open/	t RH. Refer t SWITCH GR /close switch	OUND CIR	CUIT	nd Installation".
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o	ormal? ling door control uni place harness. DOR OPEN/CLOSE In sliding door open/	t RH. Refer t SWITCH GR /close switch	OUND CIR (rear RH) h	CUIT narness connector	nd Installation".
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o Connector	ormal? ling door control uni place harness. OR OPEN/CLOSE n sliding door open/ pen/close switch (rear R	t RH. Refer to SWITCH GR /close switch RH) inal	OUND CIR (rear RH) h	CUIT	nd Installation". r and ground. Continuity
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o Connector B206	ormal? ling door control uni place harness. OR OPEN/CLOSE in sliding door open/ pen/close switch (rear R Term 2	t RH. Refer to SWITCH GR /close switch RH) inal	OUND CIR (rear RH) h	CUIT narness connector	nd Installation".
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o Connector B206 the inspection result n	ormal? ling door control uni place harness. OR OPEN/CLOSE in sliding door open/ pen/close switch (rear R Term 2	t RH. Refer to SWITCH GR /close switch RH) inal	OUND CIR (rear RH) h	CUIT narness connector	nd Installation". r and ground. Continuity
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o Connector B206 the inspection result n (ES >> GO TO 4.	ormal? ling door control uni place harness. OR OPEN/CLOSE in sliding door open/ pen/close switch (rear R Term 2 ormal?	t RH. Refer to SWITCH GR /close switch RH) inal	OUND CIR (rear RH) h	CUIT narness connector	nd Installation". r and ground. Continuity
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o Connector B206 the inspection result n (ES >> GO TO 4. IO >> Repair or rep	ormal? ling door control uni place harness. OR OPEN/CLOSE in sliding door open/ pen/close switch (rear R Term 2 ormal? place harness.	t RH. Refer to SWITCH GR /close switch RH) inal	OUND CIR (rear RH) h	CUIT narness connector	nd Installation". r and ground. Continuity
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o Connector B206 the inspection result n (ES >> GO TO 4. IO >> Repair or rep CHECK SLIDING DO	ormal? ling door control uni place harness. OR OPEN/CLOSE in sliding door open/ pen/close switch (rear R Term 2 ormal? place harness.	t RH. Refer to SWITCH GR /close switch RH) inal	OUND CIR (rear RH) h	CUIT narness connector	nd Installation". r and ground. Continuity
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o Connector B206 the inspection result n (ES >> GO TO 4. IO >> Repair or rep	ormal? ling door control uni place harness. OR OPEN/CLOSE in sliding door open/ pen/close switch (rear R Term 2 ormal? place harness. OR OPEN/CLOSE R RH : Component	t RH. Refer to SWITCH GR /close switch RH) inal	OUND CIR (rear RH) h	CUIT narness connector	nd Installation". r and ground. Continuity
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o Connector B206 the inspection result n (ES >> GO TO 4. IO >> Repair or rep CHECK SLIDING DO efer to <u>DLK-346, "REA</u> the inspection result n (ES >> GO TO 5.	ormal? ling door control uni place harness. OR OPEN/CLOSE in sliding door open/ pen/close switch (rear R Term 2 ormal? place harness. OR OPEN/CLOSE R RH : Component ormal?	t RH. Refer to SWITCH GR /close switch RH) inal SWITCH Inspection".	COUND CIR (rear RH) h	CUIT narness connector	nd Installation". r and ground. Continuity
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO the continuity betwee Sliding door o Connector B206 the inspection result n (ES >> GO TO 4. IO >> Repair or rep CHECK SLIDING DO efer to <u>DLK-346, "REA</u> the inspection result n (ES >> GO TO 5. IO >> Replace slid	ormal? ling door control uni place harness. OR OPEN/CLOSE in sliding door open/ pen/close switch (rear R Term 2 ormal? place harness. OR OPEN/CLOSE <u>R RH : Component</u> ormal? ling door open/close	t RH. Refer to SWITCH GR /close switch RH) inal SWITCH Inspection".	COUND CIR (rear RH) h	CUIT narness connector	nd Installation". r and ground. Continuity
the inspection result n (ES >> Replace slid IO >> Repair or rep CHECK SLIDING DO neck continuity betwee Sliding door o Connector B206 the inspection result n (ES >> GO TO 4. IO >> Repair or rep CHECK SLIDING DO efer to <u>DLK-346, "REA</u> the inspection result n (ES >> GO TO 5.	ormal? ling door control uni place harness. OR OPEN/CLOSE in sliding door open/ pen/close switch (rear R Term 2 ormal? place harness. OR OPEN/CLOSE <u>R RH : Component</u> ormal? ling door open/close	t RH. Refer to SWITCH GR /close switch RH) inal SWITCH Inspection".	COUND CIR (rear RH) h	CUIT narness connector	nd Installation". r and ground. Continuity

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

REAR RH : Component Inspection

INFOID:000000009649294

1. CHECK SLIDING DOOR OPEN/CLOSE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door open/close switch (rear RH) connector.
- 3. Check continuity between sliding door open/close switch (rear RH) terminals.

Sliding door open/close switch (rear RH)		Condition		Continuity	
Tern	ninal	Condition		Continuity	
1	2	Sliding door open/close switch	Pressed	Existed	
I	2	(rear RH)	Released	Not existed	

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace sliding door open/close switch (rear RH).

SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH < DTC/CIRCUIT DIAGNOSIS > SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH SLIDING DOOR LH SLIDING DOOR LH : Component Function Check

1.CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "ONE-TOUCH SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	I	Status
ONE-TOUCH SW	Sliding door one-touch open/	Pressed	ON
UNE-TOUCH SW	close switch LH	Released	OFF
the inspection result normal	?		
	ouch open/close switch is OK , "SLIDING DOOR LH : Diagn		
LIDING DOOR LH : D	iagnosis Procedure		INFOID:0000000964925
	NE-TOUCH OPEN/CLOSE S		
			IGNAL
Turn ignition switch OFF.			
Disconnect sliding door of	ne-touch open/close switch LH	l connector.	
	iding door one-touch open/clc		ness connector and ground.
5	5		5
(+)			
Sliding door one-touch op	en/close switch LH	(-)	Voltage
Connector	Terminal		
D125	1	Ground	8 – 16 V
-	•	Ground	8 – 16 V
s the inspection result normal	•	Ground	8 – 16 V
s the inspection result normal YES >> GO TO 3.	•	Ground	8 – 16 V
the inspection result normal YES >> GO TO 3. NO >> GO TO 2.	<u>?</u>		
the inspection result normal YES >> GO TO 3. NO >> GO TO 2.	•		
s the inspection result normal YES >> GO TO 3. NO >> GO TO 2. CHECK SLIDING DOOR C	? DNE-TOUCH OPEN/CLOSE S		
the inspection result normal YES >> GO TO 3. NO >> GO TO 2. CHECK SLIDING DOOR C Disconnect sliding door co	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WITCH CIRCUIT	
s the inspection result normal YES >> GO TO 3. NO >> GO TO 2. CHECK SLIDING DOOR C Disconnect sliding door co Check continuity between	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WITCH CIRCUIT	-
s the inspection result normal YES >> GO TO 3. NO >> GO TO 2. CHECK SLIDING DOOR C Disconnect sliding door co	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WITCH CIRCUIT	

_	Sliding door control unit LH		Sliding door one-touch open/close switch LH		Continuity	M
	Connector	Terminal	Connector	Terminal	Continuity	
	B45	14	D125	1	Existed	
				· · ·		' N

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity	_
 Connector	Terminal	Ground	Continuity	0
 B45	14		Not existed	_

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

$\mathbf{3.}$ CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH GROUND CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and sliding door one-touch open/ close switch LH harness connector.

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SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding door o	Sliding door control unit LH		n open/close switch LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	23	D125	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

-	Sliding door of	control unit LH		Continuity
-	Connector	Terminal	Ground	Continuity
-	B45	23		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH CIRCUIT 2

Connect sliding door control unit LH connector and sliding door one-touch open/close switch LH connector.

2. Check voltage between sliding door one-touch open/close switch LH harness connector and ground.

(+)	(+) Sliding door control unit LH			
Sliding door co			Voltage	
Connector	Terminal			
B45	23	Ground	0 V	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

5.check sliding door one-touch open/close switch

Refer to DLK-348, "SLIDING DOOR LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door one-touch open/close switch LH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR LH : Component Inspection

INFOID:000000009649297

1. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door one-touch open/close switch LH connector.
- 3. Check continuity between sliding door one-touch open/close switch LH terminals.

Sliding door one-touch open/close switch LH Terminal		Condition		Continuity	
Tem	lillai				
1	2	Sliding door one-touch open/	Pressed	Existed	
	2	close switch LH	Released	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door one-touch open/close switch LH.

SLIDING DOOR RH

DLK-348

SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Select "AUTO SLDE DOOR F Select "ONE-TOUCH SW" in Check that the function opera	"DATA MONITOR" mo	ode.	bllowing condition	ons.	
Monitor item	Con	dition		Status	
ONE-TOUCH SW	Sliding door one-touch op			ON	
	close switch RH	Rele	eased	OFF	
the inspection result normal? YES >> Sliding door one-touc NO >> Refer to <u>DLK-347, "S</u> LIDING DOOR RH : Diag .CHECK SLIDING DOOR ONE	LIDING DOOR LH : D gnosis Procedure	iagnosis I			C/D:0000000964925
 Turn ignition switch OFF. Disconnect sliding door one-t Check voltage between slidin 				s connector and	ground.
(+) Sliding door one-touch open/cl			()	Voltago	
Connector	Terminal	()		Voltage	
D126	1	Gr	Ground 8 – 16 V		
. Disconnect sliding door contr	ol unit RH connector. iding door control un s connector.	it RH har		RH	
Disconnect sliding door contr Check continuity between sl open/close switch RH harnes Sliding door control unit R	ol unit RH connector. iding door control un s connector.	it RH har	ness connecto		
Disconnect sliding door contr Check continuity between sl open/close switch RH harnes Sliding door control unit R Connector Ter B247	ol unit RH connector. iding door control un s connector. H Sliding do minal Conn 14 D1:	it RH har or one-touc ector 26	ness connector h open/close switch Terminal 1	RH Contir	nuity
Disconnect sliding door contr Check continuity between sl open/close switch RH harnes Sliding door control unit R Connector Ter B247	ol unit RH connector. iding door control un s connector. H Sliding do minal Conn 14 D1:	it RH har or one-touc ector 26	ness connector h open/close switch Terminal 1	RH Contir	nuity
Disconnect sliding door contr Check continuity between sl open/close switch RH harnes Sliding door control unit R Connector Ter B247	ol unit RH connector. iding door control un s connector. H Sliding do minal Conn 14 D1: ding door control unit F	it RH har or one-touc ector 26	ness connector h open/close switch Terminal 1	ARH Contir Exist d ground.	nuity ted
Check continuity between sl open/close switch RH harnes Sliding door control unit R Connector Terr B247 Check continuity between slide	ol unit RH connector. iding door control un s connector. H Sliding do minal Conn 14 D1: ding door control unit F	it RH har or one-touc ector 26	ness connector h open/close switch Terminal 1	RH Contir	nuity ted
Disconnect sliding door contr Check continuity between sl open/close switch RH harnes Sliding door control unit R Connector Ter B247 Check continuity between slid Sliding door control	ol unit RH connector. iding door control un s connector. H Sliding do minal Conn 14 D1: ding door control unit F	it RH har or one-touc ector 26	ness connector h open/close switch Terminal 1 ss connector an	ARH Contir Exist d ground.	nuity ted ity

SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding door o	control unit RH	Sliding door one-touch	n open/close switch RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	23	D126	2	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door of	control unit RH		Continuity
 Connector	Terminal	Ground	Continuity
 B247	23		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH CIRCUIT 2

 Connect sliding door control unit RH connector and sliding door one-touch open/close switch RH connector.

2. Check voltage between sliding door one-touch open/close switch RH harness connector and ground.

(+)				
Sliding door co	Sliding door control unit RH		Voltage	
Connector	Terminal			
B247	23	Ground	0 V	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

5.check sliding door one-touch open/close switch

Refer to DLK-350, "SLIDING DOOR RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door one-touch open/close switch RH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR RH : Component Inspection

INFOID:000000009649300

1. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door one-touch open/close switch RH connector.
- 3. Check continuity between sliding door one-touch open/close switch RH terminals.

Sliding door one-touch open/close switch RH Terminal		Condition		Continuity
1	2	Sliding door one-touch open/	Pressed	Existed
·	2	close switch RH	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door one-touch open/close switch RH.

SLIDING DOOR TOUCH SENSOR

<pre>< DTC/CIRCI SLIDING</pre>			SENS	OR				
SLIDING [Door Li	4						
SLIDING E	OOR LH	: Comp	onent F	unction	Check			INFOID:000000009649301
1.CHECK FU	JNCTION							
2. Select "T	UTO SLIDE OUCH SEN at the function	LH" in "DA	TĂ MONI	TOR" mod		owing conditio	ns.	
Мо	nitor item			С	ondition			Status
TOUCH SEI	N LH	Sliding	door touch	sensor LH	Other than	below		OFF
					Detect obst	ruction		ON
Is the inspect YES >> S NO >> R SLIDING E	liding door t efer to <u>DLK</u>	ouch sens -351, "SLII	DING DOC		agnosis Pr	ocedure".		INFOID:000000009649302
1.снеск si		- Dr touch	I SENSOI	R INPUT S	SIGNAL			
2. Check vo	ion switch C Itage betwe connector.		door touc	n sensor L	H harness.	connector an	d slidin	g door control unit LH
(+)		—)					
	touch sensor .H		r control uni _H	t	Co	ndition		Voltage
Connector	Terminal	Connector	Terminal					
D172	1	B45	23	Sliding c sensor L	oor touch H	Detect obstruct		0 – 1.5 V 4 – 8 V
2.CHECK SI 1. Disconne 2. Check cc	O TO 3. O TO 2. LIDING DOO ct sliding do	OR TOUCH	unit LH ar	d sliding d	loor touch	sensor LH cor s connector a		ng door touch sensor
	Niding door oo			0	iding door to			
	Sliding door co	Term	inal		nector	ich sensor LH Terminal		Continuity
B4	15	24		D	172	1		Existed
3. Check co	ntinuity betw	ween slidin	g door coi	ntrol unit L	H harness	connector and	d groun	d.
	Sliding d	oor control ur	nit LH					Continuity
Co	onnector		Terminal		G	round		
lo the increst	B45		24					Not existed
	eplace slidi epair or rep	ng door co lace harne	SS.), "LH : Remov Γ	<u>al and</u>	Installation".

1. Disconnect sliding door control unit LH and sliding door touch sensor LH connectors.

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SLIDING DOOR TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

Sliding door	Sliding door control unit LH		Sliding door touch sensor LH		
Connector	Terminal	Connector	Terminal	Continuity	
B45	23	D172	2	Existed	

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door o	control unit LH		Continuity	
 Connector	Terminal	Ground	Continuity	
 B45	23	1	Not existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING DOOR TOUCH SENSOR GROUND CIRCUIT 2

1. Connect sliding door control unit LH connector and sliding door touch sensor LH connector.

2. Check voltage between sliding door control unit LH harness connector and ground.

	(+)			
Sliding door	control unit LH	()	Voltage	
Connector	Terminal			
B45	23	Ground	0 V	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

5.CHECK SLIDING DOOR TOUCH SENSOR

Refer to DLK-352, "SLIDING DOOR LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door touch sensor LH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR LH : Component Inspection

1. CHECK SLIDING DOOR TOUCH SENSOR LH

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

	Sliding door touch sensor LH Terminal		Condition		Resistance
					Resistance
	1	2	Sliding door touch sen-	Detect obstruction	120 Ω or less
	I	2	sor RH	Other than above	1 k $\Omega \pm$ 10%

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door touch sensor LH.

SLIDING DOOR RH

INFOID:000000009649303

< DTC/CIRCUIT DIAGNOSIS > **SLIDING DOOR RH : Component Function Check** INFOID:00000009649304 А **1.**CHECK FUNCTION Select "AUTO SLIDE DOOR RIGHT" using CONSULT. 1. В Select "TOUCH SEN RH" in "DATA MONITOR" mode. 2. 3. Check that the function operates normally according to the following conditions. Condition Monitor item Status OFF Other than below TOUCH SEN RH Sliding door touch sensor RH Detect obstruction ON Is the inspection result normal? YES >> Sliding door touch sensor is OK. NO >> Refer to DLK-353, "SLIDING DOOR RH : Diagnosis Procedure". SLIDING DOOR RH : Diagnosis Procedure INFOID:000000009649305 1.CHECK SLIDING DOOR TOUCH SENSOR INPUT SIGNAL F 1. Turn ignition switch OFF. Check voltage between sliding door touch sensor RH harness connector and sliding door control unit RH 2. harness connector. (+)(-) Sliding door touch sensor Sliding door control unit Н Condition Voltage RH RH Connector Terminal Connector Terminal 0-1.5 V Detect obstruction Sliding door touch D173 1 R247 23 sensor RH 4 – 8 V Other than above Is the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. 2. CHECK SLIDING DOOR TOUCH SENSOR CIRCUIT DLK 1. Disconnect sliding door control unit RH connector and sliding door touch sensor RH connector. Check continuity between sliding door control unit RH harness connector and sliding door touch sensor 2. RH harness connector. L Sliding door control unit RH Sliding door touch sensor RH Continuity Connector Terminal Terminal Connector M B247 24 D173 1 Existed Check continuity between sliding door control unit RH harness connector and ground. 3 Ν Sliding door control unit RH Continuity Connector Terminal Ground B247 24 Not existed Is the inspection result normal? YES >> Replace sliding door control unit RH. Refer to DLK-500, "LH : Removal and Installation". Ρ NO >> Repair or replace harness. ${f 3.}$ check sliding door touch sensor ground circuit 1. Disconnect sliding door control unit RH connector and sliding door touch sensor RH connectors. Check continuity between sliding door control unit RH harness connector and sliding door touch sensor 2. RH harness connector.

DLK-353

SLIDING DOOR TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Sliding door o	Sliding door control unit RH		Sliding door touch sensor RH		
Connector	Terminal	Connector	Terminal	Continuity	
B247	23	D173	2	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

 Sliding door o	control unit RH		Continuity	
 Connector Terminal		Ground	Continuity	
B247	23		Not existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING DOOR TOUCH SENSOR GROUND CIRCUIT 2

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

(+)				
Sliding door o	control unit RH	(-)	Voltage	
Connector	Terminal			
B247	23	Ground	0 V	

Is the inspection result normal?

YES >> GO TO 5.

NO	>> Replace sliding	door control unit RH	. Refer to DLK-500,	<u>"LH : Remova</u>	al and Installation".
----	--------------------	----------------------	---------------------	---------------------	-----------------------

5.check sliding door touch sensor

Refer to DLK-354, "SLIDING DOOR RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door touch sensor RH.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR RH : Component Inspection

INFOID:000000009649306

1. CHECK SLIDING DOOR TOUCH SENSOR RH

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

	Sliding door touch sensor RH Terminal		Condition		Resistance
					Resistance
	1	2	Sliding door touch sen- sor RH	Detect obstruction	120 Ω or less
	I	2		Other than above	1 k $\Omega \pm$ 10%

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door touch sensor RH.

CLUTCH

	LH : Compo	nent Functior	h Check		INF0ID:00000000964930
	-				
I. Select "AUTO SLI		na CONSULT.			
 Select "CLUTCH" Touch "HOLD" and 	in "ACTIVE TE	ST" mode.	rke normally		
s the inspection result			iks normally		
YES >> Clutch is (
		<u>NG DOOR LH : I</u>		<u>ocedure"</u> .	
	-	sis procedure	;		INFOID:00000000964930
1.CHECK CLUTCH I					
 Turn ignition switc Disconnect autom 		r unit I H connect	or		
				connector and gro	ound.
(+)					
Automatic sliding	door unit LH	(—)		Condition	Voltage
Connector	Terminal				
B33	2	Ground	Clutch	ON	9 – 16 V
s the inspection result	t normal?			OFF	0 V
YES >> GO TO 3.					
NO >> GO TO 2.					
	ı door control uı				
1. Disconnect sliding		door control unit	: LH harness	s connector and au	tomatic sliding door uni
1. Disconnect sliding	between sliding	door control unit	LH harness	s connector and au	tomatic sliding door uni
2. Check continuity I LH harness conne	between sliding		LH harness		_
 Disconnect sliding Check continuity I LH harness conne 	between sliding ector.	A			tomatic sliding door uni
1. Disconnect sliding 2. Check continuity I LH harness conne Sliding door Connector B47	control unit LH	A Con E	utomatic sliding nector	g door unit LH Terminal 2	Continuity Existed
1. Disconnect sliding 2. Check continuity I LH harness conne Sliding door Connector B47	control unit LH	A Con E	utomatic sliding nector	g door unit LH Terminal	Continuity Existed
 Disconnect sliding Check continuity I LH harness connector Sliding door Connector B47 Check continuity I 	control unit LH	A Con E door control unit	utomatic sliding nector	g door unit LH Terminal 2	Continuity Existed und.
 Disconnect sliding Check continuity I LH harness connector Sliding door Connector B47 Check continuity I 	oetween sliding ector.	A Con E door control unit	utomatic sliding nector	g door unit LH Terminal 2	Continuity Existed
Disconnect sliding Check continuity is LH harness connect Sliding door Connector B47 Check continuity is Sliding Connector B47	Detween sliding ector. Control unit LH Terminal 47 Detween sliding ng door control uni	A Con E door control unit	utomatic sliding nector	g door unit LH Terminal 2 connector and grou	Continuity Existed und.
 Disconnect sliding Check continuity is LH harness connector Sliding door Connector B47 Check continuity is Sliding Connector B47 Sliding Sliding	Detween sliding ector.	A Con E door control unit t LH Terminal 47	LH harness	g door unit LH Terminal 2 connector and grou Ground	Continuity Existed und. Continuity Not existed
 Disconnect sliding Check continuity is LH harness connector Sliding door Connector B47 Check continuity is Sliding Connector B47 Sliding Sliding	Detween sliding ector.	A Con E door control unit t LH Terminal 47 trol unit LH. Refe	LH harness	g door unit LH Terminal 2 connector and grou	Continuity Existed und. Continuity Not existed

CLUTCH

< DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit LH		Automatic slidi	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B47	44	B33	1	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B47	44		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK CLUTCH CIRCUIT 2

1. Connect sliding door control unit LH connector and automatic sliding door unit LH connector.

2. Check voltage between sliding door control unit LH harness connector and ground.

(+) Sliding door control unit LH				
		(-)	Voltage	
Connector	Terminal			
B47	44	Ground	0 V	

Is the inspection result normal?

YES >> Replace automatic sliding door unit LH.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

SLIDING DOOR RH

SLIDING DOOR RH : Component Function Check

1.CHECK FUNCTION

1. Select "AUTO SLIDE DOOR RIGHT" using CONSULT.

- 2. Select "CLUTCH" in "ACTIVE TEST" mode.
- 3. Touch "HOLD" and "RELEASE" to check that it works normally.

Is the inspection result normal?

YES >> Clutch is OK.

NO >> Refer to <u>DLK-355, "SLIDING DOOR LH : Diagnosis Procedure"</u>.

SLIDING DOOR RH : Diagnosis Procedure

1.CHECK CLUTCH INPUT SIGNAL

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

(+) Automatic sliding door unit RH			Condition		
		(-)			Voltage
Connector	Terminal				
P245	2	Ground	Clutch	ON	9 – 16 V
B245	2	Ground	Ciulon	OFF	0 V

Is the inspection result normal?

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

2. CHECK CLUTCH CIRCUIT

INFOID:000000009649310

INFOID:000000009649309

CLUTCH

< DTC/CIRCUIT DIAGNOSIS >

1. Disconnect sliding door control unit RH connector.

 Check continuity between sliding door control unit RH harness connector and automatic sliding door unit A RH harness connector.

	Sliding door o	control unit RH	Automatic sliding door unit RH		Continuity	В
-	Connector	Terminal	Connector	Terminal	Continuity	
-	B249	47	B245	2	Existed	
、 '		·		· · ·	- L	C

3. Check continuity between sliding door control unit RH harness connector and ground.

-	Sliding door o	control unit RH		Continuity	
_	Connector	Terminal	Ground	Continuity	D
_	B249	47		Not existed	-

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to DLK-500, "RH : Removal and Installation".

NO >> Repair or replace harness.

3.CHECK CLUTCH GROUND CIRCUIT

1. Disconnect sliding door control unit RH connector.

 Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door control unit RH		Automatic slidi	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B249	44	B245	1	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity	
Connector	Terminal	Ground	Continuity	1
B249	44		Not existed	0

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK CLUTCH CIRCUIT 2

1. Connect sliding door control unit RH connector and automatic sliding door unit RH connector.

2. Check voltage between sliding door control unit RH harness connector and ground.

(+	(+) Sliding door control unit RH		Voltage	M
Sliding door co				
Connector	Terminal			N
B249	44	Ground	0 V	

Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

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AUTOMATIC SLIDING DOOR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC SLIDING DOOR MOTOR SLIDING DOOR LH

SLIDING DOOR LH : Diagnosis Procedure

INFOID:000000009649311

1. CHECK AUTOMATIC SLIDING DOOR MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect sliding door control unit LH connector.

3. Check voltage between sliding door control unit LH harness connector and ground.

	(+) Sliding door control unit LH		Condition		Voltage
Connector	Terminal				
B47	43	Ground	Sliding door I H	Open operate	9 – 16 V
647	46	Ground	Sliding door LH	Close operate	9 – 16 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

2.CHECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT

- 1. Disconnect automatic sliding door unit LH connector.
- Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door control unit LH		Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B47	43	B33	3	Existed
	46	000	4	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	Sliding door control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B47	43		Not existed
D47	46		NOI EXISIED

Is the inspection result normal?

YES >> Replace automatic sliding door unit LH.

NO >> Repair or replace harness.

SLIDING DOOR RH

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649312

1. CHECK AUTOMATIC SLIDING DOOR MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect sliding door control unit RH connector.

3. Check voltage between sliding door control unit RH harness connector and ground.

(+)					Voltage	
Sliding door control unit RH		(–) Condition		dition		
Connector	Terminal					
B249	43	Ground	Sliding door PH	Open operate	9 – 16 V	
D249	46	Ground Sliding door RH		Close operate	9 - 10 V	

AUTOMATIC SLIDING DOOR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

YE	•	ormal? ng door control unit RH. SLIDING DOOR MOTC		<u>0, "LH : Ren</u>	noval and li	nstallation".	A
1. 2.	Check continuity betw RH harness connector		ol unit RH harnes		and autom	atic sliding door uni	t C
	Sliding door con		Automatic sliding door unit RH		Continuity	Continuity	
	Connector	Terminal	Connector	Termin	al	-	D
	B249	43	B245	4		Existed	
	D249	46	D243	3		EXISTED	
3.	Check continuity betw	veen sliding door contro	ol unit RH harness	s connector a	and ground		E
_	Sliding door	control unit RH				Orationity	
-	Connector	Terminal				Continuity	F
		43	Ground	a			
	B249	16			Ν	Not existed	

Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

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NO >> Repair or replace harness.

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SLIDING DOOR LOCK RELEASE ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING DOOR LOCK RELEASE ACTUATOR SLIDING DOOR LH

SLIDING DOOR LH : Diagnosis Procedure

INFOID:000000009649313

1.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect sliding door lock release actuator LH connector.

3. Check voltage between sliding door lock release actuator LH harness connector and ground.

(+)			
Sliding door lock r	elease actuator LH	()	Voltage
Connector	Terminal		
D121	1	Ground	9 – 16 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 4.

2.check sliding door lock release actuator circuit

- 1. Disconnect sliding door control unit LH connector.
- 2. Check continuity between sliding door control unit LH harness connector and sliding door lock release actuator LH harness connector.

Sliding door control unit LH		Sliding door lock r	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B46	39	D121	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B46	39		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR CIRCUIT 2

1. Connect sliding door control unit LH connector and sliding door lock release actuator LH connector.

2. Check voltage between sliding door control unit LH harness connector and ground.

(+)			
Sliding door o	control unit LH	(–)	Voltage
Connector	Terminal		
B46	39	Ground	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

4.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR GROUND CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and sliding door lock release actuator LH harness connector.

SLIDING DOOR LOCK RELEASE ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

B46	40	D121	1	Existed
-	etween sliding door co		-	
			ood connoctor and gr	
Sliding do	or control unit LH			Continuity
Connector	Terminal	Gr	ound	
B46	40			Not existed
	iding door control unit eplace harness. ΓΕΝΤ INCIDENT	LH. Refer to <u>DLK</u> -	500, "LH : Removal a	and Installation".
>> INSPECTI SLIDING DOOR SLIDING DOOR F	RH	ocedure		INFCID:00000000964931
.CHECK SLIDING D	OOR LOCK RELEAS	E ACTUATOR INF	UT SIGNAL	
	door lock release actu ween sliding door lock (+)			r and ground.
Sliding doo	r lock release actuator RH		()	Voltage
Connector	Termina	al		
D122	1		Ground	9 – 16 V
 Check continuity b 	OOR LOCK RELEAS	connector.		sliding door lock release
actuator RH harne	control unit RH	Sliding door loc	k release actuator RH	
		Connector	Terminal	Continuity
	Terminal		2	Existed
Sliding door o	Ierminal 39	D122	-	
Sliding door o Connector B248				round.
Sliding door of Connector B248 B. Check continuity b	39 etween sliding door co			round.
Sliding door of Connector B248 B. Check continuity b Sliding do	39 etween sliding door co or control unit RH	ontrol unit RH harn	ess connector and g	Continuity
Sliding door of Connector B248 . Check continuity b	39 etween sliding door co	ontrol unit RH harn		

3.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR CIRCUIT 2

1. Connect sliding door control unit RH connector and sliding door lock release actuator RH connector.

SLIDING DOOR LOCK RELEASE ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

2. Check voltage between sliding door control unit RH harness connector and ground.

(*	(+)		
Sliding door o	Sliding door control unit RH		Voltage
Connector	Terminal		
B248	39	Ground	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

4. CHECK SLIDING DOOR LOCK RELEASE ACTUATOR GROUND CIRCUIT

1. Disconnect sliding door control unit RH connector.

2. Check continuity between sliding door control unit RH harness connector and sliding door lock release actuator RH harness connector.

Sliding door o	control unit RH	rol unit RH Sliding door lock release actuator RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B248	40	D122	1	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B248	40		Not existed

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >
SLIDING DOOR CLOSURE MOTOR
SLIDING DOOR LH

SLIDING DOOR LH : Diagnosis Procedure

1. CHECK SLIDING DOOR CLOSURE MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect sliding door control unit LH connector.

3. Check voltage between sliding door control unit LH harness connector and ground.

Sliding	(+) Sliding door control unit LH		(-)	Condition		Voltage	D
Connecto		Terminal	()			ge	F
B46	34	34	Ground	Sliding door clo-	Closure operation	9 – 16 V	
D40		35	Ground	sure motor LH	Return operation	9 - 16 V	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

2.CHECK SLIDING DOOR CLOSURE MOTOR CIRCUIT

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

Sliding door control unit LH		Sliding door lock assembly LH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B46	34	D123	4	Existed	
	35	0123	1	LXISIEU	

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity	DLK
Connector	Terminal	Ground	Continuity	
B46 –	34	Ground	Not existed	_
	35		NOLEXISLEO	

Is the inspection result normal?

YES >> Replace sliding door lock assembly LH.

NO >> Repair or replace harness.

SLIDING DOOR RH

SLIDING DOOR RH : Diagnosis Procedure

1. CHECK SLIDING DOOR CLOSURE MOTOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door control unit RH connector.

3. Check voltage between sliding door control unit RH harness connector and ground.

(+)				
Sliding door control unit RH		()	Condition		Voltage
Connector	Terminal				
B248	34	Ground	Sliding door clo-	Closure operation	9 – 16 V
B248	35	Ground	sure motor RH Return operation		9 - 10 V

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INFOID:000000009649315

SLIDING DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-500, "RH : Removal and Installation"</u>.

2. CHECK SLIDING DOOR CLOSURE MOTOR CIRCUIT

1. Disconnect sliding door lock assembly RH connector.

 Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

Sliding door control unit RH		Sliding door lock assembly RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B248	34	D124	4	Eviptod
D240	35	D124 1	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding doo	Sliding door control unit RH		Continuity
Connector	Terminal	Cround	Continuity
B248	34	Ground	Not ovisted
	35	- Not	Not existed

Is the inspection result normal?

YES >> Replace sliding door lock assembly RH.

NO >> Repair or replace harness.

AUTOMATIC SLIDING DOOR WARNING BUZZER	
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< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC SLIDING DOOR WARNING BUZZER SLIDING DOOR LH

SLIDING DOOR LH : Diagnosis Procedure

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INFOID:000000009649317

1.CHECK FUSE

1. Turn ignition switch OFF.

2. Check 10 A fuse, [No.9, located in fuse block (J/B)]

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER INPUT SIGNAL

1. Disconnect automatic sliding door warning buzzer LH connector.

2. Check voltage between automatic sliding door warning buzzer LH harness connector and ground.

	(+) Automatic sliding door warning buzzer LH				F
			()	Voltage	
	Connector	Terminal			
	B27	1	Ground	8 – 16 V	G

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 ${f 3.}$ CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER CIRCUIT

1. Disconnect sliding door control unit LH connector.

 Check continuity between sliding door control unit LH harness connector and automatic sliding door warning buzzer LH harness connector.

 Sliding door of	control unit LH	Automatic sliding do	or warning buzzer LH	Continuity	J
 Connector	Terminal	Connector	Terminal	Continuity	
 B45	8	B27	2	Existed	DL

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity	L	
	Connector	Terminal	Ground	Continuity	
	B45	8		Not existed	ЪЛ

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER

Refer to DLK-365, "SLIDING DOOR LH : Component Inspection"

Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-500, "LH : Removal and Installation"</u>.

NO >> Repair or replace harness.

SLIDING DOOR LH : Component Inspection

1.CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER

1. Turn ignition switch OFF.

2. Disconnect automatic sliding door warning buzzer LH connector.

Check battery power supply directly to automatic sliding door warning buzzer LH terminals and check the operation.

DLK-365

INFOID:000000009649318

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AUTOMATIC SLIDING DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

Automatic s	liding door warnir	ng buzzer LH		
	Terminal			Operation
(+)		(-)		
1		2	B	Suzzer sounds
s the inspection result normal	<u>?</u>			
YES >> INSPECTION ENI				
NO >> Replace automation	sliding door	warning buzzer LH.		
SLIDING DOOR RH				
SLIDING DOOR RH : D	iagnosis P	rocedure		INFOID:000000096493
LCHECK FUSE				
. Turn ignition switch OFF.				
2. Check 10 A fuse, [No.9, lo	cated in fuse	block (J/B)]		
s the inspection result normal	<u>?</u>			
YES >> GO TO 2.				
NO >> Replace the blowr		•		/n.
2.CHECK AUTOMATIC SLID	ING DOOR W	ARNING BUZZER	INPUT SIGNAL	
1. Disconnect automatic slidi	ng door warni	ng buzzer RH conn	ector.	
2. Check voltage between au				ector and ground.
(+)	· · · -			
Automatic sliding door	-		(-)	Voltage
Connector	Termina	al		
B203	1		Ground	8 – 16 V
s the inspection result normal	<u>?</u>			
YES >> GO TO 3.				
NO >> Repair or replace				
3. CHECK AUTOMATIC SLID	ING DOOR W	ARNING BUZZER	CIRCUIT	
. Disconnect sliding door co	ntrol unit RH	connector.		
2. Check continuity between	n sliding door	control unit RH ha	arness connector and	d automatic sliding doo
warning buzzer RH harnes	ss connector.			
Sliding door control un	it RH	Automatic sliding of	loor warning buzzer RH	
Connector	Terminal	Connector	Terminal	- Continuity
B247	8	B203	2	Existed
Check continuity between	sliding door o	ontrol unit RH harne	ess connector and arc	
. Check continuity between			see connector and gre	
Sliding door control	unit PH			

Sliding door c	ontrol unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	8		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER

Refer to DLK-367, "SLIDING DOOR RH : Component Inspection"

Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to DLK-500, "RH : Removal and Installation".

NO >> Repair or replace harness.

DLK-366

AUTOMATIC SLIDING DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >	SLIDING DOOR WARNIN	
SLIDING DOOR RH : Compo	onent Inspection	INFOID:00000009649320
1. CHECK AUTOMATIC SLIDING DC	OOR WARNING BUZZER	
 Turn ignition switch OFF. Disconnect automatic sliding door 	r warning buzzer RH connector.	g buzzer RH terminals and check the
Automatic sliding doc	or warning buzzer RH	
Tern	ninal	Operation
(+)	(-)	
1	2	Buzzer sounds

Revision: 2014 May

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH < SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

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

ALL DOOR : Description

INFOID:000000009649321

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

ALL DOOR : Diagnosis Procedure

INFOID:000000009649322

1.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

- With automatic sliding door system: Refer to <u>DLK-245</u>, "WITH AUTOMATIC SLIDING DOOR : <u>Component Function Check</u>".
- Without automatic sliding door system: Refer to <u>DLK-245, "WITHOUT AUTOMATIC SLIDING DOOR :</u> <u>Component Function Check"</u>.

Is the inspection result normal?

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

2. CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side). Refer to DLK-249, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

3.REPLACE BCM

- 1. Replace BCM. Refer to BCS-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DRIVER SIDE

DRIVER SIDE : Description

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

DRIVER SIDE : Diagnosis Procedure

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side). Refer to <u>DLK-249, "DRIVER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DLK-368

INFOID:000000009649323

INFOID:000000009649324

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

< SYMPTOM DIAGNOSIS >	
PASSENGER SIDE	
PASSENGER SIDE : Description	A INFOID:000000009649325
Passenger side door does not lock/unlock using door lock and unlock switch.	В
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000009649326
1. CHECK DOOR LOCK ACTUATOR	С
Check front door lock assembly (passenger side). Refer to <u>DLK-250, "PASSENGER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	D
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.REPLACE BCM	E
1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u> .	
 Confirm the operation after replacement. Is the result normal? 	F
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . SLIDING DOOR LH	G
SLIDING DOOR LH : Description	INFOID:000000009649327
Rear LH side door does not lock/unlock using door lock and unlock switch.	
SLIDING DOOR LH : Diagnosis Procedure	INFOID:000000009649328
1. CHECK DOOR LOCK ACTUATOR	
Check sliding door lock assembly LH. Refer to <u>DLK-252, "WITH AUTOMATIC SLIDING DOOR : Component Function Check"</u> (with ing door system), <u>DLK-255, "WITHOUT AUTOMATIC SLIDING DOOR : Component Function</u>	J automatic slid-
out automatic sliding door system). <u>Is the inspection result normal?</u>	n <u>Check"</u> (with-
out automatic sliding door system).	
out automatic sliding door system). <u>Is the inspection result normal?</u> YES >> GO TO 2.	
out automatic sliding door system). Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK SELECTIVE UNLOCK RELAY Check selective unlock relay.	
out automatic sliding door system). <u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CHECK SELECTIVE UNLOCK RELAY	DLł L
out automatic sliding door system). Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK SELECTIVE UNLOCK RELAY Check selective unlock relay. Refer to DLK-257, "Component Function Check". Is the inspection result normal? YES >> GO TO 3.	DLł L
out automatic sliding door system). Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK SELECTIVE UNLOCK RELAY Check selective unlock relay. Refer to DLK-257, "Component Function Check". Is the inspection result normal?	DLł L M
out automatic sliding door system). Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK SELECTIVE UNLOCK RELAY Check selective unlock relay. Refer to DLK-257, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.REPLACE BCM 1. Replace BCM. Refer to BCS-98, "Removal and Installation". 2. Confirm the operation after replacement.	DLł L M
out automatic sliding door system). Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK SELECTIVE UNLOCK RELAY Check selective unlock relay. Refer to DLK-257, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.REPLACE BCM 1. Replace BCM. Refer to BCS-98, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	DLł L M N
out automatic sliding door system). Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK SELECTIVE UNLOCK RELAY Check selective unlock relay. Refer to DLK-257, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.REPLACE BCM 1. Replace BCM. Refer to BCS-98, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END	DLł L M N O
out automatic sliding door system). Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK SELECTIVE UNLOCK RELAY Check selective unlock relay. Refer to DLK-257, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.REPLACE BCM 1. Replace BCM. Refer to BCS-98, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	DLł L M N O

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

< SYMPTOM DIAGNOSIS >

SLIDING DOOR RH : Diagnosis Procedure

INFOID:000000009649330

1.CHECK DOOR LOCK ACTUATOR

Check sliding door lock assembly RH.

Refer to <u>DLK-252</u>, "WITH AUTOMATIC SLIDING DOOR : Component Function Check" (with automatic sliding door system), <u>DLK-255</u>, "WITHOUT AUTOMATIC SLIDING DOOR : Component Function Check" (without automatic sliding door system).

Is the inspection result normal?

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

2.REPLACE BCM

- 1. Replace BCM. Refer to BCS-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION < SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure	⁴⁹³³¹ B
1. CHECK POWER DOOR LOCK OPERATION	D
Check power door lock operation.	C
Does door lock/unlock with door lock and unlock switch?	0
YES >> GO TO 2. NO >> Refer to <u>DLK-368</u> , " <u>ALL DOOR : Diagnosis Procedure</u> ".	D
2. CHECK DOOR KEY CYLINDER SWITCH	
Check door key cylinder switch. Refer to <u>DLK-261, "WITH AUTOMATIC SLIDING DOOR : Component Function Check"</u> (with automatic slidi door), <u>DLK-262, "WITHOUT AUTOMATIC SLIDING DOOR : Component Function Check"</u> (without automa sliding door).	
Is the inspection result normal?	F
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. REPLACE BCM	G
 Replace BCM. Refer to <u>BCS-98. "Removal and Installation"</u>. Confirm the operation after replacement. <u>Is the result normal?</u> YES >> INSPECTION END 	Н
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	I

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWI	ТСН
< SYMPTOM DIAGNOSIS >	
DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWI	ТСН
ALL DOOR REQUEST SWITCHES	
ALL DOOR REQUEST SWITCHES : Description	INFOID:000000009649332
All doors do not lock/unlock using all door request switches.	
ALL DOOR REQUEST SWITCHES : Diagnosis Procedure	INFOID:000000009649333
1.CHECK REMOTE KEYLESS ENTRY FUNCTION	
Check remote keyless entry function.	
<u>Does door lock/unlock with Intelligent Key button?</u> YES >> GO TO 2.	
NO >> Refer to <u>DLK-265, "Component Function Check"</u> .	
2. CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT"	
 Select "INTELLIGENT KEY" of "BCM" using CONSULT. Select "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT" mode. Check "LOCK/UNLOCK BY I-KEY" setting in "WORK SUPPORT". Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)"</u>. 	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Set "ON" in "LOCK/UNLOCK BY I-KEY".	
3. CHECK INSIDE KEY ANTENNA	
 Check inside key antenna. Instrument center: Refer to <u>DLK-226, "DTC Logic"</u>. Console: Refer to <u>DLK-228, "DTC Logic"</u>. Luggage room: Refer to <u>DLK-230, "DTC Logic"</u>. 	
<u>Is the inspection result normal?</u> YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4. CHECK OUTSIDE KEY ANTENNA	
 Check outside key antenna. Driver side: Refer to <u>DLK-234, "DTC Logic"</u>. Passenger side: Refer to <u>DLK-232, "DTC Logic"</u>. Rear bumper: Refer to <u>DLK-236, "DTC Logic"</u>. Is the inspection result normal? YES >> GO TO 5. 	
NO >> Repair or replace the malfunctioning parts. 5.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>. 	
 Confirm the operation after replacement. 	
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
DRIVER SIDE DOOR REQUEST SWITCH	
DRIVER SIDE DOOR REQUEST SWITCH : Description	INFOID:000000009649334
All doors do not lock/unlock using driver side door request switch.	
DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure	INFOID:000000009649335
1.CHECK DOOR REQUEST SWITCH	

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >	
Check front door request switch (driver side). Refer to <u>DLK-267, "Component Function Check"</u> .	A
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	В
2.CHECK OUTSIDE KEY ANTENNA	
Check outside key antenna (driver side). Refer to <u>DLK-234, "DTC Logic"</u> .	С
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	D
3. Replace BCM	
 Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>. Confirm the operation after replacement. 	E
Is the result normal?	
YES >> INSPECTION END	F
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . PASSENGER SIDE DOOR REQUEST SWITCH	0
PASSENGER SIDE DOOR REQUEST SWITCH : Description	G 000009649336
All doors do not lock/unlock using passenger side door request switch.	Н
PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure	
1.CHECK DOOR REQUEST SWITCH	I
Check front door request switch (passenger side). Refer to <u>DLK-267, "Component Function Check"</u> .	
Is the inspection result normal?	J
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts. 2.CHECK OUTSIDE KEY ANTENNA	DLK
Check outside key antenna (passenger side). Refer to DLK-232, "DTC Logic".	
Is the inspection result normal?	L
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	M
3.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-98. "Removal and Installation"</u>. Confirm the operation after replacement. 	Ν
Is the result normal?	
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	0
BACK DOOR REQUEST SWITCH	
BACK DOOR REQUEST SWITCH : Description	000009649338 P
All doors do not lock/unlock using back door request switch.	
BACK DOOR REQUEST SWITCH : Diagnosis Procedure	00009649339
1.CHECK BACK DOOR REQUEST SWITCH	
Check back door request switch.	

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

Refer to DLK-269, "Component Function Check".

Is the inspection result normal?

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

2. CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (rear bumper). Rear bumper: Refer to <u>DLK-236, "DTC Logic"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KET	А
Diagnosis Procedure	
1.CHECK INTELLIGENT KEY	В
For Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.	
Does the Intelligent Key belong to the vehicle to checked?	С
YES >> GO TO 2. NO >> Check Intelligent Key button operation with registered Intelligent Key belonging to the vehicle.	
NO >> Check Intelligent Key button operation with registered Intelligent Key belonging to the vehicle. 2.CHECK INTELLIGENT KEY LOW BATTERY WARNING	D
Check that the Intelligent Key low battery warning is operated.	
Is the Intelligent Key low battery warning operated?	E
YES >> GO TO 6. NO-1 >> With another registered Intelligent Key: GO TO 3. NO-2 >> Without another registered Intelligent Key: GO TO 4.	F
3. CHECK INTELLIGENT KEY BUTTON OPERATION	I
Check that door lock and unlock can be performed by operating the buttons of another registered Intelligent Key.	G
Can door lock and unlock be performed with another registered Intelligent Key?	
YES >> GO TO 4. NO >> GO TO 7.	Н
4. CHECK ENGINE START	
While depressing the brake pedal, contact the backside of the Intelligent Key that cannot be used to perform door lock and unlock operation to the push-button ignition switch. Operate the push-button ignition switch, and check that the vehicle is in START status.	I
Is the vehicle in START status?	J
YES >> GO TO 6. NO >> GO TO 5.	
5. CHECK INTELLIGENT KEY	DLK
Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage.	
Is the vehicle in START status?	L
YES >> GO TO 6.	
NO >> Replace Intelligent Key. 6.CHECK INTELLIGENT KEY BATTERY	M
Check the Intelligent Key battery. Refer to <u>DLK-275, "Component Function Check"</u> .	Ν
Is the inspection result normal?	IN
YES >> GO TO 7. NO >> Replace Intelligent Key battery.	
7. CHECK POWER DOOR LOCK OPERATION	0
Check door lock/unlock using door lock and unlock switch.	
Does door lock/unlock using door lock and unlock switch?	Ρ
YES >> GO TO 8. NO >> Refer to <u>DLK-368</u> , " <u>ALL DOOR : Diagnosis Procedure</u> ".	
8. CHECK REMOTE KEYLESS ENTRY RECEIVER	
Check remote keyless entry receiver.	
Refer to DLK-265, "Component Function Check".	

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace the malfunctioning parts.

9. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-241, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 10.

NO >> Repair or replace the malfunctioning parts.

10.REPLACE INTELLIGENT KEY

1. Replace Intelligent Key.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Replace BCM. Refer to <u>BCS-98. "Removal and Installation"</u>.

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

Diagnosis Procedure	A
1.снеск отс with всм	В
Check that DTC is not detected with BCM.	
Is the inspection result normal?	
YES >> GO TO 2.	С
NO >> Refer to <u>BCS-63, "DTC Index"</u> .	
2. CHECK POWER DOOR LOCK OPERATION	D
Check power door lock operation.	
Does door lock/unlock with door lock and unlock switch?	
YES >> GO TO 3.	E
NO >> Refer to <u>DLK-368, "ALL DOOR : Diagnosis Procedure"</u> .	
3. CHECK DOOR SWITCH	_
Check door switch	F
Refer to DLK-241, "Component Function Check"	
Is the inspection result normal?	G
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. CHECK BACK DOOR SWITCH	
	Н
Check door switch	
Refer to <u>DLK-243, "Component Function Check"</u> .	I
<u>Is the inspection result normal?</u> YES >> GO TO 5.	I
NO >> Repair or replace the malfunctioning parts.	
5. REPLACE BCM	J
1. Replace BCM. Refer to BCS-98, "Removal and Installation".	
2. Confirm the operation after replacement.	DLł
Is the result normal?	DEr
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	L

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SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009649342

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

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode.
- 3. Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".
- Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM DOOR LOCK)"</u>.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Set "On" in "DOOR LOCK-UNLOCK SET".

2.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident"</u>.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	
AUTO DOOR LOCK OPERATION DOES NOT OPERATE	^
Diagnosis Procedure	А
1. CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT"	В
 Select "INTELLIGENT KEY" of "BCM" using CONSULT. Select "AUTO LOCK SET" in "WORK SUPPORT" mode. Check "AUTO LOCK SET" setting in "WORK SUPPORT". Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)"</u>. 	С
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Set "MODE 2", "MODE 3", "MODE 4", "MODE 5", "MODE 6" or "MODE 7" in "AUTO LOCK SET".	D
2.REPLACE BCM	_
 Replace BCM. Refer to <u>BCS-98. "Removal and Installation"</u>. Confirm the operation after replacement. 	
<u>Is the result normal?</u> YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	F
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VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPER-ATE

Diagnosis Procedure

INFOID:000000009649344

1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "Lock Only" or "Lock/Unlock" in "WORK SUPPORT".

2.CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT".
- Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM DOOR LOCK)</u>".

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Set "VH SPD" in "AUTOMATIC DOOR LOCK SELECT".

3.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS >

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009649345

А

1. Select "DOOR LOCK" of "BCM" using CONSULT.	
 Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)"</u>. 	С
Is the inspection result normal?	
YES >> GO TO 2. NO >> Set "Unlock Only" or "Lock/Unlock" in "AUTOMATIC LOCK/UNLOCK SELECT".	D
2. CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"	_
 Select "DOOR LOCK" of "BCM" using CONSULT. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC DOOR UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)"</u>. 	F
Is the inspection result normal?	
YES >> GO TO 3. NO >> Set "MODE 1" or "MODE 3" in "AUTOMATIC DOOR UNLOCK SELECT". 3. REPLACE BCM	G
 Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>. Confirm the operation after replacement. 	Н
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:000000009649346

- **1.**CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"
- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)"</u>.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Set "Unlock Only", "Lock Only" or "Lock/Unlock" in "AUTOMATIC LOCK/UNLOCK SELECT".

2.CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT".
- Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM DOOR LOCK)"</u>.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Set "P RANGE" in "AUTOMATIC DOOR LOCK SELECT".

 ${f 3.}$ CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC DOOR UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)"</u>.

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Set "MODE 2" or "MODE 4" in "AUTOMATIC DOOR UNLOCK SELECT".

4.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to GI-42. "Intermittent Incident".

HAZARD AND HORN REMINDER DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS > HAZARD AND HORN REMINDER DOES NOT OPERATE	
Diagnosis Procedure	INFOID:000000009649347
1.CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"	
 Select "INTELLIGENT KEY" of "BCM" using CONSULT. Select "HAZARD ANSWER BACK" in "WORK SUPPORT" mode. Check the "HAZARD ANSWER BACK" setting in "WORK SUPPORT". Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)</u> 	".
Is the inspection result normal? YES >> GO TO 2. NO >> Set the "Lock Only", "Unlock Only" or "Lock/Unlock" in "HAZARD ANSWER BACK 2.CHECK "HORN WITH KEYLESS LOCK" SETTING IN "WORK SUPPORT"	_
 Select "INTELLIGENT KEY" of "BCM" using CONSULT. Select "HORN WITH KEYLESS LOCK" in "WORK SUPPORT" mode. Check the "HORN WITH KEYLESS LOCK" in "WORK SUPPORT". Refer to <u>DLK-95. "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)</u> 	<u>"</u>
Is the inspection result normal? YES >> GO TO 3. NO >> Set the "On" in "HORN WITH KEYLESS LOCK". 3.CHECK HAZARD FUNCTION	
Check hazard function.	
Refer to <u>DLK-279, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. CHECK HORN FUNCTION	
Check horn function. Refer to <u>SEC-120, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	
5.REPLACE BCM	
1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u> .	
Confirm the operation after replacement.Is the result normal?	
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	

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HAZARD AND BUZZER REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009649348

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

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "HAZARD ANSWER BACK" in "WORK SUPPORT" mode.
- 3. Check the "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set the "Lock Only", "Unlock Only" or "Lock/Unlock" in "HAZARD ANSWER BACK".

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

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "ANS BACK I-KEY LOCK" in "WORK SUPPORT" mode.

 Check the "ANS BACK I-KEY LOCK"setting in "WORK SUPPORT". Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)"</u>.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Set the "Horn Chirp" or "Buzzer" in "ANS BACK I-KEY LOCK".

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

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- Select "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT" mode.
 Check the "ANS BACK I-KEY UNLOCK" setting in "WORK SUPPORT".

Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)"</u>.

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Set the "On" in "ANS BACK I-KEY UNLOCK".

4.CHECK HAZARD FUNCTION

Check hazard function.

Refer to DLK-279, "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-273</u>, "Component Function Check".

Is the inspection result normal?

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

6.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure	A INFOID:000000009649349
1.снеск отс with всм	В
Check that DTC is not detected with BCM.	
Is the inspection result normal?	
YES >> GO TO 2.	С
NO >> Refer to <u>BCS-63, "DTC Index"</u> .	
2.CHECK "ANTI KEY LOCK IN FUNCTI" SETTING IN "WORK SUPPORT"	D
 Select "INTELLIGENT KEY" of "BCM" using CONSULT. Select "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT" mode. Check "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT". Refer to <u>DLK-95, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)"</u>. 	E
Is the inspection result normal?	
YES >> GO TO 3. NO >> Set "On" in "ANTI KEY LOCK IN FUNCTI".	F
3. CHECK DOOR SWITCH	
Check door switch Refer to DLK-241, "Component Function Check".	G
Is the inspection result normal?	
YES >> GO TO 4.	Н
NO >> Repair or replace the malfunctioning parts.	
4. CHECK INSIDE KEY ANTENNA	
 Check inside key antenna. Instrument center: Refer to <u>DLK-226</u>, "<u>DTC Logic</u>". 	
Console: Refer to <u>DLK-228, "DTC Logic"</u> .	
 Luggage room: Refer to <u>DLK-230, "DTC Logic"</u>. 	J
Is the inspection result normal?	_
YES >> GO TO 5.	DL
NO >> Repair or replace the malfunctioning parts.	
5. CHECK UNLOCK SENSOR	
Check unlock sensor.	L
Refer to <u>DLK-259, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 6.	M
NO >> Repair or replace the malfunctioning parts.	
6.REPLACE BCM	N.I
1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u> .	N
2. Confirm the operation after replacement.	
Is the result normal?	0
YES >> INSPECTION END	Ũ
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
	D

OFF POSITION WARNING DOES NOT OPERATE
OFF POSITION WARNING DOES NOT OPERATE
Diagnosis Procedure
1. CHECK DTC WITH BCM AND COMBINATION METER
Check that DTC is not detected with BCM and combination meter.
<u>Is the inspection result normal?</u> YES >> GO TO 2.
NO-1 >> Refer to <u>BCS-63, "DTC Index"</u> (BCM).
NO-2 >> Refer to <u>MWI-48, "DTC Index"</u> (combination meter). 2.CHECK COMBINATION METER BUZZER
Check combination meter buzzer.
Refer to DLK-276, "Component Function Check".
<u>Is the inspection result normal?</u> 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-273, "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 front door switch (driver side). Refer to <u>DLK-241, "Component Function Check"</u> .
Is the inspection result normal?
YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts. 5.REPLACE BCM
1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u> .
2. Confirm the operation after replacement.
<u>Is the result normal?</u> YES >> INSPECTION END
NO >> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident"</u> .

P POSITION WARNING DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS > P POSITION WARNING DOES NOT OPERATE	•
Diagnosis Procedure	A
1. CHECK DTC WITH BCM, TCM AND COMBINATION METER	В
Check that DTC is not detected with BCM, TCM and combination meter.	
Is the inspection result normal? YES >> GO TO 2.	С
NO-1 >> Refer to <u>BCS-63, "DTC Index"</u> (BCM). NO-2 >> Refer to <u>TM-48, "DTC Index"</u> (TCM). NO-3 >> Refer to <u>MWI-48, "DTC Index"</u> (Combination meter).	D
2.CHECK COMBINATION METER BUZZER	
Check combination meter buzzer. Refer to <u>DLK-276. "Component Function Check"</u> .	E
Is the inspection result normal? YES >> GO TO 3.	F
NO >> Repair or replace the malfunctioning parts. 3.CHECK INTELLIGENT KEY WARNING BUZZER	I
Check Intelligent Key warning buzzer.	G
Refer to DLK-273, "Component Function Check".	
Is the inspection result normal? YES >> GO TO 4.	Н
NO >> Repair or replace the malfunctioning parts. 4. CHECK DOOR SWITCH	
Check front door switch (driver side).	.
Refer to DLK-241, "Component Function Check".	
Is the inspection result normal? YES >> GO TO 5.	J
NO >> Repair or replace the malfunctioning parts.	
5. CHECK INSIDE KEY ANTENNA Check inside key antenna.	DLK
 Instrument center: Refer to <u>DLK-226, "DTC Logic"</u>. Console: Refer to <u>DLK-228, "DTC Logic"</u>. 	I
 Luggage room: Refer to <u>DLK-230, "DTC Logic"</u>. 	
Is the inspection result normal? YES >> GO TO 6.	M
NO >> Repair or replace the malfunctioning parts.	
b. CHECK INFORMATION DISPLAY Check information display.	N
Refer to DLK-277, "Component Function Check".	
Is the inspection result normal? YES >> GO TO 7.	0
NO >> Repair or replace the malfunctioning parts.	
REPLACE BCM	Ρ
 Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>. Confirm the operation after replacement. 	
Is the result normal?	

YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

< SYMPTOM DIAGNOSIS >

ACC WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009649352

1.CHECK P POSITION WARNING FUNCTION

Check P position warning function.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>DLK-387</u>, "Diagnosis Procedure".

2.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

TAKE AWAY WARNING DOES NOT OPERATE

	ATE
< SYMPTOM DIAGNOSIS > TAKE AWAY WARNING DOES NOT OPERATE	
Diagnosis Procedure	INFOID:00000009649353
1. CHECK DTC WITH BCM AND COMBINATION METER	
Check that DTC is not detected with BCM and combination meter.	
Is the inspection result normal?	
YES >> GO TO 2. NO-1 >> Refer to <u>BCS-63, "DTC Index"</u> (BCM).	
NO-2 >> Refer to <u>MWI-48, "DTC Index"</u> (Combination meter).	
2. CHECK COMBINATION METER BUZZER	
Check combination meter buzzer.	
Refer to <u>DLK-276, "Component Function Check"</u> . Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3. CHECK INFORMATION DISPLAY	
Check information display.	
Refer to <u>DLK-277, "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 front door switch (driver side). Refer to <u>DLK-241, "Component Function Check"</u> .	
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-273, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	
6. CHECK INSIDE KEY ANTENNA	
Check inside key antenna.	
 Instrument center: Refer to <u>DLK-226, "DTC Logic"</u>. 	
 Console: Refer to <u>DLK-228, "DTC Logic"</u>. Luggage room: Refer to <u>DLK-230, "DTC Logic"</u>. 	
Is the inspection result normal?	
YES >> GO TO 7.	
NO >> Repair or replace the malfunctioning parts.	
I.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>. Confirm the operation after replacement. 	
Is the result normal?	
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to GI-42. "Intermittent Incident".	

NO >> Check intermittent incident. Refer to GI-42. "Intermittent Incident".

KEY ID WARNING DOES NOT OPERATE

KEY ID WARNING DOES NOT OPERATE
< SYMPTOM DIAGNOSIS >
KEY ID WARNING DOES NOT OPERATE
Diagnosis Procedure
1. CHECK DTC WITH BCM AND COMBINATION METER
Check that DTC is not detected with BCM and combination meter. Is the inspection result normal? YES >> GO TO 2. NO-1 >> Refer to BCS-63, "DTC Index" (BCM). NO-2 >> Refer to MWI-48, "DTC Index" (Combination meter). 2.CHECK INTELLIGENT KEY BATTERY
Check Intelligent Key battery. Refer to <u>DLK-275, "Component Function Check"</u> . <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. Instrument center: Refer to <u>DLK-226, "DTC Logic"</u>. Console: Refer to <u>DLK-228, "DTC Logic"</u>. Luggage room: Refer to <u>DLK-230, "DTC Logic"</u>. Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.
4. CHECK INFORMATION DISPLAY
Check information display. Refer to DLK-277, "Component Function Check". Is the inspection result normal? YES $>>$ GO TO 5. NO $>>$ Repair or replace the malfunctioning parts. 5. REPLACE BCM
1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.
<u>Is the result normal?</u> YES >> INSPECTION END
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS >

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure	INFOID:000000009649355
1. CHECK DTC WITH BCM AND COMBINATION METER	В
Check that DTC is not detected with BCM and combination meter.	
Is the inspection result normal?	C
YES >> GO TO 2.	С
 NO-1 >> Refer to <u>BCS-63, "DTC Index"</u> (BCM). NO-2 >> Refer to <u>MWI-48, "DTC Index"</u> (Combination meter). 	
2.CHECK "LO- BATT OF KEY FOB WARN" SETTING IN "WORK SUPPORT"	D
1. Select "INTELLIGENT KEY" of "BCM".	
 Select "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT" mode. Check "LO- BATT OF KEY FOB WARN" setting in "WORK SUPPORT". 	E
Refer to <u>DLK-95</u> , "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".	
Is the inspection result normal?	
YES >> GO TO 3.	F
NO >> Set "ON" in "LO- BATT OF KEY FOB WARN".	
3. CHECK INTELLIGENT KEY BATTERY	G
Check Intelligent Key battery.	
Refer to <u>DLK-275, "Component Function Check"</u> .	
Is the inspection result normal?	Н
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4. CHECK INFORMATION DISPLAY	
Check information display.	
Refer to <u>DLK-277, "Component Function Check"</u> .	J
Is the inspection result normal?	
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	DLK
5. CHECK INSIDE KEY ANTENNA	
Check inside key antenna.	
 Instrument center: Refer to <u>DLK-226, "DTC Logic"</u>. Console: Refer to <u>DLK-228, "DTC Logic"</u>. 	
Luggage room: Refer to <u>DLK-230, "DTC Logic"</u> .	
<u>Is the inspection result normal?</u>	M
YES >> GO TO 6.	IVI
NO >> Repair or replace the malfunctioning parts.	
6.REPLACE BCM	Ν
1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u> .	
2. Confirm the operation after replacement.	_
Is the result normal?	0
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	D

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009649356

1. CHECK DOOR LOCK FUNCTION

Check door lock function.

Does door lock/unlock using door request switch?

YES >> GO TO 2.

NO >> Refer to <u>DLK-372</u>, "ALL DOOR REQUEST SWITCHES : Diagnosis Procedure".

2. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer. Refer to <u>DLK-273, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

SYMPTOM DIAGNOSIS >	
BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPE	RATE
OPEN/CLOSURE FUNCTION	
OPEN/CLOSURE FUNCTION : Description	INFOID:000000009649357
Back door auto closure does not operate when back door opening and closing operation	s are performed.
OPEN/CLOSURE FUNCTION : Diagnosis Procedure	INFOID:000000009649358
1.снеск отс with всм	
Check that DTC is not detected with BCM.	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Refer to <u>BCS-63. "DTC Index"</u> .	
2. CHECK POWER SUPPLY AND GROUND CIRCUIT	
Check back door control unit power supply and ground circuit. Refer to DLK-238, "BACK DOOR CONTROL UNIT : Diagnosis Procedure".	
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3. CHECK BACK DOOR CLOSURE MOTOR	
Check back door closure motor. Refer to <u>DLK-304, "WITHOUT AUTOMATIC BACK DOOR : Diagnosis Procedure"</u> .	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. REPLACE BACK DOOR CONTROL UNIT	
1. Replace back door control unit.	
2. Confirm the operation after replacement.	
<u>Is the result normal?</u> YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
OPEN FUNCTION	
OPEN FUNCTION : Description	INFOID:000000009649359
Back door auto closure does not operate when back door opening operation is performed	d.
OPEN FUNCTION : Diagnosis Procedure	INFOID:000000009649360
1.CHECK BACK DOOR OPENER SWITCH	
Check back door opener switch.	
Refer to <u>DLK-271</u> , "Component Function Check". Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CHECK BACK DOOR OPEN REQUEST SIGNAL CIRCUIT	
Check back door open request signal circuit. Refer to <u>DLK-280, "Diagnosis Procedure"</u> .	
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	

BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

3. REPLACE BACK DOOR CONTROL UNIT	
 Replace back door control unit. Confirm the operation after replacement. <u>Is the result normal?</u> YES >> INSPECTION END 	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . CLOSURE FUNCTION	
CLOSURE FUNCTION : Description	INFOID:000000009649361
Back door auto closure does not operate when back door closing operation is performed.	
CLOSURE FUNCTION : Diagnosis Procedure	INFOID:000000009649362
1.CHECK HALF LATCH SWITCH	
Check half latch switch. Refer to <u>DLK-294, "WITHOUT AUTOMATIC BACK DOOR : Diagnosis Procedure"</u> .	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CHECK OPEN SWITCH	
Check open switch. Refer to <u>DLK-289, "Diagnosis Procedure"</u> .	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CHECK CLOSE SWITCH	
Check close switch. Refer to <u>DLK-291, "Diagnosis Procedure"</u> .	
Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4.REPLACE BACK DOOR CONTROL UNIT	
 Replace back door control unit. Confirm the operation after replacement. 	
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS >	
AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE ALL SWITCHES	А
ALL SWITCHES : Description	В
Automatic back door open/close function does not operate using all switches. NOTE: Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to <u>DLK-52</u> , "System Description".	С
ALL SWITCHES : Diagnosis Procedure	5
1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE	D
Check that DTC is not detected with automatic back door control module. <u>Is the inspection result normal?</u> YES >> GO TO 2.	Е
NO >> Perform trouble diagnosis relevant to DTC indicated. 2.CHECK BACK DOOR AUTO CLOSURE FUNCTION	F
Check back door auto closure function. <u>Is the inspection result normal?</u> YES >> GO TO 3.	G
NO >> Refer to <u>DLK-398, "OPEN/CLOSURE FUNCTION : Diagnosis Procedure"</u> . 3.CHECK GROUND CIRCUIT	Н
Check automatic back door control module ground circuit. Refer to <u>DLK-308, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK TOUCH SENSOR LH	J
Check touch sensor LH. Refer to <u>DLK-299, "LH : Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	DLK
5. CHECK TOUCH SENSOR RH	
Check touch sensor RH. Refer to <u>DLK-301, "RH : Component Function Check"</u> . <u>Is the inspection result normal?</u>	Μ
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	Ν
6.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE	0
 Replace automatic back door control module. Confirm the operation after replacement. In the result normal? 	0
<u>Is the result normal?</u> YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . AUTOMATIC BACK DOOR SWITCH	Ρ
AUTOMATIC BACK DOOR SWITCH : Description	
Automatic back door open/close function does not operate using automatic back door switch.	

Revision: 2014 May

NOTE:

DLK-395

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to <u>DLK-52</u>, "System Description".

AUTOMATIC BACK DOOR SWITCH : Diagnosis Procedure

INFOID:000000009649366

1.CHECK AUTOMATIC BACK DOOR SWITCH

Check automatic back door switch.

Refer to DLK-287, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>. AUTOMATIC BACK DOOR CLOSE SWITCH

AUTOMATIC BACK DOOR CLOSE SWITCH : Description

INFOID:000000009649367

Automatic back door open/close function does not operate using automatic back door close switch. **NOTE:**

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to <u>DLK-52</u>, "System Description".

AUTOMATIC BACK DOOR CLOSE SWITCH : Diagnosis Procedure

INFOID:000000009649368

1.CONFIRM THE OPERATION

1. Turn ON automatic door main switch.

2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is normal.

NO >> GO TO 2.

2. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Check automatic back door close switch.

Refer to DLK-281, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK AUTOMATIC DOOR MAIN SWITCH

Check automatic door main switch.

Refer to DLK-283, "AUTOMATIC BACK DOOR CONTROL MODULE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

INTELLIGENT KEY

Revision: 2014 May

DLK-396

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > **INTELLIGENT KEY: Description** INFOID:000000009649369 А Automatic back door open/close function does not operate using Intelligent Key. NOTE: Automatic back door open/close operation condition is extremely complicated, during operating confirmations, В reconfirm the list above twice in order to ensure proper operation. Refer to <u>DLK-52, "System Description"</u>. INTELLIGENT KEY : Diagnosis Procedure INFOID:000000009649370 CHECK DTC WITH BCM AND AUTOMATIC BACK DOOR CONTROL MODULE Check that DTC is not detected with BCM, TCM and combination meter. D Is the inspection result normal? YES >> GO TO 2. NO-1 >> Refer to <u>BCS-63, "DTC Index"</u> (BCM). Ε NO-2 >> Refer to DLK-109, "DTC Index" (automatic back door control module). 2.CHECK REMOTE KEYLESS ENTRY FUNCTION Check remote keyless entry function. Does door lock/unlock with Intelligent Key button? YES >> GO TO 3. NO >> Refer to DLK-375, "Diagnosis Procedure". $\mathbf{3.}$ REPLACE AUTOMATIC BACK DOOR CONTROL MODULE 1. Replace automatic back door control module. Н Confirm the operation after replacement. 2. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". BACK DOOR OPENER SWITCH **BACK DOOR OPENER SWITCH : Description** INFOID:000000009649371 Automatic back door open/close function does not operate using back door opener switch. NOTE: DLK Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-52, "System Description". **BACK DOOR OPENER SWITCH : Diagnosis Procedure** INFOID-000000009649372 **1**.CONFIRM THE OPERATION 1. Turn ON automatic door main switch. M 2. Confirm the operation. Is the result normal? YES Ν >> Automatic door system is normal. NO >> GO TO 2. 2.CHECK BACK DOOR OPENER SWITCH Check back door opener switch. Refer to DLK-271, "Component Function Check". Is the inspection result normal? Ρ YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. ${f 3.}$ check automatic door main switch Check automatic door main switch. Refer to DLK-283, "AUTOMATIC BACK DOOR CONTROL MODULE : Component Function Check".

Is the inspection result normal?

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YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

OPEN/CLOSURE FUNCTION

OPEN/CLOSURE FUNCTION : Description

Back door auto closure function does not operate when back door opening and closing operations are performed.

OPEN/CLOSURE FUNCTION : Diagnosis Procedure

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1.CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE

Check that DTC is not detected with automatic back door control module.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check automatic back door control module power supply and ground circuit. Refer to DLK-238, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

 ${f 3.}$ CHECK BACK DOOR CLOSURE MOTOR

Check back door closure motor. Refer to DLK-304, "WITH AUTOMATIC BACK DOOR : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

OPEN FUNCTION

OPEN FUNCTION : Description

Back door auto closure function does not operate when back door opening operations are performed.

OPEN FUNCTION : Diagnosis Procedure

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch. Refer to <u>DLK-271, "Component Function Check"</u>. <u>Is the inspection result normal?</u> YES >> GO TO 2.

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NO >> Repair or replace the malfunctioning parts.	
2. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE	А
 Replace automatic back door control module. Confirm the operation after replacement. 	В
<u>Is the result normal?</u> YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . CLOSURE FUNCTION	С
CLOSURE FUNCTION : Description	D
Back door auto closure function does not operate when back door closing operations are performed.	D
CLOSURE FUNCTION : Diagnosis Procedure	Е
1. CHECK HALF LATCH SWITCH	
Check half latch switch. Refer to DLK-293, "WITH AUTOMATIC BACK DOOR : Component Function Check".	F
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	G
2.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE 1. Replace automatic back door control module.	Н
2. Confirm the operation after replacement.	
<u>Is the result normal?</u> YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
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AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

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AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE BUZZER

BUZZER : Description

Automatic back door warning buzzer does not operate when automatic back door warning function are performed.

BUZZER : Diagnosis Procedure

1. CHECK DTC WITCH AUTOMATIC BACK DOOR CONTROL MODULE

Check that DTC is not detected with automatic back door control module.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2. CHECK AUTOMATIC BACK DOOR WARNING BUZZER

Check automatic back door warning buzzer. Refer to <u>DLK-306, "Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

 $\mathbf{3}$. Replace automatic back door control module

1. Replace automatic back door control module.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

HAZARD WARNING LAMP

HAZARD WARNING LAMP : Description

Hazard warning lamp does not operate when automatic back door warning function are performed.

HAZARD WARNING LAMP : Diagnosis Procedure

1.CHECK DTC WITH BCM AND AUTOMATIC BACK DOOR CONTROL MODULE

Check that DTC is not detected with BCM, TCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Refer to <u>BCS-63</u>, "DTC Index" (BCM).

NO-2 >> Refer to DLK-109, "DTC Index" (automatic back door control module).

2. CHECK GROUND CIRCUIT

Check automatic back door control module ground circuit. Refer to <u>DLK-308, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts

3.CHECK HAZARD AND HORN REMINDER FUNCTION

Check hazard and horn reminder function.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Refer to <u>DLK-383</u>, "Diagnosis Procedure".

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AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

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4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE	Α
 Replace automatic back door control module. Confirm the operation after replacement. 	
Is the result normal?	В
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Inciden</u>	<u>t"</u> .
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AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

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AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

Diagnosis Procedure

INFOID:000000009649383

1.CHECK THE OPERATION

Check automatic door main switch function.

NOTE:

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

Is the inspection result normal?

YES >> Automatic back door system is normal.

NO >> GO TO 2.

2. CHECK AUTOMATIC DOOR MAIN SWITCH

Check automatic door main switch.

Refer to DLK-283. "AUTOMATIC BACK DOOR CONTROL MODULE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.Replace automatic back door control module

1. Replace automatic back door control module.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

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Diagnosis Procedure	000000009649384	/ \
1.CHECK TOUCH SENSOR LH		В
Check touch sensor LH. Refer to <u>DLK-299, "LH : Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 2.		С
NO >> Repair or replace the malfunctioning parts. 2.CHECK TOUCH SENSOR RH		D
Check touch sensor RH. Refer to <u>DLK-301, "RH : Component Function Check"</u> . <u>Is the inspection result normal?</u>		E
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE		F
 Replace automatic back door control module. Confirm the operation after replacement. Is the result normal? 		G
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident"</u> .		Η

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INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009649385

1. CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter. Refer to <u>DLK-309, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE AUTO ANTI-DAZZLING INSIDE MIRROR

Replace auto anti-dazzling inside mirror. Refer to MIR-29, "Removal and Installation".

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

AUTOMATIC SLIDING DOOR SYSTEM DOES NOT OPERAT	ΓE
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AUTOMATIC SLIDING DOOR SYSTEM DOES NOT OPERATE ALL FUNCTIONS	
ALL FUNCTIONS : Description	INFOID:000000009649386
Automatic sliding door system all functions does not operate.	
ALL FUNCTIONS : Diagnosis Procedure	INFOID:000000009649387
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	
Check that DTC is not detected with sliding door control unit. Is the inspection result normal?	
YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated.	
2. CHECK POWER SUPPLY AND GROUND CIRCUIT	
Check sliding door control unit power supply and ground circuit. Refer to <u>DLK-239</u> , " <u>SLIDING DOOR CONTROL UNIT</u> : <u>Diagnosis Procedure</u> ".	
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3.REPLACE SLIDING DOOR CONTROL UNIT	
 Replace sliding door control unit. Refer to <u>DLK-500, "RH : Removal and Installation"</u> (R <u>"LH : Removal and Installation"</u> (LH). Confirm the operation after replacement. 	.H) or <u>DLK-500.</u>
<u>Is the result normal?</u> YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . ONE-TOUCH UNLOCK FUNCTION	
ONE-TOUCH UNLOCK FUNCTION : Description	INFOID:000000009649388
Automatic sliding door system one-touch unlock function does not operate.	Γ
ONE-TOUCH UNLOCK FUNCTION : Diagnosis Procedure	INFOID:000000009649389
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	
Check that DTC is not detected with sliding door control unit.	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Perform trouble diagnosis relevant to DTC indicated.	
2. CHECK REMOTE KEYLESS ENTRY FUNCTION	
Check remote keyless entry function.	
Does door lock/unlock with Intelligent Key button? YES >> GO TO 3.	
NO >> Refer to <u>DLK-375, "Diagnosis Procedure"</u> .	
3. CHECK AUTO OPEN/CLOSE FUNCTION	
Check automatic sliding door system auto open/close function.	
Does sliding door auto open/close with switches? YES >> GO TO 4.	
NO >> Refer to <u>DLK-412. "ALL SWITCHES : Diagnosis Procedure"</u> .	
4. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH	
Check sliding door one-touch open/close switch	

Check sliding door one-touch open/close switch.

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- Sliding door LH: Refer to <u>DLK-347</u>, "SLIDING DOOR LH : Component Function Check".
- Sliding door RH: Refer to <u>DLK-349</u>, "SLIDING DOOR RH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.check sliding door lock status switch

Check sliding door lock status switch.

Sliding door LH: Refer to <u>DLK-334. "SLIDING DOOR LH : Component Function Check"</u>. Sliding door RH: Refer to <u>DLK-336. "SLIDING DOOR RH : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to DLK-500, "RH : Removal and Installation" (RH) or DLK-500, 1. "LH : Removal and Installation" (LH).
- Confirm the operation after replacement. 2.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

POWER ASSIST FUNCTION

POWER ASSIST FUNCTION : Description

Automatic sliding door system power assist function does not operate.

POWER ASSIST FUNCTION : Diagnosis Procedure

1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK AUTO OPEN/CLOSE FUNCTION

Check automatic sliding door system auto open/close function.

Does sliding door auto open/close with switches?

- YES >> GO TO 3.
- NO >> Refer to DLK-412, "ALL SWITCHES : Diagnosis Procedure".

 ${f 3.}$ REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to DLK-500, "RH : Removal and Installation" (RH) or DLK-500. 1. "LH : Removal and Installation" (LH).
- Confirm the operation after replacement. 2.

Is the result normal?

YES >> INSPECTION END

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

UNLOCK-LINKED OPENING FUNCTION

UNLOCK-LINKED OPENING FUNCTION : Description	INFOID:000000009649392
Automatic sliding door unlock-linked opening function does not operate.	

UNLOCK-LINKED OPENING FUNCTION : Diagnosis Procedure

CHECK DTC WITH SLIDING DOOR CONTROL UNIT

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Check that DTC is not detected with sliding door control unit.	
Is the inspection result normal?	А
YES >> GO TO 2.	
NO >> Perform trouble diagnosis relevant to DTC indicated.	В
2.CHECK ONE-TOUCH UNLOCK FUNCTION	D
Check automatic sliding door one-touch unlock function.	
Is the inspection result normal?	С
YES >> GO TO 3. NO >> Refer to <u>DLK-405, "ONE-TOUCH UNLOCK FUNCTION : Diagnosis Procedure"</u> .	
3. REPLACE SLIDING DOOR CONTROL UNIT	D
1. Replace sliding door control unit. Refer to <u>DLK-500, "RH : Removal and Installation"</u> (RH) or <u>DLK-500</u> ,	
"LH : Removal and Installation" (LH).	_
2. Confirm the operation after replacement.	E
Is the result normal? YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	F
HOLD FUNCTION	
HOLD FUNCTION : Description	G
Automatic sliding door system hold function does not operate.	
HOLD FUNCTION : Diagnosis Procedure	Н
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	
Check that DTC is not detected with sliding door control unit.	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Perform trouble diagnosis relevant to DTC indicated.	J
2. CHECK SLIDING DOOR HANDLE SWITCH	
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 Sliding door LH: Refer to <u>DLK-326</u>, "SLIDING DOOR LH : Component Function Check". Sliding door RH: Refer to <u>DLK-328</u>, "SLIDING DOOR RH : Component Function Check". 	
Is the inspection result normal?	I
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3.CHECK CLUTCH	Μ
Check clutch.	
 Sliding door LH: Refer to <u>DLK-355, "SLIDING DOOR LH : Component Function Check"</u>. Sliding door RH: Refer to <u>DLK-356, "SLIDING DOOR RH : Component Function Check"</u>. 	Ν
Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	0
4.CHECK FULL LATCH SWITCH	
Check full latch switch.	Ρ
 Sliding door LH: Refer to <u>DLK-318, "SLIDING DOOR LH : Component Function Check"</u>. Sliding door RH: Refer to <u>DLK-320, "SLIDING DOOR RH : Component Function Check"</u>. 	
Is the inspection result normal?	
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	

5. CHECK HALF LATCH SWITCH

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Check half latch switch.

Refer to DLK-296, "SLIDING DOOR CONTROL UNIT : Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

6.REPLACE SLIDING DOOR CONTROL UNIT

- 1. Replace sliding door control unit. Refer to <u>DLK-500, "RH : Removal and Installation"</u> (RH) or <u>DLK-500, "LH : Removal and Installation"</u> (LH).
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

ANTI-PINCH FUNCTION

ANTI-PINCH FUNCTION : Description

Automatic sliding door system anti-pinch function does not operate.

ANTI-PINCH FUNCTION : Diagnosis Procedure

1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK SLIDING DOOR TOUCH SENSOR

Check sliding door touch sensor.

• Sliding door LH: Refer to <u>DLK-351, "SLIDING DOOR LH : Component Function Check"</u>.

Sliding door RH: Refer to <u>DLK-353</u>, "SLIDING DOOR RH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK ENCODER

Check encoder.

• Sliding door LH: Refer to <u>DLK-311, "SLIDING DOOR LH : Component Function Check"</u>.

Sliding door RH: Refer to <u>DLK-312</u>, "SLIDING DOOR RH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK FULL LATCH SWITCH

Check full latch switch.

- Sliding door LH: Refer to <u>DLK-318</u>, "SLIDING DOOR LH : Component Function Check".
- Sliding door RH: Refer to DLK-320, "SLIDING DOOR RH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK SLIDING DOOR LOCK STATUS SWITCH

Check sliding door lock status switch.

• Sliding door LH: Refer to <u>DLK-334, "SLIDING DOOR LH : Component Function Check"</u>.

Sliding door RH: Refer to <u>DLK-336, "SLIDING DOOR RH : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 6.

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NO >> Repair or replace the malfunctioning parts.	
6. CHECK SLIDING DOOR SWITCH	А
 Check sliding door switch. Sliding door LH: Refer to <u>DLK-315. "SLIDING DOOR LH : Component Function Check"</u>. Sliding door RH: Refer to <u>DLK-316. "SLIDING DOOR RH : Component Function Check"</u>. 	В
NO >> Repair or replace the malfunctioning parts.	С
7.REPLACE SLIDING DOOR CONTROL UNIT	
<u>"LH : Removal and Installation"</u> (LH). 2. Confirm the operation after replacement.	D
<u>Is the result normal?</u> YES >> INSPECTION END	E
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	F
INTERMITTENT CLUTCH FUNCTION : Description	
Automatic sliding door system intermittent clutch function does not operate.	G
INTERMITTENT CLUTCH FUNCTION : Diagnosis Procedure	
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	Η
Check that DTC is not detected with sliding door control unit.	
Is the inspection result normal?	I
YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated.	
2.CHECK CLUTCH	J
Check clutch. Sliding door LH: Refer to <u>DLK-355, "SLIDING DOOR LH : Component Function Check"</u>. Sliding door RH: Refer to <u>DLK-356, "SLIDING DOOR RH : Component Function Check"</u>. 	DLK
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	L
3. REPLACE SLIDING DOOR CONTROL UNIT	
 Replace sliding door control unit. Refer to <u>DLK-500. "RH : Removal and Installation"</u> (RH) or <u>DLK-500.</u> "<u>LH : Removal and Installation"</u> (LH). Confirm the operation after replacement. 	Μ
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YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
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HAZARD AND BUZZER REMINDER FUNCTION : Description	
Automatic sliding door system hazard and buzzer reminder function does not operate.	Ρ
HAZARD AND BUZZER REMINDER FUNCTION : Diagnosis Procedure	
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	
Check that DTC is not detected with sliding door control unit. Is the inspection result normal?	

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YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated. 2.CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER Check automatic sliding door warning buzzer. Sliding door LH: Refer to <u>DLK-365, "SLIDING DOOR LH : Diagnosis Procedure"</u>. Sliding door RH: Refer to DLK-366, "SLIDING DOOR RH : Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or rereplace the malfunctioning parts. **3.**REPLACE SLIDING DOOR CONTROL UNIT Replace sliding door control unit. Refer to DLK-500, "RH : Removal and Installation" (RH) or DLK-500, 1. "LH : Removal and Installation" (LH). Confirm the operation after replacement. 2. Is the result normal? >> INSPECTION END YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO SLIDING DOOR AUTO CLOSURE FUNCTION SLIDING DOOR AUTO CLOSURE FUNCTION : Description INFOID:000000009649402 Automatic sliding door system sliding door auto closure function does not operate. SLIDING DOOR AUTO CLOSURE FUNCTION : Diagnosis Procedure INFOID:000000009649403 CHECK DTC WITH SLIDING DOOR CONTROL UNIT Check that DTC is not detected with sliding door control unit. Is the inspection result normal? YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated. 2. CHECK SLIDING DOOR HANDLE SWITCH Check sliding door handle switch. Sliding door LH: Refer to <u>DLK-326, "SLIDING DOOR LH : Component Function Check"</u>.
Sliding door RH: Refer to <u>DLK-328, "SLIDING DOOR RH : Component Function Check"</u>. Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK FULL LATCH SWITCH Check full latch switch. Sliding door LH: Refer to <u>DLK-318</u>, "SLIDING DOOR LH : Component Function Check".
Sliding door RH: Refer to <u>DLK-320</u>, "SLIDING DOOR RH : Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK NEUTRAL SWITCH Check neutral switch. • Sliding door LH: Refer to DLK-322, "SLIDING DOOR LH : Component Function Check". Sliding door RH: Refer to <u>DLK-324, "SLIDING DOOR RH : Component Function Check"</u> Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. **5**.CHECK HALF LATCH SWITCH

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Check half latch switch.

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Refer to DLK-296, "SLIDING DOOR CONTROL UNIT : Component Function Check".	
Is the inspection result normal?	А
YES >> GO TO 6 NO >> Repair or replace the malfunctioning parts. 6.CHECK SLIDING DOOR CLOSURE MOTOR	В
Check sliding door closure motor. • Sliding door LH: Refer to <u>DLK-363, "SLIDING DOOR LH : Diagnosis Procedure"</u> . • Sliding door RH: Refer to <u>DLK-363, "SLIDING DOOR RH : Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	С
YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts. 7.REPLACE SLIDING DOOR CONTROL UNIT	D
 Replace sliding door control unit. Refer to <u>DLK-500, "RH : Removal and Installation"</u> (RH) or <u>DLK-500, "LH : Removal and Installation"</u> (LH). Confirm the operation after replacement. 	Ε
Is the result normal?	F
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident"</u> .	G

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< SYMPTOM DIAGNOSIS > AUTOMATIC SLIDING DOOR OPEN/CLOSE FUNCTION DOES NOT OP-ERATE ALL SWITCHES ALL SWITCHES : Description INFOID:000000009649404 Automatic sliding door system auto open/close function does not operate using all switches. ALL SWITCHES : Diagnosis Procedure INFOID-000000009649405 CHECK AUTOMATIC DOOR MAIN SWITCH POSITION Check automatic door main switch is in the ON position. Is the inspection result normal? YES >> GO TO 2 NO >> Press automatic door main switch to ON position. 2.CHECK DTC WITH SLIDING DOOR MAIN SWITCH Check that DTC is not detected with sliding door control unit. Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

 ${f 3.}$ CHECK AUTOMATIC DOOR MAIN SWITCH

Check automatic door main switch.

Refer to DLK-284, "SLIDING DOOR CONTROL UNIT : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK FUEL FILLER LID STATUS SWITCH

Check fuel filler lid status switch.

Refer to DLK-338, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check sliding door control unit power supply and ground circuit. Refer to DLK-239, "SLIDING DOOR CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR

Check sliding door lock release actuator.

- Sliding door LH: Refer to DLK-360, "SLIDING DOOR LH : Diagnosis Procedure".
- Sliding door RH: Refer to <u>DLK-361, "SLIDING DOOR RH : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7.CHECK CLUTCH

Check clutch.

Sliding door LH: Refer to <u>DLK-355, "SLIDING DOOR LH : Component Function Check"</u>.

Sliding door RH: Refer to <u>DLK-356, "SLIDING DOOR RH : Component Function Check"</u>.

Is the inspection result normal?

< SYMPTOM DIAGNOSIS >	
YES >> GO TO 8. NO >> Repair or replace the malfunctioning parts.	٨
8. CHECK AUTOMATIC SLIDING DOOR MOTOR	A
Check automatic sliding door motor.	
 Sliding door LH: Refer to <u>DLK-358, "SLIDING DOOR LH : Diagnosis Procedure"</u>. Sliding door RH: Refer to .<u>DLK-358, "SLIDING DOOR RH : Diagnosis Procedure"</u> 	В
Is the inspection result normal?	С
YES >> GO TO 9. NO >> Repair or replace the malfunctioning parts.	0
9. CHECK HALF LATCH SWITCH	D
Check half latch switch.	D
Refer to <u>DLK-296, "SLIDING DOOR CONTROL UNIT : Component Function Check"</u> . Is the inspection result normal?	Е
YES >> GO TO 10.	
NO >> Repair or replace the malfunctioning parts.	
	F
 Check full latch switch. Sliding door LH: Refer to <u>DLK-318, "SLIDING DOOR LH : Component Function Check"</u>. Sliding door RH: Refer to <u>DLK-320, "SLIDING DOOR RH : Component Function Check"</u>. 	G
Is the inspection result normal?	
YES >> GO TO 11. NO >> Repair or replace the malfunctioning parts.	Н
11. CHECK SLIDING DOOR SWITCH	
Check sliding door switch.	I
 Sliding door LH: Refer to <u>DLK-315, "SLIDING DOOR LH : Component Function Check"</u>. Sliding door RH: Refer to <u>DLK-316, "SLIDING DOOR RH : Component Function Check"</u>. 	
Is the inspection result normal?	.1
YES >> GO TO 12.	0
NO >> Repair or replace the malfunctioning parts. 12.REPLACE SLIDING DOOR CONTROL UNIT	
1. Replace sliding door control unit. Refer to <u>DLK-500, "RH : Removal and Installation"</u> (RH) or <u>DLK-500,</u>)LK
"LH : Removal and Installation" (LH).	
 Confirm the operation after replacement. Is the result normal? 	L
YES >> INSPECTION END	
	M
OUTSIDE HANDLE	
OUTSIDE HANDLE : Description	Ν
Automatic sliding door system auto open/close function does not operate using sliding door outside handle.	
OUTSIDE HANDLE : Diagnosis Procedure	0
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	
Check that DTC is not detected with siding door control unit.	Ρ
Is the inspection result normal? YES >> GO TO 2.	
NO >> Perform trouble diagnosis relevant to DTC indicated.	
2. CHECK AUTO OPEN/CLOSE FUNCTION	
Check automatic sliding door system auto open/close function.	

< SYMPTOM DIAGNOSIS >

Does sliding door auto open/close with switches?

YES >> GO TO 3.

NO >> Refer to <u>DLK-412</u>, "<u>ALL SWITCHES</u> : <u>Diagnosis Procedure</u>".

3.CHECK SLIDING DOOR HANDLE SWITCH

Check sliding door handle switch.

• Sliding door LH: Refer to DLK-326, "SLIDING DOOR LH : Component Function Check".

Sliding door RH: Refer to <u>DLK-328, "SLIDING DOOR RH : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE SLIDING DOOR CONTROL UNIT

- 1. Replace sliding door control unit. Refer to <u>DLK-500, "RH : Removal and Installation"</u> (RH) or <u>DLK-500, "LH : Removal and Installation"</u> (LH).
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

INSIDE HANDLE

INSIDE HANDLE : Description

Automatic sliding door system auto open/close function does not operate using sliding door inside handle.

INSIDE HANDLE : Diagnosis Procedure

1.CHECK CHILD LOCK STATUS

Check child lock is unlock.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK AUTO OPEN/CLOSE FUNCTION

Check automatic sliding door system auto open/close function.

Does sliding door auto open/close with switches?

YES >> GO TO 4.

NO >> Refer to <u>DLK-412</u>, "ALL <u>SWITCHES</u> : <u>Diagnosis Procedure</u>".

4.REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to <u>DLK-500, "RH : Removal and Installation"</u> (RH) or <u>DLK-500,</u> <u>"LH : Removal and Installation"</u> (LH).
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

INTELLIGENT KEY

INTELLIGENT KEY : Description

Automatic sliding door system auto open/close function does not operate using Intelligent Key.

DLK-414

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INFOID:000000009649408

< SYMPTOM DIAGNOSIS >	IOPERATE
INTELLIGENT KEY : Diagnosis Procedure	INFOID:000000009649411
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	
Check that DTC is not detected with sliding door control unit. Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Perform trouble diagnosis relevant to DTC indicated.	
2. CHECK REMOTE KEYLESS ENTRY FUNCTION	
Check remote keyless entry function.	
Does door lock/unlock with Intelligent Key button?	
YES >> GO TO 3. NO >> Refer to <u>DLK-375, "Diagnosis Procedure"</u> .	
3. CHECK AUTO OPEN/CLOSE FUNCTION	
Check automatic sliding door system auto open/close function. Does sliding door auto open/close with sliding door outside handle?	
YES >> GO TO 4.	
NO >> Refer to <u>DLK-413, "OUTSIDE HANDLE : Diagnosis Procedure"</u> .	
4. REPLACE SLIDING DOOR CONTROL UNIT	
1. Replace sliding door control unit. Refer to <u>DLK-500, "RH : Removal and Installation"</u>	(RH) or <u>DLK-500,</u>
<u>"LH : Removal and Installation"</u> (LH).	
Confirm the operation after replacement. Is the result normal?	
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
SLIDING DOOR OPEN/CLOSE SWITCH	
SLIDING DOOR OPEN/CLOSE SWITCH : Description	INFOID:000000009649412
Automatic sliding door system auto open/close function does not operate using sliding door	open/close switch.
SLIDING DOOR OPEN/CLOSE SWITCH : Diagnosis Procedure	INFOID:000000009649413
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	-
Check that DTC is not detected with sliding door control unit.	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated.	
2.CHECK AUTO OPEN/CLOSE FUNCTION	
Check automatic sliding door system auto open/close function. Does sliding door auto open/close with switches?	
YES >> GO TO 3.	
NO >> Refer to <u>DLK-412, "ALL SWITCHES : Diagnosis Procedure"</u> .	
3. CHECK SLIDING DOOR OPEN/CLOSE SWITCH	
Check sliding door open/close switch.	
Front LH: Refer to DLK-340, "FRONT LH : Component Function Check".	
 Front RH: Refer to <u>DLK-341</u>, "<u>FRONT RH</u>: <u>Component Function Check</u>". Rear LH: Refer to <u>DLK-343</u>, "<u>REAR LH</u>: <u>Component Function Check</u>". 	
Rear RH: Refer to <u>DLK-344, "REAR RH : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	

Revision: 2014 May

< SYMPTOM DIAGNOSIS >

CHECK CHILD LOCK STATUS SWITCH

Check child lock status switch.

- Sliding door LH: Refer to DLK-330, "SLIDING DOOR LH : Component Function Check".
- Sliding door RH: Refer to DLK-332, "SLIDING DOOR RH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.REPLACE SLIDING DOOR CONTROL UNIT

- 1 Replace sliding door control unit. Refer to DLK-500, "RH : Removal and Installation" (RH) or DLK-500, "LH : Removal and Installation" (LH).
- Confirm the operation after replacement. 2.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH : Description

INFOID:000000009649414

Automatic sliding door system auto open/close function does not operate using sliding door one-touch open close switch.

SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH : Diagnosis Procedure

INFOID:000000009649415

1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

Is the inspection result normal?

YFS >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK AUTO OPEN/CLOSE FUNCTION

Check automatic sliding door system auto open/close function.

Does sliding door auto open/close with switches?

YES >> GO TO 3.

NO >> Refer to DLK-395, "ALL SWITCHES : Diagnosis Procedure".

3.CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

Check sliding door one-touch open/close switch.

Sliding door LH: Refer to <u>DLK-347, "SLIDING DOOR LH : Component Function Check"</u>.
 Sliding door RH: Refer to <u>DLK-349, "SLIDING DOOR RH : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to DLK-500, "RH : Removal and Installation" (RH) or DLK-500, 1. "LH : Removal and Installation" (LH).
- Confirm the operation after replacement. 2.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

AUTOMATIC SLIDING DOOR FUNCTIONS DO NOT CANCEL

< SYMPTOM DIAGNOSIS >	
AUTOMATIC SLIDING DOOR FUNCTIONS DO NOT CANCEL	А
Diagnosis Procedure	Λ
1. CHECK AUTOMATIC DOOR MAIN SWITCH	В
Check automatic door main switch. Refer to DLK-284, "SLIDING DOOR CONTROL UNIT : Component Function Check".	
Is the inspection result normal?	С
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.REPLACE SLIDING DOOR CONTROL UNIT	D
 Replace sliding door control unit. Refer to <u>DLK-500, "RH : Removal and Installation"</u> (RH) or <u>DLK-500, "LH : Removal and Installation"</u> (LH). Confirm the operation after replacement. 	Е
Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	F
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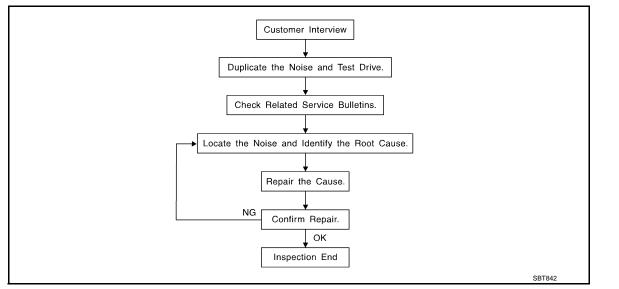
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< SYMPTOM DIAGNOSIS >

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-422</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 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.

DLK-418

< SYMPTOM DIAGNOSIS >

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to DLK-420, "Inspection Procedure".

REPAIR THE CAUSE

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

CAUTION:

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

Μ Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Ν 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 \times 50 mm (1.97 \times 1.97 in) Ρ INSULATOR (Light foam block) 80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18 \times 1.97 in) FELT CLOTHTAPE Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE

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< SYMPTOM DIAGNOSIS >

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

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:000000009649418

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

TRUNK

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

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

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< SYMPTOM DIAGNOSIS >

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus- ing the noise.	А
SUNROOF/HEADLINING	
Noises in the sunroof/headlining area can often be traced to one of the following:	
1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise	В
2. Sunvisor shaft shaking in the holder	
3. Front or rear windshield touching headlining and squeaking	С
Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.	C
SEATS	D
When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:	
1. Headrest rods and holder	E
 A squeak between the seat pad cushion and frame 	
3. The rear seatback lock and bracket	F
These noises can be isolated by moving or pressing on the suspected components while duplicating the con-	Г
ditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.	G
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:	Η
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	J
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	DLK
insulating the component causing the noise.	I
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< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



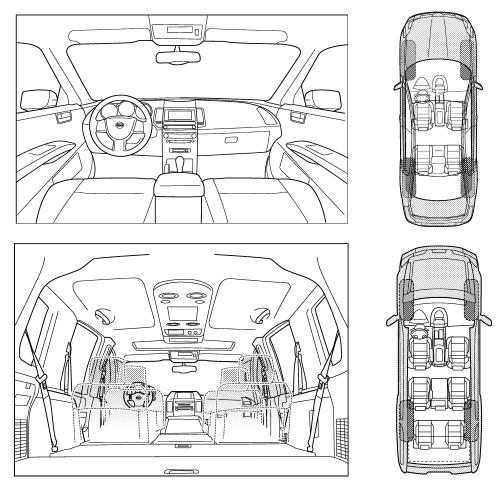
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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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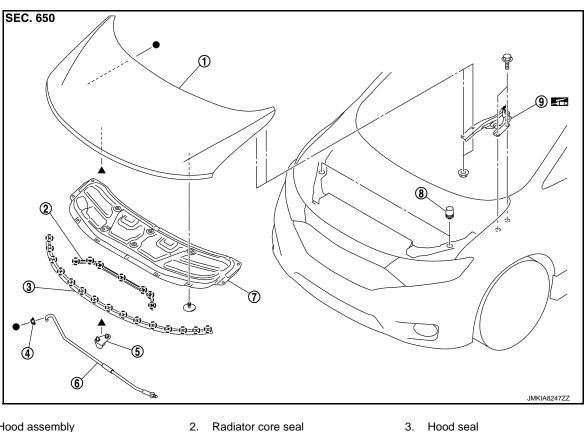
< SYMPTOM DIAGNOSIS >

Briefly describe the location where the		
II. WHEN DOES IT OCCUR? (please	check the boxes that apply)	
anytime	after sitting out in the rain	
1st time in the morning	when it is raining or wet	
only when it is cold outside	dry or dusty conditions	
only when it is hot outside	other:	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
through driveways	squeak (like tennis shoes on a clean floor)	
over rough roads	☐ squeak (like walking on an old wooden floor)	
over speed bumps	☐ rattle (like shaking a baby rattle)	
only about mph	knock (like a knock at the door)	
on acceleration	tick (like a clock second hand)	
\Box coming to a stop	thump (heavy, muffled knock noise)	
on turns: left, right or either (circle)	buzz (like a bumble bee)	
with passengers or cargo		
other:		
	 minutes	
other: miles or after driving miles or TO BE COMPLETED BY DEALERSH		
other: miles or TO BE COMPLETED BY DEALERSH		
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< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION** HOOD

Exploded View

INFOID:000000009649420



- 1. Hood assembly
- 4. Grommet
- 7. Hood insulator
- () : Clip

: Body grease

5. Clamp

Bumper rubber 8.

- 3. Hood seal
- Hood support rod 6.
- 9. Hood hinge

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

CAUTION:

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

REMOVAL

1. Support hood assembly with the proper material to prevent it from falling.

WARNING:

Injury may occur if hood assembly is not supported with appropriate material when removing hood assembly.

2. Remove hood hinge mounting nuts on the hood to remove the hood assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal. CAUTION:

 Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.

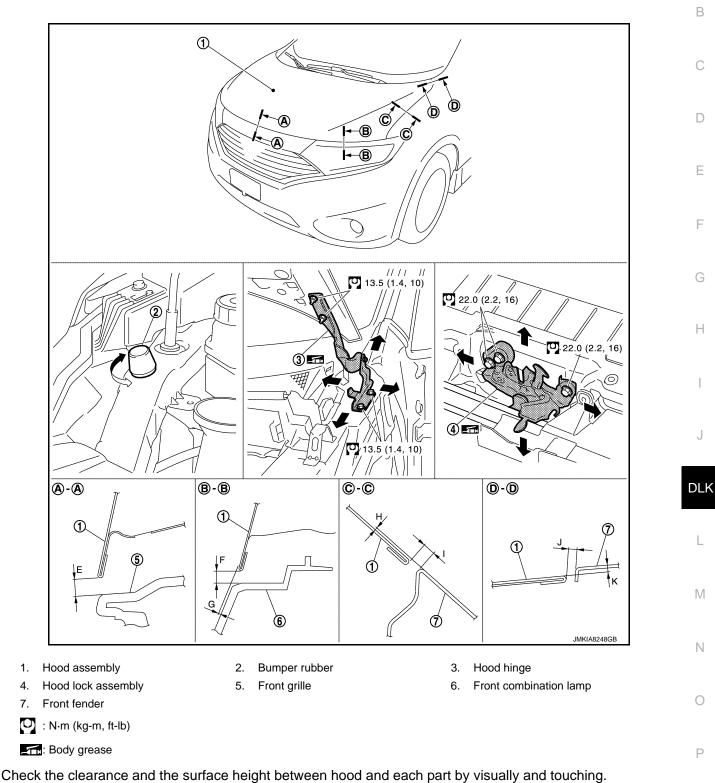
DLK-424

• After installing, perform hood fitting adjustment. Refer to <u>DLK-425, "HOOD ASSEMBLY : Adjust-ment"</u>.

HOOD ASSEMBLY : Adjustment

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

< REMOVAL AND INSTALLATION >

Portion				Standard	Difference (RH/LH, MAX)	
Hood – Front grille	A – A	Е	Clearance	4.0 – 8.5 mm (0.157 – 0.335 in)	_	
Hood – Front combi- nation lamp	B – B –	F	Clearance	3.7 – 8.3 mm (0.146 – 0.327 in)	3.0 mm (0.118 in)	
		G	Surface height	(–1.7) –(+3.7) mm [(–0.067) – (+0.146) in]	3.0 mm (0.118 in)	
Hood – Front fender	C – C –	н	Surface height	(–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]	1.5 mm (0.059 in)	
		T	Clearance	2.7 – 4.7 mm (0.106 – 0.185 in)	1.5 mm (0.059 in)	
Hood – Front fender	D – D	J	Clearance	3.1 – 5.1 mm (0.122 – 0.201 in)	1.5 mm (0.059 in)	
		κ	Surface height	(–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]	-	

FITTING ADJUSTMENT PROCEDURE

- 1. Remove front grille. Refer to EXT-18. "Removal and Installation".
- 2. Remove hood lock assembly.
- 3. Temporarily install front grille, and then adjust the surface height of hood assembly, front fender assembly, and front combination lamp according to the specified value, by rotating hood bumper rubber.
- 4. Remove front grille.
- 5. Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for looseness.
- 6. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 7. After adjustment, tighten lock bolts to the specified torque.
- 8. Check that secondary latch is securely engaged with secondary striker from the dead load of the hood assembly.
- Check that primary latch is securely engaged with primary striker when hood assembly is closed [free-fall from approximately 200 mm (7.874 in) height].
 CAUTION:

Never free-fall hood assembly from a height of 300 (11.811 in) mm or more.

10. Install front grille. Refer to EXT-18, "Removal and Installation".

HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:000000009649423

REMOVAL

- 1. Remove hood assembly. Refer to DLK-424, "HOOD ASSEMBLY : Removal and Installation".
- 2. Remove front fender. Refer to DLK-430, "FRONT FENDER : Removal and Installation".
- 3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

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

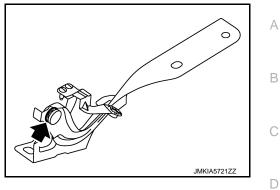
- CAUTION:
- After installation, perform hood fitting adjustment. Refer to <u>DLK-425, "HOOD ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.

DLK-426

HOOD

< REMOVAL AND INSTALLATION >

- Check hood hinge rotating part for poor lubrication. If necessary, apply grease.
 - : Grease up point



HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation	INFOID:000000009649424	F
REMOVAL CAUTION: Two workers are required to support the hood.		F
1. Support hood assembly with a appropriate material to prevent it from falling.		
WARNING: Injury may occur if hood assembly is not supported with appropriate materia hood assembly.	al when removing	G
2. Pull hood support rod from grommet and remove.		
INSTALLATION Install in the reverse order of removal.		Н

Install in the reverse order of removal.

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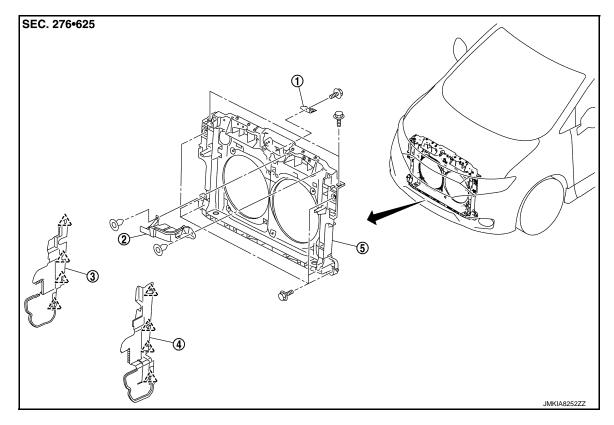
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000009649425



1. Radiator upper hose bracket

Air guide side LH

- Air guide upper
 Radiator core support
- 3. Air guide side RH

八:Pawl

4.

Removal and Installation

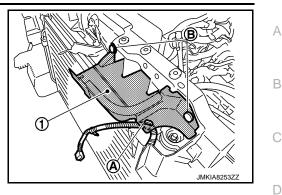
REMOVAL

- 1. Use a refrigerant collecting equipment to discharge the refrigerant. Refer to HA-20, "Recycle Refrigerant".
- 2. Remove engine under cover. Refer to EXT-28, "Removal and Installation".
- 3. Drain engine coolant from radiator. Refer to CO-8, "Draining".
- 4. Remove front grille. Refer to EXT-18, "Removal and Installation".
- 5. Remove front bumper fascia, energy absorber, bumper reinforcement. Refer to <u>EXT-12</u>, "<u>Removal and</u> <u>Installation</u>".
- 6. Remove front combination lamp LH and RH. Refer to <u>EXL-104, "Removal and Installation"</u> (XENON TYPE) or <u>EXL-214, "Removal and Installation"</u> (HALOGEN TYPE).
- 7. Remove air duct (inlet). Refer to EM-26, "Removal and Installation".
- 8. Remove air guide upper.
- a. Remove exhaust gas/outside odor sensor. Refer to <u>HAC-149</u>, "Removal and Installation" (AUTOMATIC AIR CONDITIONING).

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

- Remove harness fixing clip (A). b.
- c. Remove fixing clips (B), and then remove air guide upper (1).



- Remove hood lock assembly. Refer to <u>DLK-459</u>, "HOOD LOCK : <u>Removal and Installation</u>".
- 10. Disengage pawls, and then remove air guide side LH and RH.
- 11. Remove condenser. Refer to HA-43, "CONDENSER : Removal and Installation".
- 12. Remove ambient sensor. Refer to HAC-145, "Removal and Installation" (AUTOMATIC AIR CONDITION-ING).
- 13. Remove reservoir tank, radiator hose (upper) and radiator pipe (upper). Refer to CO-13. "Removal and F Installation".
- 14. Remove crash zone sensor. Refer to SR-23, "Removal and Installation".
- 15. Remove cooling fan assembly. Refer to CO-17, "Removal and Installation".
- 16. Remove radiator hose (lower), radiator pipe (lower) and radiator. Refer to CO-13, "Removal and Installation". Н
- 17. Remove all harness clips from radiator core support.
- 18. Remove mounting bolts, and then remove radiator core support.

INSTALLATION

Note the following items, and then install in the reverse order of removal. CAUTION:

- After installation, inspection and replenish the following.
- Refrigerant: Refer to <u>HA-20, "Charge Refrigerant"</u>.
- Engine coolant: Refer to <u>CO-9, "Refilling"</u>.

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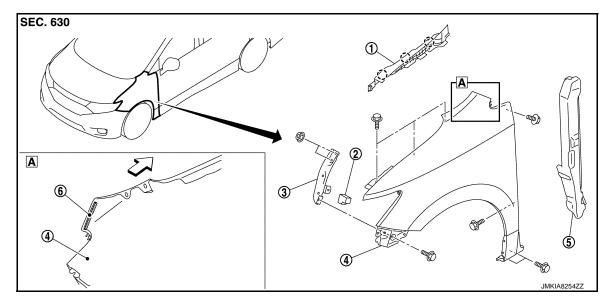
< REMOVAL AND INSTALLATION >

FRONT FENDER

Exploded View

INFOID:000000009649427

INFOID:000000009649428



- 1. Hood side cover
- 4. Front fender assembly
- () : Clip
- ∠ : Vehicle front

FRONT FENDER

FRONT FENDER : Removal and Installation

CAUTION:

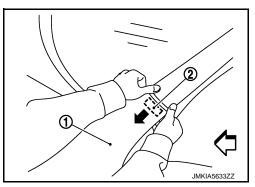
Use a shop cloth to protect the body from being damaged during removal and installation.

2. Front fender spacer

5. Front fender baffle

REMOVAL

- 1. Remove front fender cover. Refer to <u>EXT-21, "Exploded View"</u>.
- 2. Remove hood side cover. Refer to DLK-431, "HOOD SIDE COVER : Removal and Installation".
- 3. Remove front bumper fascia and bumper side bracket. Refer to EXT-12, "Removal and Installation".
- 4. Remove front combination lamp. Refer to <u>EXL-104</u>, "Removal and Installation" (XENON TYPE) or <u>EXL-214</u>, "Removal and Installation" (HALOGEN TYPE).
- 5. Remove fender protect molding. Refer to <u>EXT-24</u>, "FENDER PROTECT MOLDING : Removal and Installation".
- 6. Remove fender protector (front and rear). Refer to EXT-23, "Removal and Installation".
- 7. Remove front fender spacer and front fender baffle.
- 8. Remove mounting bolts of front fender assembly.
- 9. Remove front fender stiffener (2) from the vehicle body while carefully pulling upper portion of front fender (1) toward vehicle outside.



3. Front fender stay

6

Front fender stiffener

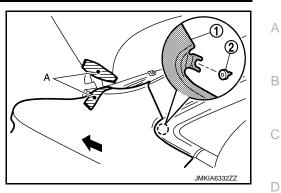
FRONT FENDER

< REMOVAL AND INSTALLATION >

Move front fender (1) toward vehicle front, and then disengage clip (2).
 CAUTION:

Apply protective tape (A) on the hood and front fender to protect the painted surface from damage.

() : Clip



11. Remove front fender assembly.

INSTALLATION

INSTALLATION		
Note the following items, and then install in the reverse order of removal.		E
CAUTION:		
• After installation, apply the touch-up paint (the body color) onto the head of front fend	der mounting	
bolts.		F
 After installation, adjust the following part. Hood assembly: Refer to <u>DLK-425, "HOOD ASSEMBLY : Adjustment"</u>. 		
- Front door: Refer to DLK-434, "DOOR ASSEMBLY : Adjustment".		
HOOD SIDE COVER		G
HOOD SIDE COVER		
HOOD SIDE COVER : Removal and Installation	INFOID:000000009649429	
		Н
REMOVAL		
1. Disconnect end of hood side cover from front combination lamp.		
 Remove fixing clips, and then remove hood side cover. 		
INSTALLATION		
Install in the reverse order of removal.		J

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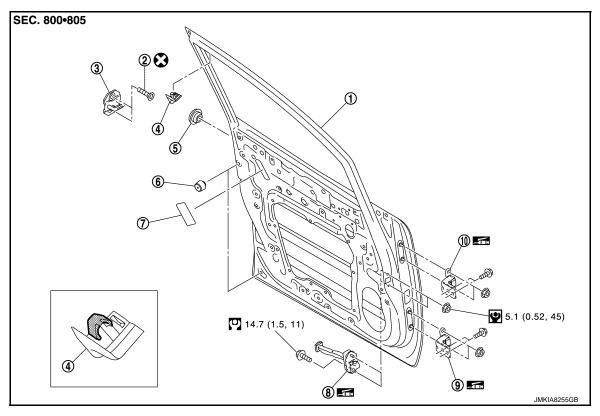
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< REMOVAL AND INSTALLATION >

FRONT DOOR

Exploded View

INFOID:000000009649430



2. TORX bolt

5. Grommet

8. Door check link

- 1. Front door panel
- 4. Front door sash inner cover
- 7. Hole cover
- 10. Door hinge (upper)
- : Always replace after every disassembly.
- : N·m (kg-m, in-lb)
- : N·m (kg-m, ft-lb)
- : Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

WARNING:

Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.

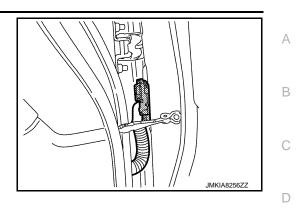
REMOVAL

1. Remove front door protect molding. Refer to <u>EXT-25, "FRONT DOOR PROTECT MOLDING : Removal</u> and Installation".

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

< REMOVAL AND INSTALLATION >

2. Disconnect front door harness connector.



- 3. Remove mounting bolt of door check link on the vehicle.
- 4. Remove door hinge mounting nuts (door side), and then remove door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check front door open/close, lock/unlock operation after installation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-434, "DOOR ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to <u>SRC-15, "On Board Diag-</u> <u>nosis Function"</u> or <u>SRC-19, "CONSULT Function"</u>.
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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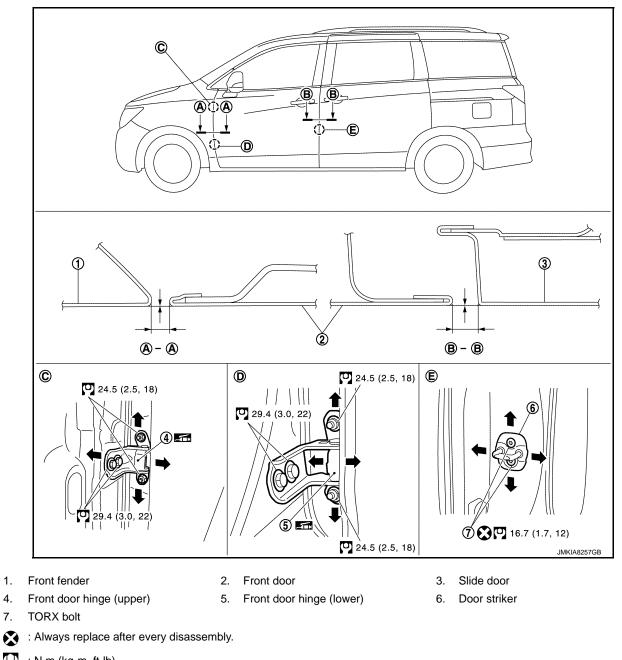
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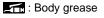
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< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment



O : N⋅m (kg-m, ft-lb)



Check the clearance and the 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.

Portion			Standard
		Clearance	3.5 – 5.5 mm (0.138 – 0.217 in)
Front fender – Front door	A – A	Surface height	(–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]

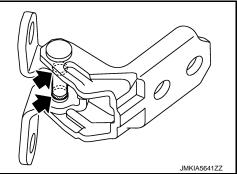
< REMOVAL AND INSTALLATION >

	Ро	Standard							
Front door – Slide door			Clearance	3.5 – 5.5 mm (0.138 – 0.217 in) (–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]					
		B – B	Surface height						
FIT	TING ADJUSTMENT PROC	EDURE							
1.	Remove front fender. Refer to	DLK-430), "FRONT FENDER : Rei	moval and Installation".	C				
2.	Loosen door hinge mounting r	nuts on do	oor side.		0				
3.									
 Temporarily tighten door hinge mounting nuts on door side. 									
5.	Loosen door hinge mounting b	olts on be	ody side.						
6.	Raise front door at rear end to sion.	o adjust c	learance of the front door	according to the fitting standard dimen-	E				
7.	After adjustment tighten bolts	and nuts t	to the specified torque.						
	 CAUTION: After installation, apply to and nuts. 	uch-up p	aint (the body color) or	nto the head of hinge mounting bolts	F				
	Check door hinge rotating	part for	poor lubrication. If neces	ssary, apply body grease.					
8.	Install front fender. Refer to re-	fer to DLk	K-430, "FRONT FENDER	: Removal and Installation"	G				
DO	OR STRIKER ADJUSTMEN	т							
Adj	ust door striker so that it becom	nes paralle	el with door lock insertion	direction.					
DC	OR STRIKER				ŀ				
	OR STRIKER : Remova	al and Ir	netallation						
			Istallation	INFOID:00000009649433					
RE	MOVAL				1				
Rer	nove TORX bolts, and then ren	nove door	r striker.						
INS	TALLATION				J				
	e the following items, and then	install in t	the reverse order of remove	val.					
	UTION: heck front door open/close, o	poration	after installation		DL				
				efer to <u>DLK-434, "DOOR ASSEMBLY :</u>	וט				
<u>A</u>	djustment"		0,						
DC	OR HINGE				L				
	OR HINGE : Removal a	and Inst	allation	INFOID:00000009649434					
				INF-01D:00000009649434					
RE	MOVAL				N				
WA	RNING:								
		witch OF	F, disconnect battery ne	egative terminal and wait 3 minutes or					
mo	re. UTION:								
-	erform work with 2 workers, I	because	of its heavy weight.						
		front do	or assembly, support do	por with a jack and shop cloth to pro-	C				
	ect door and body.			e e vel e e el la stalla Carell					
	Remove front fender. Refer to				_				
2.	•			BLY : Removal and Installation".	F				
3.	Remove front door hinge mou	nung polt	s (body side), and then re	niove noni door ninge.					
	STALLATION	la stall la s							
	e the following items, and then UTION:	install in 1	ine reverse order of remo	vai.					
	pply anticorrosive agent onto	o the mou	unting surface.						

Apply anticorrosive agent onto the mounting surface.
Check front door open/close, lock/unlock operation after installation.

< REMOVAL AND INSTALLATION >

- After installation, perform the fitting adjustment. Refer to <u>DLK-434, "DOOR ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - + : Grease up point



• If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to <u>SRC-15, "On Board Diagnosis Function"</u> or <u>SRC-19, "CONSULT Function"</u>.

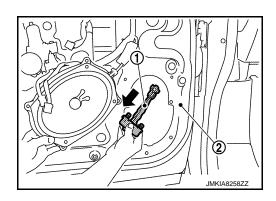
• After the work is completed, check that no system malfunction is detected by air bag warning lamp. DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000009649435

REMOVAL

- 1. Fully close the front door window.
- 2. Remove front door finisher. Refer to INT-14, "Removal and Installation".
- 3. Remove bracket mounting bolts of front door speaker.
- 4. Remove front door speaker and bracket as a set, and move them aside.
- 5. Remove mounting bolt of door check link on the vehicle.
- 6. Remove mounting nuts of door check link on door panel.
- 7. Take door check link (1) out from the hole of door panel (2).

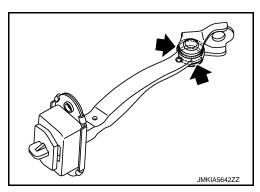


INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Check front door open/close operation after installation.
- Check door check link rotating part for poor lubrication. If necessary, apply grease.

+ : Grease up point



< REMOVAL AND INSTALLATION >

SLIDE DOOR

Exploded View

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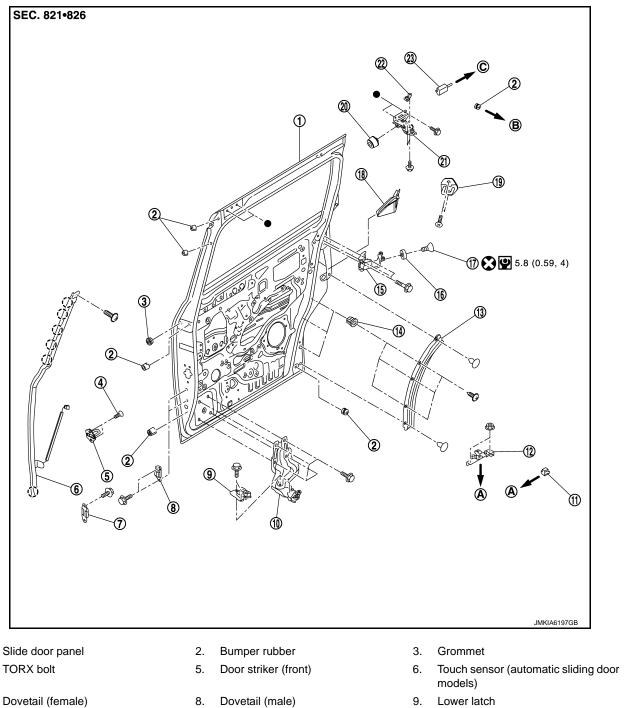
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- 10. Lower roller
- 13. Slide door lower weather-strip
- 16. Roller

1.

4.

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- 19. Door striker (rear)
- 22. Sub roller
- А : To slide door lower rail
- В : To body outer panel
- С : Slide door upper rail

- 8. Dovetail (male)
- 11. Slide door lower stopper
- 14. Screw grommet
- 17. TORX bolt
- 20. Stopper rubber
- 23. Slide door upper stopper

- 9. Lower latch
- 12. Slide door lower striker
- 15. Rear roller
- 18. Slide door outside protector
- 21. Upper roller assembly

< REMOVAL AND INSTALLATION >

() : Clip

Always replace after every disassembly.

: N·m (kg-m, in-lb)

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

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CAUTION:

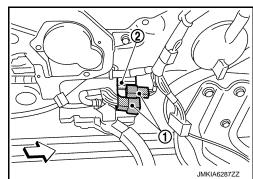
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

- 1. Remove slide door protect molding. Refer to <u>EXT-26</u>, "SLIDE DOOR PROTECT MOLDING : Removal <u>and Installation"</u>.
- 2. Remove slide door finisher. Refer to INT-17. "Removal and Installation".
- 3. Remove lower latch. Refer to DLK-443. "LOWER LATCH : Removal and Installation".
- 4. Disconnect uninterruptible power supply harness from slide door panel.
- a. Disconnect harness connector (1).

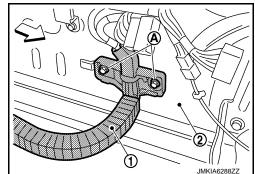
 \triangleleft : Vehicle front





c. Remove mounting bolts (A), and then remove uninterruptible power supply harness (1) from slide door panel (2).

 \triangleleft : Vehicle front



- 5. Remove upper roller assembly mounting bolts. Refer to <u>DLK-441, "UPPER ROLLER : Removal and</u> <u>Installation"</u>.
- 6. Remove rear roller mounting bolts. Refer to <u>DLK-442, "REAR ROLLER : Removal and Installation"</u>.

< REMOVAL AND INSTALLATION >

 Remove lower roller mounting bolts. Refer to <u>DLK-442, "LOWER ROLLER : Remove</u> Remove slide door assembly. 	al and Installation". A	
INSTALLATION Note the following items, and then install in the reverse order of removal. CAUTION: • Apply anticorrosive agent onto the mounting surface.	В	
 Check slide door open/close, lock/unlock operation after installation. After installation, perform the fitting adjustment. Refer to <u>DLK-440, "DOOR A</u> <u>ment"</u>. After installation, apply touch-up paint (the body color) onto the head of slide color. 		
bolts.	D	
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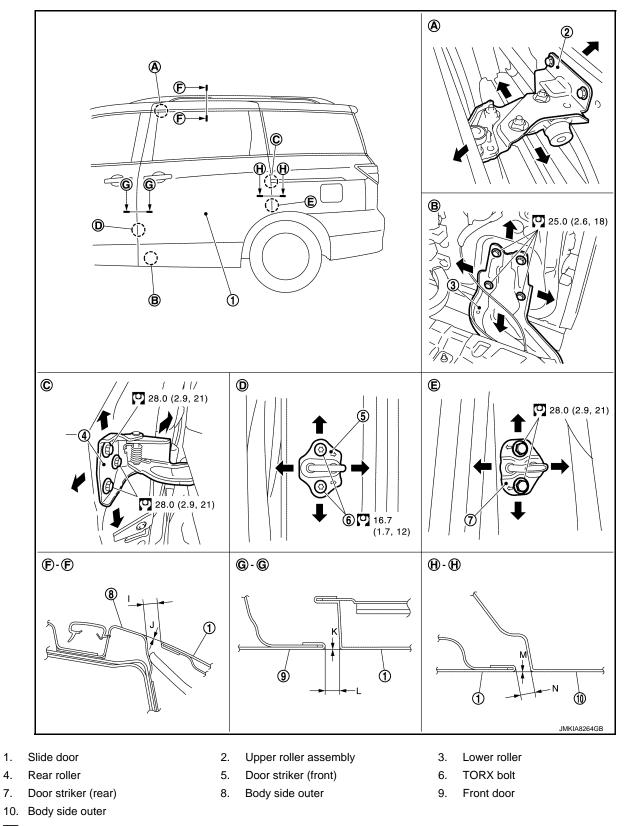
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< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

INFOID:000000009649438



: N·m (kg-m, ft-lb)

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7.

Check the clearance and the surface height between slide door 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.

< REMOVAL AND INSTALLATION >

Port	Standard			
		I.	Clearance	5.1 – 7.1 mm (0.201 – 0.280 in)
Slide door – Body side outer	F-F	J	Surface height	(–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]
Front door – Slide door	G – G	K	Surface height	(–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]
		L	Clearance	3.5 – 6.5 mm (0.138 – 0.256 in)
Slide door – Body side outer	н-н	М	Surface height	(–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]
		Ν	Clearance	3.3 – 6.3 mm (0.130 – 0.248 in)
ITTING ADJUSTMENT PROCE		vr ond	roor rollor mountin	a bolta adjust the surface of alide de
	ension.			
oosen the upper roller assembly, loccording to the fitting standard dim OOR STRIKER ADJUSTMENT adjust door striker so that it become CAUTION:	ension. es parallel	with	door lock insertion	direction.
oosen the upper roller assembly, loccording to the fitting standard dim OOR STRIKER ADJUSTMENT adjust door striker so that it become CAUTION: After installation, apply touch-up polts.	ension. es parallel • paint (tl	with o he bo	door lock insertion dy color) onto th	direction. e head of slide door roller mounti
oosen the upper roller assembly, le according to the fitting standard dim OOR STRIKER ADJUSTMENT adjust door striker so that it become AUTION: After installation, apply touch-up polts. OOOR STRIKER	ension. es parallel • paint (tl	with o he bo	door lock insertion dy color) onto th	ng bolts, adjust the surface of slide do direction. e head of slide door roller mountir

Door striker (rear)

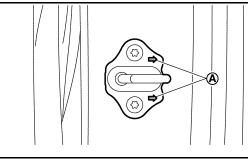
Remove mounting bolts, and then remove door striker (rear).

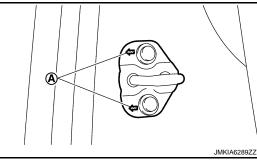
INSTALLATION

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

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-440, "DOOR ASSEMBLY :</u> <u>Adjustment"</u>.
- After installation, check that the direction of arrows (A), as shown in the figure, faces toward passenger room.





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Door striker (front)

UPPER ROLLER

UPPER ROLLER : Removal and Installation

CAUTION:

DLK-441

Door striker (rear)

INFOID:000000009649440

< REMOVAL AND INSTALLATION >

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

- 1. Remove slide door upper stopper. Refer to <u>DLK-447, "SLIDE DOOR UPPER STOPPER : Removal and</u> <u>Installation"</u>.
- 2. Support the front of slide door with the proper material to prevent it from falling.
 - WARNING:

Bodily injury may occur if no supporting jack is holding slide door open when removing upper roller assembly.

- 3. Remove upper roller assembly mounting bolts.
- 4. Remove upper roller assembly and sub roller as a set.

INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check slide door open/close operation after installation.
- When removing and installing slide door assembly, perform the fitting adjustment. Refer to <u>DLK-440</u>, <u>"DOOR ASSEMBLY : Adjustment"</u>.
- After installing, apply the touch-up paint (the body color) onto the head of upper roller mounting bolts.

REAR ROLLER

REAR ROLLER : Removal and Installation

INFOID:000000009649441

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

- 1. Remove slide door rail cover. Refer to EXT-43, "Removal and Installation".
- 2. Support the end of slide door with the proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting jack is holding slide door open when removing rear roller.

- 3. Remove rear roller mounting bolts.
- 4. Disconnect cable holder of automatic sliding door unit (automatic sliding door models). Refer to <u>DLK-474</u>. <u>"AUTOMATIC SLIDING DOOR UNIT : Removal and Installation"</u>.
- 5. Remove rear roller.

INSTALLATION

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

- CAUTION:
- Apply anticorrosive agent onto the mounting surface.
- Check slide door open/close operation after installation.
- When removing and installing slide door assembly, perform the fitting adjustment. Refer to <u>DLK-440</u>, <u>"DOOR ASSEMBLY : Adjustment"</u>.
- After installing, apply the touch-up paint (the body color) onto the head of rear roller mounting bolts. LOWER ROLLER

LOWER ROLLER : Removal and Installation

INFOID:000000009649442

CAUTION:

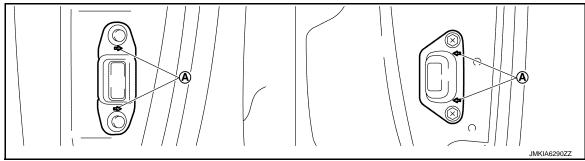
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.

< R	EMOVAL AND INSTALLATION >	
REI	MOVAL	
1. 2.	Remove slide door finisher. Refer to <u>INT-17, "Removal and Installation"</u> . Remove lower latch. Refer to <u>DLK-443, "LOWER LATCH : Removal and Installation"</u> .	A
3.	Remove slide door lower striker. Refer to <u>DLK-446, "SLIDE DOOR LOWER STRIKER : Removal and</u> <u>Installation"</u> .	В
4.	Support the front of slide door with the proper material to prevent it from falling. WARNING:	0
	Bodily injury may occur if no supporting jack is holding slide door open when removing lower roller.	С
5.	Remove the mounting bolts, and then remove the lower roller.	D
Note CAI • A • C	TALLATION e the following items, and then install in the reverse order of removal. JTION: oply anticorrosive agent onto the mounting surface. heck slide door open/close operation after installation.	Е
"[hen removing and installing slide door assembly, perform the fitting adjustment. Refer to <u>DLK-440,</u> <u>DOOR ASSEMBLY : Adjustment</u> ". Iter installing, apply the touch-up paint (the body color) onto the head of lower roller mounting	F
bo	olts. WER LATCH	0
-	WER LATCH : Removal and Installation	G
REI	MOVAL	Н
1. 2. 3.	Remove rear kicking plate. Refer to <u>INT-22, "KICKING PLATE : Removal and Installation"</u> . Remove lower latch mounting bolts. Disconnect remote control door lock cable (2) from lower latch	I
5.	(1).	J DLK
	JMKIA6323ZZ	L
Not	TALLATION e the following item, and then install in the reverse order of removal. JTION:	M
Afte	er installation, check door open/close, lock/unlock operation. IVETAIL	Ν
DO	VETAIL : Removal and Installation	
	MOVAL nove the mounting bolts, and then remove the dovetail (male/female).	0
	TALLATION	Ρ
Inst	all in the reverse order of removal.	
1. 2.	Install dovetail (male). Temporarily tighten dovetail (female) mounting bolts.	
2. 3.	Perform the fitting adjustment.	
a. b.	Open and close two or three times slide doors. Open the slide door, and then tighten the dovetail (female) mounting bolts.	
υ.	open are side deer, and aren agricer are devolar fremale, mounting bolls.	

< REMOVAL AND INSTALLATION >

CAUTION:

After installation, check that the direction of arrows (A), as shown in the figure, faces toward passenger room.



Dovetail (female)

Dovetail (male)

BUMPER RUBBER

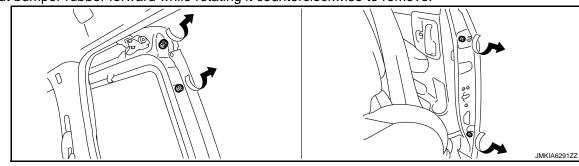
BUMPER RUBBER : Removal and Installation

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BUMPER RUBBER

Removal

Pull out bumper rubber forward while rotating it counterclockwise to remove.



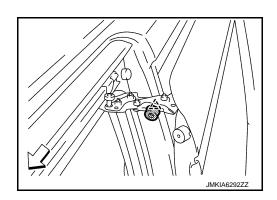
Installation Install in the reverse order of removal.

STOPPER RUBBER

Removal

Disengage pawl of stopper rubber to remove.

Pawl : ۲



Installation

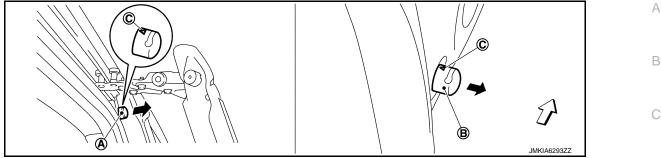
Install in the reverse order of removal.

BUMPER RUBBER (BODY UPPER PORTION AND SLIDE DOOR REAR LOWER PORTION)

Removal

< REMOVAL AND INSTALLATION >

Pull out and disengage bumper rubber to remove.



CAUTION:

When installing, check that \triangle mark (C) on bumper rubber of body upper portion (A) and slide door rear lower portion (B) are visible to vehicle upper side.

Installation

Install in the reverse order of removal. SLIDE DOOR LOWER WEATHER-STRIP

SLIDE DOOR LOWER WEATHER-STRIP : Removal and Installation

REMOVAL

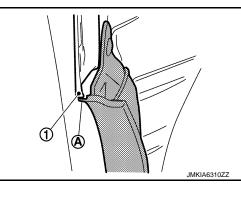
Remove fixing screws and clips, and then remove slide door lower weather-strip.

INSTALLATION

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

CAUTION: • When installing, check that lip portion (A) of slide door lower

weather-strip overlaps end of slide door panel (1).



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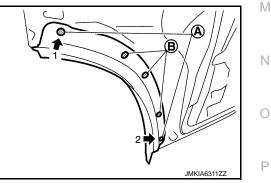
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• When installing, install mounting clips (A) and mounting screws (B) in numerical order as shown in the figure.



SLIDE DOOR OUTSIDE PROTECTOR

SLIDE DOOR OUTSIDE PROTECTOR : Removal and Installation

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REMOVAL

Remove slide door outside protector while peeling double-sided adhesive tape.

< REMOVAL AND INSTALLATION >

INSTALLATION

Install slide door panel (2) while checking the installation position of slide door outside protector (1).

- Align to vehicle vertical position mark (A).
- Align to vehicle longitudinal position mark (B).
- Align lower end of slide door outside protector to be parallel to lock opening portion.

NOTE:

When reusing slide door outside protector, remove double-sided adhesive tape from protector and slide door panel sides, clean the applied area of double-sided adhesive tape, and then install slide door outside protector to slide door panel using new double-sided adhesive tape.

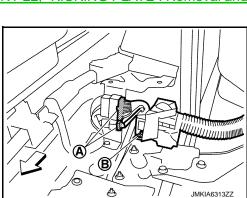
Double-sided tape t: 1.2 mm (0.047 in)

SLIDE DOOR LOWER STRIKER

SLIDE DOOR LOWER STRIKER : Removal and Installation

REMOVAL

- 1. Remove rear kicking plate and rear floor step assembly. Refer to <u>INT-22, "KICKING PLATE : Removal and Installation"</u> and <u>INT-20, "Exploded View"</u>.
- 2. Disconnect uninterruptible power supply harness from slide door lower striker.
- a. Disconnect harness connector (A).
- b. Remove uninterruptible power supply harness mounting nut (B).



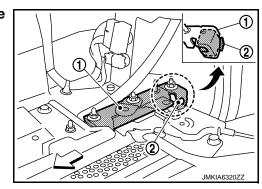
INFOID:000000009649448

3. Remove mounting nuts, and then remove slide door lower striker.

INSTALLATION

Note the following item, and then install in the reverse order of removal. **CAUTION:**

Fix rear end of slide door lower striker (1) to rear portion of slide door lower stopper (2).



SLIDE DOOR LOWER STOPPER

SLIDE DOOR LOWER STOPPER : Removal and Installation

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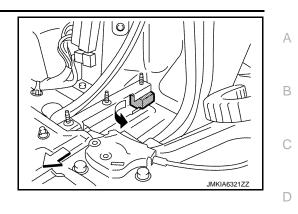
REMOVAL

1. Remove slide door lower striker. Refer to <u>DLK-446</u>, "<u>SLIDE DOOR LOWER STRIKER</u> : <u>Removal and</u> <u>Installation</u>".

DLK-446

< REMOVAL AND INSTALLATION >

- 2. Remove slide door lower stopper.



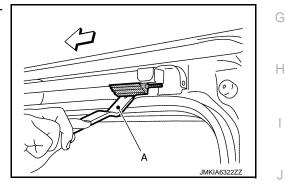
INSTALLATION Install in the reverse order of removal. SLIDE DOOR UPPER STOPPER

SLIDE DOOR UPPER STOPPER : Removal and Installation

REMOVAL

- 1. Slide the slide door upper stopper toward vehicle front.
- 2. Use a remover tool (A), and then remove slide door upper stopper.

: Vehicle front



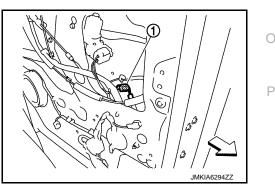
INSTALLATION Install in the reverse order of removal. TOUCH SENSOR

TOUCH SENSOR : Removal and Installation

REMOVAL

- 1. Remove remote control assembly. Refer to DLK-473, "REMOTE CONTROL ASSEMBLY : Removal and Installation".
- 2. Remove front side of sealing screen.
 - NOTE: Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.
- 3. Disconnect touch sensor harness connector (1).

C : Vehicle front



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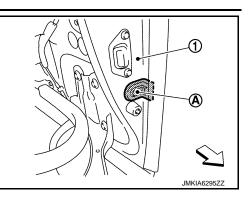
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< REMOVAL AND INSTALLATION >

- 4. Remove grommet (A), and then pull out harness from slide door panel (1).
 - \triangleleft : Vehicle front



5. Remove mounting screws and mounting clips, and then pull touch sensor toward vehicle front to remove. CAUTION:

Never hit or bend touch sensor strongly.

INSTALLATION

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

CAUTION:

After installation, check that slide door is reversed normally.

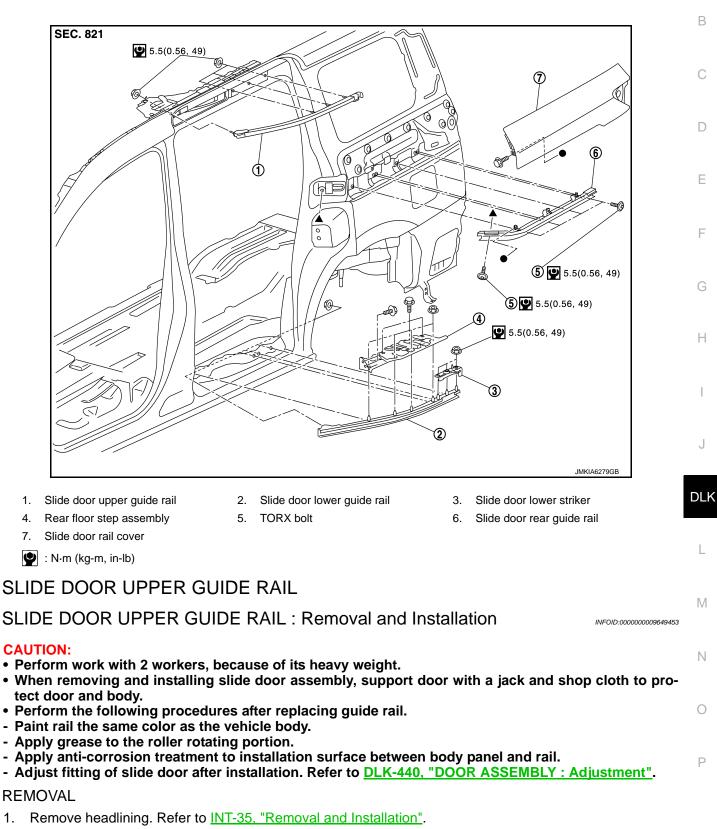
< REMOVAL AND INSTALLATION >

SLIDE DOOR GUIDE RAIL

Exploded View

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- 2. Remove slide door assembly. Refer to DLK-438, "DOOR ASSEMBLY : Removal and Installation".
- 3. Remove slide door upper stopper. Refer to <u>DLK-447, "SLIDE DOOR UPPER STOPPER : Removal and</u> <u>Installation"</u>.

SLIDE DOOR GUIDE RAIL

< REMOVAL AND INSTALLATION >

- 4. Remove upper roller assembly and sub roller as a set. Refer to <u>DLK-441, "UPPER ROLLER : Removal</u> <u>and Installation"</u>.
- 5. Remove mounting nuts, and then remove slide door upper guide rail.

INSTALLATION

Install in the reverse order of removal. SLIDE DOOR REAR GUIDE RAIL

SLIDE DOOR REAR GUIDE RAIL : Removal and Installation

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CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.
- Perform the following procedures after replacing guide rail.
- Paint rail the same color as the vehicle body.
- Apply anti-corrosion treatment to installation surface between body panel and rail.
- Adjust fitting of slide door after installation. Refer to DLK-440, "DOOR ASSEMBLY : Adjustment".

REMOVAL

- 1. Remove slide door assembly. Refer to <u>DLK-438</u>, "DOOR ASSEMBLY : Removal and Installation".
- 2. Remove slide door rail cover. Refer to EXT-43. "Removal and Installation".
- 3. Remove rear roller. Refer to DLK-442, "REAR ROLLER : Removal and Installation".
- 4. Remove luggage side lower finisher. Refer to <u>INT-43</u>, "LUGGAGE SIDE LOWER FINISHER : Removal <u>and Installation"</u>.
- 5. Remove mounting TORX bolts and nuts, and then remove slide door rear guide rail.

INSTALLATION

Install in the reverse order of removal. SLIDE DOOR LOWER GUIDE RAIL

SLIDE DOOR LOWER GUIDE RAIL : Removal and Installation

INFOID:000000009649455

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.
- Perform the following procedures after replacing guide rail.
- Paint rail the same color as the vehicle body.
- Apply anti-corrosion treatment to installation surface between body panel and rail.
- Apply anti-corrosion treatment to each end of mounting nuts and stud bolts of rail.
- Adjust fitting of slide door after installation. Refer to DLK-440, "DOOR ASSEMBLY : Adjustment".

REMOVAL

- 1. Remove slide door assembly. Refer to DLK-438, "DOOR ASSEMBLY : Removal and Installation".
- 2. Remove rear kicking plate. Refer to INT-22, "KICKING PLATE : Removal and Installation".
- 3. Remove mounting bolts, and then remove rear floor step assembly.
- 4. Remove slide door lower striker. Refer to <u>DLK-446</u>, "<u>SLIDE DOOR LOWER STRIKER</u> : <u>Removal and</u> <u>Installation</u>".
- 5. Remove slide door lower stopper. Refer to <u>DLK-446. "SLIDE DOOR LOWER STOPPER : Removal and</u> <u>Installation"</u>.
- 6. Remove lower roller. Refer to <u>DLK-442, "LOWER ROLLER : Removal and Installation"</u>.
- 7. Remove mounting nuts, and then remove slide door lower guide rail.

INSTALLATION

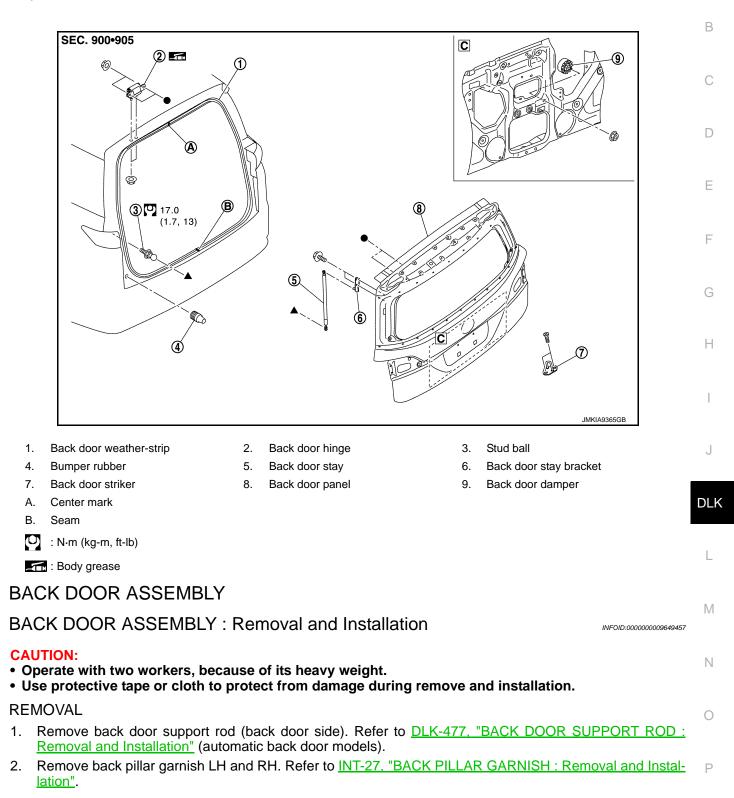
Install in the reverse order of removal.

< REMOVAL AND INSTALLATION > BACK DOOR

Exploded View

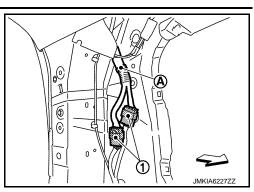
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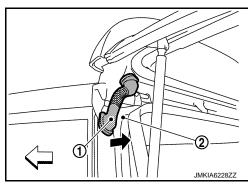


< REMOVAL AND INSTALLATION >

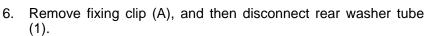
- 3. Disconnect harness connectors (1) and remove harness fixing clip (A).

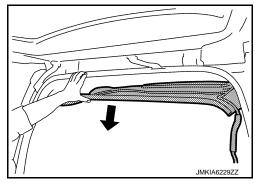


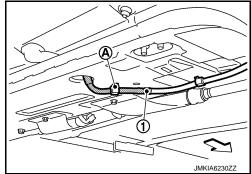
- 4. Remove grommet (1), and then pull out harness from back main pillar (2).
 - \triangleleft : Vehicle front



- 5. Lower rear portion of headlining and secure work space.
- a. Remove rear pillar garnish LH and RH. Refer to <u>INT-27, "REAR PILLAR GARNISH : Removal and Instal-</u> lation".
- b. Remove roof side garnish LH and RH. Refer to <u>INT-28, "ROOF SIDE GARNISH : Removal and Installa-</u> tion".
- c. Remove upper side of back door weather-strip. Refer to <u>DLK-457, "BACK DOOR WEATHER-STRIP :</u> <u>Removal and Installation"</u>.
- d. Remove second assist grips LH and RH, third assist grips LH and RH and third seat belt finisher LH and RH, and then remove rear portion of headlining. Refer to <u>INT-35, "Removal and Installation"</u>.

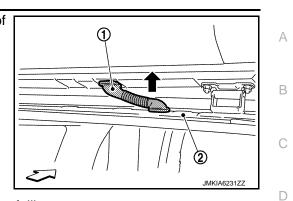






< REMOVAL AND INSTALLATION >

- 7. Remove grommet (1), and then pull out washer tube from roof panel (2).



8. Support back door lock with the proper material to prevent it from falling.

WARNING:

Body injury may occur if no supporting rod is holding the back door open when removing the back door stay. $\hfill \ensuremath{\mathbb{E}}$

- 9. Remove back door stay (back door side). Refer to <u>DLK-456, "BACK DOOR STAY : Removal and Installa-</u> tion".
- 10. Remove back door hinge mounting nuts on back door and remove back door assembly.

INSTALLATION

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

- CAUTION:
- Apply anticorrosive agent onto the mounting surface.
- Check back door open/close, lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to <u>DLK-454, "BACK DOOR ASSEMBLY : Adjust-ment"</u>.

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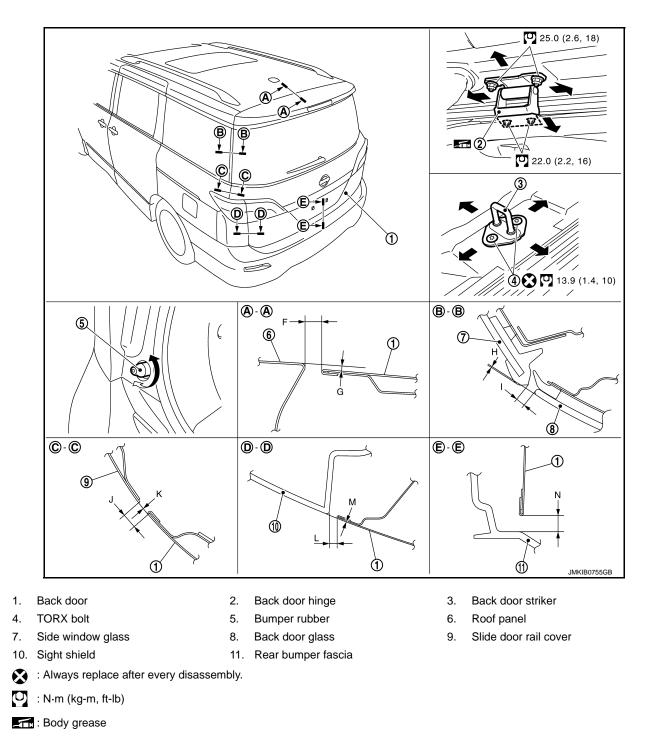
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< REMOVAL AND INSTALLATION >

BACK DOOR ASSEMBLY : Adjustment

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Check the clearance and the surface height between back door and each part by seeing and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

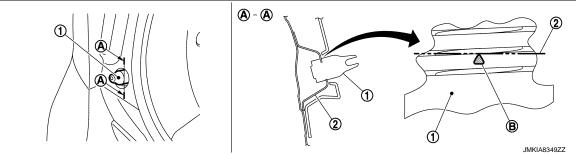
Portion				Standard	Difference (RH/LH)
Back door – Roof panel A – A		F	Clearance	5.5 – 8.5 mm (0.217 – 0.335 in)	_
	A – A	G	Surface height	0.0 – 2.0 mm (0.000 – 0.079 in)	_

< REMOVAL AND INSTALLATION >

Portic	on	Standard	Difference (RH/LH)		
Back door glass – Side win- dow glass	B – B	н	Surface height	(–1.6) – (+2.4) mm [(–0.063) – (+0.094) in]	1.5 mm (0.059 in)
		I	Clearance	3.0 – 7.0 mm (0.118 – 0.276 in)	_
Back door – Slide door rail cover	C – C	J	Clearance	4.0 – 8.0 mm (0.157 – 0.315 in)	_
		ĸ	Surface height	(–1.5) – (+1.5) mm [(–0.059) – (+0.059) in]	—
Back door – Sight shield		L	Clearance	3.3 – 6.7 mm (0.130 – 0.264 in)	_
	D – D	Μ	Surface height	(–1.7) – (+1.7) mm [(–0.067) – (+0.067) in]	_
Back door – Rear bumper fascia	E-E	Ν	Clearance	6.0 – 10.0 mm (0.236 – 0.394 in)	_

FITTING ADJUSTMENT PROCEDURE

- 1. Loosen back door striker mounting bolts.
- 2. Loosen back door hinge mounting nuts (back door side).
- Adjust back door using back door striker and back door hinge to the specified value, as shown in the following table.
- 4. After adjustment tighten back door striker mounting bolts and back door hinge mounting nuts (back door side) to the specified torque.
- 5. Viewing from vehicle upper, insert bumper rubber (1) into bumper rubber bracket (2) to the position of alignment mark (B).



CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.
- Adjust the following parts.
- Rear view camera.
- DISPLAY AUDIO: Refer to <u>AV-116, "Adjustment"</u>.
- BASE AUDIO WITH SEPARATE DISPLAY: Refer to <u>AV-267, "Adjustment"</u>.
- BOSE AUDIO WITHOUT NAVIGATION: Refer to <u>AV-426, "Adjustment".</u>
- BOSE AUDIO WITH NAVIGATION: Refer to <u>AV-528</u>, "CALIBRATING CAMERA IMAGE (AROUND VIEW <u>MONITOR)</u> : Work Procedure".

BACK DOOR STRIKER ADJUSTMENT

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

BACK DOOR STRIKER : Removal and Installation

REMOVAL

- 1. Remove tailgate kicking plate. Refer to INT-40, "TAILGATE KICKING PLATE : Removal and Installation".
- 2. Remove mounting TORX bolts, and then remove back door striker.

DLK-455

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< REMOVAL AND INSTALLATION >

INSTALLATION

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

- Check back door open/close operation after installation.
- When removing and installing back door striker, check to perform the fitting adjustment. Refer to <u>DLK-454, "BACK DOOR ASSEMBLY : Adjustment"</u>.

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

CAUTION:

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

REMOVAL

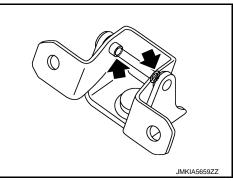
- 1. Remove back door assembly. Refer to DLK-451, "BACK DOOR ASSEMBLY : Removal and Installation".
- 2. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

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

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check back door open/close operation after installation.
- When removing and installing back door assembly, perform the fitting adjustment. Refer to <u>DLK-454</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.
- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - : Grease up point



BACK DOOR STAY

BACK DOOR STAY : Removal and Installation

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REMOVAL

1. Support back door lock with the proper material to prevent it from falling.

WARNING:

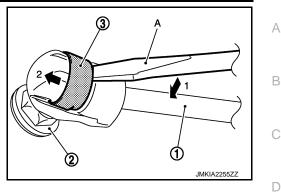
Body injury may occur if no supporting rod is holding the back door open when removing the back door stay.

 Remove back door stay mounting bolts.
 CAUTION: Be careful not to damage painted surface.

< REMOVAL AND INSTALLATION >

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

Be careful not to damage painted surface.



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4. Remove back door stay.

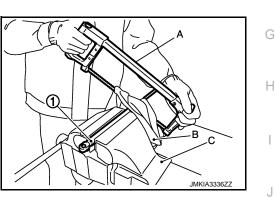
INSTALLATION

Note the following item, and then install in the reverse order of removal. **CAUTION:**

Check back door open/close operation after installation.

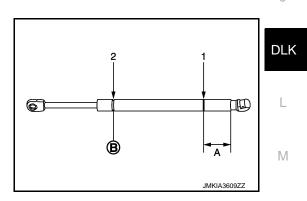
BACK DOOR STAY : Disposal

- 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.





B: Cut at the groove.



BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Removal and Installation

REMOVAL

- 1. Remove back door support rod (back door side). Refer to <u>DLK-477, "BACK DOOR SUPPORT ROD :</u> <u>Removal and Installation"</u>.
- Pull up and remove engagement with body from weather-strip joint. CAUTION: Never pull strongly on weather-strip.

INSTALLATION

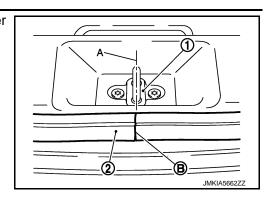
1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.

DLK-457

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< REMOVAL AND INSTALLATION >

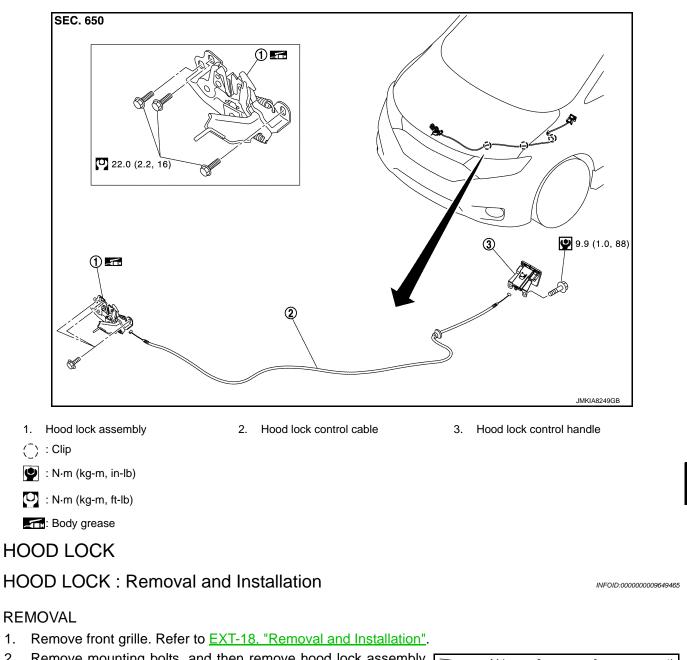
Align the connecting point (B) of weather-strip (2) to the center (A) of striker (1), and then install as shown in the figure.



- Pull weather-strip gently to ensure that there is no loose section.
 NOTE: Check that weather-strip is fit tightly at each corner and tailgate kicking plate.
- Install back door support rod (back door side). Refer to <u>DLK-477, "BACK DOOR SUPPORT ROD :</u> <u>Removal and Installation".</u>

< REMOVAL AND INSTALLATION > HOOD LOCK

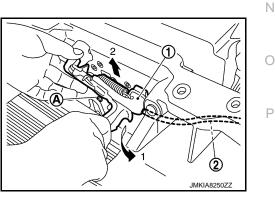
Exploded View



2. Remove mounting bolts, and then remove hood lock assembly (1). NOTE:

Press the lever downward to avoid pin (A), then pull out hood lock assembly upward. **CAUTION:**

Never bend hood lock control cable (2) strongly.



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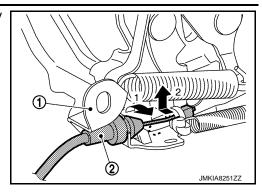
Μ

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HOOD LOCK

< REMOVAL AND INSTALLATION >

 Disconnect hood lock control cable (2) from hood lock assembly (1).



INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:**

- After installation, perform hood fitting adjustment. Refer to <u>DLK-425, "HOOD ASSEMBLY : Adjust-ment"</u>.
- After installation, perform hood lock control inspection. Refer to <u>DLK-461, "Inspection"</u>. HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Removal and Installation

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REMOVAL

- 1. Disconnect hood lock control cable from hood lock assembly. Refer to <u>DLK-459</u>, "HOOD LOCK : Removal <u>and Installation"</u>.
- 2. Remove fender protector LH (front and rear). Refer to EXT-23, "Removal and Installation".
- 3. Remove hood lock cable fixing clips.
- 4. Disconnect hood lock control cable from hood lock control handle. Refer to <u>DLK-461, "HOOD LOCK</u> <u>CONTROL HANDLE : Removal and Installation"</u>.
- 5. Remove grommet on the lower dash, and pull the hood lock control cable toward the passenger compartment.

CAUTION:

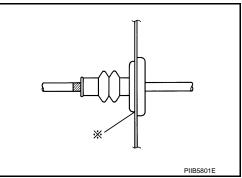
While pulling, never to damage (peeling) the outside of hood lock control cable.

INSTALLATION

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

CAUTION:

- Never to bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at * mark) properly.



- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to <u>DLK-425, "HOOD ASSEMBLY : Adjust-ment"</u>.
- After installation, perform hood lock control inspection. Refer to <u>DLK-461, "Inspection"</u>.

HOOD LOCK CONTROL HANDLE

HOOD LOCK

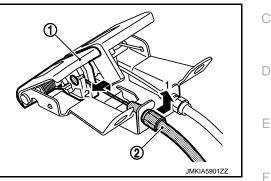
< REMOVAL AND INSTALLATION >

HOOD LOCK CONTROL HANDLE : Removal and Installation

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REMOVAL

- 1. Remove mounting bolts, and then hood lock control handle.
- 2. Remove fuel filler lid opener cable. Refer to <u>DLK-480, "FUEL FILLER OPENER CABLE : Removal and</u> <u>Installation"</u>.
- Remove hood lock control cable (2) from hood lock opener lever (1).



3. Secondary latch

INSTALLATION

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

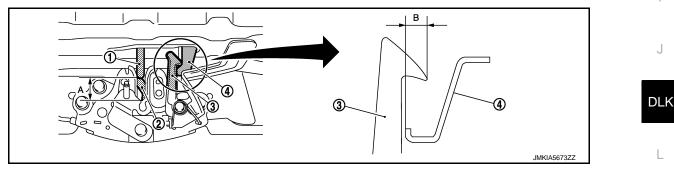
CAUTION:

After installation, perform hood lock control inspection. Refer to DLK-461, "Inspection".

Inspection	INFOID:00000009649468	Н
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NOTE:

If the hood lock cable is bent or deformed, replace it.



1. Primary striker

4. Secondary striker

- 1. Check that secondary latch (3) is securely engaged with securely secondary striker (4) from the dead load of the hood assembly.
- Check that primary latch (2) is securely engaged with primary striker (1) when hood assembly is closed [free-fall from approximately 200 mm (7.874 in) height].
 CAUTION:

Never free-fall hood assembly from a height of 300 (11.811 in) mm or more.

2. Primary latch

- 3. While operating the hood opener carefully, check that the front end of the hood is lifted by approximately 20 mm (0.787 in) (A). Also, check that the hood opener returns to the original position.
- 4. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).

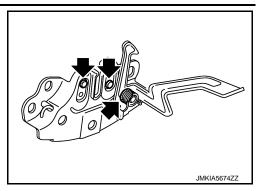
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HOOD LOCK

< REMOVAL AND INSTALLATION >

- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.
 - : Grease up point



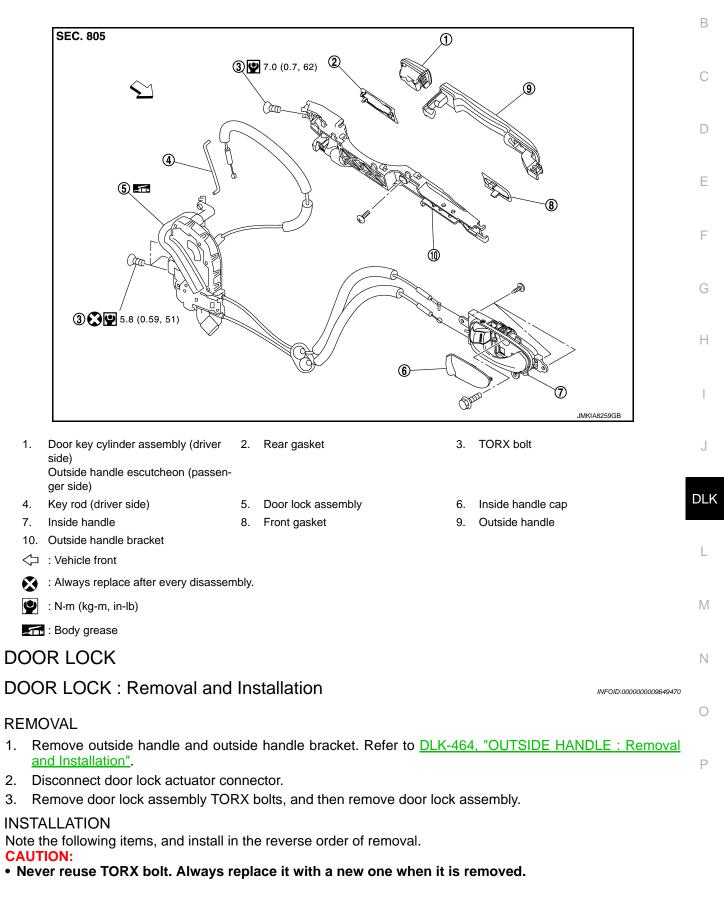
< REMOVAL AND INSTALLATION >

FRONT DOOR LOCK

Exploded View

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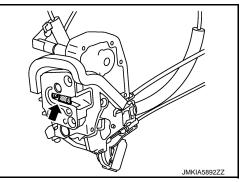
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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

- Check door open/close, lock/unlock operation after installation.
- Check door lock cable is properly engaged with outside handle bracket.
- Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.
 - : Grease up point



INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to INT-14, "Removal and Installation".
- 2. Remove inside handle mounting screws, and then remove the inside handle.

INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:**

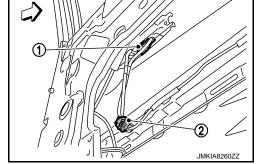
Check door lock cables are properly engaged with inside handle.
After installation, check door open/close, lock/unlock operation.
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

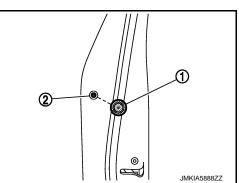
REMOVAL

- 1. Remove module base. Refer to <u>GW-29, "Removal and Installation"</u>.
- 2. Disconnect key rod from door lock assembly (driver side).
- 3. Remove door antenna harness connector fixing clip (1), and then disconnect harness connector (2).

└□ : Vehicle front



4. Remove grommet (1) of door side. Loosen, through grommet hole, TORX bolt (2) that fixes door lock cylinder. (For passenger side, TORX bolt fixes outside handle escutcheon.)



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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

5. While pulling outside handle, remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).

6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

- 7. Remove front gasket and rear gasket.
- 8. Peel hole cover (1) carefully, and then remove TORX bolt (2), which is fixing outside handle bracket, through hole. **CAUTION:**

When affixing hole cover, if affixing force is insufficient, replace hole cover.

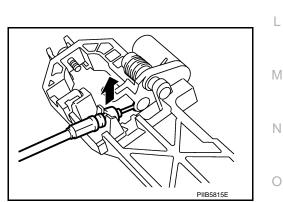
- 9. Slide outside handle bracket toward front of vehicle to remove.
- 10. Disconnect outside handle cable from outside handle bracket.

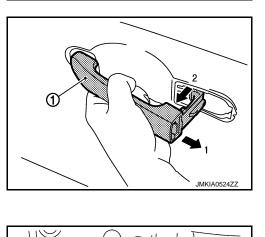
CAUTION:

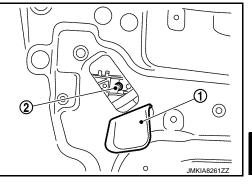
INSTALLATION

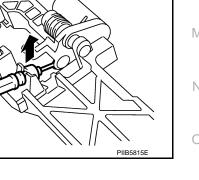
• After installation, check door open/close, lock/unlock operation.

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









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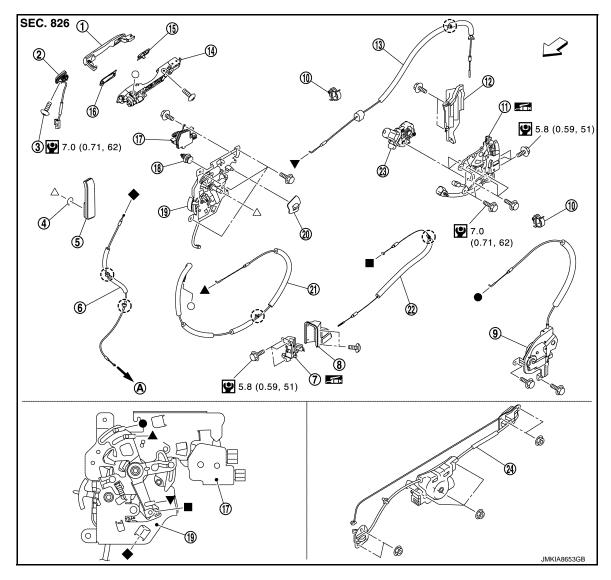
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< REMOVAL AND INSTALLATION >

SLIDE DOOR LOCK

Exploded View

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- 1. Outside handle assembly
- 4. Snap pin
- 7. Slide door lock assembly (front)
- 10. Cable clip
- 13. Slide door lock cable (rear)
- 16. Front gasket
- 19. Remote control assembly
- 22. Slide door lock cable (front)
- A : To lower latch
- (_) : Clip
- \triangleleft : Vehicle front
- : N·m (kg-m, in-lb)
- : Body grease
- **CAUTION:**
- Apply anticorrosive agent onto the mounting surface.
- Revision: 2014 May

- 2. Outside handle escutcheon
- 5. Inside handle
- 8. Slide door lock cover (front)
- 11. Slide door lock assembly (rear)
- 14. Outside handle bracket
- 17. Slide door lock actuator
- 20. Lock knob
- 23. Slide door closure motor

- 3. TORX bolt
- 6. Remote control door lock cable
- 9. Slide door lock release actuator
- 12. Slide door lock cover (rear)
- 15. Rear gasket
- 18. Clip
- 21 Outside handle cable
- 24. Automatic sliding door unit

SLIDE DOOR LOCK

< REMOVAL AND INSTALLATION >

- During removal and installation, work so as not to bend the ends of the cable.
- After installation, check door open/close, lock/unlock operation.

 Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary. DOOR LOCK

DOOR LOCK : Removal and Installation

SLIDE DOOR LOCK ASSEMBLY (FRONT)

Removal

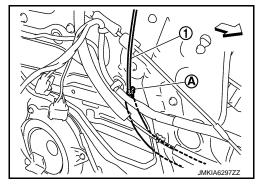
- Fully close the slide door glass. 1
- D 2. Remove remote control assembly. Refer to DLK-473, "REMOTE CONTROL ASSEMBLY : Removal and Installation".
- 3. Remove lock release actuator. Refer to <u>DLK-474, "LOCK RELEASE ACTUATOR : Removal and Installa-</u> tion".
- 4. Remove sealing screen.

NOTE:

Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing F screen is reused.

5. Remove cable fixing clip (A) of slide door lock cable (1).

C : Vehicle front



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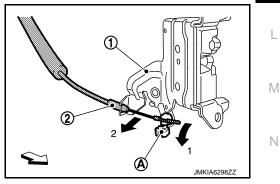
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- 6. Remove mounting bolt, and then remove slide door lock assembly (front) and slide door lock cable (front) as a set.
- Disconnect slide door lock cable (front) from slide door lock assembly (front).
- a. Remove fixing screw, and then remove slide door lock cover (front)
- Open cable mounting clip (A) of slide door lock assembly (front) b. (1).
- Disconnect slide door lock cable (front) (2). C.

: Vehicle front \triangleleft



Installation

Note the following items, and then install in the reverse order of removal. CAUTION:

- Always adjust cable when assembling slide door lock cable (front) to slide door lock assembly P (front). Refer to DLK-469, "DOOR LOCK : Inspection and Adjustment".
- After installation, check door open/close, lock/unlock operation.

SLIDE DOOR LOCK ASSEMBLY (REAR)

Removal

1. Fully close the slide door glass.

SLIDE DOOR LOCK

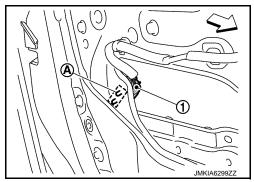
< REMOVAL AND INSTALLATION >

- 2. Remove remote control assembly. Refer to <u>DLK-473, "REMOTE CONTROL ASSEMBLY : Removal and Installation"</u>.
- 3. Remove lock release actuator. Refer to <u>DLK-474, "LOCK RELEASE ACTUATOR : Removal and Installa-</u> tion".
- 4. Remove sealing screen. **NOTE:**

Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

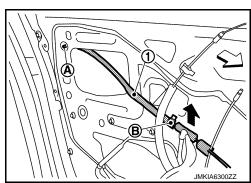
5. Remove harness connector fixing clip (A), and then disconnect slide door lock assembly harness connector (1).

<□ : Vehicle front

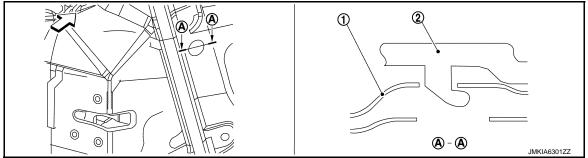


- 6. Remove cable fixing clip (A)
- 7. Disengage slide door lock cable (rear) (1) from cable clip (B).

<□ : Vehicle front



- 8. Remove door lower sash (rear) of slide door glass. Refer to <u>GW-32, "Exploded View"</u>.
- 9. Remove mounting bolt, and then remove slide door lock assembly (rear) and slide door lock cable (rear) as a set.
- a. Remove slide door lock (rear) mounting bolts.
- b. Remove slide door lock (rear) (2) from reinforcement (1) of slide door panel



- 10. Disconnect slide door lock cable (rear) from slide door lock assembly (rear).
- a. Remove fixing screw, and then remove slide door lock cover (rear)

< REMOVAL AND INSTALLATION >

b. Open cable mounting clip (A) of slide door lock assembly (rear) (1).

Disconnect harness connector of slide door closure motor.

DOOR LOCK : Inspection and Adjustment

tus. (Press until it clicks.)

ADJUSTMENT OF SLIDE DOOR LOCK CABLE (FRONT)

Remove mounting molts, and then slide door closure motor.

- Disconnect slide door lock cable (rear) (2). c.
 - \triangleleft : Vehicle front

a.

b.

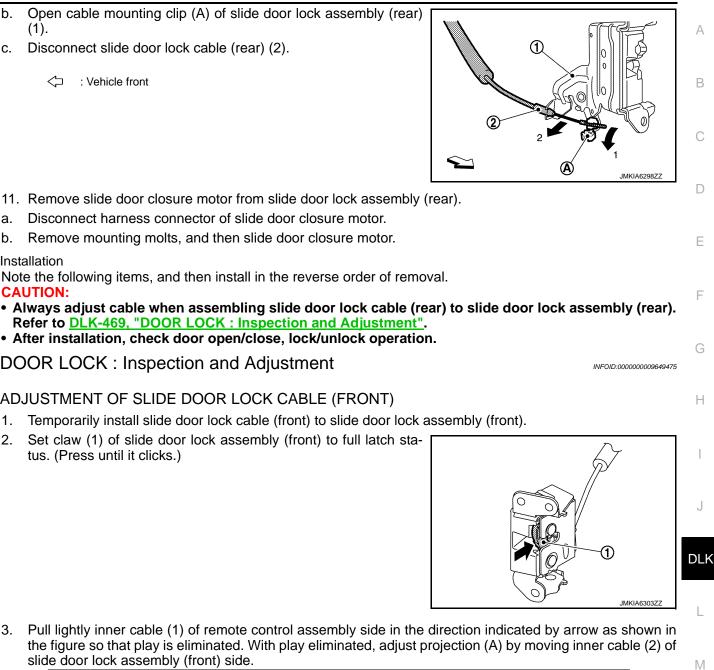
1.

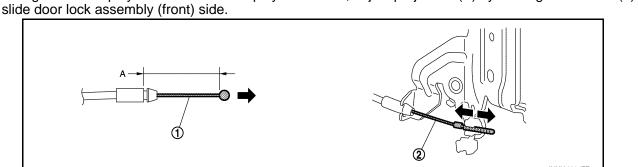
2.

3.

Installation

CAUTION:





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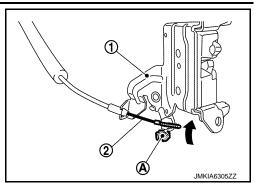
: 45.8 – 47.2 mm (1.803 – 1.852 in) Α

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< REMOVAL AND INSTALLATION >

4. After the adjustment, close cable mounting clip (A) of slide door lock assembly (front) (1) and fix inner cable (2).



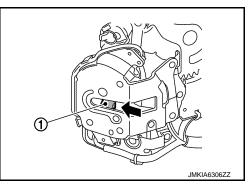
CAUTION:

Check the following items after assembling slide door lock assembly (front) to slide door panel.

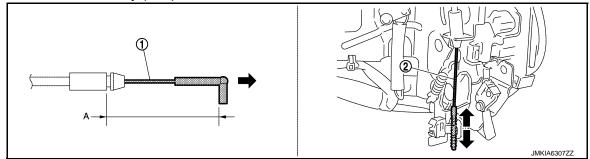
- Check that there is no slack in remote control assembly and inner cable.
- Check that no pulling tension by inner cable is applied to lever of remote control assembly.

ADJUSTMENT OF SLIDE DOOR LOCK CABLE (REAR)

- 1. Temporarily install slide door lock cable (rear) to slide door lock assembly (rear).
- 2. Set claw (1) of slide door lock assembly (front) to full latch status. (Press until it clicks.)

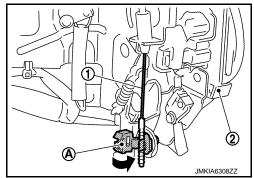


3. Pull lightly inner cable (1) of remote control assembly side in the direction indicated by arrow as shown in the figure so that play is eliminated. With play eliminated, adjust projection (A) by moving inner cable (2) of slide door lock assembly (rear) side.



A : 49.5 – 50.9 mm (1.949 – 2.004 in)

4. After the adjustment, close cable mounting clip (A) of slide door lock assembly (front) (2) and fix inner cable (1).



CAUTION:

< REMOVAL AND INSTALLATION >

Check the following items after assembling slide door lock assembly (rear) to slide door panel.

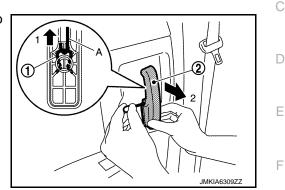
Check that there is no slack in remote control assembly and inner cable.

 Check that no pulling tension by inner cable is applied to lever of remote control assembly. INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

REMOVAL

- 1. Hang snap pin (1) on hook and pick tool (A) and pull it up to remove.
- 2. Remove inside handle (2)



INSTALLATION

Note the following item, and then install in the reverse order of removal. CAUTION: After installation, check door open/close, lock/unlock operation. OUTSIDE HANDLE

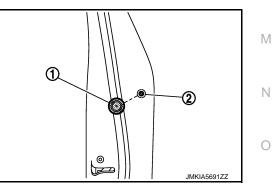
OUTSIDE HANDLE : Removal and Installation

REMOVAL

- 1. Fully close slide door glass.
- Remove remote control assembly. Refer to DLK-473. "REMOTE CONTROL ASSEMBLY : Removal and 2. J Installation".
- Remove upper side of sealing screen. NOTE:

DLK Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

- Remove fixing clip of sliding door one-touch open/close switch harness connector, and then disconnect sliding door one-touch open/close switch harness connector.
- Remove grommet (1) door side. Loosen, through grommet hole, 5. TORX bolt (2) that fixes outside handle escutcheon.



Remove outside handle escutcheon. 6

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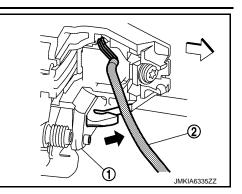
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< REMOVAL AND INSTALLATION >

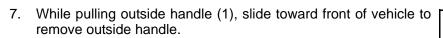
- a. Disconnect sliding door one-touch open/close switch harness connector (2) from outside handle bracket (1).
 - ${\textstyle \triangleleft} : {\sf Vehicle front}$

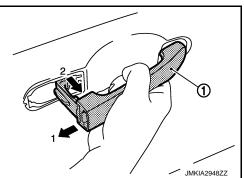


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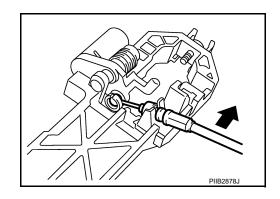
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b. While pulling outside handle (1), remove outside handle escutcheon (2).





- 8. Remove front gasket and rear gasket.
- 9. Through the hole, remove TORX bolt that is fixing outside handle bracket.
- 10. Slide outside handle bracket toward rear of vehicle to remove.
- 11. Disconnect outside handle cable from outside handle bracket.



INSTALLATION

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

After installation, check door open/close, lock/unlock operation. REMOTE CONTROL ASSEMBLY

SLIDE DOOR LOCK < REMOVAL AND INSTALLATION > **REMOTE CONTROL ASSEMBLY : Removal and Installation** INFOID:000000009649478 REMOVAL Remove slide door finisher. Refer to <u>INT-17, "Removal and Installation"</u>. 2. Pull lock knob toward passenger room side and remove. Disengage cable holder (A), and then separate lock release actuator cable (2), outside handle cable (3), 3. slide door lock cable (rear) (4), slide door lock cable (front) (5) and lower latch cable (6) from remote control assembly (1). CAUTION: Be careful not to bend cable end. 2 T 8 ➀ ())

- 4. Disconnect harness connector (8) and (9) (automatic sliding door models) of slide door lock actuator (7).
- 5. Disconnect remote control assembly harness connector (10) (automatic sliding door models).
- 6. Remove mounting bolts and mounting clips. Remove remote control assembly and slide door lock actua- P tor as a set.

INSTALLATION

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

CAUTION: After installation, check door open/close, lock/unlock operation. LOCK RELEASE ACTUATOR

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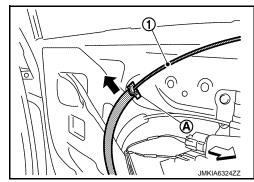
< REMOVAL AND INSTALLATION >

LOCK RELEASE ACTUATOR : Removal and Installation

REMOVAL

- 1. Remove slide door finisher. Refer to INT-17, "Removal and Installation".
- Disconnect cable of lock release actuator from remote control assembly. Refer to <u>DLK-473</u>, "<u>REMOTE</u> <u>CONTROL ASSEMBLY</u>: <u>Removal and Installation</u>".
- 3. Disengage lock release actuator cable (1) from cable clip (A).

: Vehicle front



- Disconnect harness connector (A) from lock release actuator (1).
 Remove mounting bolts (B), and then remove lock release actu-

INSTALLATION

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

CAUTION:

ator

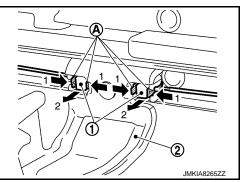
After installation, check door open/close, lock/unlock operation. AUTOMATIC SLIDING DOOR UNIT

AUTOMATIC SLIDING DOOR UNIT : Removal and Installation

INFOID:000000009649480

REMOVAL

- 1. Remove luggage side lower finisher. Refer to <u>INT-43</u>, "LUGGAGE SIDE LOWER FINISHER : Removal <u>and Installation"</u>.
- 2. Remove rear ventilator pillar duct. Refer to <u>VTL-8</u>, "Exploded View". (automatic sliding door unit RH only)
- 3. Separate rear roller from slide door assembly. Refer to <u>DLK-442, "REAR ROLLER : Removal and Installa-</u> tion".
- 4. Disconnect cable holder of automatic sliding door unit from rear roller.
- a. Disengage pawl (A) of cable holder (1), and then remove cable holder from rear roller (2).



< REMOVAL AND INSTALLATION >

b. Remove cable holder (2) from cable (1) of automatic sliding door unit

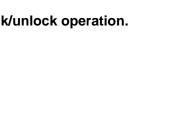
 Remove mounting nut (A) of front pulley (1), and then pull front side cable of automatic sliding door unit into the vehicle.
 CAUTION:

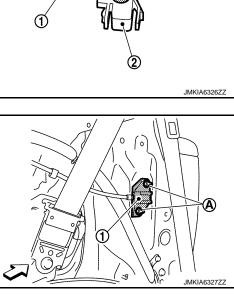
Be careful not to damage body paint surface when pulling cable into the vehicle.

- \triangleleft : Vehicle front
- Remove mounting nut (A) of rear pulley (1), and then pull front side cable of automatic sliding door unit into the vehicle.
 CAUTION:

Be careful not to damage body paint surface when pulling cable into the vehicle.

- 7. Disconnect harness connector (1) from automatic sliding door unit (2).
- 8. Remove mounting nuts (A), and then remove automatic sliding door unit.





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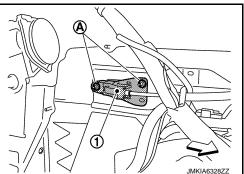
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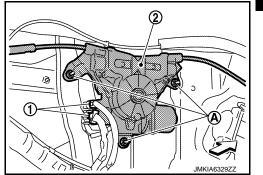
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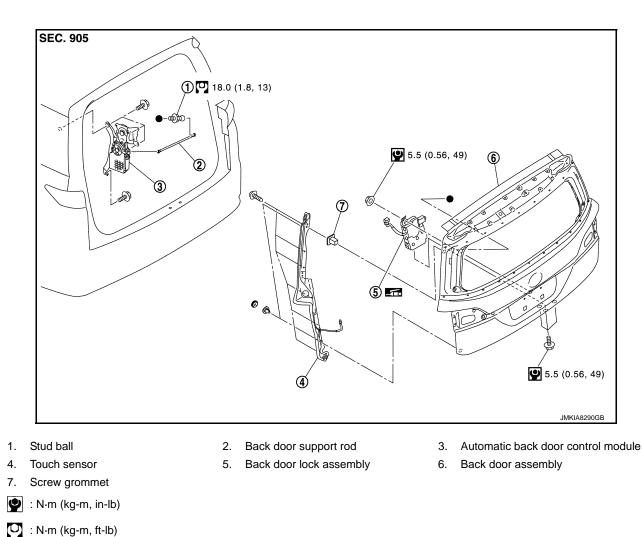
INSTALLATION

Note the following item, and then install in the reverse order of removal. **CAUTION:**

BACK DOOR LOCK

Exploded View

INFOID:000000009649481



DOOR LOCK

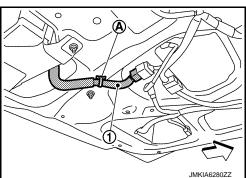
: Body grease

DOOR LOCK : Removal and Installation

INFOID:000000009649482

REMOVAL

- 1. Remove back door lower finisher. Refer to <u>INT-48</u>, "BACK DOOR LOWER FINISHER : Removal and <u>Installation"</u>.
- 2. Disconnect harness connector (1), and then remove harness fixing clip (A) and harness connector fixing clip.



BACK DOOR LOCK

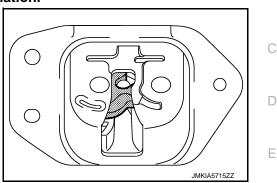
< REMOVAL AND INSTALLATION >

3. Remove back door lock mounting bolts and nut, and then remove back door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:**

- Check back door open/close, lock/unlock operation after installation.
- Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.



BACK DOOR SUPPORT ROD

BACK DOOR SUPPORT ROD : Removal and Installation

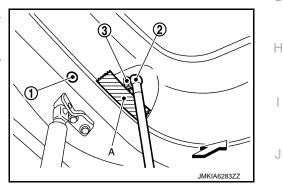
REMOVAL

1. Remove stud ball (3) of back door support rod (2) from back door assembly (1).

CAUTION:

Apply protective tape (A) on the door panel to protect the painted surface from damage.

<□ : Vehicle front



 Remove automatic back door control module. Refer to <u>DLK-495</u>, "<u>Removal and Installation</u>". NOTE:

When replacing back door support rod, replace stud ball and automatic back door control module as a set, since back door support rod is engaged and connected to stud ball and automatic back door control module.

INSTALLATION

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

- When reusing stud ball, always apply locking sealant before installing stud ball to back door.
- Check back door open/close operation after installation.

TOUCH SENSOR

TOUCH SENSOR : Removal and Installation

CAUTION:

Take care not to bend touch sensor.

REMOVAL

- 1. Remove back door lower finisher. Refer to <u>INT-48, "BACK DOOR LOWER FINISHER : Removal and</u> <u>Installation"</u>.
- 2. Disconnect touch sensor harness connector.

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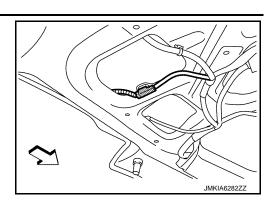
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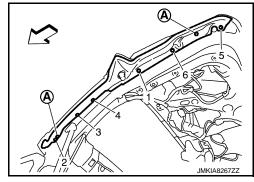
- 3. Remove fixing clips and screws of touch sensor.
- 4. Pull harness of touch sensor out of back door and remove touch sensor.

INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:**

• After installing touch sensor using fixing clips (A), tighten fixing screws in numerical order as shown in the figure.

<□ : Vehicle front



• Check back door open/close operation after installation. EMERGENCY LEVER

EMERGENCY LEVER : Unlock procedures

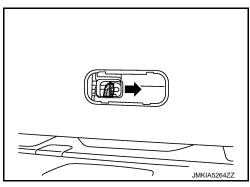
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UNLOCK PROCEDURES

NOTE:

If back door lock cannot be unlocked due to a malfunction or battery discharge, follow the procedures to unlock back door.

- 1. Remove the emergency lid. Refer to INT-50, "EMERGENCY LID : Removal and Installation".
- 2. From inside the vehicle, rotate emergency lever toward lower direction and unlock.



FUEL FILLER LID OPENER

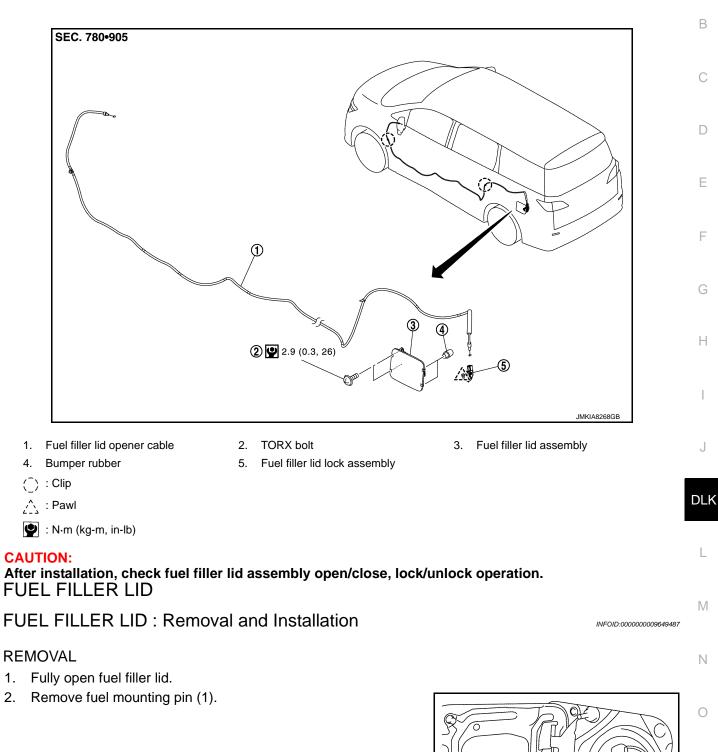
< REMOVAL AND INSTALLATION >

FUEL FILLER LID OPENER

Exploded View

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FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

3. Remove mounting screws, and then remove fuel filler lid.

INSTALLATION

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

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation. NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.

	Clearance	Evenness
Fuel filler lid – Body side outer	2.0 – 4.0 mm (0.079 – 0.157 in)	(-1.0) – (+1.0) mm [(-0.039) – (+0.039) in]

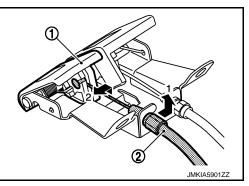
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

INFOID:000000009649488

REMOVAL

- 1. Remove hood lock control handle from instrument lower panel LH. Refer to <u>DLK-461, "HOOD LOCK</u> <u>CONTROL HANDLE : Removal and Installation"</u>.
- 2. Remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).



- 3. Remove front kicking plate LH and rear kicking plate LH. Refer to <u>INT-22, "KICKING PLATE : Removal</u> <u>and Installation"</u>.
- 4. Remove dash side finisher LH. Refer to INT-24, "DASH SIDE FINISHER : Removal and Installation".
- 5. Remove center pillar lower garnish LH. Refer to <u>INT-25, "CENTER PILLAR LOWER GARNISH : Removal</u> and Installation".
- 6. Remove luggage side lower finisher LH. Refer to <u>INT-43</u>, "LUGGAGE SIDE LOWER FINISHER : <u>Removal and Installation</u>".
- 7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to <u>DLK-480, "FUEL FILLER LID</u> <u>LOCK : Removal and Installation"</u>.
- 8. Remove fuel filler lid opener cable from each harness clamp of body harness.
- 9. Remove fuel filler lid opener cable fixing clips, and then remove fuel filler lid opener cable.

INSTALLATION

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

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation. FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000009649489

REMOVAL

- 1. Fully open fuel filler lid.
- 2. Remove luggage side lower finisher LH. Refer to <u>INT-43, "LUGGAGE SIDE LOWER FINISHER :</u> <u>Removal and Installation"</u>.

DLK-480

FUEL FILLER LID OPENER

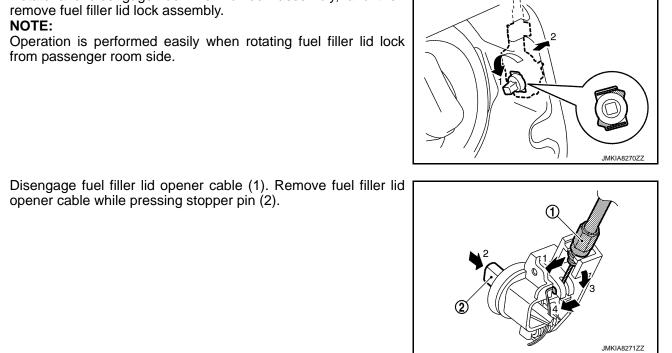
< REMOVAL AND INSTALLATION >

opener cable while pressing stopper pin (2).

4.

3. Rotate and disengage fuel filler lid lock assembly, and then remove fuel filler lid lock assembly. NOTE:

Operation is performed easily when rotating fuel filler lid lock from passenger room side.



INSTALLATION Note the following item, and install in the reverse order of removal. **CAUTION:** After installation, check fuel filler lid assembly open/close, lock/unlock operation.

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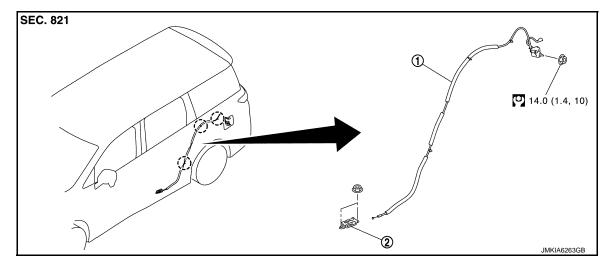
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< REMOVAL AND INSTALLATION > INTERLOCK

Exploded View

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- 1. Fuel filler inter lock assembly
- 2. Slide door inter lock

- () : Clip
- : N·m (kg-m, ft-lb)

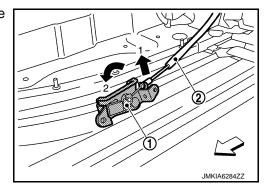
SLIDE DOOR INTERLOCK

SLIDE DOOR INTERLOCK : Removal and Installation

INFOID:000000009649491

REMOVAL

- 1. Remove rear floor step assembly. Refer to INT-20, "Exploded View".
- 2. Remove slide door interlock mounting nuts.
- 3. Disconnect cable (2) of fuel filler interlock assembly from slide door interlock (1).



INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- After installation, check slide door open/close operation.
- After installation, check fuel filler lid lock/unlock operation. FUEL FILLER INTERLOCK

FUEL FILLER INTERLOCK : Removal and Installation

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REMOVAL

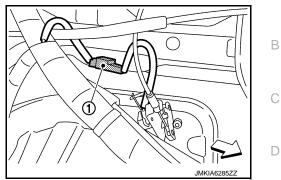
1. Remove slide door interlock. Refer to DLK-482, "SLIDE DOOR INTERLOCK : Removal and Installation".

DLK-482

INTERLOCK

< REMOVAL AND INSTALLATION >

- 2. Remove luggage side lower finisher. Refer to <u>INT-43</u>, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
- 3. Disconnect fuel filler lid status switch connector (1), and then remove harness connector fixing clip.



4.	Fully open fuel filler lid. CAUTION: Check in advance that fuel filler lid does not interfere with slide door.	E
	Remove fuel filler interlock assembly mounting nut. Remove cable fixing clips of fuel filler inter lock, and then remove fuel filler inter lock assembly.	F
INS Not	STALLATION the following items, and install in the reverse order of removal.	G
• A	fter installation, check slide door open/close operation. fter installation, check fuel filler lid lock/unlock operation.	Н

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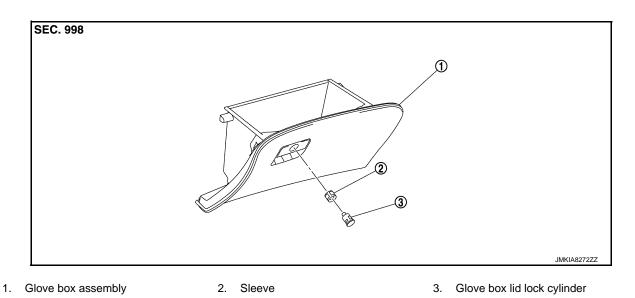
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KEY CYLINDER GLOVE BOX LID KEY CYLINDER

GLOVE BOX LID KEY CYLINDER : Exploded View

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CAUTION:

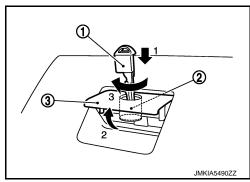
After installation, check glove box assembly open/close, lock/unlock operation.

GLOVE BOX LID KEY CYLINDER : Removal and Installation

INFOID:000000009649494

REMOVAL

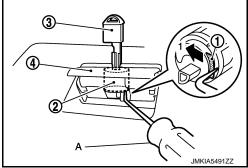
- 1. Remove glove box assembly. Refer to IP-14, "Removal and Installation".
- 2. Insert mechanical key (1) into glove box lid lock cylinder (2).
- 3. Set glove box lid release handle (3) to the pulled-up status.
- 4. Rotate mechanical key and turn glove box lid key cylinder to the lock position.



5. Press tumbler stopper (1) into glove box lid lock cylinder (2) using a hook and pick tool (A), and then remove mechanical key (3) and glove box lid lock cylinder together from glove box lid release handle (4).

NOTE:

When removing glove box lid lock cylinder, write a short note describing its position against glove box lid release handle.



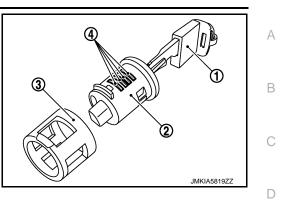
KEY CYLINDER

< REMOVAL AND INSTALLATION >

 Remove sleeve (3) from glove box lid release handle, and then install sleeve to glove box lid lock cylinder. NOTE:

When removing sleeve, write a short note describing its position against glove box lid release handle. **CAUTION:**

Never pull out mechanical key (1) from glove box lid lock cylinder (2) while sleeve is uninstalled. Otherwise, tumbler (4) pops out of glove box lid lock cylinder.



INSTALLATION

Note the following item, and then install in the reverse order of removal. CAUTION:

After installation, check glove box assembly open/close, lock/unlock operation.

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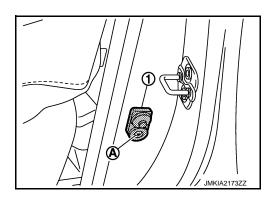
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DOOR SWITCH

Removal and Installation

REMOVAL

Remove the TORX bolt (A), and then remove door switch (1).



INSTALLATION Install in the reverse order of removal. INFOID:000000009649495

DOOR REQUEST SWITCH

< REMOVAL AND INSTALLATION >	
DOOR REQUEST SWITCH DRIVER SIDE	А
DRIVER SIDE : Removal and Installation	В
REMOVAL Remove the driver side outside handle. Refer to <u>DLK-464. "OUTSIDE HANDLE : Removal and Installation"</u> . INSTALLATION Install in the reverse order of removal. PASSENGER SIDE	C
PASSENGER SIDE : Removal and Installation	D
REMOVAL Remove the passenger side outside handle. Refer to <u>DLK-464, "OUTSIDE HANDLE : Removal and Installa-</u> tion".	Е
INSTALLATION Install in the reverse order of removal. BACK DOOR	F
BACK DOOR : Removal and Installation	0
REMOVAL Remove the back door finisher. Refer to <u>EXT-47, "Removal and Installation"</u> .	Η
INSTALLATION Install in the reverse order of removal.	
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INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Removal and Installation

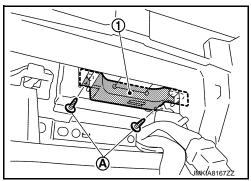
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REMOVAL

- 1. Remove the instrument lower center panel. Refer to IP-14, "Removal and Installation".
- 2. Remove the inside key antenna (instrument center) mounting screw (A), and then remove inside key antenna (instrument center) (1).

CAUTION:

Be careful not to drop mounting screw (A) into instrument panel.



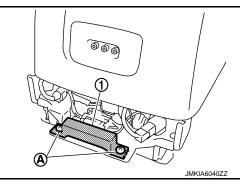
INSTALLATION Install in the reverse order of removal. CONSOLE

CONSOLE : Removal and Installation

INFOID:000000009649500

REMOVAL

- 1. Remove the console body assembly. Refer to IP-28, "Removal and Installation".
- 2. Remove the inside key antenna (console) mounting screw (A), and then remove inside key antenna (console) (1).



INSTALLATION Install in the reverse order of removal. LUGGAGE ROOM

LUGGAGE ROOM : Removal and Installation

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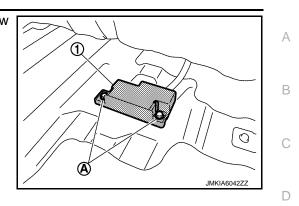
REMOVAL

1. Remove the rear floor carpet. Refer to INT-31, "REAR FLOOR CARPET : Removal and Installation".

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

2. Remove the inside key antenna (luggage room) mounting screw (A), and then remove inside key antenna (luggage room) (1).



INSTALLATION Install in the reverse order of removal.



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OUTSIDE KEY ANTENNA DRIVER SIDE

DRIVER SIDE : Removal and Installation

REMOVAL

Remove the driver side outside handle. Refer to DLK-464, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION Install in the reverse order of removal. PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

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REMOVAL

Remove the passenger side outside handle. Refer to <u>DLK-464, "OUTSIDE HANDLE : Removal and Installa-</u>tion".

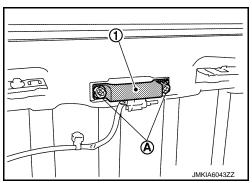
INSTALLATION Install in the reverse order of removal. REAR BUMPER

REAR BUMPER : Removal and Installation

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REMOVAL

- 1. Remove the rear bumper fascia. Refer to EXT-16, "REAR BUMPER : Removal and Installation".
- 2. Remove the outside key antenna (rear bumper) mounting clip (A), then remove outside key antenna (rear bumper) (1).



INSTALLATION Install in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

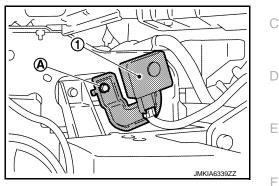
< REMOVAL AND INSTALLATION >

INTELLIGENT KEY WARNING BUZZER

Removal and Installation

REMOVAL

- 1. Remove the front bumper fascia. Refer to EXT-12, "Removal and Installation".
- 2. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



INSTALLATION Install in the reverse order of removal.

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REMOTE KEYLESS ENTRY RECEIVER

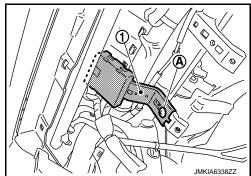
< REMOVAL AND INSTALLATION >

REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

REMOVAL

- 1. Remove the glove box lid. Refer to IP-14, "Removal and Installation"
- 2. Remove the remote keyless entry receiver mounting bolt (A), and then remote keyless entry receiver (1).



INSTALLATION Install in the reverse order of removal.

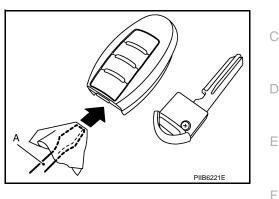
INTELLIGENT KEY BATTERY

< 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 remover tool (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part. CAUTION:
 - Do not touch the circuit board or battery terminal.
 - The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.

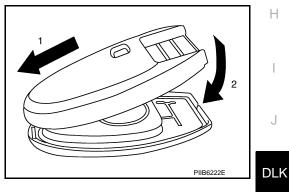


3. Replace the battery with new one.

Battery replacement

:Coin-type lithium battery (CR2025)

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



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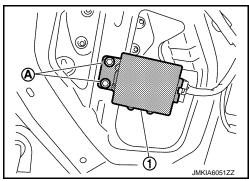
BACK DOOR CONTROL UNIT

Removal and Installation

INFOID:000000009649508

REMOVAL

- 1. Remove the back door lower finisher. Refer to <u>INT-48</u>, "BACK DOOR LOWER FINISHER : Removal and <u>Installation"</u>.
- 2. Remove the back door control unit mounting bolt (A), and then remove the back door control unit (1).



INSTALLATION Install in the reverse order of removal.

AUTOMATIC BACK DOOR CONTROL MODULE

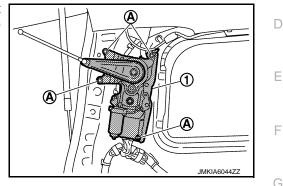
< REMOVAL AND INSTALLATION >

AUTOMATIC BACK DOOR CONTROL MODULE

Removal and Installation

REMOVAL

- 1. Remove the back pillar garnish LH. Refer to <u>INT-27. "BACK PILLAR GARNISH : Removal and Installa-</u> tion".
- Remove the back door support rod. Refer to <u>DLK-477. "BACK DOOR SUPPORT ROD : Removal and</u> C <u>Installation"</u>.
- Remove the automatic back door control module mounting bolt (A), and then remove the automatic back door control module (1).



INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing automatic back door control module, perform additional service when replace control unit. Refer to <u>DLK-169, "Work Procedure"</u>.

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AUTOMATIC BACK DOOR WARNING BUZZER

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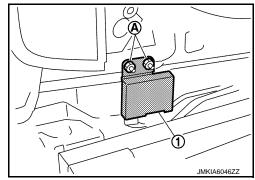
AUTOMATIC BACK DOOR WARNING BUZZER

Removal and Installation

INFOID:000000009649510

REMOVAL

- 1. Remove the rear bumper fascia. Refer to EXT-16, "REAR BUMPER : Removal and Installation".
- Remove the automatic back door warning buzzer mounting bolt (A), and then remove the automatic back door warning buzzer (1).



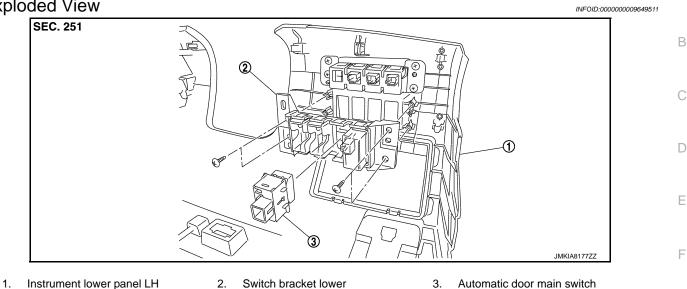
INSTALLATION Install in the reverse order of removal.

AUTOMATIC DOOR MAIN SWITCH

< REMOVAL AND INSTALLATION >

AUTOMATIC DOOR MAIN SWITCH

Exploded View

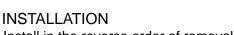


Removal and Installation

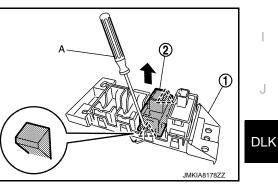
REMOVAL

- Remove the instrument lower panel LH. Refer to IP-14, "Removal and Installation". 1.
- 2. Removed automatic door main switch (1) from switch bracket lower (2) using remover tool (A).

<u>____</u> : Pawl



Install in the reverse order of removal.



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AUTOMATIC BACK DOOR CLOSE SWITCH

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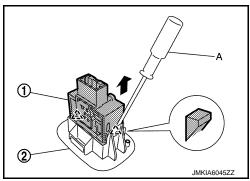
AUTOMATIC BACK DOOR CLOSE SWITCH

Removal and Installation

REMOVAL

- 1. Remove the automatic back door close switch finisher. Refer to <u>INT-48, "BACK DOOR LOWER FIN-ISHER : Removal and Installation"</u>.
- 2. Remove automatic back door close switch (1) from automatic back door close switch finisher (2) using remover tool (A).

2: Pawl

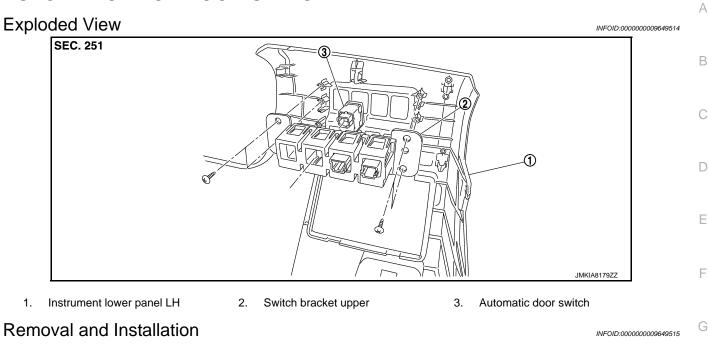


INSTALLATION Install in the reverse order of removal. INFOID:000000009649513

AUTOMATIC BACK DOOR SWITCH

< REMOVAL AND INSTALLATION >

AUTOMATIC BACK DOOR SWITCH

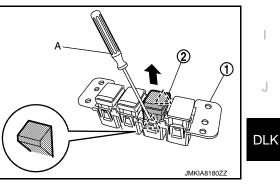


REMOVAL

- Remove the instrument driver lower panel. Refer to IP-14, "Removal and Installation". 1.
- Remove automatic back door switch (1) from switch bracket (2) 2. using remover tool (A).



Install in the reverse order of removal.





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SLIDING DOOR CONTROL UNIT

RH

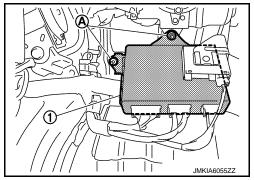
RH : Removal and Installation

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REMOVAL

- 1. Remove the luggage side lower finisher RH. Refer to <u>INT-43, "LUGGAGE SIDE LOWER FINISHER :</u> <u>Removal and Installation"</u>.
- 2. Remove the rear foot duct. Refer to VTL-13, "REAR FOOT DUCT : Removal and Installation".
- Remove the sliding door control unit RH mounting bolt and nats (A), and then remove the sliding door control unit RH (1).



INSTALLATION

Install in the reverse order of removal **NOTE:**

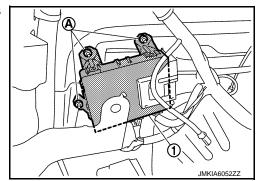
After installing sliding door control unit, perform additional service when replace control unit. Refer to <u>DLK-170, "Work Procedure"</u>.

LH

LH : Removal and Installation

REMOVAL

- 1. Remove the luggage side lower finisher LH. Refer to <u>INT-43, "LUGGAGE SIDE LOWER FINISHER :</u> <u>Removal and Installation"</u>.
- Remove the sliding door control unit LH mounting bolt and nats (A), and then remove the sliding door control unit LH (1).



INSTALLATION Install in the reverse order of removal **NOTE:** After installing sliding door control uni

After installing sliding door control unit, perform additional service when replace control unit. Refer to <u>DLK-170. "Work Procedure"</u>.

SLIDING DOOR OPEN/CLOSE SWITCH FRONT

FRONT : Removal and Installation

REMOVAL

- 1. Remove the instrument finisher B. Refer to <u>IP-14, "Removal and Installation"</u>.
- 2. Remove the switch bracket lower mounting screw (A), and then remove the switch bracket lower from instrument finisher B.

3. Remove the sliding door open/close switch (front side) (2) from switch bracket lower (1) using flat-head screw driver (A).

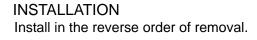
六 : Pawl

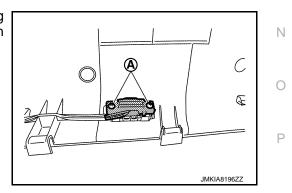
INSTALLATION Install in the reverse order of removal. REAR

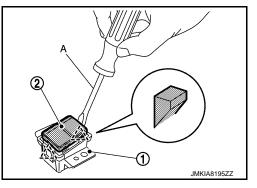
REAR : Removal and Installation

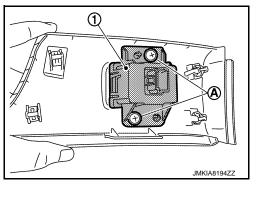
REMOVAL

- 1. Remove the center pillar lower. Refer to INT-25, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
- 2. Remove the sliding door open/close switch (rear side) mounting screw (A), and then remove the sliding door open/close switch (rear side).









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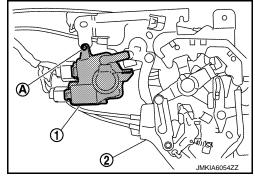
SLIDING DOOR LOCK ACTUATOR

Removal and Installation

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REMOVAL

- 1. Remove the remote control assembly. Refer to <u>DLK-473</u>, "<u>REMOTE CONTROL ASSEMBLY</u> : <u>Removal</u> <u>and Installation</u>".
- 2. Remove the sliding door lock actuator mounting screw (A), and then remove the sliding door lock actuator (1) from remote control assembly (2).



INSTALLATION Install in the reverse order of removal.

AUTOMATIC SLIDING DOOR WARNING BUZZER

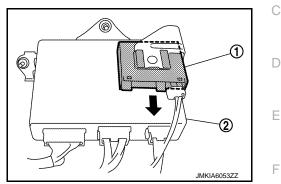
< REMOVAL AND INSTALLATION >

AUTOMATIC SLIDING DOOR WARNING BUZZER

Removal and Installation

REMOVAL

- 1. Remove the luggage side lower finisher. Refer to <u>INT-43</u>, "LUGGAGE SIDE LOWER FINISHER : <u>Removal and Installation"</u>.
- 2. Remove automatic sliding door warning buzzer (1) from sliding door control unit (2).



INSTALLATION Install in the reverse order of removal.

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SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

< REMOVAL AND INSTALLATION >

SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

Removal and Installation

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REMOVAL

Remove outside handle escutcheon. Refer to DLK-471, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Install in the reverse order of removal.