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APPLICATION NOTICE

< HOW TO USE THIS MANUAL >

HOW TO USE THIS MANUAL **APPLICATION NOTICE**

Information

Check the vehicle type to use the service information in this section.

Service information	Destination	(
Type 1	With Intelligent Key and super lock	
Type 2	With Intelligent Key, without super lock	Γ
Туре 3	Without Intelligent Key, with super lock	
Туре 4	Without Intelligent Key and super lock	
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[TYPE 1]

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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. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

The vehicle may be equipped with a passenger air bag deactivation switch. Because no rear seat exists where a rear-facing child restraint can be placed, the switch is designed to turn off the passenger air bag so that a rear-facing child restraint can be used in the front passenger seat. The switch is located in the center of the instrument panel, near the ashtray. When the switch is turned to the ON position, the passenger air bag is enabled and could inflate for certain types of collision. When the switch is turned to the OFF position, the passenger air bag is disabled and will not inflate. A passenger air bag OFF indicator on the instrument panel lights up when the passenger air bag is switched OFF. The driver air bag always remains enabled and is not affected by the passenger air bag deactivation switch.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.
- The vehicle may be equipped with a passenger air bag deactivation switch which can be operated by the customer. When the passenger air bag is switched OFF, the passenger air bag is disabled and will not inflate. When the passenger air bag is switched ON, the passenger air bag is enabled and could inflate for certain types of collision. After SRS maintenance or repair, make sure the passenger air bag deactivation switch is in the same position (ON or OFF) as when the vehicle arrived for service.

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

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NOTE:

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

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

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

PRECAUTIONS

OPERATION PROCEDURE

- Connect both battery cables.
 NOTE: Supply power using jumper cables if battery is discharged.
- Turn the ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock D when the ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

Precaution for Procedure without Cowl Top Cover

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



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• After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operational.

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• Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

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< PREPARATION > PREPARATION

PREPARATION

Commercial Service Tools

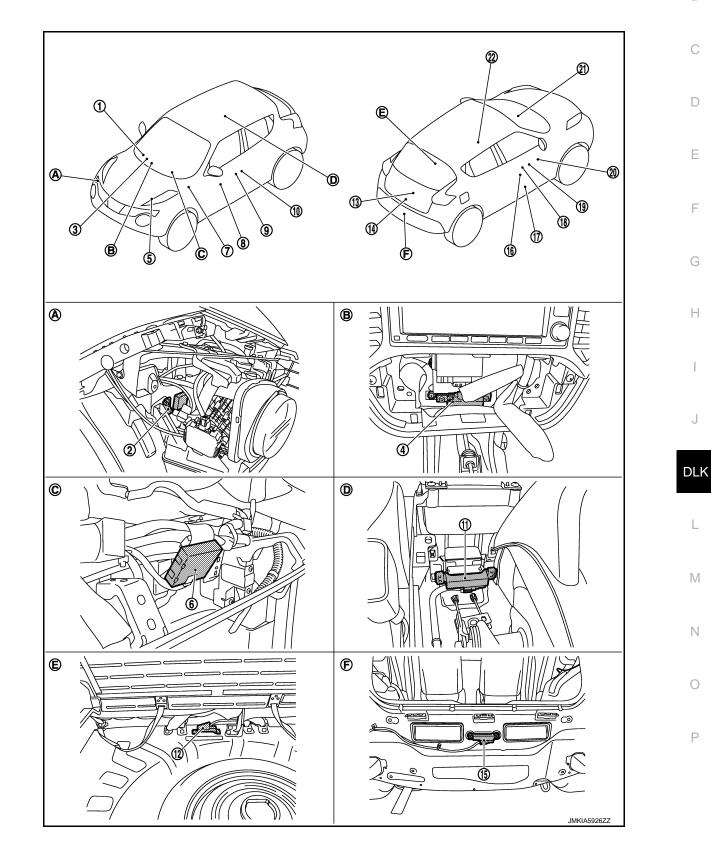
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	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	JAC JAJ JMKIA3050ZZ	Removes the clips, pawls, and metal clips
Power tool	PIB1407E	

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location



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COMPONENT PARTS

< SYSTEM DESCRIPTION >

1. 4.	Combination meter Inside key antenna (instrument center)	2. 5.	Intelligent Key warning buzzer TCM Refer to <u>TM-133, "CVT CONTROL</u> <u>SYSTEM : TCM"</u> (RE0F10B models) or <u>TM-316, "CVT CONTROL SYSTEM</u> : TCM" (RE0F11A models)	3. 6.	Push-button ignition switch Remote keyless entry receiver
7.	BCM Refer to <u>BCS-6, "BODY CONTROL</u> <u>SYSTEM : Component Parts Location"</u>	8.	Power window switch (passenger side) (door lock and unlock switch)	9.	Outside key antenna (passenger side)
10.	Front door request switch (passenger side)	11.	Inside key antenna (console)	12.	Inside key antenna (luggage room)
13.	Back door request switch	14.	Back door lock assembly	15.	Outside antenna (rear bumper)
16.	Front door lock assembly (driver side)	17.	Front door switch (driver side)	18.	Front door request switch (driver side)
19.	Outside key antenna (driver side)	20.	Power window main switch (door lock and unlock switch)	21.	Door lock status indicator
22.	Air bag diagnosis sensor unit Refer to <u>SRC-7. "Component Parts Lo-</u> <u>cation"</u>				
A.	View with front bumper removed	В.	View with multi display unit removed	C.	View with instrument panel assembly removed
D.	View with center console assembly re- moved	E.	View with luggage room finisher re- moved	F.	View with rear bumper removed

Component Description

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Item	Function			
Air bag diagnosis sensor unit	Transmits air bag signal to BCM.			
BCM	Controls the door lock system.			
Back door opener actuator	Opens the back door with the back door open signal from BCM.			
Back door opener switch	Inputs back door opener switch operation signal to BCM.			
Combination meter	 Displays each operation method guide and warning for system malfunction. Performs operation method guide and warning with buzzer. Transmits vehicle seep signal to CAN communication line. 			
Door lock actuator	 Inputs locks/unlocks signal from BCM and locks/unlocks each door. Integrated in each door lock assembly. 			
Door lock and unlock switch	 Transmits door lock/unlock operation to BCM. Integrated in the power window main switch and front power window switch (passenger side). 			
Door lock status indicator	The door lock status indicates door lock status.The indicator illuminates when a lock operation is successful.			
Door request switch	 Transmits door lock/unlock operation to BCM. Integrated in the outside handle (driver side, passenger side and back door). 			
Door switch	Detects door open/close condition.			
Inside key antenna	Detects whether Intelligent Key is inside the vehicle.Installed in the instrument center, consol and luggage room.			
Intelligent Key	 The following functions are available when having and carrying electronic ID. Door lock/unlock Engine start Remote control entry function is available when operating on button. 			
Intelligent Key warning buzzer	Warns for an inappropriate operation.			
Outside key antenna	 Detects whether Intelligent Key is outside the vehicle. Integrated in the outside handle (driver side, passenger side and back door). 			
 BCM transmits the change in the power supply position with the push-button ignition s IPDM E/R via CAN communication line. IPDM E/R transmits the power supply position via CAN communication line to BCM. Immobilizer antenna amp checks Intelligent Key transponder. 				

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Item	Function	
Remote keyless entry receiver	Receives Intelligent Key operation and transmits to BCM.	
Super lock actuator	 Inputs super lock set/release signal from BCM and set/release super lock function. Integrated in each door lock assembly. 	
ТСМ	Transmits shift position signal to BCM via CAN communication line.	
Unlock sensor	Built-in in driver side door lock assembly Detects door lock condition of driver door 	

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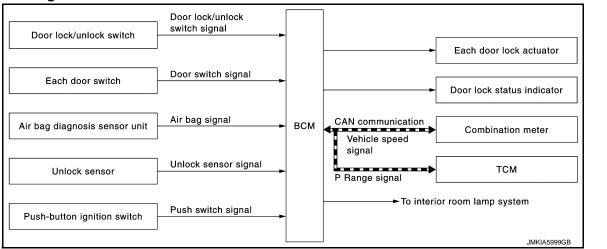
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SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

SYSTEM (POWER DOOR LOCK SYSTEM)

System Diagram



System Description

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DOOR LOCK FUNCTION

Door Lock and Unlock Switch

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

Unlock Sensor

- 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, unlocks door lock actuator of all doors.

AIR BAG INTERLOCK UNLOCK FUNCTION

When ignition switch is ON and BCM receives air bag signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag signal to BCM.

INTERIOR ROOM LAMP CONTROL FUNCTION

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

OPERATION CONDITION

If all of the following conditions are satisfied, door lock and unlock operation is performed using the door lock/ unlock switch.

Door lock and unlock switch operation	Operation condition
LOCK	 Closed driver side door Doors other than drivers door are closed*1 Super lock is releases*2 Doors are not locked by Intelligent Key or door request switch*2 Door lock that is requested is not auto door lock*2
UNLOCK	Doors are not locked by Intelligent Key or door request switch*2

*1: While door lock and unlock switch is pressed in the lock direction during this state, combination meter buzzer sounds and warns.

*²: When this item becomes OK according to Intelligent Key ID verification, door lock/unlock operation is allowed.

DLK-24

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SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

NOTE:

Information of super lock function. Refer to DLK-30, "SUPER LOCK FUNCTION : System Description".

DOOR LOCK STATUS INDICATOR OPERATION

The door lock status indicator indicates door lock status under the following condition. And the timer is running to turn OFF the indicator.

Lock operation	Ignition position	Door state	Indicator operation
Door lock and unlock switch	ON	All doors closed	ON
Door lock and unlock switch	ON	Any doors open	OFF
Door lock and unlock switch	ACC, OFF or LOCK*1	All doors closed	ON (30 minute timer)
Intelligent Key/ Door request switch/ Auto door lock function	ACC, OFF or LOCK*1	All doors closed	ON (1 minute timer)
Door lock and unlock switch	ACC, OFF or LOCK*1	Driver doors open \rightarrow All doors closed	$OFF \rightarrow$ ON (30 minute timer)
Intelligent Key/ Door request switch	ACC, OFF or LOCK* ¹	Any doors open \rightarrow All doors closed	$OFF \rightarrow$ ON (1 minute timer)

*1: Steering lock is locked.

1 Minute Timer

A timer must be running to turn OFF the indicator. The timer runs for 1 minute after doors are locked by Intelligent Key, door request switch or auto door lock.

30 Minute Timer

A timer must be running to turn OFF the indicator. The timer runs for 30 minutes after doors are locked by door lock and unlock switch.

OVERRIDE FUNCTION

When inside handle of front door is operated while doors are in lock states, lock state of the applicable door lock becomes invalid and the door is open.

UNLOCK LINK FUNCTION

When driver door or passenger door is opened using the override function, all doors are unlocked. Unlock function operates when driver door or passenger door is open while all of the following conditions are satisfied.

Operation condition	 Doors are locked by door lock/unlock switch or by automatic lock/unlock function Driver or passenger door switch is switched from OFF to ON Anti-hijack function is not activated Vehicle speed is 5 km/h (3 MPH) or less 	L
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NOTE:

When anti-hijack function is activated, only the applicable door is unlocked.

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 10 km/h (6 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 10 km/h (6 MPH) or more.

P Range Interlock Door Lock*1

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

Setting change of Automatic Door Lock/Unlock Function

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< SYSTEM DESCRIPTION >

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

NOTE:

P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

With CONSULT-III

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

Without CONSULT- III

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

- 1. Close all doors (door switch OFF)
- 2. 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.

*¹: This function does not operate on M/T models.

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*1

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.

NOTE:

P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

(I) With CONSULT- III

The ON/OFF switching of the automatic door lock/unlock function and the type selection of the automatic door lock/unlock function can be performed at the WORK SUPPORT setting of CONSULT-III. Refer to <u>DLK-41</u>. <u>"DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)"</u>.

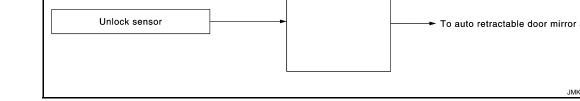
Without CONSULT- III

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

- 1. Close all doors below (door switch OFF)
- 2. 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.

*¹: This function does not operate on M/T models.

INTELLIGENT KEY SYSTEM : System Diagram



INTELLIGENT KEY SYSTEM : System Description

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

The driver should always carry the Intelligent Key

< SYSTEM DESCRIPTION >

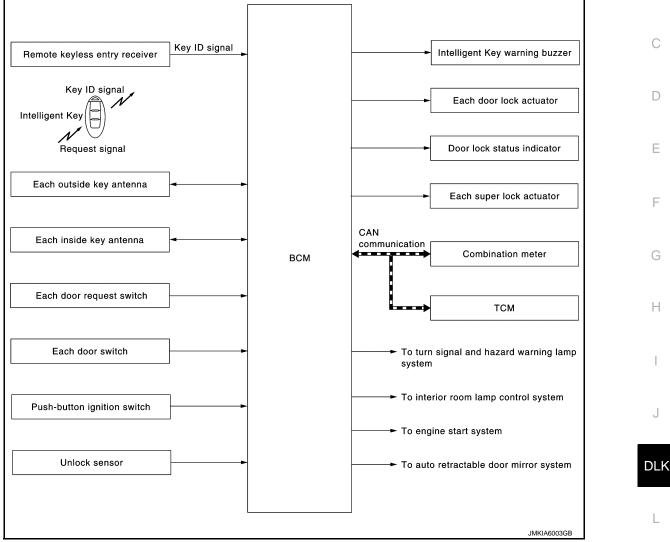
INTELLIGENT KEY SYSTEM

SYSTEM (INTELLIGENT KEY SYSTEM)

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

Function	on Description	
Door lock	Lock/unlock can be performed by pressing the request switch	DLK-28
Super lock	When all doors are closed super lock system can be set/release by Intelligent Key or door request switch	<u>DLK-30</u>
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the In- telligent Key	<u>DLK-33</u>

DLK-27



SYSTEM (INTELLIGENT KEY SYSTEM)

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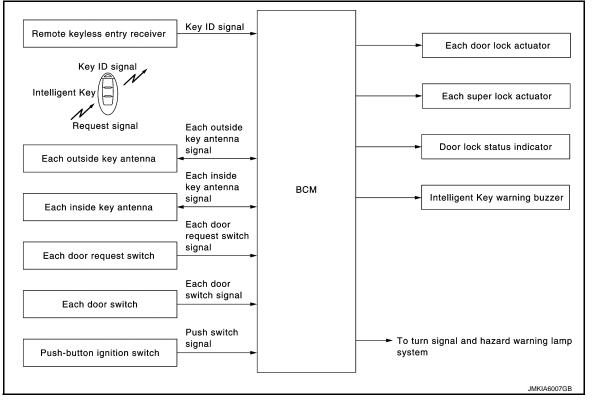
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< SYSTEM DESCRIPTION >

Function	Description	Refer
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle	
Warning	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver	DLK-36
Auto retractable door mirror	Door mirror operates by operation of Intelligent Key	<u>MIR-8</u>
Engine start The engine can be turned on while carrying the Intelligent Key		<u>SEC-14</u>
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state	<u>INL-6</u>

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram



DOOR LOCK FUNCTION : System Description

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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 lock/unlock each door, sets/releases super lock, and blinks hazard warning lamps (lock: 1 time, unlock: 2 times) at the same time as a reminder.

NOTE:

Information of super lock function. Refer to <u>DLK-30, "SUPER LOCK FUNCTION : System Description"</u>.

OPERATION CONDITION

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

DLK-28

INFOID:000000006302727

< SYSTEM DESCRIPTION >

[TYPE 1]

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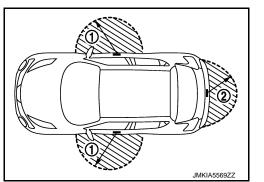
Н

Each door request switch operation	Operation condition	A
Lock	 All doors are closed Ignition switch is in the OFF position P position warning is not activated Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area 	В
Unlock	 All doors are closed Ignition switch is in the OFF position Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area * 	С

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

OUTSIDE KEY ANTENNA DETECTION AREA

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



ANTI-HIJACK FUNCTION

Information of super lock system with anti-hijack function. Refer to <u>DLK-30</u>, "<u>SUPER LOCK FUNCTION</u> : <u>System Description</u>".

HAZARD REMINDER FUNCTION

Blinks hazard warning lamps as a reminder, during lock/unlock operation using door request switch.

Setting of Hazard Reminder Mode

Hazard reminder s (With CONSULT	0	Door lock operation (with door request switch)	Hazard warning lamp blink
	OFF	Any	_
		Lock	Once
	LOCK ONLY	Unlock	-
		Unlock (Anti-hijack)	-
AZARD ANSWER BACK		Lock	-
AZARD ANSWER DACK	UNLK ONLY	Unlock	Twice
		Unlock (Anti-hijack)	Twice (quick)
		Lock	Once
	LOCK/UNLK	Unlock	Twice
		Unlock (Anti-hijack)	Twice (quick)

AUTO DOOR LOCK FUNCTION

After door is unlocked by door request switch operation and if 30 seconds or more passes without performing P the following operation, all doors are automatically locked. However, operation check function does not activate.

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

< SYSTEM DESCRIPTION >

[TYPE 1]

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-43</u>, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super Lock)".

DOOR LOCK STATUS INDICATOR OPERATION

- Door lock status indicator turns indicator lamp ON or OFF and indicates door lock or unlock state.
- For door lock status indicator operation, refer to <u>DLK-24, "System Description"</u>.

LIST OF OPERATION RELATED PARTS

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

Door lock 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	Door lock status indicator	Hazard warning lamp	Push-button ignition switch	Combination meter
Door lock/unlock function	×	×	×	×	×	×	×		×				
Hazard reminder function								×	×		×		×
Door lock status indicator operation									×	×			
Anti-hijack function	×			×	×	×	×		×				
Auto door lock function	×				×				×			×	

SUPER LOCK FUNCTION

SUPER LOCK FUNCTION : System Diagram

Key ID signal Remote keyless entry receiver Key ID signal Intelligent Key Request signal Each outside key antenna signal Each outside key antenna Each inside key antenna всм Each super lock actuator signal Each inside key antenna Each door request switch signal Each door request switch Each door switch signal Each door switch Push switch signal Push-button ignition switch JMKIA6012GB

SUPER LOCK FUNCTION : System Description

INFOID:000000006302729

INFOID:000000006532134

- Super lock provides a higher anti-theft performance than a conventional door lock function.
- BCM controls the super lock function.

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< SYSTEM DESCRIPTION >

- When all doors are closed super lock system can be set/release by Intelligent Key or door request switch.
- When super lock is set, inside handle of doors do not work.

SUPER LOCK SET OPERATION (LOCK OPERATION)

Super Lock Set by Intelligent Key

When Intelligent Key lock button is operated while all doors are in unlock state, super lock of all doors is set, and simultaneously, all doors are locked.

Super Lock Set by Door Request Switch

When door request switch (driver side, passenger side, or back door) is operated while all doors are in unlock state, super lock of all doors is set, and simultaneously, all doors are locked.

SUPER LOCK RELEASE OPERATION (UNLOCK OERATION) WITH ANTI-HIJACK MODE

Super Lock Release by Intelligent Key

When Intelligent Key unlock button is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, driver door are unlocked. When Intelligent Key unlock button is operated again within 5 seconds of the 1st unlock button operation, all doors are unlocked.

Super Lock Release by Door Request Switch (Driver Side)

When driver side door request switch is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, driver door are unlocked. When driver side door request switch is operated again within 5 seconds of the 1st driver side door request switch operation, all doors are unlocked.

Super Lock Release by Door Request Switch (Passenger Side)

When passenger side door request switch is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, all doors are unlocked.

Super Lock Release by Door Request Switch (Back Door)

When back door request switch is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, back door are unlocked. When back door request switch is operated again within 5 seconds of the 1st back door request switch operation, all doors are unlocked.

SUPER LOCK RELEASE OPERATION (UNLOCK OERATION) WITHOUT ANTI-HIJACK MODE

Super Lock Release by Intelligent Key

When Intelligent Key unlock button is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, all doors are unlocked.

Super Lock Release by Door Request Switch

When door request switch (driver side, passenger side or back door) is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, all doors are unlocked.

ANTI-HIJACK FUNCTION SETTING

With CONSULT-III

Anti-hijack function can be set to ON/OFF using CONSULT-III. Refer to DLK-41, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

Without CONSULT-III

Anti-hijack function can be set to ON/OFF by user with a registered Intelligent Keyfob.

- ON/OFF can be switched when Intelligent Key lock button and unlock button are pressed simultaneously for 5 seconds or more while steering lock is locked.
- When mode is switched, hazard warning lamp blinks.

 $\mathsf{OFF} \to \mathsf{ON} \quad : 1 \text{ blink}$

$ON \rightarrow OFF$: 3 blinks

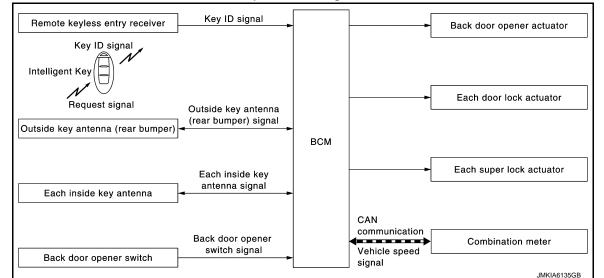
BACK DOOR OPEN FUNCTION

< SYSTEM DESCRIPTION >

BACK DOOR OPEN FUNCTION : System Diagram



INFOID:000000006659747



BACK DOOR OPEN FUNCTION : System Description

INFOID:000000006659748

While back door open in the permitted state, back door opens when back door opener switch is pressed after back door opener request switch is operated.

BACK DOOR OPEN

- When the BCM detects that back door opener switch is pressed, it starts the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. Then, check that the Intelligent Key is near the back door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM opens back door, simultaneously unlocks all doors and releases super lock.

NOTE:

In anti-hijack mode, only back door opens. All doors do not unlock.

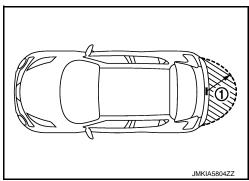
OPERATION CONDITION

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

Back door open function	Operation condition	
Back door open operation	 Vehicle speed is less than 5 km/h (3 MPH) 3 seconds or more after BCM outputs all doors lock signal Intelligent Key is outside of vehicle Intelligent Key is within outside key antenna detection area 	

OUTSIDE KEY ANTENNA DETECTION AREA

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



LIST OF OPERATION RELATED PARTS Parts marked with × are the parts related to operation.

< SYSTEM DESCRIPTION >

Remote keyless entry receiver system actuator Back door opener switch CAN communication Outside key antenna Super lock actuator Inside key antenna Combination meter Back door opener Door lock actuator Door lock function Intelligent Key BCM Back door open function × × × × × × × × × × × REMOTE KEYLESS ENTRY FUNCTION REMOTE KEYLESS ENTRY FUNCTION : System Diagram INFOID:000000006302730 Key ID signal Remote keyless entry receiver Each door lock actuator Key ID signal Intelligent Key warning buzzer Intelligent Key Each door BCM Each super lock actuator switch signal Each door switch

system

REMOTE KEYLESS ENTRY FUNCTION : System Description

Push switch signal

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
- Super lock set/release
- Anti-hijack function
- Hazard reminder function
- Auto door lock
- Door lock status indicator operation

Push-button ignition switch

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.

DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- BCM receives the signal and compares it with the registered key ID to the vehicle.
- BCM transmits door lock/unlock signal to each door lock actuator, super lock actuator and operates each door lock actuator, when key ID matches. At the same time, BCM blinks hazard warning lamps (lock: 1 time, unlock: 2 times).

OPERATION CONDITION

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

DLK-33

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JMKIA6008GE

Door lock status indicator

To turn signal and hazard warning lamp

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< SYSTEM DESCRIPTION >

Remote controller operation	Operation condition
 All doors closed Ignition switch in the OFF position P position warning is not activated 	
Ignition switch is in the OFF position Intelligent Key is outside the vehicle P position warning is not activated	

ANTI-HIJACK FUNCTION

Information of super lock system with anti-hijack function.

Refer to DLK-43, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super Lock)".

AUTO DOOR LOCK FUNCTION

After door is unlocked by Intelligent Key button operation and if 30 seconds or more passes without performing the following operation, all doors are locked. However, operation check function does not activate.

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

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to DLK-43. "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super Lock)".

DOOR LOCK STATUS INDICATOR OPERATION

- Door lock status indicator turns indicator lamp ON or OFF and indicates door lock or unlock state.
- For door lock status indicator operation, refer to <u>DLK-24, "System Description"</u>.

HAZARD REMINDER FUNCTION

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

Setting of Hazard Reminder Mode

Hazard reminder setting (With CONSULT-III)		Door lock operation (with Intelligent Keyfob)	Hazard warning lamp blink			
	OFF	Any	—			
HAZARD ANSWER BACK	LOCK ONLY	Lock	Once			
		Unlock	_			
		Unlock (Anti-hijack)	—			
	UNLK ONLY	Lock	—			
		Unlock	Twice			
		Unlock (Anti-hijack)	Twice (quick)			
	LOCK/UNLK	Lock	Once			
		Unlock	Twice			
		Unlock (Anti-hijack)	Twice (quick)			

LIST OF OPERATION RELATED PARTS

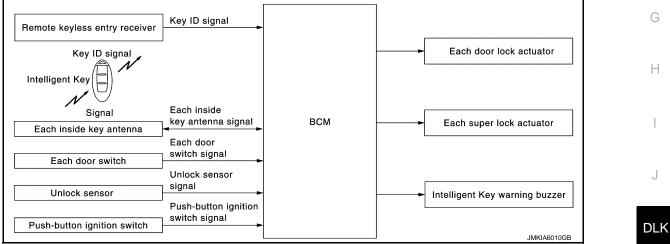
Parts marked with \times are the parts related to operation.

< SYSTEM DESCRIPTION >

Remote keyless entry functions	Intelligent Key	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	Combination meter	Hazard warning lamp	Door lock status indicator	
Door lock/unlock function by remote control button	×	×	×		×	×				
Hazard reminder function	×			×	×	×	×	×		
Anti-hijack function		×	×	×	×	×				
Auto door lock function	×				×	×				
Door lock status indicator operation						×			×	

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Diagram



KEY REMINDER FUNCTION : System Description

Key reminder is the function that prevents the key from being left in the vehicle. Key reminder has the following 4 functions.

Key remainder func- tion	Condition Condition	
Driver side door opened	Right after door is locked by door lock/unlock switch or driver door lock knob operation under the following conditions • Ignition switch is in the OFF position • Intelligent Key is inside the vehicle • Driver side door is opened	All doors unlock
Door is open or closed	Right after all doors are closed under the following conditionsIntelligent Key is inside the vehicleAny door is openedAll doors are locked.	 All doors unlock Honk Intelligent Key warning buzzer
Back door is closed	 Right after back door is closed under the following conditions Intelligent Key is inside the vehicle All doors (except back door) are closed All doors (except back door) are locked 	 All doors unlock Back door can open with back door opener switch Honk Intelligent Key warn- ing buzzer

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< SYSTEM DESCRIPTION >

*: 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.

CAUTION:

 The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function 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

INFOID:000000006302734

[TYPE 1]

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, shift P warning lamp and engine start operation indicator lamp.

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

OPERATION CONDITION

Operation condition of warning and information is as per the following table.

Warning/Information functions		Operation procedure				
Intelligent Key system malfunction		A malfunction is detected on BCM and key warning lamp turns ON				
	For internal	 Ignition switch: ACC position Door switch (driver side): ON (Door is open) 				
OFF position warning	For external*	OFF position warning (For internal) is in active mode, driver side door is closed NOTE: OFF position warning (for external) operates only when driver door is closed after each of P position warning, ACC warning, and OFF position warning (internal) sounds.				
	For internal	 Shift position: Except P position Engine is running to stopped (Ignition switch is ON to OFF) 				
P position warning*	For external	 P position warning (For internal) operates Door switch: ON to OFF (Door is open to close) Intelligent Key cannot be detected inside the vehicle 				
ACC warning*		 After P position warning operates, or when ignition switch is turned ON immediately after P position warning operates Ignition switch: ACC position 				
	Door status changes from open to close	 Ignition switch: Except LOCK position Door switch: ON to OFF (Door is open to close) Registered Intelligent Key is not detected inside the vehicle 				
Take away warning	Door status is open	 Door switch: ON (Door is open) Registered Intelligent Key is not detected inside the vehicle during Key ID verification for 5 seconds 				
	Push button-ignition switch operation	 Ignition switch: Except LOCK position Press push-button ignition switch Registered Intelligent Key is not detected inside the vehicle 				
Door lock operation warning		When door lock operation is requested while door lock operating condition of door request switch not satisfied				

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 1]

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< 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 can be detected inside the vehicle 	E
Intelligent Key low batter	y warning	BCM detects that Intelligent Key is low battery, after ignition switch is turned ON	C
Key ID warning		 Push-button ignition switch is pressed Registered Intelligent Key is not detected inside the vehicle 	

*: M/T models do not apply.

WARNING METHOD

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

			Shift P	Warning	, chime	Engine start	
Warning/Info	ormation functions	"KEY" warn- ing lamp	warning lamp	Combination meter buzzer	Intelligent Key warning buzzer	operation in- dicator lamp	
Intelligent Key system n	nalfunction	Indicate	—	—	_	_	-
	For internal	_	—	Activate	-	-	-
OFF position warning	For external*	_	—		Activate	-	-
	For internal		Indicate	Activate		_	-
P position warning*	For external	Blink (yellow)	_	_	Active	_	-
ACC warning*		_	—	Activate	-	-	-
	Door is open to close		—	Activate	Activate	-	-
Take away warning	Door is open	Blink (yellow)	—		_	_	-
late anay harming	Push-ignition switch opera- tion	2	_	Activate	_	_	-
Door lock operation war	ning	—	—	—	Activate	_	-
Key ID warning		Blink (yellow)	_	—	_		-
Engine start information		_	_	—		Indicate	
ntelligent Key low batte	ry warning	Blink (green)	_	_	_		-

*: M/T models do not apply.

LIST OF OPERATION RELATED PARTS

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

W	larning function	Intelligent Key	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Shift P warning lamp	Engine start operation indicator lamp	"KEY" warning lamp
Intelligent Key system r	nalfunction									×	×			×
OFF position warning	For internal			×					×	×	×			
OFF position warning	For external			×				×			×			

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

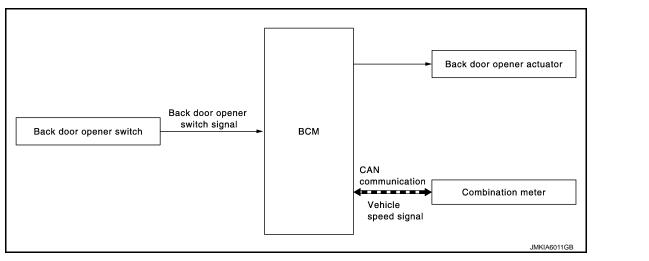
V	Varning function	Intelligent Key	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Shift P warning lamp	Engine start operation indicator lamp	"KEY" warning lamp
P position warning			×						×	×	×	×		×
ACC warning			×						×	×	×			
	Door is open or close	×		×		×		×	×	×	×			×
Take away warning	Door is open	×		×		×				×	×			×
g	Push-button ignition switch opera- tion	×	×			×			×	×	×			×
Door lock operation wa	rning	×		×	×	×	×	×			×			
Key ID warning			×			×				×	×			×
Engine start informa-	Ignition switch is ON position	×	×			×				×	×		×	
tion	Ignition switch is except ON posi- tion	×	×			×				×	×		×	
Steering lock information	n		×							×	×			
Intelligent Key low batte	ery warning	×				×				×	×			×

BACK DOOR OPENER SYSTEM

< SYSTEM DESCRIPTION >

BACK DOOR OPENER SYSTEM

System Diagram



System Description

INFOID:00000006553998

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM operates back door opener actuator. **NOTE:**

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

OPERATION CONDITION

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

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

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.

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[TYPE 1]

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DIAGNOSIS SYSTEM (BCM) COMMON ITEM

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

INFOID:000000006748143

APPLICATION ITEM

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

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

Sustam	Sub overteen collection item	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 timer	INT LAMP	×	×	×				
Exterior lamp	HEAD LAMP	×	×	×				
Wiper and washer	WIPER	×	×	×				
Turn signal and hazard warning lamps	FLASHER	×	×	×				
Automatic A/CManual A/C	AIR CONDITONER		×	×* ²				
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×				
Combination switch	COMB SW		×					
Body control system	BCM	×						
NVIS - NATS	IMMU	×	×	×				
Interior room lamp battery saver	BATTERY SAVER	×	×	×				
Back door open	TRUNK		×					
Theft warning alarm	THEFT ALM	×	×	×				
_	RETAINED PWR*1		×					
Signal buffer system	SIGNAL BUFFER		×	×				

NOTE:

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

• *2: For models with automatic A/C, this diagnosis mode is not used.

FREEZE FRAME DATA (FFD)

< SYSTEM DESCRIPTION >

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

CONSULT screen item	Indication/Unit		Description					
Vehicle Speed	km/h	Vehicle speed of the mo	ment a particular DTC is detected	E				
Odo/Trip Meter	km	Total mileage (Odometer	r value) of the moment a particular DTC is detected					
SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")	C					
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)					
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"	Ľ				
	ACC>ON		While turning power supply position from "ACC" to "IGN"					
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)	E				
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	,				
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emer- gency stop operation)	F				
	ACC>OFF		While turning power supply position from "ACC" to "OFF"					
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"	G				
Vehicle Condition	OFF>ACC	Power position status of the moment a particular	While turning power supply position from "OFF" to "ACC"	\" /				
	ON>CRANK	DTC is detected	While turning power supply position from "IGN" to "CRANKING"					
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode					
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode					
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steer- ing is locked.)					
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)					
	ACC		Power supply position is "ACC" (Ignition switch ACC)	D				
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)					
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)					
	CRANKING		Power supply position is "CRANKING" (At engine cranking)					
GN Counter	0 - 39	The number is 0 whenThe number increases	It ignition switch is turned ON after DTC is detected a malfunction is detected now. Is like $1 \rightarrow 2 \rightarrow 338 \rightarrow 39$ after returning to the normal condition					
		whenever ignition switThe number is fixed to	ch OFF \rightarrow ON. m 39 until the self-diagnosis results are erased if it is over 39.					

DOOR LOCK

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)

INFOID:000000006302736

BCM CONSULT-III FUNCTION

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

WORK SUPPORT

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< SYSTEM DESCRIPTION >

Monitor item	Description
DOOR LOCK-UNLOCK SET	Anti-hijack 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 10 km/h (6 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 the mode MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2*: All doors are unlocked when shifting the selector lever from any position other than the P to P position MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 4*: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position 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 monitored MODE 6: This item is displayed, but cannot be monitored
AUTOMATIC LOCK/UNLOCK SET	 Automatic door lock/unlock function mode can be selected from the following in this mode Off: Non-operational Unlock Only: Door unlock operation only Lock Only: Door lock operation only Lock/Unlock: Lock and unlock operation

*: P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

DATA MONITOR

Monitor Item	Contents
REQ SW-DR	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-BD/TR	Indicated [On/Off] condition of back door request switch
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK	Indicated [On/Off] condition of back door switch
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW	NOTE: This item is displayed, but cannot be monitored
KEY CYL UN-SW	NOTE: This item is displayed, but cannot be monitored
SHOCK SENSOR	 Indicates [NOMAL/ON/OFF] condition of circuit between BCM and air bag diagnosis sensor unit NORMAL: Ignition switch ON. (BCM is receiving normal condition signal from air bag diagnosis sensor unit.) ON: During the receiving of air bag signal from air bag diagnosis sensor unit OFF: After the receiving of air bag signal from air bag diagnosis sensor unit

ACTIVE TEST

< SYSTEM DESCRIPTION >

[TYPE 1]

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Test item	Description
DOOR LOCK	 This test is able to check door lock/unlock operation The all door lock actuators are locked when "ALL LOCK" on CONSULT-III screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched The back door lock actuator is unlocked when "BD UNLK" on CONSULT- III screen is touched* The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT-III screen is touched*
SUPER LOCK	 This test is able to check super lock actuator operation The all door lock actuators are set when "LOCK" on CONSULT-III screen is touched The all door lock actuators are released when "UNLOCK" on CONSULT-III screen is touched
DOOR LOCK IND	This test is able to check door lock status indicator operation On: Operate Off: Non-operation

*: BD UNLK function does not operate.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super Lock)

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 monitored
PANIC ALARM SET	NOTE: This item is displayed, but cannot be monitored
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be monitored
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operation with this mode On: Operate Off: 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

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< SYSTEM DESCRIPTION >

Monitor item	Description
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
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
ANSWER BACK FUNCTION	Buzzer reminder function mode by Intelligent Key button can be selected from the following with this mode • On: Operate • Off: Non-operation
TAKE OUT FROM WIN WARN SET	NOTE: This item is indicated, but not used
RETRACTABLE MIRROR SET	Auto retractable door mirror function mode can be changed to operation with this mode On: Operate Off: Non-operation

SELF-DIAG RESULT

Refer to BCS-67, "DTC Index".

DATA MONITOR

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW* ¹	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]* ² 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	Indicates [On/Off] condition of steering lock unit (LOCK)
S/L -UNLOCK	Indicates [On/Off] condition of steering lock unit (UNLOCK)
S/L RELAY -F/B	Indicates [On/Off] condition of steering lock relay
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

DLK-44

< SYSTEM DESCRIPTION >

[TYPE	1]
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DLK

Monitor Item	Condition		
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states		
S/L LOCK-IPDM	Indicates [On/Off] condition of steering lock unit (LOCK)		
S/L UNLK-IPDM	ndicates [On/Off] condition of steering lock unit (UNLOCK)		
S/L RELAY-REQ	Indicates [On/Off] condition of steering lock relay		
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 driver side door status		
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	NOTE: This item is displayed, but cannot be monitored		
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		

*1: It is displayed but does not operate on CVT models.

*²: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description	
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-III screen is touched Key: Key warning chime sounds when CONSULT-III screen is touched Knob: OFF position warning chime sounds when CONSULT-III screen is touched Off: Non-operation 	
INDICATOR	 This test is able to check warning lamp operation KEY ON: "KEY" Warning lamp illuminates when CONSULT-III screen is touched KEY IND: "KEY" Warning lamp blinks when CONSULT-III screen is touched Off: Non-operation 	
INT LAMP	This test is able to check interior room lamp operation On: Operate Off: Non-operation 	

< SYSTEM DESCRIPTION >

[TYPE 1]
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Test item	Description
LCD	 This test is able to check meter display information BP N: Engine start operation indicator lamp indicate when CONSULT-III screen is touched BP I: Engine start operation indicator lamp indicate when CONSULT-III screen is touched ID NG: This item is displayed, but cannot be monitored ROTAT: This item is displayed, but cannot be monitored SFT P: Shift P warning lamp indicate when CONSULT-III screen is touched INSRT: This item is displayed, but cannot be monitored BATT: Key warning lamp indicator when CONSULT-III screen is touched NO KY: Key warning lamp indicator when CONSULT-III screen is touched OUTKEY: Engine start operation indicator lamp indicate when CONSULT-III screen is touched LK WN: Engine start operation indicator lamp indicate when CONSULT-III screen is touched
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after "LH/RH/Off" on CONSULT-III screen is touched
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-ignition switch illumination operation Push-ignition switch illumination illuminates when "ON" on CONSULT-III screen is touched
PUSH SWITCH INDICATOR	This test is able to check LOCK indicator in push-ignition switch operation LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT-III screen is touched
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT-III screen is touched.
TRUNK/BACK DOOR	This test is able to check back door opener actuator open operation. This actuator opens when "Open" on CONSULT-III screen is touched.
	This test is able to check auto retractable door mirror operationOn: OperateOff: Non-operation

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK) (With Super Lock)

INFOID:000000006302738

DATA MONITOR

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.
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

ECU DIAGNOSIS INFORMATION BCM

List of ECU Reference

EC	CU	Reference	0
		BCS-41, "Reference Value"	C
BCM		BCS-64, "Fail-safe"	
DCIVI		BCS-66. "DTC Inspection Priority Chart"	D
		BCS-67, "DTC Index"	

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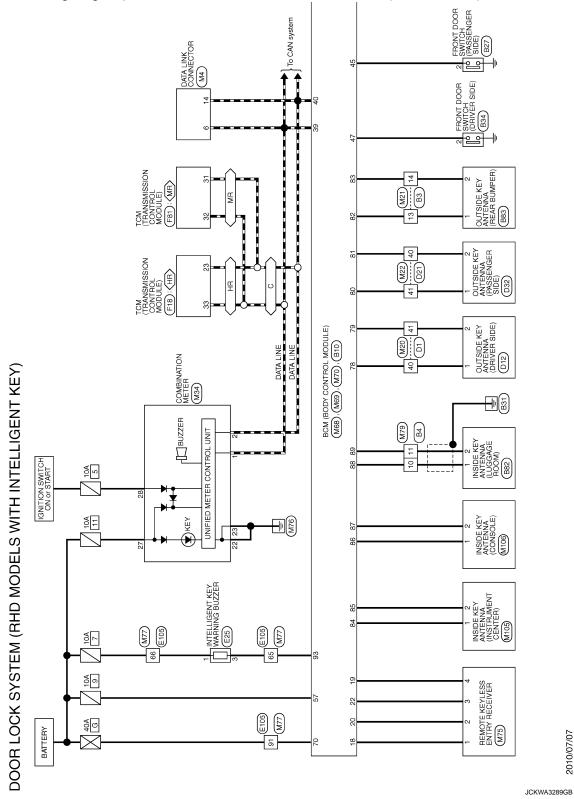
Н

WIRING DIAGRAM DOOR & LOCK SYSTEM

Wiring Diagram

INFOID:000000006302741

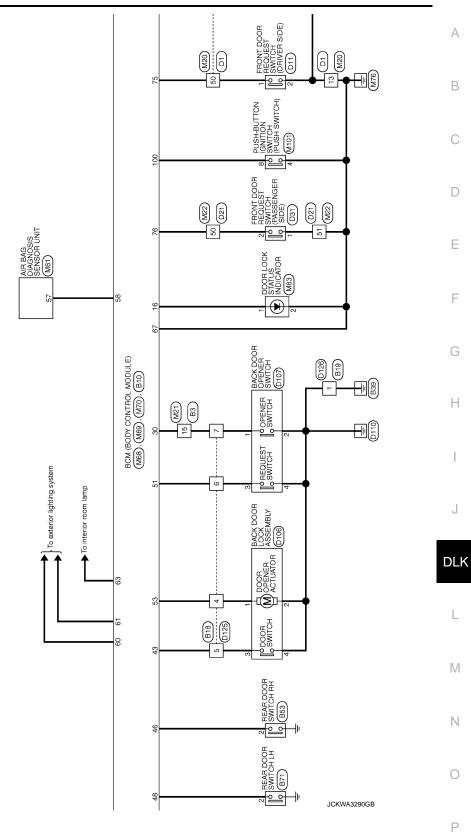
For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to <u>GI-12</u>, "<u>Connector Information/Explanation of Option Abbreviation</u>".



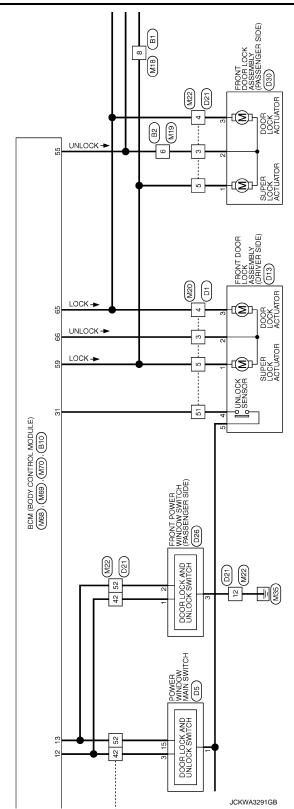
DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

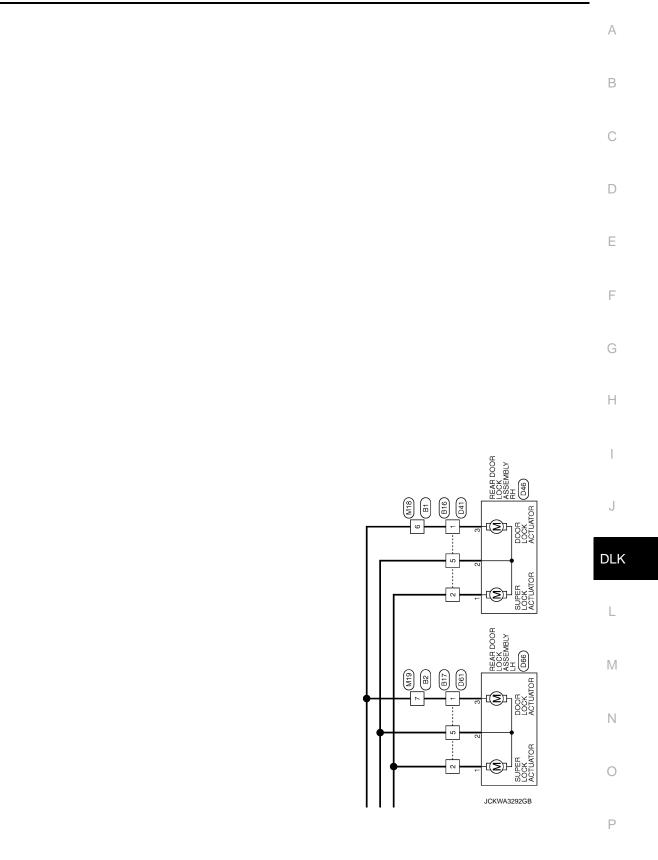
[TYPE 1]



DOOR & LOCK SYSTEM



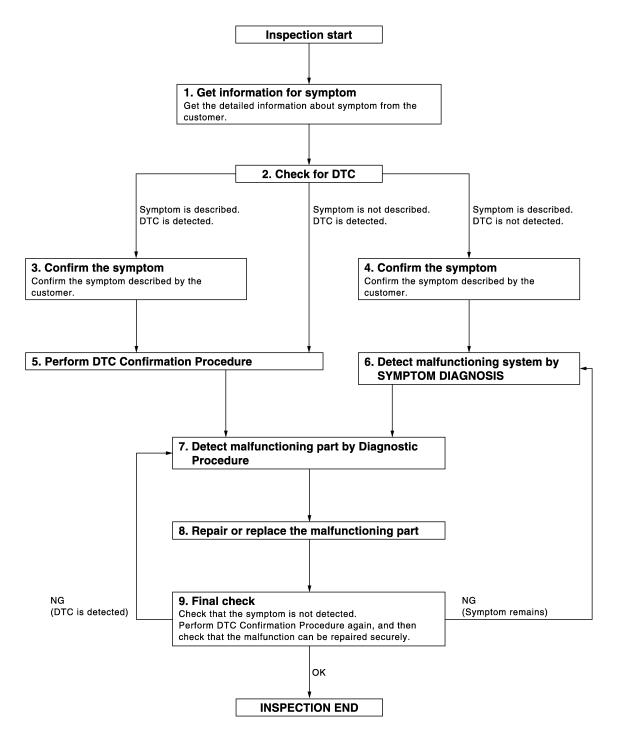
DOOR & LOCK SYSTEM



BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



INFOID:000000006302742

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM	А
 Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred). Check energy and the function that is malfunctioning. 	A
2. Check operation condition of the function that is malfunctioning.	В
>> GO TO 2.	
2.CHECK FOR DTC	С
 Check BCM for DTC. Perform the following procedure if DTC is displayed. Record DTC and freeze frame data (print them out with CONSULT-III). Erase DTC. 	D
 Study the relationship between the cause detected by DTC and the symptom described by the customer. Check related service bulletins for information. 	Е
Are any symptoms described or any DTC detected?	
Symptom is described, DTC is displayed>>GO TO 3. Symptom is described, DTC is not displayed>>GO TO 4. Symptom is not described, DTC is displayed>>GO TO 5.	F
3.CONFIRM THE SYMPTOM	
Confirm the symptom described by the customer. Connect CONSULT-III to the vehicle in the "DATA MONITOR" mode and check real time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.	G
	Н
>> GO TO 5.	
4.CONFIRM THE SYMPTOM	
Confirm the symptom described by the customer. Connect CONSULT-III to the vehicle in the "DATA MONITOR" mode and check real time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.	J
>> GO TO 6.	_
5.PERFORM DTC CONFIRMATION PROCEDURE	DL
Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to <u>BCS-66, "DTC Inspection Priority Chart"</u> (BCM) determine trouble diagnosis order.	L
NOTE: Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check. If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.	Μ
Is DTC detected?	Ν
YES >> GO TO 7. NO >> Refer to <u>GI-42, "Intermittent Incident"</u> .	
6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS	0
Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptoms.	Ρ
>> GO TO 7.	

 $7. {\tt DETECT} {\tt MALFUNCTIONING} {\tt PART} {\tt BY} {\tt DIAGNOSTIC} {\tt PROCEDURE}$

Inspect according to Diagnostic Procedure of the system. **NOTE:**

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[TYPE 1]

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

Is malfunctioning part detected?

YES >> GO TO 8.

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

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9.FINAL CHECK

When DTC is detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction is completely repaired.

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

Does the symptom reappear?

- YES (DTC is detected)>>GO TO 7.
- YES (Symptom remains)>>GO TO 6.
- NO >> INSPECTION END

DTC/CIRCUIT DIAGNOSIS B2621 INSIDE ANTENNA

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III 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) Between BCM ~ Inside key antenna (instrument center)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 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-55, "Diagnosis Procedure"</u>.
- NO >> Inside key antenna (instrument center) is OK.

Diagnosis Procedure

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM			Oraclitica	Signal
BC	, IVI	(-)	Condition	(Reference value)
Connector	Terminal			
M70	84	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 5 0 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
M70	84 85	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1111111111111111111111111111
				JMKIA3838GB

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector and inside key antenna (instrument center) connector.
- 3. Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

В	BCM		Inside key antenna (instrument center)	
Connector	Terminal	Connector	Terminal	Continuity
M70	84	M105	1	Existed
NIT O	85	WI105	2	LNSIEU

4. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M70	84	Ground	Not existed
WI70	85		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM		(–) Condition		Signal (Reference value)
Connector	Terminal			()
M70	84	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 5 0 1 5 0 1 5 0 1 5 0 1 5 10 5 0 1 5 10 5 0 15 10 5 0 15 10 5 0 15 10 5 0 15 10 5 0 15 15 15 15 15 15 15 15 15 15 15 15 15
	85		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 111111111111111111111111

Is the inspection result normal?

- YES >> Replace inside key antenna (instrument center).
- NO >> Replace BCM. Refer to <u>BCS-93. "Removal and Installation"</u>.

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2622 INSIDE ANTENNA

DTC Logic

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INFOID:000000006302745

[TYPE 1]

	DTC	CONSULT-III 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) Between BCM ~ Inside key antenna (console)
DTC	CONFI	RMATION PROC	EDURE	
1. P	ERFORM	I DTC CONFIRMA	TION PROCEDURE	
2. 3.	Select "IN Perform KEY".	NSIDE ANT DIAGN	of "BCM" using CONSULT-III. OSIS" in "WORK SUPPORT" mode. a ("INSIDE ANT DIAGNOSIS") on "WOR	K SUPPORT" of "INTELLIGENT
		antenna DTC detec		
YE NO		Refer to <u>DLK-57, "Di</u> nside key antenna (agnosis Procedure". console) is OK.	
Dia	gnosis	Procedure		INFOID:00000006302746
1 .			NA INPUT SIGNAL 1	

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

(+) BCM		(-)	Condition	Signal	
Connector	Terminal	_		(Reference value)	
M70	86	Ground	When Intelligent Key is in the an- tenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB	
M/O	87	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1111111111111111111111111111	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.

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

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

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B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

E	BCM	Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M70	86	M106	1	Existed
WI7 O	87	WIT00	2	Existed

4. Check continuity between BCM harness connector and ground.

B	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M70	86	Ground	Not existed	
WI7 O	87		NOI EXISIED	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna (console). (New antenna or other antenna)

- 2. Connect BCM connector and inside key antenna (console) connector.
- 3. Turn ignition switch ON.

4. Check signal between BCM harness connector and ground using oscilloscope.

	(+) BCM		Condition	Signal (Reference value)
Connector	Terminal			()
M70	86	Ground	When Intelligent Key is in the an- tenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
WIYO	87	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 5 5 5 5 5 5 5 5 5 5 5 5

Is the inspection result normal?

YES >> Replace inside key antenna (console).

NO >> Replace BCM. Refer to <u>BCS-93. "Removal and Installation"</u>.

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2623 INSIDE ANTENNA

DTC Logic

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INFOID:000000006598503

[TYPE 1]

DTC	CONSULT-III 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) Between BCM ~ Inside key antenna (luggage room)
TC CONF	IRMATION PROC	EDURE	
.PERFOR	M DTC CONFIRMA	TION PROCEDURE	
. Select "I	NSIDE ANT DIAGN	of "BCM" using CONSULT-III. OSIS" in "WORK SUPPORT" mode. a ("INSIDE ANT DIAGNOSIS") on "WOR	
KEY".	CM for DTC.		K SUPPORT" of "INTELLIGEN
KEY". . Check B			K SUPPORT of "INTELLIGEN
KEY". . Check B <u>s inside key</u> YES >> I	CM for DTC. <u>antenna DTC detec</u> Refer to <u>DLK-59, "Di</u>		K SUPPORT" of "INTELLIGEN

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

(+) BCM		()	Condition	Signal (Reference value)	J
Connector	Terminal				
M70	88	Ground	When Intelligent Key is in the an- tenna detection area	(V) 15	DLH L M
WI C	89	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 11 15 10 11 15 10 11 15 10 11 15 10 11 15 10 11 15 10 11 15 10 11 15 10 11 15 10 15 10 15 10 15 10 15 10 10 15 10 10 10 10 10 10 10 10 10 10	N O

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93. "Removal and Installation"</u>.

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.

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

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B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

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

В	BCM		Inside key antenna (luggage room)	
Connector	Terminal	Connector	Terminal	Continuity
M70	88	B82	1	Existed
WI7 O	89	D02	2	LAISIEU

4. Check continuity between BCM harness connector and ground.

ВС	CM		Continuity
Connector	Terminal	Ground	Continuity
M70	88	Ground	Not existed
	89		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- 1. Replace inside key antenna (luggage room). (New antenna or other antenna)
- 2. Connect BCM connector and inside key antenna (luggage room) connector.
- 3. Turn ignition switch ON.
- 4. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(–) Condition		Signal	
Connector	Terminal			(Reference value)	
M70	88	Ground	When Intelligent Key is in the an- tenna detection area	(V) 15 10 5 0 15 10 5 0 15 10 5 0 15 10 5 0 15 15 10 5 0 15 15 10 5 0 15 15 15 10 15 15 10 15 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15	
M70	89	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA5951GB	

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room).

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

DLK-60

B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2626 OUTSIDE ANTENNA

DTC Logic

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JMKIA5954GB

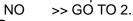
INFOID:000000006302747

DTC	CONSULT-III displ description	DTC detecting condition	Possible cause
B2626	OUTSIDE ANTENI	An excessive high or low voltage from outside key antenna (driver side) is sent to BCM	 Outside key antenna (driver side) Between BCM ~ Outside key antenna (driver side)
C CONF	IRMATION PRO	CEDURE	
PERFOR	M DTC CONFIRM	IATION PROCEDURE	
Disconne Perform	ect outside key ar "INTELLIGENT k	itenna (driver side) connector. EY" Self Diagnostic Result.	
	<u>y antenna DTC d</u> Refer to DLK-61,	<u>etected?</u> 'Diagnosis Procedure".	
		na (driver side) is OK.	
10 >> (INF0ID:0000000630274
10 >> (agnosis	Dutside key anter Procedure		INFOID:0000000630274
IO >> (agnosis CHECK C Turn igni	Dutside key anter Procedure DUTSIDE KEY AN tion switch OFF.	na (driver side) is OK.	
IO >> (agnosis CHECK C Turn igni Check si	Dutside key anter Procedure DUTSIDE KEY AN tion switch OFF.	na (driver side) is OK. ITENNA INPUT SIGNAL 1	loscope.
NO >> (agnosis .CHECK C Turn igni Check si	Dutside key anter Procedure DUTSIDE KEY AN tion switch OFF. gnal between BC	na (driver side) is OK. ITENNA INPUT SIGNAL 1 M harness connector and ground using oscil	INFOID:00000006302744 loscope. Signal (Reference value)

M70	78	Grand	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 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5
M70	79	Ground	ated with ignition switch OFF	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

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.



2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and outside key antenna (driver side) connector.

Check continuity between BCM harness connector and outside key antenna (driver side) harness connector.

B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

E	BCM Outside key antenna (driver side)		Outside key antenna (driver side)		
Connector	Terminal	Connector	Terminal	Continuity	
M70	78	D12	1	Existed	
WI7 O	79		2	LAISIEU	

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M70	78	Ground	Not existed
10170	79		NUL EXISIEU

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (driver side). (New antenna or other antenna)

- 2. Connect BCM connector and outside key antenna (driver side) connector.
- 3. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		()	Condition		Signal (Reference value)	
Connector	Terminal				(Reference value)	
M70	78	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	
M70	79	Ground	ated with ignition switch OFF	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 outside key antenna (driver side).

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2627 OUTSIDE ANTENNA

DTC Logic

А

INFOID:000000006302749

DT	C DETEC	TION LOGIC			В
•	DTC	CONSULT-III display description	DTC detecting condition	Possible cause	С
	B2627	OUTSIDE ANTENNA	An excessive high or low voltage from outside key antenna (passenger side) is sent to BCM	 Outside key antenna (passenger side) Between BCM ~ Outside key an- tenna (passenger side) 	D
		RMATION PROC	EDURE TION PROCEDURE		Е
	Perform ' outside key	INTELLIGENT KEN antenna DTC dete	nna (passenger side) connector. /" Self Diagnostic Result. <u>ected?</u> agnosis Procedure".		F
N	0 >> 0		(passenger side) is OK.	INFOID:00000006302750	G
1.	CHECK O	UTSIDE KEY ANTE	ENNA INPUT SIGNAL 1		Н

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

	+) CM	(–)	Condition		(-) Condition Signal	Signal (Reference value)
Connector	Terminal					
1170	80	Quand	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 0 5 0 5 5 5 0 5 5 0 5 5 5 5 5 5 5 5 5 5 5 5 5	
M70	81	Ground	ated with ignition switch OFF	When Intelligent Key	(V)	
				When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	10 10 5 0 > 4 500 ms	
					JMKIA5954GB	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

```
NO >> GO TO 2.
```

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and outside key antenna (passenger side) connector.

2. Check continuity between BCM harness connector and outside key antenna (passenger side) harness connector.

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B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

I	ЗСМ	Outside key anten	na (passenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M70	80	D32	1	Existed
WI7 O	81	0.52	2	LAISIEU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M70	80	Ground	Not existed
W70	81		NUL EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (passenger side). (New antenna or other antenna)

- Connect BCM connector and outside key antenna (passenger side) connector.
- 3. Check signal between BCM harness connector and ground using oscilloscope.

(+ BC		()	Condition		Signal (Reference value)
Connector	Terminal				
M70	80	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
M70	81	Ground	ated with ignition switch OFF	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 outside key antenna (passenger side).

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2628 OUTSIDE ANTENNA

DTC Logic

[TYPE 1]

А

Ρ

INFOID:000000006302751

DTC	CONSULT-III display description	DTC detecting condition	Possible cause
B2623	OUTSIDE ANTENNA	An excessive high or low voltage from outside key antenna (rear bumper) is sent to BCM	 Outside key antenna (rear bumper) Between BCM – Outside key an- tenna (rear bumper)
	RMATION PROC	EDURE	
.PERFORM	I DTC CONFIRMA	TION PROCEDURE	
2. Perform "		nna (rear bumper) connector. ′" Self Diagnostic Result. ected?	
		agnosis Procedure". a (rear bumper) is OK.	
Diagnosis	Procedure		INFOID:000000063027
	UTSIDE KEY ANTE	ENNA INPUT SIGNAL 1	
. Turn ignit	tion switch OFF.		

2. Check signal between BCM harness connector and ground using oscilloscope.

(+)					Circal	
BC	М	(-)	Con	dition	Signal (Reference value)	
Connector	Terminal				()	
NZO	82		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 5 5 5 5 5 5 5 5 5 5 5 5 5	
M70 83	Ground Ground ated with ignition switch OFF	When Intelligent Key	(V) 15			
			is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	10 5 0 ••••••		
					JMKIA5954GB	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "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-65

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

	ЗСМ	Outside key antenna (rear bumper)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M70	82	B83	1	Existed
WI7 O	83		2	LXISIEU

3. Check continuity between BCM harness connector and ground.

B	CM		
Connector	Terminal	Ground	Continuity
M70	82	Ground	Not existed
	83		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (rear bumper). (New antenna or other antenna)

- 2. Connect BCM and outside key antenna (rear bumper) connector.
- 3. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		()	Condition		Signal (Reference value)
Connector	Terminal				
M70	82	Cround	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
MZO	83	Ground	ated with ignition switch OFF	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 outside key antenna (rear bumper).

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

	GNOSIS >	JOOR OPE	ENER ACTU	ATOR	[TYPE 1]
BACK DOOR C	PENER ACT	UATOR			
Component Fund	tion Check				INFOID:00000006600432
	N				
2. Select "TRUNK/B	ENT KEY" of "BCM ACK DOOR" in "AC nction operates nor	CTIVE TEST" r	mode.	ng conditions.	
	Monitor item			Status	
TRUNK/BACK DOOR	0	PEN	Back door		OPEN
NO >> Refer to <u>C</u> Diagnosis Procec	r opener actuator is <u>DLK-67, "Diagnosis</u> lure	Procedure".			INF01D:00000006600433
CHECK BACK DO Turn ignition swite Disconnect back of Check voltage be		connector.		or and ground	
	+)	_			Voltage
	ck assembly	()	Conc	lition	(Approx.)
Connector	Terminal		Back door		
D106	1	Ground	opener switch	ON	12 V
YES >> GO TO 3. NO >> GO TO 2. 2.CHECK BACK DO	OR OPENER ACT			lock assembly	harness connector.
			Back door lock assembly		
2. Check continuity I	BCM				Continuity
2. Check continuity I	Terminal		nector	Terminal	· · · · · · · · · · · · · · · · · · ·
2. Check continuity B Connector B10		D1	nector		Continuity Existed
2. Check continuity B	Terminal 53 Detween BCM harn	D1	nector	Terminal	· · · · · · · · · · · · · · · · · · ·
2. Check continuity B Connector B10	Terminal 53 Detween BCM harn BCM	D1	nector	Terminal 1	· · · · · · · · · · · · · · · · · · ·

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

BACK DOOR OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Back door lo	ck assembly		Continuity	
Connector	Terminal	Ground	Continuity	
D106	2		Existed	

Is the inspection normal?

YES >> Replace back door lock assembly.

NO >> Repair or replace harness.

ACK DOOR OPENER SWITCH Component Function Check .CHECK FUNCTION Select "TRUNK" of "BCM" using CONSULT-III. Select "TRUD OPEN SW" in "DATA MONITOR" mode. Check that the function operates normally according to the following conditions. TR/BD OPEN SW Back door opener switch Pressed ON TR/BD OPEN SW Back door opener switch Pressed OFF the inspection result normal? YES > Back door opener switch is OK. NO >> Refer to DLK-69. "Diagnosis Procedure". Diagnosis Procedure accancescence .CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL		DACK	DOOR O	FENER	SWIICH			
CHECK FUNCTION Select "TRUNK" of "BCM" using CONSULT-III. Select "TRUBD OPEN SW" in "DATA MONITOR" mode. Check that the function operates normally according to the following conditions. Monitor item Condition Status Monitor item Condition M						[TYPE 1		
.CHECK FUNCTION Select "TRUNK" of "BCM" using CONSULT-III. Select "TRUNK" of "BCM" using CONSULT-III. Select "TRUNK" of "BCM" in "DATA MONITOR" mode. Check that the function operates normally according to the following conditions. Monitor item Condition TR/BD OPEN SW Back door opener switch Pressed ON TR/BD OPEN SW Back door opener switch Pressed ON TR/BD OPEN SW Back door opener switch is OK. Pressed OFF a the inspection result normal? YES > Back door opener switch is OK. Pressed OFF Signal CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL Turn ignition switch OFF. Disconnect back door opener switch connector. Check signal between back door opener switch harness connector and ground using oscilloscope. (+) Back door opener switch (-) Diror 1 Ground Check signal between back door opener switch harness connector and ground using oscilloscope. Diror 1 Ground <t< td=""><td>BACK DOOR O</td><td>PENER SWI</td><td>ICH</td><td></td><td></td><td></td></t<>	BACK DOOR O	PENER SWI	ICH					
 Select "TR/BD OPEN SW" in "DATA MONITOR" mode. Check that the function operates normally according to the following conditions. Monitor item Condition Status Monitor item Condition Status Pressed ON Released OFF Ite inspection result normal? YES >> Back door opener switch is OK. NO >> Refer to DLK-69. "Diagnosis Procedure". Diagnosis Procedure CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL Turn ignition switch OFF. Disconnect back door opener switch connector. Check signal between back door opener switch harness connector and ground using oscilloscope. (+) Signal Back door opener switch connector. Connector Terminal Diognosis Diognosis Signal Ite inspection result normal? YES >> GO TO 3. NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT Disconnect BCM connector. Check continuity between BCM harness connector and back door opener switch harness connector. Check continuity between BCM harness connector and back door opener switch harness connector. 	Component Func	tion Check				INFOID:000000066005		
 Select "TR/BD OPEN SW" in "DATA MONITOR" mode. Check that the function operates normally according to the following conditions. Monitor item Condition Status Monitor item Condition Status Pressed ON Released OFF Ite inspection result normal? YES >> Back door opener switch is OK. NO >> Refer to DLK-69. "Diagnosis Procedure". Diagnosis Procedure CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL Turn ignition switch OFF. Disconnect back door opener switch connector. Check signal between back door opener switch harness connector and ground using oscilloscope. (+) Signal Back door opener switch connector. Connector Terminal Diognosis Diognosis Signal Ite inspection result normal? YES >> GO TO 3. NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT Disconnect BCM connector. Check continuity between BCM harness connector and back door opener switch harness connector. Check continuity between BCM harness connector and back door opener switch harness connector. 		1						
Check that the function operates normally according to the following conditions. Monitor item Condition Status TR/BD OPEN SW Back door opener switch Pressed ON Released OFF Released OFF The inspection result normal? YES >> Back door opener switch is OK. NO >> Refer to DLK-69. "Diagnosis Procedure". Diagnosis Procedure								
Monitor item Condition Status TR/BD OPEN SW Back door opener switch Pressed ON Released OFF OFF OFF it he inspection result normal? YES >> Back door opener switch is OK. OFF VO >> Refer to DLK-69. "Diagnosis Procedure". OFF OFF Object Check BACK DOOR OPENER SWITCH INPUT SIGNAL Image: Status Status OHECK BACK DOOR OPENER SWITCH INPUT SIGNAL Image: Status Status Status Otheck signal between back door opener switch connector. Check signal between back door opener switch harness connector and ground using oscilloscope. (+) Back door opener switch (-) Signal (Reference value) D107 1 Ground Signal (Reference value) Status Image: State inspection result normal? YES >> GO TO 3. Status Status YES >> GO TO 3. NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT Disconnect BCM connector. Check continuity between BCM harness connector and back door opener switch harness connector. CHECK BACK DOOR OPENER SWITCH CIRCUIT Disconnect BCM connector. Continuity Check continuity					ollowing condition	26		
TR/BD OPEN SW Back door opener switch Pressed ON Released OFF Ethe inspection result normal? YES >> Back door opener switch is OK. NO >> Refer to DLK-69. "Diagnosis Procedure".		clion operates nom			onowing condition	13.		
TK/BD OPEN SW Back door opener switch Released OFF ithe inspection result normal? YES >> Back door opener switch is OK. NO >> Refer to DLK-69. "Diagnosis Procedure". Viagnosis Procedure	Monitor item		Cor	1				
the inspection result normal? YES >> Back door opener switch is OK. NO >> Refer to DLK-69. "Diagnosis Procedure". Diagnosis Procedure	TR/BD OPEN SW	Back door oper	ack door opener switch					
YES >> Back door opener switch is OK. NO >> Refer to <u>DLK-69. "Diagnosis Procedure"</u> . Diagnosis Procedure .CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL 1 Turn ignition switch OFF. Disconnect back door opener switch connector. Check signal between back door opener switch harness connector and ground using oscilloscope. (+) Back door opener switch (-) Connector Terminal D107 1 Ground U the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. .CHECK BACK DOOR OPENER SWITCH CIRCUIT Disconnect BCM connector. Check continuity between BCM harness connector and back door opener switch harness connector. Disconnect BCM connector. Connector Terminal Connector Terminal Connector and back door opener switch harness connector. Check continuity between BCM harness connector and back door opener switch harness connector. Connector Terminal Connector Terminal Connector Connector Continuity	the increation result	normal?		Released		UFF		
NO →> Refer to <u>DLK-69. "Diagnosis Procedure"</u> . Diagnosis Procedure .CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL Turn ignition switch OFF. Disconnect back door opener switch connector. Check signal between back door opener switch harness connector and ground using oscilloscope.	•		K.					
.CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL . Turn ignition switch OFF. .Disconnect back door opener switch connector. .Check signal between back door opener switch harness connector and ground using oscilloscope. (+) Back door opener switch (-) (Reference value) Connector 1 Ground (N) 1 Ground (N) (N) <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>								
Turn ignition switch OFF. Disconnect back door opener switch connector. Check signal between back door opener switch harness connector and ground using oscilloscope. (+) Back door opener switch (-) Signal (Reference value) D107 1 Ground (*) 15 10 10 ms Back door opener switch (-) D107 1 Ground (*) 15 10 ms Junation opener switch (-) D107 1 Ground (*) 15 10 ms Junation opener Junation opener Back door opener Junation opener Junation opener Junation opener Junatin Junation opener <	Diagnosis Proced	ure				INFOID:0000000066005		
Turn ignition switch OFF. Disconnect back door opener switch connector. Check signal between back door opener switch harness connector and ground using oscilloscope. (+) Back door opener switch (-) Signal (Reference value) D107 1 Ground (*) 15 10 10 ms u (*) (*) bit in ispection result normal? YES YES >> GO TO 3. NO NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT Disconnect BCM connector. Check continuity between BCM harness connector and back door opener switch harness connector. BCM Back door opener switch Connector Continuity			רם ואסו ד כ					
 Disconnect back door opener switch connector. Check signal between back door opener switch harness connector and ground using oscilloscope. (+) Back door opener switch (-) (Reference value) Connector Terminal D107 1 Ground (V) (Reference value) (PMAMOT2GB (PMAMOT2GB (F) (F)<td></td><td></td><td></td><td>IGNAL</td><td></td><td></td>				IGNAL				
Image: Check signal between back door opener switch harness connector and ground using oscilloscope. Image: Connector Image: Con			connector.					
Back door opener switch (-) Signal (Reference value) Connector Terminal D107 1 Ground 10 5 10 5 10 5 10 5				arness cor	nnector and grour	nd using oscilloscope.		
Back door opener switch (-) Signal (Reference value) Connector Terminal D107 1 Ground 10 5 10 5 10 5 10 5	/.	<u>\</u>						
Connector Terminal D107 1 Ground Image: State inspection result normal? YES >> GO TO 3. NO >> GO TO 2. CCHECK BACK DOOR OPENER SWITCH CIRCUIT . Check continuity between BCM harness connector and back door opener switch harness connector. Example 1 Back door opener switch Connector Terminal		-				Signal		
D107 1 Ground Image: state inspection result normal? YES >> GO TO 3.			(-)		(Ref	erence value)		
D107 1 Ground Image: State inspection result normal? YES >> GO TO 3. NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT . Disconnect BCM connector. . Check continuity between BCM harness connector and back door opener switch harness connector. Example to the state of the st								
D107 1 Ground Image: Constraint of the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT . Disconnect BCM connector. . Check continuity between BCM harness connector and back door opener switch harness connector. Example 1 Back door opener switch Connector Terminal								
ste inspection result normal? YES >> GO TO 3. NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT Disconnect BCM connector. Check continuity between BCM harness connector and back door opener switch harness connector. BCM Back door opener switch Connector Continuity								
s the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT . Disconnect BCM connector. . Check continuity between BCM harness connector and back door opener switch harness connector. BCM Back door opener switch Connector Continuity	D107	1	Groun	d	ŏ			
a the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT . Disconnect BCM connector. . Check continuity between BCM harness connector and back door opener switch harness connector. BCM Back door opener switch Connector Continuity					- 10 r			
YES >> GO TO 3. NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT . Disconnect BCM connector. . Check continuity between BCM harness connector and back door opener switch harness connector. BCM Back door opener switch Connector Terminal								
NO >> GO TO 2. CHECK BACK DOOR OPENER SWITCH CIRCUIT . Disconnect BCM connector. . Check continuity between BCM harness connector and back door opener switch harness connector. BCM Back door opener switch Connector Terminal	the inspection result	normal?						
CHECK BACK DOOR OPENER SWITCH CIRCUIT Disconnect BCM connector. Check continuity between BCM harness connector and back door opener switch harness connector. BCM Back door opener switch Continuity Connector Terminal Connector Terminal								
Disconnect BCM connector. Check continuity between BCM harness connector and back door opener switch harness connector. BCM Back door opener switch Connector Terminal				_				
BCM harness connector and back door opener switch harness connector. BCM Back door opener switch Connector Terminal Continuity			CH CIRCUI	Γ				
BCM Back door opener switch Continuity Connector Terminal Connector Terminal			ss connecto	r and had	k door opener sw	itch harness connector		
Connector Terminal Connector Terminal								
Connector Terminal Connector Terminal	B	BCM		Back door opener switch		Continuity		
M68 30 D107 1 Existed	Connector	Terminal	Con	nector	Terminal			
	M68	30	D	107	1	Existed		
		BCM				Continuity		
BCM	Connector	Torn	ninal	1	Ground	Continuity		

Is the inspection result normal?

>> Replace BCM. Refer to BCS-93, "Removal and Installation". YES

>> Repair or replace harness. NO

BACK DOOR OPENER SWITCH

(+)			-	
Back door op	ener switch	(-)	Signal (Reference value)	
Connector	Terminal	_		_
D107	1	Ground	(V) 15 10 5 0 •••••••••••••••••••••••••••••	

 B	CM		Continuity	
 Connector Terminal		Ground	Continuity	
 M68	30		Not existed	

DLK-69

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

INFOID:000000006600572

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door o	ppener switch		Continuity	
Connector	Terminal	Ground	Continuity	
D107	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-70, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch.

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 connector.
- 3. Check continuity between back door opener switch terminals.

Back door o	pener switch	Con	Condition	
Terr	Terminal		Condition	
1	2	Back door opener	Pressed	Existed
Ι	2	switch	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch.

Component Functio	n Check			INFOID:0000000630275
1. CHECK FUNCTION				
	KEY" of "BCM" using			
	TR" in "DATA MONITC on operates normally a		lowing conditions.	
	······································	-		
Monitor item		Condition		Status
REQ SW-BD/TR	Back door request swit	ch Pressed Released		On Off
Is the inspection result no	rmal?	Released		Oli
•	quest switch is OK.			
	71. "Diagnosis Proced	lure".		
Diagnosis Procedure	Э			INFOID:0000000630275
1. CHECK BACK DOOR				
		NPUT SIGNAL		
 Turn ignition switch O Disconnect back door 	· opener switch connec	tor.		
	en back door opener s		nector and ground	J.
	(1)			
Back do	(+) or opener switch		()	Voltage
Connector	Terminal			(Approx.)
D107	3		Ground	12 V
Is the inspection result no	rmal?			
YES >> GO TO 3.				
NO >> GO TO 2.				
2.CHECK BACK DOOR	REQUEST SWITCH C	IRCUIT		
1. Disconnect BCM con				
2. Check continuity betw	veen BCM harness cor	nector and back (door opener switci	n harness connector.
BCM		Back door op	pener switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M68	51	D107	3	Existed
3. Check continuity betw	veen BCM harness cor	nnector and groun	d.	
	BCM			
Connector	Terminal	(Ground	Continuity
M68	51			Not existed
Is the inspection result no	rmal?			
YES >> Replace BCM	I. Refer to <u>BCS-93, "Re</u>	emoval and Install	lation".	
NO >> Repair harnes				
3.CHECK BACK DOOR	REQUEST SWITCH G		Γ	
Check continuity between	back door opener swi	tch harness conne	ector and ground.	
Check continuity between			0	
			Ŭ	
	or opener switch		Ground	Continuity

BACK DOOR REQUEST SWITCH

Existed

DLK-71

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BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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

4.CHECK BACK DOOR REQUEST SWITCH

Refer to DLK-72, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:000000006302792

1.CHECK BACK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.

2. Disconnect back door opener switch connector.

3. Check continuity between back door opener switch terminals.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch.

BUZZER (COMBINATION METER)

< DTC/CIRCUIT DIAGNOSIS >

BUZZER (COMBINATION METER)

Component Function Check

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "INSIDE BUZZER" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

	Monitor item		St	atus
	Take Out	ON		Buzzer sounds
INSIDE BUZZER	Take Out	OFF	Take away warning	Buzzer does not sound
INSIDE BUZZER	Kov	ON		Buzzer sounds
	Key	OFF	OFF position warning	Buzzer does not sound
s the inspection result	t normal?			
	ombination meter) 0LK-73, "Diagnosis			
Diagnosis Proced	lure			INFOID:00000006302799
1.CHECK METER BI	JZZER CIRCUIT			
Refer to <u>WCS-40, "Co</u> s the inspection result		<u>Check"</u> .		
	replace the malfu	nctioning parts.		
2.CHECK INTERMIT	TENT INCIDENT			
Refer to <u>GI-42, "Interm</u>	nittent Incident".			
>> INSPECT	ION END			

[TYPE 1]

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< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monite	or item	Status	
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
	ALL UNLK	Door lock actualors	UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

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

DRIVER SIDE : Diagnosis Procedure

INFOID:000000006302765

1. CHECK DOOR LOCK ACTUATOR 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)		(—)	Condition	Condition		
Connector	Terminal					
D13	2	Ground	Door lock and unlock switch	Unlock	12 V	
013	3	Ground	Door lock and unlock Switch	Lock		

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side).

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

В	BCM		Front door lock assembly (driver side)	
Connector	Terminal	Connector	Terminal	Continuity
M69	65	D13	3	Existed
1009	66		2	LAISIEU

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M69	65	Ground	Not existed	
MOS	66		NUL EXISIEU	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

	+) CM	()	Condition		Voltage (Approx.)	D
Connector	Terminal				())	
M69	66	Ground	Door lock and unlock switch	Unlock	12 V	_
1009	65	Ground	Door lock and unlock Switch	Lock	12 V	
	and a set of the second set	0		•		D

Is the inspection result normal?

- YES >> Check for internal short of each door lock actuator.
- NO >> Replace BCM. Refer to <u>BCS-93</u>, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item		Status		Н
	ALL LOCK	Door lock actuators	LOCK	
DOOR LOCK	ALL UNLK	DOUT TOCK ACTUATORS	UNLOCK	

Is the inspection result normal?

YES >> Door lock actuator is OK.

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

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.

Front door lo	+) ock assembly ger side)	()	Condition		Condition Voltage (Approx.)			M
Connector	Terminal							
D20	2	Cround	Door lock and unlock switch	Unlock	10.1/	Ν		
D30	3	Ground	DOUTIOCK and UNIOCK SWITCH	Lock	12 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 connector and all door lock assembly connector.

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

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< DTC/CIRCUIT DIAGNOSIS >

E	BCM		Front door lock assembly (passenger side)		
Connector	Terminal	Connector	Terminal	Continuity	
B10	55	D30	2	Existed	
M69	65		3	LAISIEU	

3. Check continuity between BCM harness connector and ground.

BC	CM		Continuity	
Connector	Terminal	Ground	Continuity	
B10	55	Ground	Not existed	
M69	65		NOT EXISTED	

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.

	+) CM	()	Condition		Voltage (Approx.)
Connector	Terminal				
B10	55	Ground	Ind Door lock and unlock switch	Unlock	12 V
M69	65	Giounu	Door lock and unlock Switch	Lock	12 V

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

REAR LH

REAR LH : Component Function Check

INFOID:000000006302768

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monit	or item	Status	
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
DOOR LOCK	ALL UNLK		UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

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

REAR LH : Diagnosis Procedure

INFOID:000000006302769

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect rear door lock assembly LH connector.

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

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

LOCK

UNLOCK

(+)					
Rear door lock	assembly LH	(-)		Condition		Voltage (Approx.)
Connector	Terminal					
D66	2 3	- Ground	Door lock ar	nd unlock switch	Unlock Lock	12 V
he inspection	result norma	al?				
		or lock assemb	oly LH.			
0 >> GO ⁻	-					
		TUATOR CIRC				
		tor and all doo n BCM harnes				nbly LH harness connector.
	BCM		F	Rear door lock as	ssembly LH	Opertionity
Connecto	r	Terminal	Con	nector	Terminal	Continuity
B10		55		66	2	Existed
M69		65			3	EXISIEU
Check contir	uity betwee	n BCM harnes	s connecto	r and ground.		
	BC	:M				
Conne		Termi	nal		Continuity	
B10		55		Ground Not existed		
M6		65				Not existed
he inspection	result norma	al?				
ES >> GO ⁻						
•	air or replace					
CHECK BCM	OUTPUT S	IGNAL				
Connect BCI						
Check voltag	je between l	BCM harness of	connector a	nd ground.		
	(+)					
E	всм	()		Conditio	on	Voltage (Approx.)
Connector	Termina	al				(/ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
B10	55	0		k and unlack as the	Unlock	40.17
M69	65	Ground		k and unlock swit	Lock	12 V
he inspection	result norma	al?				
		al short of each				
	ace BCM. R	efer to <u>BCS-93</u>	<u>3, "Remova</u>	l and Installat	<u>ion"</u> .	
EAR RH						
EAR RH : C	componer	nt Function	Check			INFOID:0000000630
CHECK FUNG	CTION					
		"BCM" using (II.		
		"ACTIVE TES		a 4a 4h - 4-11	ula a a su diff	
Uneck that th	ne function of	operates norma	any accordir	ig to the follo	wing condition	ons.
	Monito	or item			S	tatus
					•	

Door lock actuators

ALL LOCK

ALL UNLK

DOOR LOCK

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Is the inspection result normal?

YES >> Door lock actuator is OK. NO >> Refer to <u>DLK-74, "DRIVER SIDE : Diagnosis Procedure"</u>.

REAR RH : Diagnosis Procedure

INFOID:000000006302771

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(-	+)					
Rear door locl	k assembly RH	(—)	Condition		Condition Voltage (Approx.)	Voltage (Approx.)
Connector	Terminal				() () () () () () () () () ()	
D46	2	Ground	Door lock and unlock switch		12 V	
D40	3	Ground	Door lock and unlock switch	Lock		

Is the inspection result normal?

YES >> Replace rear door lock assembly RH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

В	СМ	Rear door lock assembly RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B10	55	D46	2	Existed	
M69	65		3		

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
B10	55	Ground	Not existed
M69	65		NUL EXISTED

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.

	+) CM	()	Condition		Voltage (Approx.)
Connector	Terminal				()
B10	55	Ground	Door lock and unlock switch	Unlock	12 V
M69	65	Gibunu	Door lock and unlock switch Lock	12 V	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

[TYPE 1] < DTC/CIRCUIT DIAGNOSIS > DOOR LOCK AND UNLOCK SWITCH А DRIVER SIDE **DRIVER SIDE : Component Function Check** INFOID:00000006302756 В **1.**CHECK FUNCTION Select "DOOR LOCK" of "BCM" using CONSULT-III. 1. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode. 2. Check that the function operates normally according to the following conditions. 3. D Monitor item Condition Status ON Lock CDL LOCK SW Unlock OFF Door lock and unlock switch OFF Lock CDL UNLOCK SW ON Unlock Is the inspection result normal? YES >> Door lock and unlock switch is OK. >> Refer to DLK-79, "DRIVER SIDE : Diagnosis Procedure". NO **DRIVER SIDE : Diagnosis Procedure** INFOID:00000006302757 CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL Н 1. Turn ignition switch OFF. 2. Disconnect power window main switch connector. 3. Check signal between power window main switch harness connector and ground using oscilloscope. (+) Signal Power window main switch (-) (Reference value) Connector Terminal 3 DLK D5 Ground 15 10 ms JPMIA0012GB 1.0 - 1.5 V M Is the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. Ν 2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT 1. Disconnect BCM connector and front power window switch (passenger side) connector. 2. Check continuity between BCM harness connector and power window main switch harness connector. BCM Power window main switch Continuity Ρ Terminal Terminal Connector Connector 3 12 M68 D5 Existed 13 15

DOOR LOCK AND UNLOCK SWITCH

3. Check continuity between BCM harness connector and ground.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M68	12	Ground	Not existed	
WOO	13		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-93, "Removal and Installation".

NO >> Repair or replace harness.

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

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

Power windo	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D5	1		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to DLK-80, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to PWC-44, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:00000006302758

1. CHECK DOOR LOCK AND UNLOCK SWITCH

- Turn ignition switch OFF. 1.
- Disconnect power window main switch connector. 2.
- Check continuity between power window main switch terminals. 3.

Power windo	w main switch	Condition		Continuity
Ten	minal			Continuity
2			LOCK	Existed
5	4	Door lock and unlock	UNLOCK	Not existed
15	I	switch	LOCK	Not existed
15			UNLOCK	Existed

Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace power window main switch.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

1.

Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode. 2.

DLK-80

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

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3. Check that the function operates normally according to the following conditions.

Monitor item	Cor	Condition		
		Lock	ON	
CDL LOCK SW		Unlock	OFF	
CDL UNLOCK SW	Door lock and unlock switch	Lock	OFF	
		Unlock	ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-81, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE : Diagnosis Procedure

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect front power window switch (passenger side) connector.

 Check signal between front power window switch (passenger side) harness connector and ground using oscilloscope.

(+) Front power window switch (passenger side)		()	Signal (Reference value)	
Connector	Terminal			
	1			
D26	2	Ground	(V) 15 10 10 10 10 JPMIA0012GB 1.0 - 1.5 V	

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 front power window switch (passenger side) harness connector.

BCM		Front power window switch (passenger side)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	Ν
M68	12	D26 1	Existed	-	
IVIOO	13	D20	2	Existed	

3. Check continuity between BCM harness connector and ground.

-	B	CM		Continuity	_
_	Connector	Terminal	Ground	Continuity	Р
-	M68	12	Ground Not evicto	Not existed	
		13		NOL EXISTED	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between front power window switch (passenger side) harness connector and ground.

Front power window switch (passenger side)			Continuity
Connector	Terminal	Ground	Continuity
D26	3	1	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-82, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace front power window switch (passenger side). Refer to <u>PWC-44, "Removal and Installa-</u> tion".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000006599582

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 switch (passenger side)		Condition		Continuity
Terr	minal			Continuity
1			LOCK	Existed
I	0	Door lock and unlock switch	UNLOCK	Not existed
2	3		LOCK	Not existed
2			UNLOCK	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side).

< DTC/CIRCUIT DIAGN		LUCK SI		DIGATON	[TYPE 1]
DOOR LOCK ST	ATUS IND	ICATOR			
Component Function	on Check				INF01D:00000006302762
1.CHECK FUNCTION					
 Select "DOOR LOCH Select "DOOR LOCH Select that the funct 	K IND" in "ACT	IVE TEST" mo	de.	llowing conditio	ns.
Ν	Monitor item			Sta	atus
DOOR LOCK IND	ON OFF		Door lock s	tatus indicator	Turns ON Turns OFF
YES >> Door lock sta NO >> Refer to <u>DLP</u> Diagnosis Procedul .CHECK DOOR LOCK . Turn ignition switch (. Disconnect door lock	<u><-83. "Diagnos</u> re < STATUS IND OFF. k status indica [∙]	ICATOR INPU			INFOID:00000006302763
. Check voltage betwe	een door lock s	status indicator	harness co	nnector and gro	bund.
(+) Door lock status in	ndicator	()		Condition	Voltage
Connector	Terminal	(–) Ground Doo		Contaition	(Approx.)
M83	1	Ground	Door lock op plished	peration is accom-	12 V
			Any door is	OPEN	0 V
the inspection result n YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR LOCK Disconnect BCM con Check continuity bet	C STATUS IND			lock status indic	cator harness connector.
BCI	M		Door lock st	atus indicator	Continuity
Connector	Terminal		nnector	Terminal	Continuity
M68	16		M83	1	Existed
Check continuity bet		mess connecto	or and group	IU.	
Connector	BCM	Terminal		Ground	Continuity
M68		16	_		Not existed
the inspection result n YES >> Replace BC NO >> Repair or rep CHECK DOOR LOCK	M. Refer to <u>BC</u> place harness.			<u>llation"</u> .	

DOOR LOCK STATUS INDICATOR

Check continuity between door lock status indicator harness connector and ground.

DOOR LOCK STATUS INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Door lock st	Door lock status indicator		Continuity
Connector	Terminal	Ground	Continuity
M83	2		Existed

Is the inspection result normal?

YES >> Replace door lock status indicator.

NO >> Repair or replace harness.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR REQUEST SWITCH

Component Function Check

1.CHECK FUNCTION

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.

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		Status	
REQ SW -DR	Driver side door request switch	Pressed	ON	D
REQ 3W -DR	Driver side door request switch	Released	OFF	
		Pressed	ON	
REQ SW -AS	Passenger side door request switch	Released	OFF	E

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to <u>DLK-85, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunctioning front door request switch connector.
- 3. Check voltage between malfunctioning front door request switch harness connector and ground.

(+)					
	Front door request switch	า	(-)	Voltage (Approx.)	
Connector		Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Driver side	D11	1	Ground	12 V	
Passenger side	D31	2	Giouna	12 V	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector.

2. Check continuity between malfunctioning front door request switch harness connector and BCM harness connector.

F	ront door request switch		BCM		BCM	
Con	nector	Terminal	Connector	Terminal	Continuity	Ν
Driver side	D11	1	MZO	75	Existed	
Passenger side	D31	M70	LAISIEU	0		

3. Check continuity between malfunctioning front door request switch harness connector and ground.

F	Front door request switch			Continuity	Р
Coni	nector	Terminal			
Driver side	D11	1	Giouna	Not evicted	-
Passenger side	D31	2	-	Not existed	_

DLK-85

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93. "Removal and Installation"</u>.

NO >> Repair or replace harness.

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DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

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

Check continuity between malfunctioning front door request switch harness connector and ground.

Front door request switch				
Connector		Terminal	Ground	Continuity
Driver side	D11	2	- Ground	Existed
Passenger side	D31	1		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Refer to <u>DLK-86, "Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front door request switch.

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 re	Front door request switch		Condition		
Terminal		Condition		Continuity	
1	2	Door request switch	Pressed	Existed	
I	2	Door request switch	Released	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunctioning front door request switch.

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Component Function Check

1.CHECK FUNCTION

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

Monitor item		Condition	Status	
	Driver eide de er	Open	On	
DOOR SW-DR	Driver side door	Closed	Off	
	Passenger side door	Open	On	
DOOR SW-AS		Closed	Off	
	Deer deer LLL	Open	On	
DOOR SW-RL	Rear door LH	Closed	Off	
DOOR SW-RR	Rear door RH	Open	On	
DOOK SW-KK		Closed	Off	
	Dool door	Open	On	
DOOR SW-BK	Back door	Closed	Off	

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-87, "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 Connector Terminal			Signal (Reference value)		
		(-)		L	
Driver side	B34				Ъ. Л
Passenger side	B27	2		(V) 15	Μ
Rear LH	B71				
Rear RH	B53		Ground	0	Ν
Back door	D106	3		→ • 10ms ±	
	2100	Ū.		PKIB4960J 7.0 - 8.0 V	0

Is the inspection result normal?

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

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

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.

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INFOID:000000006302753

[TYPE 1]

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Door switch BCM			Continuity		
Con	nector	Terminal	Connector	Terminal	Continuity	
Driver side	B34			47		
Passenger side	B27	2		45		
Rear LH	B71	2		B10	48	Existed
Rear RH	B53			46		
Back door	D106	3		43		

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

Door switch			Continuity			
Co	nnector	Terminal		Continuity		
Driver side	B34		_			
Passenger side	B27	- 2 Ground	2			
Rear LH	B71			Not existed		
Rear RH	B53					
Back door	D106	3	_			

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93</u>, "Removal and Installation".

NO >> Repair or replace harness.

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

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

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D106	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR SWITCH

Refer to DLK-88, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning door switch.

5.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

< DTC/CIRCUIT DIAGNOSIS >

	Door switch		Conc	dition	Continuity		
	Terminal		Conc	allion	Continuity		
Driver side				Pressed	Existed		
Driver side				Released	Not existed		
Decementaide		Ground part of door		Pressed	Existed		
Passenger side	2		Ground part of door	Door switch	Released	Not existed	C
Deerlu	SWITCH	switch	Door Switch	Pressed	Existed		
Rear LH				Released	Not existed		
Deer DU				Pressed	Existed		
Rear RH				Released	Not existed		
Dool door	2		Back door lock as-	Lock	Existed		
Back door	3	4	3 4	sembly	Unlock	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

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< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Component Function Check

1.CHECK FUNCTION

- Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. 1.
- 2. Select "FLASHER" in "ACTIVE TEST" mode.
- Check that the function operates normally according to the following conditions. 3.

Monit	or item	Sta	atus
	LH	Front turn signal lamp LH	Turns ON
FLASHER	RH	Front turn signal lamp RH	Turns ON
	OFF	Front turn signal lamp	Turns OFF

Is the inspection result normal?

- >> Hazard warning lamp circuit is OK. >> Refer to <u>DLK-90, "Diagnosis Procedure"</u>. YES
- NO

Diagnosis Procedure

1.CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-72, "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:000000006302802

INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY

Component Function Check

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "RKE OPE COUN1" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	
RKE OPE COUN1	Check that the numerical value is changing while operating on the Intelligent Key.	D
Is the inspection result normal?		
YES >> Intelligent Key is OK NO >> Refer to <u>DLK-91, "D</u>		E
Diagnosis Procedure	INFOID:00000000630279	7
		F

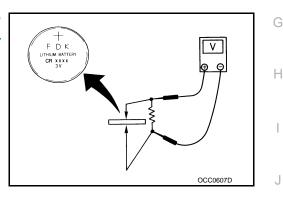
1.CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA. Refer to <u>DLK-193, "Removal and Installation"</u>.

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

- YES >> Replace Intelligent Key.
- NO >> Replace Intelligent Key battery.



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< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY WARNING BUZZER

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "OUTSIDE BUZZER" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item		Status	
OUTSIDE BUZZER	ON	Outside warning buzzer	Buzzer sounds
	OFF		Buzzer does not sound

Is the inspection result normal?

- YES >> Intelligent Key warning buzzer is OK.
- NO >> Refer to <u>DLK-92, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK FUSE

1. Turn ignition switch OFF.

2. Check 10 A fuse, [No. 7, 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 INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key warning buzzer connector.

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

(+)			
Intelligent Key	Intelligent Key warning buzzer		Voltage (Approx.)
Connector	Terminal		
E25	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 ${\it 3.}$ CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

1. Disconnect BCM connector.

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

BCM		Intelligent Key warning buzzer		BCM Intelligent Key warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	Continuity		
M70	93	E25	3	Existed		

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M70	93		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

INFOID:000000006302793

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

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4.CHECK INTELLIGENT KEY WARNING BUZZER

Refer to DLK-93, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-93. "Removal and Installation".

NO >> Replace Intelligent Key warning buzzer.

Component Inspection

1.CHECK INTELLIGENT KEY WARNING BUZZER

- 1. Turn ignition switch OFF.
- 2. Disconnect Intelligent Key warning buzzer connector.
- 3. Connect battery power supply directly to Intelligent Key warning buzzer terminals and check the operation.

		warning buzzer	Intelligent Key
	Operation	ninal	Terr
F		(–)	(+)
	Buzzer sounds	3	1

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace Intelligent Key warning buzzer.

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KEY WARNING LAMP

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "INDICATOR" in "ACTIVE TEST" mode.
- Check that the function operates normally according to the following conditions. 3.

	Monitor item	St	atus
	KEY ON		Turns ON
INDICATOR	KEY IND	Key warning lamp	Blinks
	OFF		Turns OFF

Is the inspection result normal?

- YES
- >> Key warning lamp is OK.
 > Refer to <u>DLK-94</u>, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK KEY WARNING LAMP

Refer to MWI-22, "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:000000006302800

REMOTE KEYLESS ENTRY RECEIVER < DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "RKE OPE COUN1" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions. 3.

_			
_	Monitor item	Condition	
_	RKE OPE COUN1	Checks whether value changes when operating Intelligent Key	D
ls t	he inspection result normal?		
Y	ES >> Remote keyless entry receive	er is OK.	_
N	O >> Refer to DI K-95 "Diagnosis"	Procedure"	E

NO >> Refer to DLK-95, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

1. Turn ignition switch OFF.

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

BCM Connector Terminal		Remote keyles	Continuity	
		nector Terminal Connector		Continuity
M68	18	M75	1	Existed

Check continuity between BCM harness connector and ground. 4.

BC	CM		Continuity	
Connector	Connector Terminal		Continuity	
M68	18		Not existed	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

Reconnect BCM connector. 1.

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

(+)				
Remote keyles	s entry receiver	()	Voltage (Approx.)	
Connector	Terminal		(++ · · · ·)	Ν
M75	4	Ground	5 V	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

${\it 3.}$ Check remote keyless entry receiver circuit 1

1. **Disconnect BCM connector**

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

В	СМ	Remote keyles	Continuity	
Connector	Terminal	Connector Terminal		
M68	19	M75	4	Existed

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Connector Terminal		Continuity
M68	19		Not existed

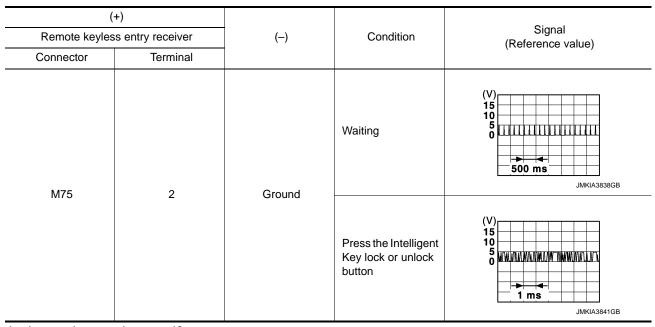
Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93</u>, "Removal and Installation".

NO >> Repair or replace harness.

4.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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



Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace remote keyless entry receiver.

5.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

1. Disconnect BCM connector and remote keyless entry receiver connector.

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

B	BCM		Remote keyless entry receiver		
Connector	Terminal	Connector Terminal		Continuity	
M68	20	M75	2	Existed	

3. Check continuity between BCM harness connector and ground.

ВС	CM		Continuity
Connector	Connector Terminal		Continuity
M68	20		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

 $\mathbf{6}.$ CHECK REMOTE KEYLESS ENTRY RECEIVER RSSI OUTPUT SIGNAL

1. Reconnect BCM and remote keyless entry receiver connector.

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

DLK-96

REMOTE KEYLESS ENTRY RECEIVER

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

(+) А Signal Remote keyless entry receiver (-) Condition (Reference value) Terminal Connector В í٧ Waiting 100 ms D JMKIA5952GB M75 3 Ground (V Ε Press and hold Intelligent Key lock or unlock button F 100 ms JMKIA5953GB Is the inspection result normal? YES >> GO TO 7. NO >> Replace remote keyless entry receiver. **7.**CHECK REMOTE KEYLESS ENTRY RECEIVER RSSI CIRCUIT Н Disconnect BCM and remote keyless entry receiver connector. 1. 2. Check continuity between BCM harness connector and remote keyless entry receiver harness connector. BCM Remote keyless entry receiver Continuity Connector Terminal Terminal Connector 22 M68 M75 3 Existed Check continuity between BCM harness connector and ground. 3. DLK BCM Continuity Connector Terminal Ground M68 22 Not existed L Is the inspection result normal? YES >> Replace BCM. Refer to BCS-93, "Removal and Installation". NO >> Repair or replace harness. Μ Ν Ρ

SHIFT P WARNING LAMP

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "LCD" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

	Monitor item	Sta	atus
LCD SFT P		Shift P warning lamp	Turns ON
the inspection r	esult normal?		

- YES >> Shift P warning lamp is OK.
- NO >> Refer to <u>DLK-98, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK SHIFT P WARNING LAMP

Refer to MWI-22, "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:000000006601095

	GNOSI		R LOC	(ACTU	ATOR		[TYPE 1]
SUPER LOCK							<u> </u>
DRIVER SIDE	_						
DRIVER SIDE :	Compo	onent Funct	ion Che	eck			INFOID:00000006302777
CHECK FUNCTIC	N						
. Select "DOOR Lo 2. Select "SUPER Lo 3. Check that the fu	OCK" in	"ACTIVE TES	T" mode.		llowing conditio	ns.	
	Monitor	item			Sta	atus	
SUPER LOCK		LOCK UNLOC		Super lock	actuators		LOCK UNLOCK
the inspection resu YES >> Super loo NO >> Refer to	ck actuat		: Diagnos	sis Proced	ure".		
RIVER SIDE :	-						INFOID:00000006302778
.CHECK SUPER L	OCK AC	TUATOR INPL	JT SIGNAI	L			
. Disconnect front . Check voltage be	etween fr) harness conne	ector a	
Front door lock (driver sig	de)	(-)		Cond	lition		Voltage (Approx.)
Connector	Terminal			-			
D13	1	Groun	d Loc				12 V
NO >> GO TO 2 CHECK SUPER L Disconnect BCM	front doo	TUATOR CIRC	CUIT lock asse	mbly conne		sembl	ly (driver side) harness
	BCM				ock assembly r side)		Continuity
Connector		Terminal	Con	nector	Terminal		
M69		59 66	D	13	1		Existed
. Check continuity	between		connecto	r and grour	_		1
	BC			-			Continuity
Connector		Termina 59	al	-	Ground		·
M69		66		-			Not existed

Is the inspection result normal?

YES >> GO TO 3.

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

	(+) BCM		Condition	Voltage (Approx.)
Connector	Terminal			()
M69	59	Ground	Lock	12 V
1009	66	Ground	Unlock	12 V

Is the inspection result normal?

YES >> Check for internal short of each super lock actuator.

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. **PASSENGER SIDE**

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monit	or item	Status	
SUPER LOCK	LOCK	Super lock actuators	LOCK
	UNLOCK	Super lock actualors	UNLOCK

Is the inspection result normal?

YES >> Super lock actuator is OK.

NO >> Refer to <u>DLK-100, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE : Diagnosis Procedure

1.CHECK SUPER 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.

(+)				
Front door lock assembly (passenger side)		(–)	Condition	Voltage (Approx.)	
Connector	Terminal				
D30	1	Ground	Lock	12 V	
2		Giodila	Unlock	1 12 V	

Is the inspection result normal?

YES >> Replace front door lock assembly (passenger side).

2. CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock assembly connector.

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

INFOID:000000006302780

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

	BCM			lock assembly enger side)	Continuity	
Connector	Terr	ninal	Connector	Terminal		
M69	5	59	D30 1 2		Eviated	
B10	5	5			Existed	
Check continui	ty between BC	M harness conr	nector and gro	und.		
	BCM					
Connecto		Terminal			Continuity	
M69		59		Ground		
B10		55			Not existed	
the inspection re 'ES >> GO TC IO >> Repair .CHECK BCM O) 3. or replace har					
	between BCM	harness connec	ctor and groun	d.		
(+					Voltage	
BC		(-)	(–) Condition (Approx.)			
Connector	Terminal					
M69	59 55	Ground	Lock		12 V	
B10 the inspection re			Unlock			
NO >> Replace EAR LH EAR LH : Con .CHECK FUNCT Select "DOOR Select "SUPEF	e BCM. Refer mponent Fi ION LOCK" of "BCI LOCK" in "AC	M" using CONS TIVE TEST" mo	moval and Inst ck ULT-III. ode.		INFOID.000000006	
	Monitor item			Sta	atus	
		LOCK			LOCK	
SUPER LOCK		UNLOCK	Super loc	k actuators	UNLOCK	
the inspection re	sult normal?				L	
	lock actuator is o <u>DLK-101, "R</u>	OK. EAR LH : Diagn	osis Procedur	<u>e"</u> .		
EAR LH : Dia	gnosis Proc	cedure			INFOID:00000006	
.CHECK SUPER		TOR INPUT SI	GNAL			
. Turn ignition sv . Disconnect rea		embly LH conn	ector.			

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

< DTC/CIRCUIT DIAGNOSIS >

((+) Rear door lock assembly LH				
Rear door loc			Condition	Voltage (Approx.)	
Connector	Terminal				
D66	1	Ground	Lock	12 V	
200	2	Giouna	Unlock	12 V	

Is the inspection result normal?

YES >> Replace rear door lock assembly LH. 2.

NO >> GO TO

2. CHECK SUPER LOCK ACTUATOR CIRCUIT

Disconnect BCM connector and all door lock assembly connector. 1.

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

E	BCM	Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M69	59	D66	1	Existed
B10	55		2	LAISIEU

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M69	59	Ground	Not existed
B10	55		NUL EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 $\mathbf{3.}$ CHECK BCM OUTPUT SIGNAL

Connect BCM connector. 1.

2. Check voltage between BCM harness connector and ground.

	(+) BCM		Condition	Voltage (Approx.)	
Connector	Terminal			(++)	
M69	59	Ground	Lock	12 V	
B10	55	Ground	Unlock		

Is the inspection result normal?

YES >> Check for internal short of each super lock actuator.

NO >> Replace BCM. Refer to BCS-93, "Removal and Installation". REAR RH

REAR RH : Component Function Check

1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monit	or item	Status	
SUPER LOCK	LOCK	Super lock actuators	LOCK
SUPERLOOK	UNLOCK	Super lock actualors	UNLOCK

			K ACTU/	ATOR	
DTC/CIRCUIT DIAGNO					[TYPE 1]
the inspection result norr YES >> Back door lock					
NO >> Refer to <u>DLK-1</u>		: Diagnosis	Procedure		
REAR RH : Diagnosi	s Procedure				INFOID:00000006600493
CHECK SUPER LOCK	ACTUATOR INF	UT SIGNA	L		
. Turn ignition switch OF					
 Disconnect rear door log Check voltage between 				connector and	around
					ground.
(+)					Voltage
Rear door lock assembly)	Cond	ition	(Approx.)
Connector Term	inal	1.00	k		
D46	Grou	Ground Lock Unlock		12 V	
s the inspection result norr	nal?				
 Disconnect BCM connect Check continuity between 					bly RH harness connector.
BCM		I	Rear door locl	assembly RH	Continuity
Connector	Terminal	Con	nector	Terminal	Continuity
M69	59	_ C	046	1	Existed
B10	55			2	
. Check continuity betwe	en BCM harnes	s connecto	r and grour	nd.	
	ВСМ				Continuity
Connector	Termi	Terminal Ground Continuity			Continuity
M69	59		_		Not existed
B10	55				
s the inspection result norr	<u>nal?</u>				
YES >> GO TO 3. NO >> Repair or repla	ce harness.				
3. СНЕСК ВСМ ОUTPUT					
. Connect BCM connect					

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

	+) CM	()	Condition	Voltage (Approx.)	0
Connector	Terminal			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
M69	59	Ground	Lock	12 V	Р
B10	55	Ground	Unlock	12 V	

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Is the inspection result normal?

YES

>> Check for internal short of each super lock actuator. >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. NO

< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "UNLK SEN -DR" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
UNLK SEN -DR	Driver side door	Lock	OFF
		Unlock	ON

Is the inspection result normal?

- YES >> Unlock sensor is OK.
- NO >> Refer to <u>DLK-104</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006600436

1.CHECK BCM OUTPUT SIGNAL

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

	(+) Front door lock assembly (driver side)		Signal (Reference value)	
Connector	Connector Terminal			
D13	4	Ground	(V) 15 0 0 0 0 0 0 0 0 0 0 0 0 0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK UNLOCK SENSOR CIRCUIT

1. Disconnect BCM connector.

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

BCM		Front door lock assembly (driver side)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M68	31	D13	4	Existed	

3. Check continuity between BCM harness connector and ground.

BC	CM	Ground	Continuity
Connector	Terminal		
M68	31		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

UNLOCK SENSOR

	•••••••		
< DTC/CIRCUIT DIAGNOSIS	>		[TYPE 1]
NO >> Repair or replace h	arness.		
3.CHECK UNLOCK SENSOR	GROUND CIRCUIT		
Check continuity between front	door lock assembly (d	lriver side) harness connect	or and ground.
Front door lock assem	• • •		Continuity
Connector	Terminal	Ground	
D13	5		Existed
Is the inspection result normal?			
YES >> GO TO 4.			
NO >> Repair or replace h			
4.CHECK UNLOCK SENSOR			
Refer to DLK-105, "Component	Inspection".		
Is the inspection result normal?	-		
YES >> GO TO 5.			
NO >> Replace front door	lock assembly (driver	side).	
5. CHECK INTERMITTENT IN	CIDENT		
Refer to GI-42, "Intermittent Inc	ident"		
	<u>naont</u> .		
>> INSPECTION END)		
Component Inspection			INFOID:00000006600437
1.CHECK UNLOCK SENSOR			
1. Turn ignition switch OFF.			
2. Disconnect front door lock			

3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock as	sembly (driver side)	6-	a dition	Continuity	
Terminal		Condition		Continuity	
4	Б	Driver side door	Unlock	Existed	DLK
4	5		Lock	Not existed	•

Is the inspection result normal?

YES >> INSPECTION END

>> Replace front lock assembly (driver side). NO

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SW	
< SYMPTOM DIAGNOSIS >	[TYPE 1]
SYMPTOM DIAGNOSIS	
DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SW ALL DOOR REQUEST SWITCHES	ITCH
ALL DOOR REQUEST SWITCHES : Description	INFOID:000000006601276
All doors do not lock/unlock using all door request switches.	
ALL DOOR REQUEST SWITCHES : Diagnosis Procedure	INFOID:000000006601277
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.	
YES >> GO TO 2. NO >> Refer to <u>DLK-95, "Diagnosis Procedure"</u> .	
2. CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT"	
 Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. Select "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT" mode. Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT". Refer to <u>DLK-43, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KE</u> Lock)". 	<u>Y) (With Super</u>
Is the inspection result normal?	
YES >> GO TO 3. NO >> Set "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".	
3. CHECK INSIDE KEY ANTENNA	
 Check inside key antenna. Instrument center: Refer to <u>DLK-55, "DTC Logic"</u>. Console: Refer to <u>DLK-57, "DTC Logic"</u>. Luggage room: Refer to <u>DLK-59, "DTC Logic"</u>. Is the inspection result normal? YES >> GO TO 4. 	
NO >> Repair or replace the malfunctioning parts. 4.CHECK OUTSIDE KEY ANTENNA	
Check outside key antenna. • Driver side: Refer to <u>DLK-61, "DTC Logic"</u> . • Passenger side: Refer to <u>DLK-63, "DTC Logic"</u> . • Rear bumper: Refer to <u>DLK-65, "DTC Logic"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93. "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>. DRIVER SIDE DOOR REQUEST SWITCH DRIVER SIDE DOOR REQUEST SWITCH : Description 	
	INFOID:000000006601278

All doors do not lock/unlock using driver side door request switch.

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SW < SYMPTOM DIAGNOSIS >	ITCH [TYPE 1]
DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure	INFOID:000000006601279
1. CHECK DRIVER SIDE DOOR REQUEST SWITCH	
Check driver side door request switch. Refer to <u>DLK-85, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2. CHECK OUTSIDE KEY ANTENNA	
Check outside key antenna (driver side). Refer to <u>DLK-61, "DTC Logic"</u> .	
Is the inspection result normal? YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93. "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> . PASSENGER SIDE DOOR REQUEST SWITCH	
PASSENGER SIDE DOOR REQUEST SWITCH : Description	INFOID:000000006601280
All doors do not lock/unlock using passenger side door request switch.	
PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure	INFOID:000000006601281
1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH	
Check passenger side door request switch. Refer to <u>DLK-85, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	L
NO >> Repair or replace the malfunctioning parts.	
2.CHECK OUTSIDE KEY ANTENNA	
Check outside key antenna (passenger side). Refer to <u>DLK-63. "DTC Logic"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
NO >> Repair or replace the malfunctioning parts. 3. REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93, "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> . BACK DOOR REQUEST SWITCH	
BACK DOOR REQUEST SWITCH : Description	INFOID:000000006601282
All doors do not lock/unlock using back door request switch.	

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

BACK DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000006601283

[TYPE 1]

1.CHECK BACK DOOR REQUEST SWITCH

Check back door request switch.

Refer to <u>DLK-71</u>, "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). Refer to <u>DLK-65, "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-93, "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 DOOR KEY CYLINDER OPERATION < SYMPTOM DIAGNOSIS > [TYPE 1]

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

Diagnosis Procedure	INFOID:000000006614835	В
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 >> Go to <u>DLK-110, "ALL DOOR : Diagnosis Procedure"</u> .		D
2.CHECK UNLOCK SENSOR		
Check unlock sensor. Refer to <u>DLK-104. "Component Function Check"</u> .		E
Is the inspection result normal?		
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.		F
3. REPLACE BCM		
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. Confirm the operation after replacement. 		G
Is the result normal?		
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .		Η

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH < SYMPTOM DIAGNOSIS > [TYPE 1]

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

ALL DOOR : Description

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR : Diagnosis Procedure

1.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch. Refer to DLK-79, "DRIVER SIDE : Component Function Check".

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 <u>DLK-74, "DRIVER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR SWITCH

Check door switch.

Refer to DLK-87, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-93, "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>.

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-74, "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 BCS-93, "Removal and Installation".

2. Confirm the operation after replacement.

Is the result normal?

INFOID:000000006601265

INFOID:000000006601263

INFOID:000000006601264

INFOID:000000006601266

YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . PASSENGER SIDE	
PASSENGER SIDE : Description	INFOID:00000006601267
Passenger side door does not lock/unlock using door lock and unlock switch.	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000006601268
1. CHECK DOOR LOCK ACTUATOR	
Check front door lock assembly (passenger side). Refer to <u>DLK-75, "PASSENGER 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-93, "Removal and Installation"</u> .	
2. Confirm the operation after replacement.	
<u>ls the result normal?</u> YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
REAR LH	
REAR LH : Description	INFOID:000000006601269
Rear LH side door does not lock/unlock using door lock and unlock switch.	
-	INFOID:000000006601270
-	INF01D:000000006601270
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH.	INFOID:000000006601270
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to DLK-76, "REAR LH : Component Function Check".	INFOID:000000006601270
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH.	INFOID:00000006601270
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to DLK-76, "REAR LH : Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	INFOID:00000006601270
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to DLK-76, "REAR LH : Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.REPLACE BCM	INFOID:00000006601270
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to DLK-76, "REAR LH : Component Function Check". 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-93. "Removal and Installation".	INFOID:00000006601270
Check rear door lock assembly LH. Refer to <u>DLK-76, "REAR LH : Component Function Check"</u> . <u>Is the inspection result normal?</u> YES $>>$ GO TO 2. NO $>>$ Repair or replace the malfunctioning parts. 2. REPLACE BCM	INFOID:000000006601270
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to <u>DLK-76, "REAR LH : 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-93, "Removal and Installation"</u> . 2. Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END	INFOID:00000006601270
REAR LH : Diagnosis Procedure 1. CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to DLK-76, "REAR LH : Component Function Check". 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-93, "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".	INFOID:00000006601270
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to DLK-76, "REAR LH : Component Function Check". 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-93, "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". REAR RH	INFOID:00000006601270
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to <u>DLK-76, "REAR LH : 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-93, "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> . REAR RH REAR RH : Description	
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to DLK-76, "REAR LH : Component Function Check". 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-93. "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". REAR RH REAR RH : Description Rear RH side door does not lock/unlock using door lock and unlock switch.	INFOID:000000006601271
REAR LH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to <u>DLK-76, "REAR LH : 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-93, "Removal and Installation"</u> . 2. Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END	

YES >> GO TO 2.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [TYPE 1]

< SYMPTOM DIAGNOSIS >

>> Repair or replace the malfunctioning parts. NO

2.REPLACE BCM

- Replace BCM. Refer to <u>BCS-93, "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".

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

	А
Diagnosis Procedure	A
1.CHECK DTC WITH BCM AND TCM	В
Check that DTC is not detected with BCM and TCM.	
Is the inspection result normal?	С
YES >> GO TO 2. NO-1 >> Refer to <u>BCS-67, "DTC Index"</u> . (BCM)	0
NO-2 >> Refer to <u>TM-171, "DTC Index"</u> (RE0F10B models) or <u>TM-366, "DTC Index"</u> (RE0F11A models). (TCM)	D
2. CHECK POWER DOOR LOCK OPERATION	
Check door lock/unlock using door lock and unlock switch.	Е
Does door lock/unlock using door lock and unlock switch?	
YES >> GO TO 3. NO >> Refer to <u>DLK-79</u> , " <u>DRIVER SIDE</u> : <u>Component Function Check</u> ".	F
3. CHECK REMOTE KEYLESS ENTRY RECEIVER	Г
Check remote keyless entry receiver.	0
Refer to <u>DLK-95, "Component Function Check"</u> . Is the inspection result normal?	G
YES $>>$ GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	Н
4.CHECK INTELLIGENT KEY	
Check Intelligent Key.	
Refer to <u>DLK-91, "Component Function Check"</u> . Is the inspection result normal?	
YES >> GO TO 5.	J
NO >> Repair or replace the malfunctioning parts.	
5.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. Confirm the operation after replacement. 	DL⊧
Is the result normal?	
YES >> INSPECTION END	L
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
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[TYPE 1]

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IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006601286

[TYPE 1]

1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>BCS-67, "DTC Index"</u>.

2. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 3.

NO >> Refer to DLK-79, "DRIVER SIDE : Component Function Check".

3. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-87, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK UNLOCK SENSOR

Check unlock sensor. Refer to <u>DLK-104, "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-93, "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".

SUPER LOCK DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	[TYPE 1]
SUPER LOCK DOES NOT OPERATE	
ALL DOOR	
ALL DOOR : Diagnosis Procedure	INFOID:000000006302825
1.CHECK SUPER LOCK ACTUATOR	
Check front driver side super lock actuator. Refer to <u>DLK-99, "DRIVER SIDE : Component Function Check"</u> . Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
 Replace BCM. Refer to <u>BCS-93, "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> . DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000006302826
1.CHECK SUPER LOCK ACTUATOR	
Check front driver side super lock actuator. Refer to DLK-99, "DRIVER SIDE : Component Function Check".	
Is the inspection result normal? YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	
 Replace BCM. Refer to <u>BCS-93, "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> . PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000006302827
1.CHECK SUPER LOCK ACTUATOR	
Check front passenger side super lock actuator. Refer to <u>DLK-100, "PASSENGER SIDE : Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	
1. Replace BCM. Refer to <u>BCS-93</u> , "Removal and Installation".	
 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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SUPER LOCK DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR LH : Diagnosis Procedure

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator rear LH.

Refer to DLK-101, "REAR LH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

1. Replace BCM. Refer to BCS-93, "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".

REAR RH

REAR RH : Diagnosis Procedure

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator rear RH. Refer to <u>DLK-102, "REAR RH : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

1. Replace BCM. Refer to <u>BCS-93, "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>.

INFOID:000000006302828

INFOID:000000006302829

ANTI-HIJACK FUNCTION DOES NOT OPERATE **[TYPE 1]** < SYMPTOM DIAGNOSIS > ANTI-HIJACK FUNCTION DOES NOT OPERATE А **Diagnosis** Procedure INFOID:00000006609009 1.CHECK "DOOR LOCK–UNLOCK SET" SETTING IN "WORK SUPPORT" В 1. Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode. 2. Check "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" 3. Refer to DLK-41, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)". Is the inspection result normal? YES >> GO TO 2 D >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT". NO 2.REPLACE BCM Е 1. Replace BCM. Refer to BCS-93, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? F >> INSPECTION END YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

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BACK DOOR DOES NOT OPENED

Diagnosis Procedure

1. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch. Refer to <u>DLK-69, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator. Refer to <u>DLK-67, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK VEHICLE SPEED SIGNAL

Check vehicle speed signal.

Refer to <u>MWI-46, "DTC Logic"</u>.

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.
- **4.**CONFIRM THE OPERATION
- 1. Replace BCM. Refer to <u>BCS-93, "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".

[TYPE 1]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE **[TYPE 1]** < SYMPTOM DIAGNOSIS > AUTO DOOR LOCK OPERATION DOES NOT OPERATE А **Diagnosis** Procedure INFOID:000000006601287 1.CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT" В 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. Select "AUTO LOCK SET" in "WORK SUPPORT" mode. 2. Check "AUTO LOCK SET" in "WORK SUPPORT". 3. С Refer to DLK-43, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super Lock)". Is the inspection result normal? D YES >> GO TO 2. NO >> Set "AUTO LOCK SET" setting in "WORK SUPPORT". 2.REPLACE BCM Ε Replace BCM. Refer to BCS-93, "Removal and Installation". 1. Confirm the operation after replacement. 2. F Is the result normal? YES >> INSPECTION END >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

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VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [TYPE 1]

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPER-ATE

Diagnosis Procedure

INFOID:000000006601288

- 1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"
- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". Refer to <u>DLK-41, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT".

2.CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT".

Refer to DLK-41, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Set "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT".

3.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-93, "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 [TYPE 1] < SYMPTOM DIAGNOSIS > IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE А Diagnosis Procedure INFOID:000000006601289 1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT" В 1. Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. 2. Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". 3 Refer to DLK-41, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)". Is the inspection result normal? YES >> GO TO 2. D NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". 2.CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT" Ε 1. Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode. 2. Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT". 3. Refer to DLK-41, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)". F Is the inspection result normal? YES >> GO TO 3. NO >> Set "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT". **3.**REPLACE BCM 1. Replace BCM. Refer to BCS-93, "Removal and Installation". Н Confirm the operation after replacement. 2. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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

< SYMPTOM DIAGNOSIS >

[TYPE 1]

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

Diagnosis Procedure

INFOID:000000006609010

- 1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"
- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". Refer to <u>DLK-41, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT".

2.CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT".

Refer to DLK-41, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT".

 ${f 3.}$ CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".

Refer to DLK-41, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Set "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".

4.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-93, "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 BUZZER REMINDER DOES NOT OPERATE [TYPE 1] < SYMPTOM DIAGNOSIS > HAZARD AND BUZZER REMINDER DOES NOT OPERATE А Diagnosis Procedure INFOID:000000006601290 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? >> GO TO 2. YES NO-1 >> Refer to <u>BCS-67, "DTC Index"</u>. (BCM) NO-2 >> Refer to <u>MWI-36, "DTC Index"</u>. (Combination meter) **2.**CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT" D Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. 1. Select "HAZARD ANSWER BACK" in "WORK SUPPORT" mode. 2. Е Check the "HAZARD ANSWER BACK" in "WORK SUPPORT". Refer to DLK-43, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super Lock)". F Is the inspection result normal? YES >> GO TO 3. NO >> Set "HAZARD ANSWER BACK" in "WORK SUPPORT". ${f 3.}$ CHECK "ANS BACK I-KEY LOCK" SETTING IN "WORK SUPPORT" Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. 1. Select "ANS BACK I-KEY LOCK" in "WORK SUPPORT" mode. 2. Н Check the "ANS BACK I-KEY LOCK" in "WORK SUPPORT". 3 Refer to DLK-43, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super Lock)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "ANS BACK I-KEY LOCK" in "WORK SUPPORT". 4.CHECK "ANS BACK I-KEY UNLOCK" SETTING IN "WORK SUPPORT" Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. 1. Select "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT" mode. 2. DLK Check the "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT". 3 Refer to DLK-43, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super Lock)". L Is the inspection result normal? YES >> GO TO 5. >> Set "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT". NO M ${f b}$. CHECK HAZARD FUNCTION Check hazard function. Refer to EXL-72, "Component Function Check". Ν Is the inspection result normal? YES >> GO TO 6. >> Repair or replace the malfunctioning parts. NO $\mathbf{6}.$ CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Ρ Refer to DLK-92, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts. 7.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

< SYMPTOM DIAGNOSIS >

[TYPE 1]

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

[TYPE 1]

KEY REMINDER FUNCTION DOES NOT OPERATE	А
Diagnosis Procedure	~
1.снеск отс with всм	В
Check that DTC is not detected with BCM.	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	С
YES >> GO TO 2. NO >> Refer to <u>BCS-67, "DTC Index"</u> .	
2. CHECK "ANTI KEY LOCK IN FUNCTI" SETTING IN "WORK SUPPORT"	D
1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.	
 Select "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT" mode. Check "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT". 	Е
Refer to <u>DLK-43, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super</u> Lock)".	
Is the inspection result normal?	_
	F
NO \rightarrow Set "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT". 3. CHECK DOOR SWITCH	
Check door switch.	G
Refer to <u>DLK-87, "Component Function Check"</u> .	
Is the inspection result normal?	Н
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. CHECK INSIDE KEY ANTENNA	I
Check inside key antenna.	
 Instrument center: Refer to <u>DLK-55, "DTC Logic"</u>. Console: Refer to <u>DLK-57, "DTC Logic"</u>. 	J
Luggage room: Refer to <u>DLK-59, "DTC Logic"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 5.	DLK
NO >> Repair or replace the malfunctioning parts.	
5. CHECK UNLOCK SENSOR	L
Check unlock sensor. Refer to <u>DLK-104, "Component Function Check"</u> .	
Is the inspection result normal?	M
YES >> GO TO 6.	
NO >> Repair or replace the malfunctioning parts. 6.REPLACE BCM	Ν
1. Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u> .	I N
2. Confirm the operation after replacement.	0
<u>Is the result normal?</u> YES >> INSPECTION END	0
NO >> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident"</u> .	_
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<pre> OFF POSITION WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS > </pre>	[TYPE 1]
OFF POSITION WARNING DOES NOT OPERATE	
Diagnosis Procedure	INFOID:000000006601292
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-67, "DTC Index"</u> . (BCM) NO-2 >> Refer to <u>MWI-36, "DTC Index"</u> . (Combination meter)	
2.CHECK DOOR SWITCH	
Check front door switch (driver side). Refer to <u>DLK-87, "Component Function Check"</u> . Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3. CHECK COMBINATION METER BUZZER	
Check combination meter buzzer. Refer to <u>WCS-40, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. CHECK INTELLIGENT KEY WARNING BUZZER	
Check Intelligent Key warning buzzer.	
Refer to <u>DLK-92, "Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	
5.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. Confirm the operation after replacement. 	
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> .	

OFF POSITION WARNING DOES NOT OPERATE

SYMPTOM DIAGNOSIS > [TYPE 1] P POSITION WARNING DOES NOT OPERATE Diagnosis Procedure Accessed and the second se	P POSITION WARNING DOES NOT OPERATE
Diagnosis Procedure 1. CHECK DTC WITH BCM, TCM AND COMBINATION METER Check that DTC is not detected with BCM, TCM and combination meter. Is the inspection result normal? YES >> GOTO 2. NO-1 >> Refer to DIA-171. DTC Index". (BCM) NO-2 >> Refer to DIA-171. DTC Index". (BCM) NO-2 >> Refer to DIA-171. DTC Index". (BCM) NO-2 >> Refer to MU-36. "DTC Index". (BCM) NO-3 >> Refer to MU-36. "DTC Index". (Combination meter) 2. CHECK COMBINATION METER BUZZER Check combination meter buzzer. Refer to VICS-40. "Component Function Check". Is the inspection result normal? YES >> GOTO 3. NO ->> Repair or replace the malfunctioning parts. 3. CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Refer to DIK-92. "Component Function Check". Is the inspection result normal? YES >> GOTO 3. NO ->> Repair or replace the malfunctioning parts. 4. CHECK DOOR SWITCH Check ford dor switch (driver side). Refer to DIK-97. "Component Function Check". Is the inspection result normal? YES -> GOTO 5. NO ->> Repair or replace the malfunctioning parts. 5. CHECK INSIDE KEY ANTENNA Check inside key antenna. YES -> GOTO 6. NO ->> Repair or replace the malfunctioning parts. 5. CHECK INSIDE KEY ANTENNA Check key antenna. Instrument center: Refer to DIK-55. "DTC Logic". Is the inspection result normal? YES -> GOTO 6. NO ->> Repair or replace the malfunctioning parts. 6. CHECK KEY WARNING LAMP Check key antenna. Instrument center: Refer to DIK-55. "DTC Logic". Is the inspection result normal? YES -> GOTO 6. NO ->> Repair or replace the malfunctioning parts. 6. CHECK KEY WARNING LAMP Check key warning tamp. Refer to DIK-59. "DTC Logic". Is the inspection result normal? YES -> GOTO 6. NO ->> Repair or replace the malfunctioning parts. 6. CHECK KEY WARNING LAMP Check key warning tamp. Refer to DIK-59. "DTC Logic". Is the inspection result normal? YES -> GOTO 6. NO ->> Repair or replace the malfunctioning parts. 6. CHECK KEY WARNING LAMP Check key warning tamp. Refer to DIK-59. "Component Function Check". Is the inspection r	SYMPTOM DIAGNOSIS > [TYPE 1]
1. CHECK DTC WITH BCM, TCM AND COMBINATION METER Check that DTC is not detected with BCM, TCM and combination meter. Is the inspection result normal? YES >> GOTO 2. NO-1 >> Refer to BCS-67, "DTC Index". (BCM) NO-2 >> Refer to TM-171, "DTC Index". (BCM) NO-3 >> Refer to TM-171, "DTC Index". (Combination meter) 2. CHECK COMBINATION METER BUZZER Check combination meter buzzer. Refer to MCS-40, "Component Function Check". Is the inspection result normal? YES >> GOTO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Refer to DLK-92, "Component Function Check". Is the inspection result normal? YES >> GOTO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK DOOR SWITCH Check front door switch (driver side). Refer to DLK-92, "Component Function Check". Is the inspection result normal? YES >> GOTO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK INSIDE KEY ANTENNA Check inside key antenna. I Instrument center: Refer to DLK-55, "DTC Logic". Is the inspection result normal? YES >> GOTO 6. NO >> Repair or replace the malfunctioning parts. Check KINSIDE KEY ANTENNA Check Key MARINA NO >> Repair or replace the malfunctioning parts. O. Check Key WARNING LAMP Check key warning lamp. Refer to DLK-54, "DTC Logic". Is the inspection result normal? YES >> GOTO 6. NO >> Repair or replace the malfunctioning parts. Check Key WARNING LAMP Check key WarNING LAMP Check key WarNING LAMP Check key WarNING LAMP	POSITION WARNING DOES NOT OPERATE
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 BCS-67, "DTC Index". (BCM) NO-2 >> Refer to TM-171, "DTC Index". (BCM) NO-3 >> Refer to MW-36, "DTC Index". (Combination meter) 2.CHECK COMBINATION METER BUZZER Check combination meter buzzer. Refer to WCS-40. "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Refer to DLK-92, "Component Function Check". 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 DLK-87, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 5.CHECK INSIDE KEY ANTENNA Check inside key antenna. • Instrument center: Refer to DLK	iagnosis Procedure
Is the inspection result normal? YES >> GO TO 2. NO-1 >> Refer to ECS-67. "DTC Index". (BCM) NO-2 >> Refer to MWI-36. "DTC Index". (Combination meter) 2.CHECK COMBINATION METER BUZZER Check combination meter buzzer. Refer to WCS-40. "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Refer to DLK-92. "Component Function Check". 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 DLK-87. "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5.CHECK INSIDE KEY ANTENNA Check inside key antena. • Instrument center: Refer to DLK-55. "DTC Logic". • Luggage room: Refer to DLK-55. "DTC Logic". • Luggage room: Refer to DLK-55. "DTC Logic".	CHECK DTC WITH BCM, TCM AND COMBINATION METER
YES $>>$ GO TO 2.NO-1>> Refer to <u>BCS-67</u> . "DTC Index". (BCM)NO-2>> Refer to <u>IM-171. "DTC Index"</u> . (REOF10B models) or <u>IM-366. "DTC Index"</u> . (REOF11A models). (TCM)NO-3>> Refer to <u>MWI-36. "DTC Index"</u> . (Combination meter) 2. CHECK COMBINATION METER BUZZERCheck combination meter buzzer. Refer to <u>WCS-40. "Component Function Check"</u> . Is the inspection result normal?YES>> GO TO 3. NONO>> Repair or replace the malfunctioning parts. 3. CHECK INTELLIGENT KEY WARNING BUZZERCheck childligent Key warning buzzer. Refer to <u>DLK-92. "Component Function Check"</u> . Is the inspection result normal? YESYES>> GO TO 4. NONO>> Repair or replace the malfunctioning parts. 4. CHECK INTELLIGENT KEY WARNING parts. 5. CHECK INTELLIGENT KEY WARNING specific parts. 4. CHECK DOOR SWITCHCheck front door switch (driver side). Refer to <u>DLK-87. "Component Function Check"</u> . Is the inspection result normal? YESYES>> GO TO 5. NONO>> Repair or replace the malfunctioning parts. 5. CHECK INSIDE KEY ANTENNACheck inside key antenna. • Instrument center: Refer to <u>DLK-55. "DTC Logic".</u> • Console: Refer to <u>DLK-55. "DTC Logic".</u> •	
NO-1 >> Refer to <u>BCS-67, "DTC Index"</u> (BCM) NO-2 >> Refer to <u>TM-171, "DTC Index"</u> (RE0F10B models) or <u>TM-366, "DTC Index"</u> (RE0F11A models). ("TCM) NO-3 >> Refer to <u>MM-36, "DTC Index"</u> (Combination meter) 2. CHECK COMBINATION METER BUZZER Check combination meter buzzer. Refer to <u>WCS-40, "Component Function Check".</u> Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Refer to <u>DLK-32, "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 DLK-37, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK INSIDE KEY ANTENNA Check Inside key antenna. • Instrument center: Refer to <u>DLK-55, "DTC Logic".</u> • Loggage room: Refer to <u>DLK-55, "DTC Logic".</u> • Loggage room: Ref	the inspection result normal?
$\label{eq:response} \begin{split} &\text{NO-2} >> \text{Refer to } \overline{\text{IM-171, "DTC Index"}} (\text{REOF10B models}) \text{ or } \overline{\text{IM-366. "DTC Index"}} (\text{REOF11A models}).\\ &\text{NO-3} >> \text{Refer to } \underline{\text{MVI-36, "DTC Index", (Combination meter})} \\ \hline &\textbf{2.CHECK COMBINATION METER BUZZER} \\ \hline &\text{Check combination meter buzzer.} \\ &\text{Refer to } \underline{\text{WCS-40, "Component Function Check".}} \\ &\text{Is the inspection result normal?} \\ &\text{YES} >> \text{GOTO 3.} \\ &\text{NO} >> \text{Repair or replace the malfunctioning parts.} \\ \hline &\textbf{3.CHECK INTELLIGENT KEY WARNING BUZZER} \\ \hline &\text{Check Intelligent Key warning buzzer.} \\ &\text{Refer to } \underline{\text{DLK-92, "Component Function Check".}} \\ &\text{Is the inspection result normal?} \\ &\text{YES} >> \text{GOTO 4.} \\ &\text{NO} >> \text{Repair or replace the malfunctioning parts.} \\ \hline &\text{A.CHECK DOOR SWITCH} \\ \hline &\text{Check front door switch (driver side).} \\ &\text{Refer to } \underline{\text{DLK-92, "Component Function Check".}} \\ &\text{Is the inspection result normal?} \\ &\text{YES} >> \text{GOTO 5.} \\ &\text{NO} >> \text{Repair or replace the malfunctioning parts.} \\ \hline &\text{5.CHECK INSIDE KEY ANTENNA} \\ \hline &\text{Check inside key antenna.} \\ \hline &\text{5.CHECK INSIDE KEY ANTENNA} \\ \hline &\text{Check inside key antenna.} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{1.strument center: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.console: Refer to } \underline{\text{DLK-57, "DTC Logic".}} \\ \hline &\text{6.check key warning lamp.} \\ \hline &\text{Ref to } \underline{\text{DLK-94, "Component Function Check".}} \\ \hline &\text{Is the inspection result normal?} \\ \hline \\ \hline &Check key warnin$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	
$\begin{array}{l} 2. \text{CHECK COMBINATION METER BUZZER} \\ \hline \text{Check combination meter buzzer.} \\ \text{Refer to } \underline{WCS+40, "Component Function Check".} \\ \hline \text{Is the inspection result normal?} \\ \hline \text{YES} >> \text{GOTO3.} \\ \text{NO} >> \text{Repair or replace the malfunctioning parts.} \\ \hline \textbf{3. CHECK INTELLIGENT KEY WARNING BUZZER} \\ \hline \text{Check Intelligent Key warning buzzer.} \\ \text{Refer to } DLK+92, "Component Function Check".} \\ \hline \text{Is the inspection result normal?} \\ \hline \text{YES} >> \text{GOTO4.} \\ \text{NO} >> \text{Repair or replace the malfunctioning parts.} \\ \hline \textbf{4. CHECK DOOR SWITCH} \\ \hline \text{Check front door switch (driver side).} \\ \text{Refer to } DLK+97, "Component Function Check".} \\ \hline \text{Is the inspection result normal?} \\ \hline \text{YES} >> \text{GOTO5.} \\ \text{NO} >> \text{Repair or replace the malfunctioning parts.} \\ \hline \textbf{5. CHECK INSIDE KEY ANTENNA} \\ \hline \hline \text{Check inside key antenna.} \\ \hline \text{Instrument center: Refer to } DLK+55, "DTC Logic".} \\ \hline \text{Is inspection result normal?} \\ \hline \text{YES} >> \text{GOTO6.} \\ \text{NO} >> \text{Repair or replace the malfunctioning parts.} \\ \hline \text{5. CHECK INSIDE KEY ANTENNA} \\ \hline \hline \hline \text{Check inside key antenna.} \\ \hline \text{Is instrument center: Refer to } DLK+55, "DTC Logic".} \\ \hline \text{Is using spectrom result normal?} \\ \hline \text{YES} >> \text{GOTO6.} \\ \text{NO} >> \text{Repair or replace the malfunctioning parts.} \\ \hline \textbf{6. CHECK KEY WARNING LAMP} \\ \hline \hline \hline \text{Check key warning lamp.} \\ \hline \text{Refer to } DLK+94, "Component Function Check".} \\ \hline \text{Is the inspection result normal?} \\ \hline \end{array}$	(TCM)
Check combination meter buzzer. Refer to WCS-40. "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Refer to DLK-92. "Component Function Check". 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 DLK-87. "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5.CHECK INSIDE KEY ANTENNA Check inside key antenna. • Instrument center: Refer to DLK-55. "DTC Logic". • Lugage room: Refer to DLK-55. "DTC Logic". • Lugage room: Refer to DLK-59. "DTC Logic". • Lugage room: Refer to DLK-59. "DTC Logic". • Lugage room: Refer to DLK-59. "DTC Logic". Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	
Refer to <u>WCS-40. "Component Function Check".</u> Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Refer to <u>DLK-92. "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-87. "Component Function Check".</u> Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5.CHECK INSIDE KEY ANTENNA Check inside key antenna. • Instrument center: Refer to <u>DLK-55. "DTC Logic".</u> • Logage room: Refer to <u>DLK-57. "DTC Logic".</u> • Luggage room: Refer to <u>DLK-59. "DTC Logic".</u> Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6.CHECK KEY WARNING LAMP Check key warning lamp. Refer to <u>DLK-54. "Component Function Check".</u> Is the	
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3.CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Refer to DLK-92, "Component Function Check". 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 DLK-87, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5.CHECK INSIDE KEY ANTENNA Check inside key antenna. • Instrument center: Refer to DLK-55, "DTC Logic". • Console: Refer to DLK-57, "DTC Logic". • Console: Refer to DLK-57, "DTC Logic". • Luggage room: Refer to DLK-59, "DTC Logic". • Luggage room: Refer to DLK-59, "DTC Logic". • Luggage room: Refer to DLK-59, "DTC Logic". Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6.CHECK KEY WARNING LAMP Check key warning lamp. Refer to DLK-94, "Component Function Check". Is the inspection result normal?	
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Refer to DLK-94, "Component Function Check". Is the inspection result normal?	CHECK KEY WARNING LAMP
Is the inspection result normal?	
	· · · ·
	· · · · · · · · · · · · · · · · · · ·
NO >> Repair or replace the malfunctioning parts.	
7.REPLACE BCM	
1. Replace BCM. Refer to BCS-93, "Removal and Installation".	
2. Confirm the operation after replacement.	
<u>Is the result normal?</u> YES >> INSPECTION END	

YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

ACC WARNING DOES NOT OPERATE

Diagnosis Procedure

1. CHECK COMBINATION METER BUZZER

Check combination meter buzzer. Refer to WCS-40, "Component Function Check".

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-93, "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>.

INFOID:000000006601300

[TYPE 1]

TAKE AWAY WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS >	[TYPE 1]
TAKE AWAY WARNING DOES NOT OPERATE	[]
Diagnosis Procedure	INFOID:000000006601304
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-67, "DTC Index"</u> . (BCM) NO-2 >> Refer to <u>MWI-36, "DTC Index"</u> . (Combination meter)	
2. CHECK COMBINATION METER BUZZER	
Check combination meter buzzer. Refer to WCS-40, "Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CHECK KEY WARNING LAMP	
Check key warning lamp.	
Refer to <u>DLK-94, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4.CHECK DOOR SWITCH	
Check door switch. Refer to <u>DLK-87, "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-92, "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-55, "DTC Logic"</u>. 	
 Console: Refer to <u>DLK-57, "DTC Logic"</u>. Luggage room: Refer to <u>DLK-59, "DTC Logic"</u>. 	
Is the inspection result normal?	
YES >> GO TO 7.	
NO >> Repair or replace the malfunctioning parts.	
7.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. Confirm the operation after replacement. 	
Is the result normal?	
YES >> INSPECTION END	

YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE [TYPE 1]

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:00000006601308

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-67, "DTC Index"</u>. (BCM)

NO-2 >> Refer to MWI-36, "DTC Index". (Combination meter)

2.check "lo- batt of key fob warn" setting in "work support"

Select "INTELLIGENT KEY" of "BCM". 1

Select "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT" mode. 2.

Check "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT". Refer to DLK-43, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (With Super Lock)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT".

3.CHECK KEY WARNING LAMP

Check key warning lamp.

Refer to DLK-94, "Component Function Check".

Is the inspection result normal?

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

4. CHECK INTELLIGENT KEY

Check Intelligent key.

Refer to DLK-91, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to <u>DLK-55</u>, "DTC Logic".
- Console: Refer to <u>DLK-57, "DTC Logic"</u>.
- Luggage room: Refer to DLK-59, "DTC Logic".
- Is the inspection result normal?

YES >> GO TO 6.

>> Repair or replace the malfunctioning parts. NO

O.REPLACE BCM

- 1. Replace BCM. Refer to BCS-93, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

< 51 MPTOM	DIAGNOSIS >

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

		Α
Diagnosis Procedure	INFOID:000000006601309	A
1. CHECK DOOR LOCK FUNCTION		В
Check door lock function.		
Does door lock/unlock using door request switch?		
YES >> GO TO 2. NO >> Refer to <u>DLK-85, "Component Function Check"</u> .		С
2. CHECK INTELLIGENT KEY WARNING BUZZER		D
Check Intelligent Key warning buzzer. Refer to <u>DLK-92, "Component Function Check"</u> . Is the inspection result normal?		
YES >> GO TO 3.		E
NO >> Repair or replace the malfunctioning parts.		
3. REPLACE BCM		F
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. 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> .		Н

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KEY ID WARNING DOES NOT OPERATE

< SYMPTOM	DIAGNOSIS >	

KEY ID WARNING DOES NOT OPERATE

PERATE	
	INF0/D:00000006601313
ON METER	

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 <u>BCS-67, "DTC Index"</u>. (BCM)

NO-2 >> Refer to <u>MWI-36, "DTC Index"</u>. (Combination meter)

2.CHECK INTELLIGENT KEY

Check Intelligent Key. Refer to <u>DLK-91, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to <u>DLK-55, "DTC Logic"</u>.
- Console: Refer to <u>DLK-57</u>, "DTC Logic".
- Luggage room: Refer to <u>DLK-59, "DTC Logic"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK KEY WARNING LAMP

Check key warning lamp. Refer to <u>DLK-94, "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 BCS-93, "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".

DOOR LOCK STATUS INDICATOR DOES NOT ILLUMINATE

< SYMPTOM	DIAGNOSIS >	

DOOR LOCK STATUS INDICATOR DOES NOT ILLUMINATE

Diagnosis Procedure	INFOID:000000006302837
1. CHECK DOOR LOCK STATUS INDICATOR	
Check door lock status indicator. Refer to <u>DLK-83, "Component Function Check"</u> .	
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. Confirm the operation after replacement. <u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>. NO >> GO TO 1. 	

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[TYPE 1]

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UNLOCK LINK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

UNLOCK LINK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006609043

[TYPE 1]

1. CHECK DRIVER SIDE OR PASSENGER SIDE DOOR SWITCH

Check driver side or passenger side door switch. Refer to <u>DLK-87, "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 BCS-93, "Removal and Installation".

2. Confirm the operation after replacement.

Is the result normal?

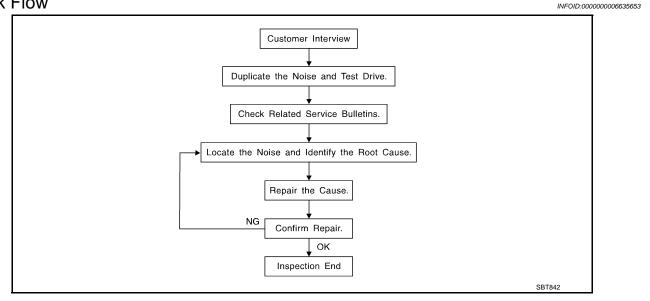
YES >> INSPECTION END

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

< 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 the customer's comments; refer to <u>DLK-139</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, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive 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 bumble bee) Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

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< SYMPTOM DIAGNOSIS >

[TYPE 1]

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 model, drive position on A/T model).
- 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.

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 (Engine ear or mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to <u>DLK-137, "Inspection Procedure"</u>.

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. These insulators are available through the authorized Nissan Parts Department.

CAUTION:

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

- URETHANE PADS
 Insulates connectors
 - Insulates connectors, harness, etc.
- INSULATOR (Foam blocks) Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE

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

The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.

• UHMW(TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.

- SILICONE GREASE Used in place of UHMW tape that is be visible or does not fit. Note: 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.

DLK-136

SQUEAR AND RATTLE TROUBLE DIAGNOSES [TYPE 1]	
Inspection Procedure	А
Refer to Table of Contents for specific component removal and installation information.	
INSTRUMENT PANEL	
Most incidents are caused by contact and movement between:	В
1. Cluster lid A and instrument panel	
2. Acrylic lens and combination meter housing	С
3. Instrument panel to front pillar garnish	C
4. Instrument panel to windshield	
5. Instrument panel mounting pins	D
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.	E
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	G
Components to pay attention to include:	
1. Shifter assembly cover to finisher	
2. A/C control unit and cluster lid C	Н
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	J
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	DL
Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks to repair the noise.	L
TRUNK	
Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer. In addition look for following:	M
1. Trunk lid dumpers out of adjustment	
2. Trunk lid striker out of adjustment	Ν
3. Trunk lid torsion bars knocking together	
4. A loose license plate or bracket	
Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus- ing the noise.	0
SUNROOF/HEADLINING	
Noises in the sunroof/headlining area can often be traced to one of the following:	Ρ
1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise	
2. Sunvisor shaft shaking in the holder	
3. Front or rear windshield touching headlining and squeaking	
Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.	

DLK-137

< SYMPTOM DIAGNOSIS >

[TYPE 1]

SEATS

When isolating seat noise it is important to note the position the seat is in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- 1. Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 3. Rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

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

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



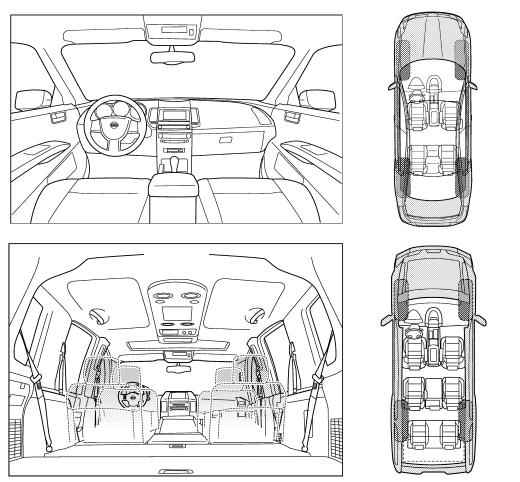
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

[TYPE 1]

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< SYMPTOM DIAGNOSIS >

[TYPE 1]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please chec	k the boxes that apply)
 anytime 1st time in the morning only when it is cold outside only when it is hot outside 	 after sitting out in the rain when it is raining or wet dry or dusty conditions other:
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE
 through driveways over rough roads over speed bumps only about mph on acceleration coming to a stop on turns: left, right or either (circle) with passengers or cargo other: after driving miles or minu 	 squeak (like tennis shoes on a clean floor) creak (like walking on an old wooden floor) rattle (like shaking a baby rattle) knock (like a knock at the door) tick (like a clock second hand) thump (heavy, muffled knock noise) buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

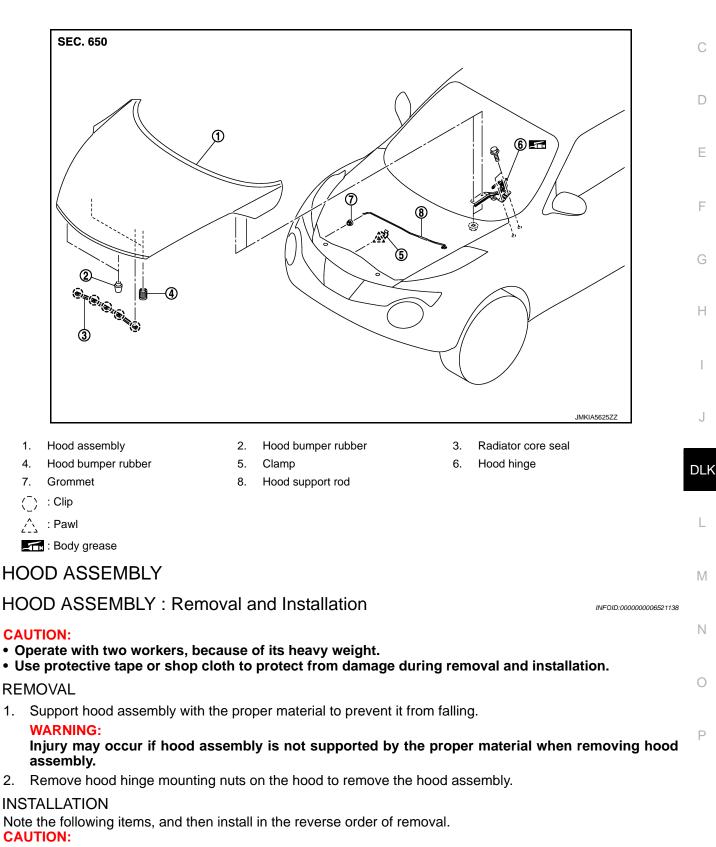
Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair			
	stomer Na		

< REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION HOOD

Exploded View





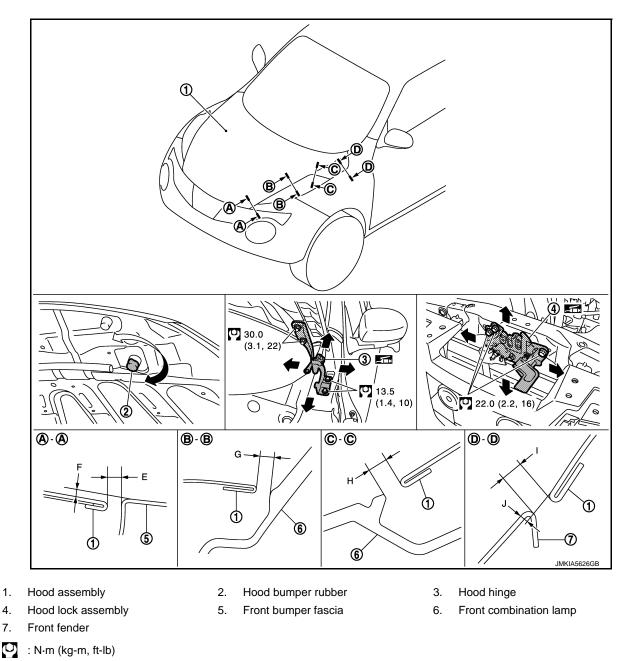
DLK-141

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- After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.
- After installing, perform hood fitting adjustment. Refer to <u>DLK-142, "HOOD ASSEMBLY : Adjust-ment"</u>.

HOOD ASSEMBLY : Adjustment

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: Body grease

Check the clearance and the surface height between hood and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

HOOD

< REMOVAL AND INSTALLATION >

[TYPE 1]

					Unit: mm (in)	
P	ortion			Standard	Difference (RH/LH, MAX)	ŀ
Hood – Front	A – A	Е	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	E
bumper fascia	A-A	F	Surface height	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	< 2.5 (0.098)	
Hood – Front combi- nation lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	(
Hood – Front combi- nation lamp	C – C	н	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	[
Head Front fondor	D – D	Т	Clearance	2.5 - 4.5 (0.098 - 0.177)	< 1.5 (0.059)	
Hood – Front fender	D -D	J	Surface height	(-2.0) – (0.0) [(-0.079) – (0.000)]	< 1.5 (0.059)	E

FITTING ADJUSTMENT PROCEDURE

- 1. Remove front center grille. Refer to EXT-18. "Removal and Installation".
- 2. Remove hood lock assembly, 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.
- Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for looseness.
- 4. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 5. After adjustment, tighten lock bolts to the specified torque.
- 6. Open hood. Rotate bumper rubber counterclockwise between half a turn and three-quarters of a turn.
- 7. Check that secondary latch is securely engaged with secondary hood striker from the dead load of the hood assembly.
- Check that primary latch is securely engaged with primary hood 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.

9. Install front center grille. Refer to EXT-18, "Removal and Installation".

HOOD HINGE

HOOD HINGE : Removal and Installation

REMOVAL

- 1. Remove hood assembly. Refer to <u>DLK-141, "HOOD ASSEMBLY : Removal and Installation"</u>.
- 2. Remove front fender. Refer to <u>DLK-152, "Removal and Installation"</u>.
- 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 hinge fitting adjustment. Refer to <u>DLK-144, "HOOD HINGE : Adjust-</u> <u>ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.

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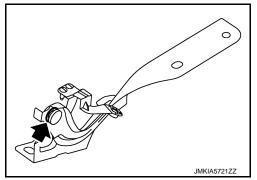
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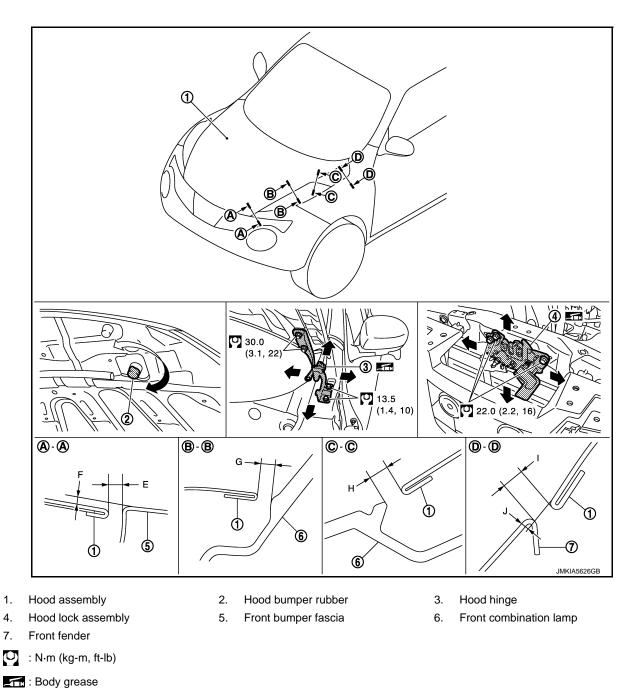
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HOOD HINGE : Adjustment

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Check the clearance and the surface height between hood and each part by visually and touching.

DLK-144

HOOD

< REMOVAL AND INSTALLATION >

					Unit: mm (in)	
Р	ortion			Standard	Difference (RH/LH, MAX)	
Hood – Front		E Clearance		2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	
bumper fascia	A – A	F	Surface height	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	< 2.5 (0.098)	
Hood – Front combi- nation lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	
Hood – Front combi- nation lamp	C – C	н	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	
Hood – Front fender		I	Clearance	2.5 - 4.5 (0.098 - 0.177)	< 1.5 (0.059)	
	D – D	J	Surface height	(-2.0) – (0.0) [(-0.079) – (0.000)]	< 1.5 (0.059)	

1. Remove front center grille. Refer to EXT-18. "Removal and Installation".

2. Remove hood lock assembly.

3. Remove front bumper fascia. Refer to EXT-13. "Removal and Installation".

- 4. Remove front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 5. Remove front fender assembly (LH and RH). Refer to DLK-152, "Removal and Installation".
- 6. Loosen hood hinge mounting bolts.
- 7. Temporarily install front fender assembly (LH and RH), front combination lamp (LH and RH) and front bumper fascia.
- 8. Adjust the clearance of hood assembly, front fender assembly (LH and RH), front combination lamp (LH and RH) and front bumper fascia according to the specified value, by moving hood hinge (body side).
- 9. Temporarily tighten hood hinge (LH and RH).
- 10. Remove front bumper fascia, front combination lamp (LH and RH) and front fender assembly (LH and J RH).
- 11. Tighten hood hinge (LH and RH) to the specified torque.
- 12. Install front fender assembly (LH and RH). Refer to DLK-152, "Removal and Installation".
- 13. Install front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 14. Install front bumper fascia. Refer to EXT-13, "Removal and Installation".
- 15. Adjust the surface height of hood assembly, front fender assembly, and front combination lamp according to the specified value, by rotating hood bumper rubber.
- 16. Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for looseness.
- 17. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 18. After adjustment, tighten lock bolts to the specified torque.
- 19. Open hood. Rotate bumper rubber counterclockwise between half a turn and three-quarters of a turn.
- 20. Check that secondary latch is securely engaged with secondary hood striker from the dead load of the hood assembly.
- Check that primary latch is securely engaged with primary hood 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.

 Install front center grille. Refer to <u>EXT-18, "Removal and Installation"</u>. CAUTION:

After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.

HOOD SUPPORT ROD

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HOOD SUPPORT ROD : Removal and Installation

REMOVAL

CAUTION:

Two workers are required to support the hood.

1. Support hood assembly with a suitable material to prevent it from falling.

WARNING: Injury may occur if hood assembly is not supported by the proper material when removing hood assembly.

2. Pull hood support rod from grommet and remove.

INSTALLATION

Install in the reverse order of removal.

< REMOVAL AND INSTALLATION > RADIATOR CORE SUPPORT

HR16DE

HR16DE : Exploded View

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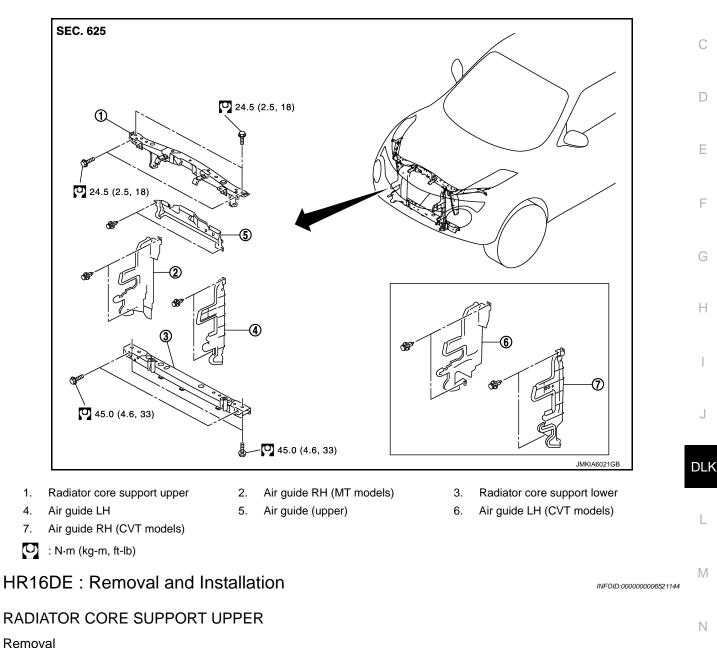
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- Remove front bumper fascia. Refer to EXT-13, "Removal and Installation". 1.
- 2. Remove front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- Remove headlamp (LH and RH). Refer to EXL-89, "Removal and Installation". 3.
- Disconnect crash zone sensor harness connector. Refer to <u>SR-26, "Removal and Installation"</u>. 4. **CAUTION:**

Turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.

- Remove hood lock and hood lock cable fixing clip. Refer to DLK-172, "HOOD LOCK : Removal and Instal-5. lation".
- Remove horn bracket. Refer to HRN-4, "Removal and Installation". 6.
- 7. Remove air guide (upper) fixing clips, and then remove air guide (upper).

DLK-147

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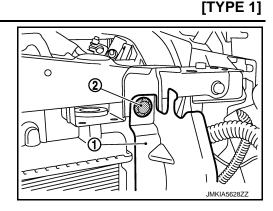
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< REMOVAL AND INSTALLATION >

8. Remove upper fixing clips (2) of air guide (LH and RH) (1).



- 9. Remove hood support rod. Refer to DLK-146, "HOOD SUPPORT ROD : Removal and Installation".
- 10. Remove mounting bolts, and then remove radiator core support upper.

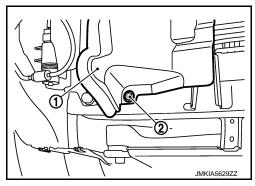
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

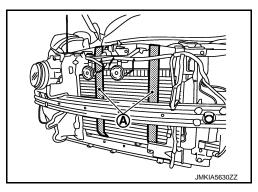
Removal

- 1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".
- Remove lower fixing clips (2) of radiator side seal (LH and RH) (1).



 Use belts (A) to suspend radiator and condenser to prevent them from falling. CAUTION:

Never damage radiator and condenser.



4. Remove mounting bolts, and then remove radiator core support lower.

Installation Install in the reverse order of removal. MR16DDT

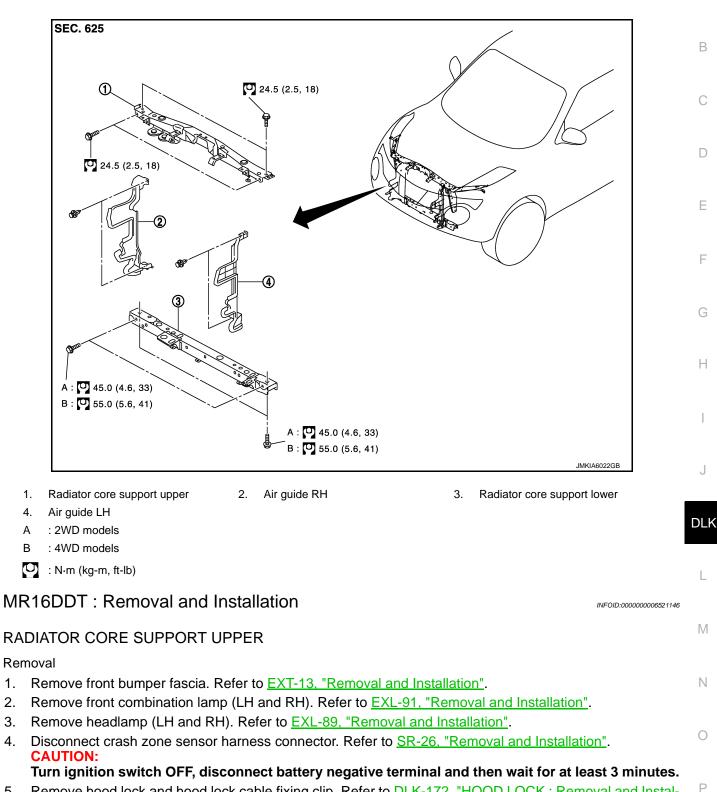
< REMOVAL AND INSTALLATION >

MR16DDT : Exploded View

[TYPE 1]

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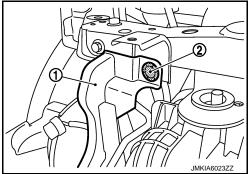
- 5. Remove hood lock and hood lock cable fixing clip. Refer to DLK-172, "HOOD LOCK : Removal and Installation".
- Remove horn bracket. Refer to HRN-4, "Removal and Installation". 6.

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< REMOVAL AND INSTALLATION >

7. Remove upper fixing clips (2) of air guide (LH and RH) (1).



- Remove hood support rod. Refer to DLK-146, "HOOD SUPPORT ROD : Removal and Installation". 8.
- 9. Remove mounting bolts, and then remove radiator core support upper.

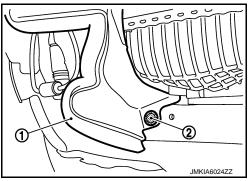
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

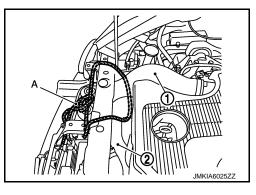
Removal

- Remove front bumper fascia. Refer to EXT-13, "Removal and Installation". 1.
- Remove lower fixing clips (2) of radiator side seal (LH and RH) 2. (1).

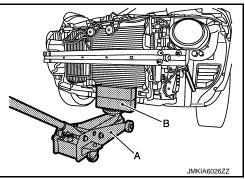


3. Using strings (A), hang inlet hose (1) and inlet hose (2) together with charge air cooler. **CAUTION:**

Never damage inlet hoses with charge air cooler.



Support lower side radiator using wooden blocks (B) and a floor 4. jack (A). **CAUTION:** Never damage radiator.



Remove mounting bolts, and then remove radiator core support lower. 5.

Installation

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

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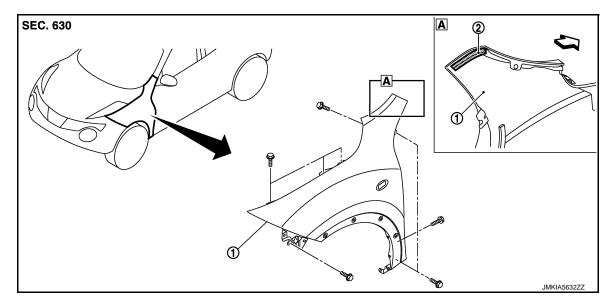
< REMOVAL AND INSTALLATION >

FRONT FENDER

Exploded View

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[TYPE 1]



1. Front fender assembly

2. Front fender stiffener

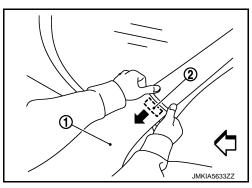
 $\triangleleft : \mathsf{Vehicle front} \\$

Removal and Installation

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REMOVAL

- 1. Remove front fillet molding. Refer to EXT-26, "FRONT FILLET MOLDING : Removal and Installation".
- 2. Remove front bumper fascia assembly. Refer to EXT-13, "Removal and Installation".
- 3. Remove sill cover. Refer to EXT-23, "Removal and Installation".
- 4. Remove fender protector. Refer to EXT-22, "Removal and Installation".
- 5. Remove front fender cover. Refer to EXT-20, "Exploded View".
- 6. Remove front combination lamp. Refer to EXL-91, "Removal and Installation".
- 7. Remove side turn signal lamp. Refer to EXL-98, "Removal and Installation".
- 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.



10. Remove front fender assembly.

CAUTION:

An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Note the following items, and install in the reverse order of removal.

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CAUTION:	C	AI	J	T	0	Ν	ŝ
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• After installation, apply the touch-up paint (the body color) onto the head of front	fender mounting A
bolts.	

• After installation, adjust the following part.

- 1	Hood assembly:	Refer to	<u>DLK-142,</u>	<u>"HOOD</u>	<u>ASSEMBLY</u>	<u>: Ad</u>	<u>justment"</u>	

- Front door: Refer to DLK-156, "DOOR ASSEMBLY : Adjustment".

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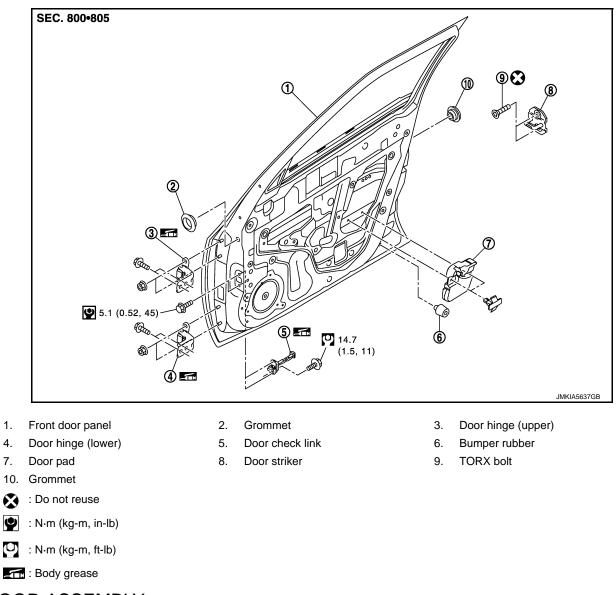
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< REMOVAL AND INSTALLATION >

FRONT DOOR

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DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

CAUTION:

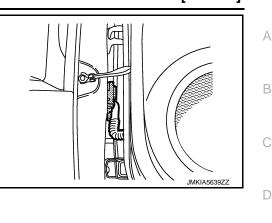
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

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< REMOVAL AND INSTALLATION >

1. Disconnect front door harness connector.



- 2. Remove mounting bolt of door check link on the vehicle.
- 3. Remove door hinge mounting bolts (door side), and then remove door assembly.

INSTALLATION

Note the following items, and 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.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-156, "DOOR ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.



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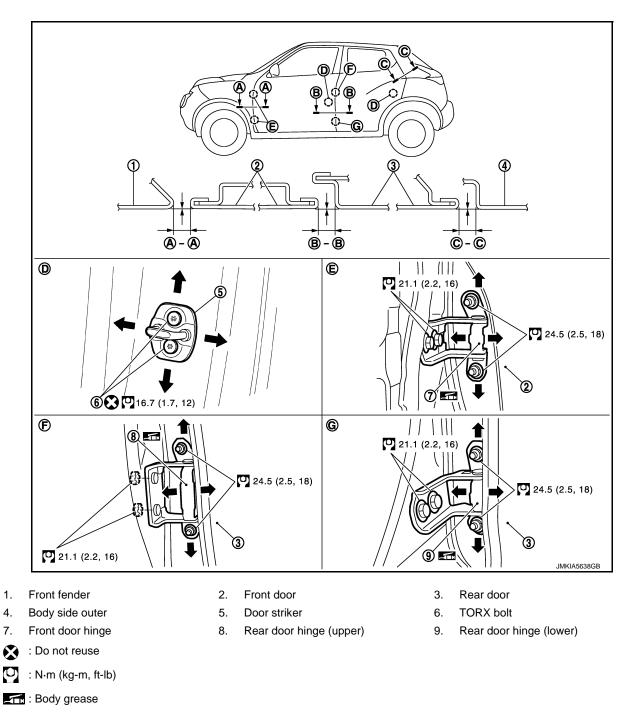
[TYPE 1]

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

[TYPE 1]

I Init: mm (in)



Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

			Office finite (in)
Portion	Portion Clearance		Surface height
Front fender – Front door	A – A	3.0 – 5.0 (0.118 – 0.197)	(-1.0) – (+1.0) [(-0.039) – (+0.039)]
Front door – Rear door	B – B	3.3 – 5.3 (0.130 – 0.209)	(-1.0) – (+1.0) [(-0.039) – (+0.039)]

FITTING ADJUSTMENT PROCEDURE

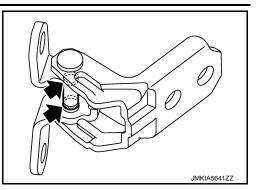
- Remove front fender. Refer to DLK-152, "Removal and Installation". 1.
- Loosen door hinge mounting nuts on door side. 2.

< REMOVAL AND INSTALLATION >	[TYPE 1]	
3. Adjust the surface height of front door according to the fitting standard dimension.		
Temporarily tighten door hinge mounting nuts on door side.	A	
5. Loosen door hinge mounting bolts on body side.		
6. Raise front door at rear end to adjust clearance of the front door according to the fitting stand sion.	ard dimen-	
7. After adjustment tighten bolts and nuts to the specified torque.		
 CAUTION: After installation, apply touch-up paint (the body color) onto the head of hinge moun and nuts. 	nting bolts C	
 Check door hinge rotating part for poor lubrication. If necessary, apply body grease. 		
8. Install front fender. Refer to refer to <u>DLK-152, "Removal and Installation"</u> .	D	
DOOR STRIKER ADJUSTMENT		
Adjust door striker so that it becomes parallel with door lock insertion direction. DOOR STRIKER	E	
DOOR STRIKER : Removal and Installation		
	ID:000000006521152	
REMOVAL	F	
Remove TORX bolts, and then remove door striker.		
INSTALLATION	G	
Note the following items, and install in the reverse order of removal.		
CAUTION:		
 Check front door open/close, lock/unlock operation after installation. After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-156</u>, "<u>DOOR AS</u> <u>Adjustment</u>". 	H SEMBLY :	
DOOR HINGE		
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DOOR HINGE : Removal and Installation	ID:000000006521153	
	J	
REMOVAL 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 clo	oth to pro- DL	K
tect door and body.		
1. Remove front fender. Refer to <u>DLK-152, "Removal and Installation"</u> .		
2. Remove front door assembly. Refer to <u>DLK-154</u> , "DOOR ASSEMBLY : Removal and Installation	<u>n"</u> . ∟	
3. Remove front door hinge mounting bolts (body side), and then remove front door hinge.		
INSTALLATION	M	
Note the following items, and 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.	Ν	
• After installation, perform the fitting adjustment. Refer to <u>DLK-156, "DOOR ASSEMBLY</u>	: Adjust-	
 <u>ment</u>. After installation, apply touch-up paint (the body color) onto the head of door hinge mount 	ing nuts. 🛛 🔾	

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< REMOVAL AND INSTALLATION >

- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - : Grease up point

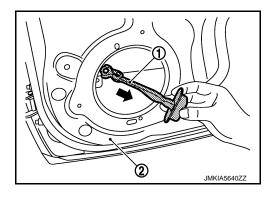


DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

REMOVAL

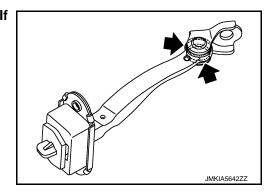
- 1. Fully close the front door window.
- 2. Remove front door finisher. Refer to INT-13, "Removal and Installation".
- 3. Disconnect harness connector of front door speaker.
- 4. Remove mounting bolts of front door speaker, and then remove front door speaker.
- 5. Remove mounting bolt of door check link on the vehicle.
- 6. Remove mounting bolts 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 item, 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

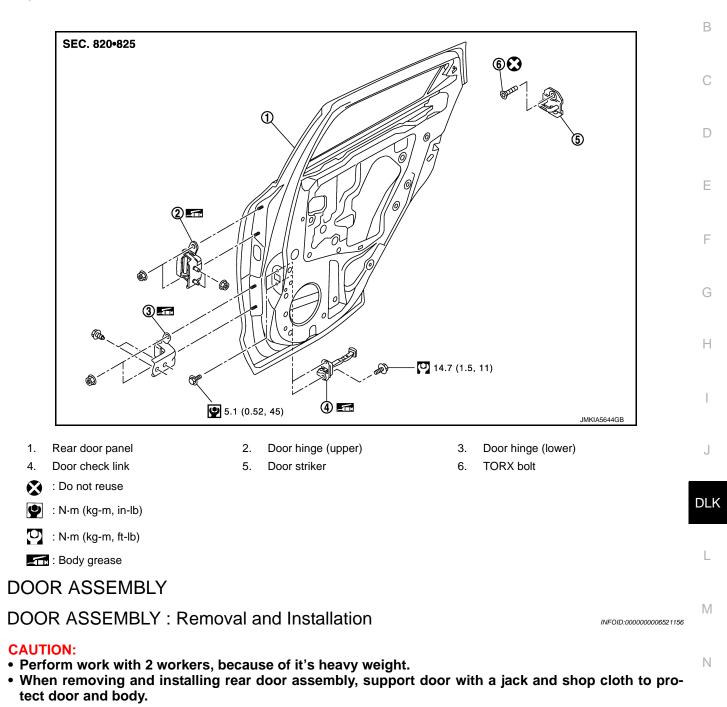


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< REMOVAL AND INSTALLATION > REAR DOOR

Exploded View

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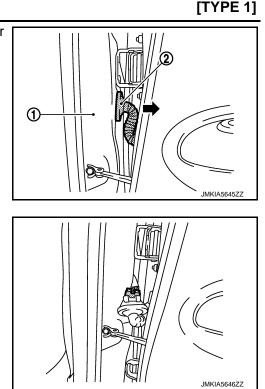
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< REMOVAL AND INSTALLATION >

Disconnect rear door harness connector.

 Remove rear door harness grommet (2) from body side outer (1), and then pull out rear door harness.



- 3. Remove mounting bolt of door check link on the vehicle.
- 4. Remove door hinge mounting bolts (door side), and then remove rear door assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

2.

- Apply anticorrosive agent onto the mounting surface.
- Check rear door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-161, "DOOR ASSEMBLY : Adjust-</u><u>ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment



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D ብ 4 **A**-**A B** - **B** C-C Ē D 21.1 (2.2, 16) (5) 24.5 (2.5, 18) 2 0'= 6 16.7 (1.7, 12) Ē G 8 📼 21.1 (2.2, 16) 5 ί, 24.5 (2.5, 18) 24.5 (2.5, 18) 6 DLK 3 9 🖬 21.1 (2.2, 16) JMKIA5638GB Front fender 2. Front door 3. Rear door Body side outer 5. Door striker 6. TORX bolt Front door hinge 8. Rear door hinge (upper) 9. Rear door hinge (lower) : Do not reuse (\mathbf{X}) : N·m (kg-m, ft-lb) : Body grease

Check the clearance and surface height between front door and each part by visually and touching. 0 If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

			Unit: mm (in)	
Portion	Clearance		Surface height	
Front door – Rear door	B – B	3.3 – 5.3 (0.130 – 0.209)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]	
Rear door – Body side outer	C – C	2.6 - 4.6 (0.102 - 0.181)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]	

FITTING ADJUSTMENT PROCEDURE

1.

4.

7.

Remove center pillar lower garnish. Refer to INT-20. "CENTER PILLAR LOWER GARNISH : Removal 1. and Installation".

< REMOVAL AND INSTALLATION >

- 2. Loosen door hinge mounting nuts on door side.
- 3. Adjust the surface height of rear door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting nuts and bolts on body side.
- 6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
- 7. After adjustment tighten bolts and nuts to the specified torque. CAUTION:
 - After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
 - Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- 8. Install center pillar lower garnish. Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH : Removal and</u> <u>Installation"</u>.

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction. $\ensuremath{\mathsf{DOOR}}$ STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000006521158

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Check rear door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-161, "DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000006521159

CAUTION:

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

- 1. Remove rear door assembly. Refer to <u>DLK-159</u>, "DOOR ASSEMBLY : Removal and Installation".
- 2. Remove center pillar lower garnish. Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH : Removal</u> <u>and Installation"</u>.
- 3. Remove rear door hinge mounting bolts and nuts (body side), and then remove door hinge.

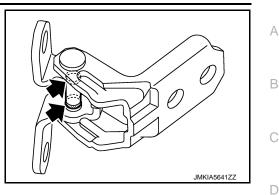
INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check rear door open/close operation after installation.
- When removing and installing rear door assembly, perform the fitting adjustment. Refer to <u>DLK-161</u>, <u>"DOOR ASSEMBLY : Adjustment"</u>.
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

< REMOVAL AND INSTALLATION >

- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - Grease up point



[TYPE 1]

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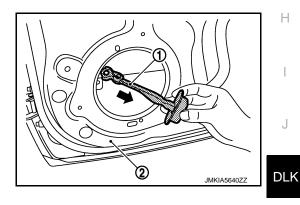
L

DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

REMOVAL

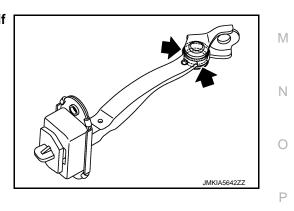
- 1. Fully close the rear door window.
- 2. Remove rear door finisher. Refer to INT-16, "Removal and Installation".
- 3. Remove mounting bolts of rear door speaker, and then remove rear door speaker.
- 4. Disconnect harness connector of rear door speaker.
- 5. Remove mounting bolt of the check link on the vehicle.
- 6. Remove mounting bolts of the 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 rear door open/close operation after installation.
- Check door check link rotating part for poor lubrication. If necessary, apply grease.
 - : Grease up point



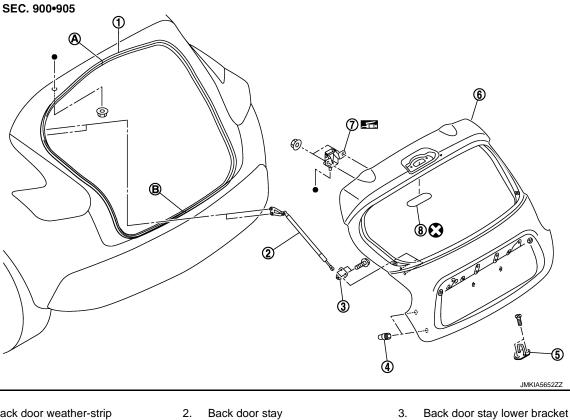
< REMOVAL AND INSTALLATION > **BACK DOOR**

Exploded View

REMOVAL

INFOID:000000006521161

[TYPE 1]



- Back door weather-strip 1.
- 4. Bumper rubber
- 7. Back door hinge
- : Center mark А
- : Seam В
- : Do not reuse
- : Body grease

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

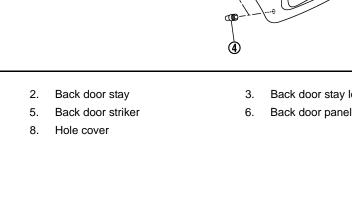
INFOID:000000006521162

CAUTION:

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

REMOVAL

Remove luggage side upper finisher (LH and RH). Refer to INT-32, "LUGGAGE SIDE UPPER FINISHER 1. : Removal and Installation".



< REMOVAL AND INSTALLATION >

2. Disconnect harness connector.

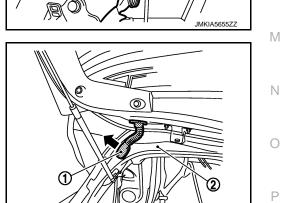
 \triangleleft : Vehicle front

- 3. Remove rear washer hose (1) from hose mounting clip (A), and then disengage hose.
 - \triangleleft : Vehicle front

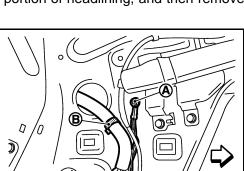
- 4. Remove center pillar upper garnish. Refer to <u>INT-21, "CENTER PILLAR UPPER GARNISH : Removal</u> and Installation".
- 5. Remove upper side of back door weather-strip. Refer to <u>DLK-170, "BACK DOOR WEATHER-STRIP :</u> <u>Removal and Installation"</u>.
- Remove rear assist grip (LH and RH) and mounting clips for rear portion of headlining, and then remove rear portion of headlining. Refer to <u>INT-26, "Exploded View"</u>.
- 7. Remove ground harness mounting bolt (A) and harness fixing clip (B).

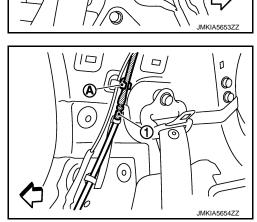
<□ : Vehicle front

Remove grommet (1), and then pull out harness from roof panel (2).



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[TYPE 1]

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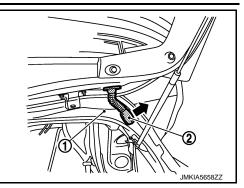
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< REMOVAL AND INSTALLATION >

[TYPE 1]

9. Remove grommet (2), and then pull out harness and washer tube from roof panel (1).



10. Support back door with the proper material to prevent it from falling. WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

- 11. Remove back door stay (back door side). Refer to <u>DLK-169</u>, "<u>BACK DOOR STAY</u> : <u>Removal and Installa-</u> <u>tion</u>".
- 12. Remove back door hinge mounting nuts on back door and remove back door assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-167, "BACK DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

< REMOVAL AND INSTALLATION >

BACK DOOR ASSEMBLY : Adjustment

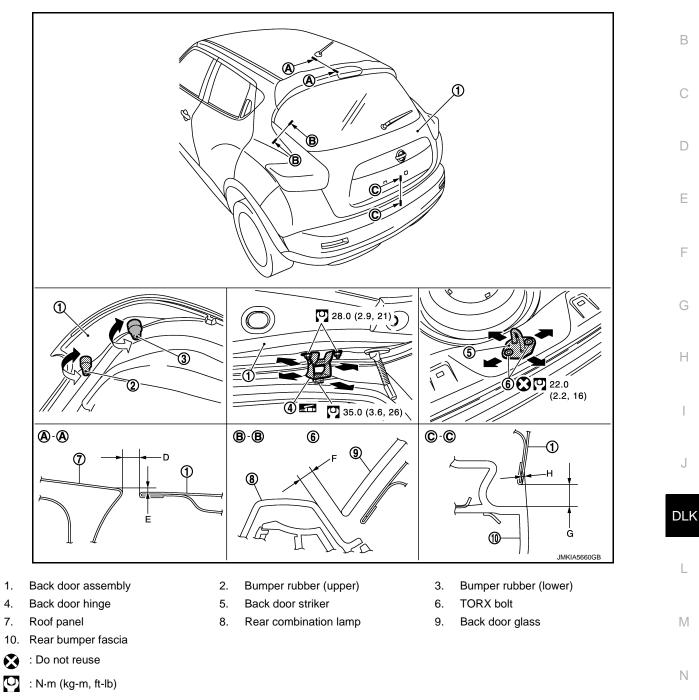
[TYPE 1]



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: Body grease

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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.

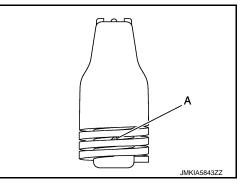
					Unit: mm (in)
Portion				Standard	Difference (LH/RH, MAX)
Roof panel – Back door A – A	k A - A D	Clearance	5.0 – 7.0 (0.197 – 0.276)	_	
	Ε	Surface height	0.9 – 2.9 (0.035 – 0.114)	_	

< REMOVAL AND INSTALLATION >

	Portior	h		Standard	Difference (LH/RH, MAX)
Rear combination lamp – Back door glass	B – B	F	Clearance	2.8 – 7.2 (0.110 – 0.283)	<2.0 (0.079)
Rear bumper fas-	C – C	G	Clearance	6.0 - 10.0 (0.236 - 0.394)	_
cia – Back door		Н	Surface height	(-2.5) – (+1.0) [(-0.098) – (+0.039)]	_

FITTING ADJUSTMENT PROCEDURE

- 1. Loosen back door striker mounting bolts.
- 2. Loosen back door hinge mounting nuts (back door side).
- 3. 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. Screw bumper rubber (upper) into the stopper position (A), and then loosen by a half turn.
- 6. Screw bumper rubber (lower) into the end position of threads.



CAUTION:

After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.

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 luggage rear plate. Refer to INT-30, "LUGGAGE REAR PLATE : Removal and Installation".
- 2. Remove TORX bolts, and then remove back door striker.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-167, "BACK DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

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REMOVAL

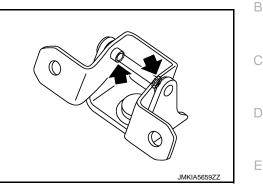
- 1. Remove back door assembly. Refer to <u>DLK-164, "BACK DOOR ASSEMBLY : Removal and Installation"</u>.
- 2. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

< REMOVAL AND INSTALLATION >

Note the following items, and install in the reverse order of removal. CAUTION:

- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to DLK-167, "BACK DOOR ASSEMBLY : Adjustment".
- · 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

REMOVAL

- Remove luggage side upper finisher and rear pillar cap. Refer to INT-32, "LUGGAGE SIDE UPPER FIN-1. ISHER : Removal and Installation".
- 2. Support the back door with the suitable material to prevent it from falling.

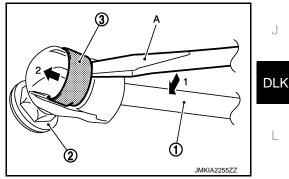
WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

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

Be careful not to damage painted surface.

5. Remove back door stay (back door side).



6. Remove mounting bolts, and then remove back door stay lower bracket.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- After installation, check back door open/close, lock/unlock operation.

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< REMOVAL AND 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.
 - A: 20 mm (0.787 in)
 - **B:** Cut at the groove.



BACK DOOR WEATHER-STRIP : Removal and Installation

REMOVAL

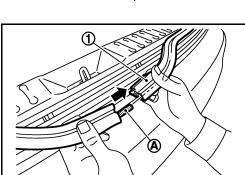
Pull up and remove engagement with body from weather-strip joint.

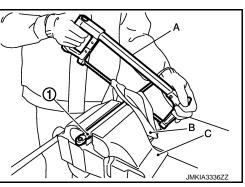
CAUTION:

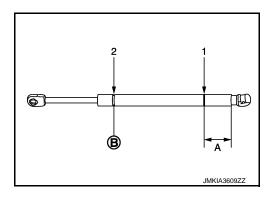
Never pull strongly on weather-strip.

INSTALLATION

- 1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.
- 2. For the lower section, insert pad (A) into weather-strip (1), and then fix the connection point.







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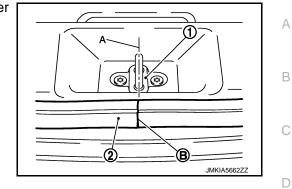
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< REMOVAL AND INSTALLATION >

[TYPE 1]

3. 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 fits tightly in each corner and luggage rear plate.

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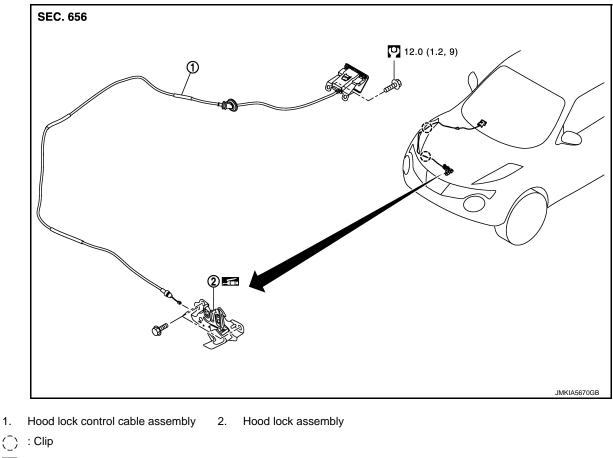
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< REMOVAL AND INSTALLATION > HOOD LOCK

Exploded View

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: N·m (kg-m, ft-lb)

: Body grease

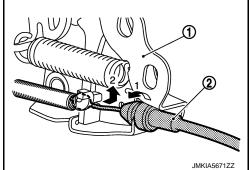
HOOD LOCK

HOOD LOCK : Removal and Installation

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REMOVAL

- 1. Remove front center grille. Refer to EXT-18. "Removal and Installation".
- 2. Remove crash zone sensor. Refer to SR-26, "Removal and Installation".
- 3. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
- 4. Disconnect hood lock control cable assembly (2) from hood lock assembly (1).



HOOD LOCK

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- Check that hood lock control cable is properly engaged with hood lock.
 After installation, perform hood fitting adjustment. Refer to <u>DLK-142, "HOOD ASSEMBLY : Adjustment"</u>.
- After installation, perform hood lock control inspection. Refer to <u>DLK-173, "Inspection"</u>.
 HOOD LOCK CONTROL CABLE

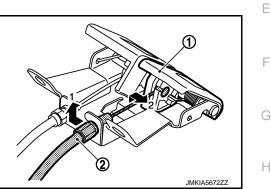
HOOD LOCK CONTROL CABLE : Removal and Installation

Note the following items, and install in the reverse order of removal.

REMOVAL

CAUTION:

- 1. Disconnect hood lock control cable assembly from hood lock assembly.
- 2. Remove fender protector (RH). Refer to EXT-22. "Removal and Installation".
- 3. Remove hood lock cable clip.
- 4. Remove hood lock control cable assembly of instrument lower panel (RH), and then remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).



5. Remove grommet on the lower dash, and pull the hood lock control cable toward the passenger compartment.

CAUTION:

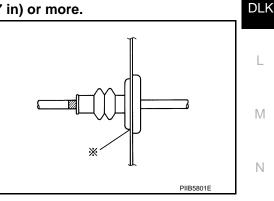
While pulling, never to damage (peeling) the outside of hood lock control cable.

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-142, "HOOD ASSEMBLY : Adjust-ment"</u>.
- After installation, perform hood lock control inspection. Refer to <u>DLK-173</u>, "Inspection".

Inspection

NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that secondary latch is securely engaged with securely striker from the dead load of the hood assembly.

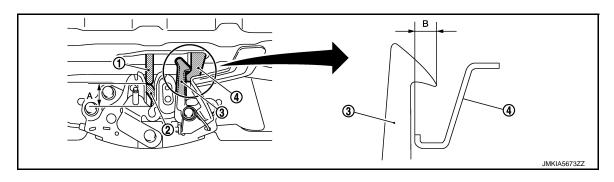
HOOD LOCK

< REMOVAL AND INSTALLATION >

 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:

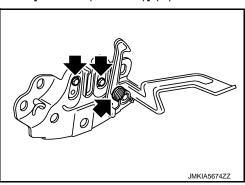
Never free-fall hood assembly from a height of 300 (11.811 in) mm or more.

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.



- Primary striker
 Secondary striker
- 2. Primary latch

- 3. Secondary latch
- 4. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).
- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.
 - : Grease up point

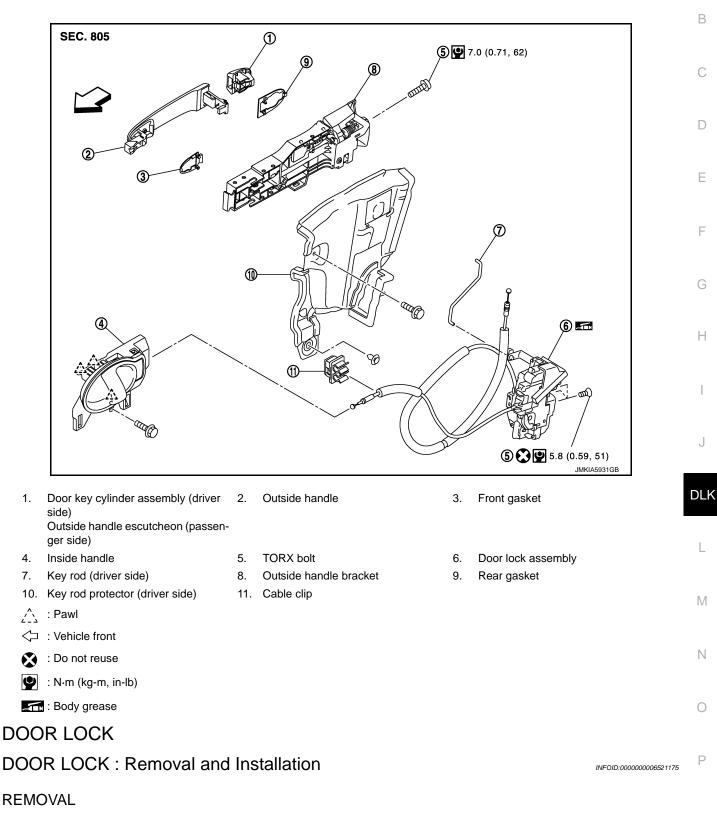


< REMOVAL AND INSTALLATION >

FRONT DOOR LOCK

Exploded View

INFOID:000000006521174



- 1. Remove inside handle. Refer to <u>DLK-176, "INSIDE HANDLE : Removal and Installation"</u>.
- 2. Disengage inside handle cable from cable clip.
- 3. Remove outside handle bracket. Refer to DLK-176, "OUTSIDE HANDLE : Removal and Installation".
- 4. Remove door lock assembly TORX bolts.

DLK-175

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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

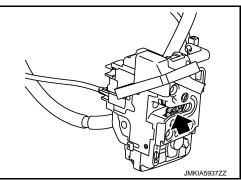
5. Disconnect door lock actuator connector, and then remove door lock assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal. CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- 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



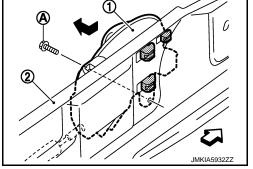
INSIDE HANDLE

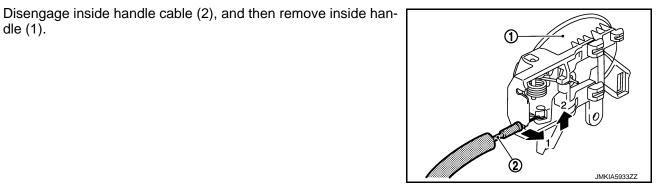
INSIDE HANDLE : Removal and Installation

REMOVAL

4.

- 1. Remove front door finisher. Refer to INT-13, "Removal and Installation".
- 2. Remove inside handle mounting bolt (A).
- Disengage inside handle (1) from door panel (2) while sliding 3. inside handle toward vehicle rear, and then separate inside handle.
 - : Vehicle front





INSTALLATION

dle (1).

Note the following item, and install in the reverse order of removal.

CAUTION: Check door open/close, lock/unlock operation after installation. OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

REMOVAL

1. Remove front door glass and front door lower sash (rear). Refer to GW-17, "Removal and Installation".

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FRONT DOOR LOCK

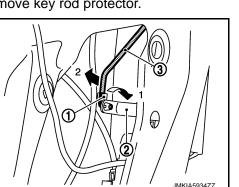
< REMOVAL AND INSTALLATION >

- 2. Remove key rod protector mounting bolt and fixing clip, and then remove key rod protector.
- Disengage lock holder (1), and then separate key rod (3) from door lock assembly (2).(Driver side)

- 4. Disconnect harness connector of door antenna (1) and door request switch (2) and remove harness clamp (3).
 - $\triangleleft : \mathsf{Vehicle front}$

5. 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.)

6. While pulling outside handle (1), remove door key cylinder assembly (diver side) (2) or outside handle escutcheon (passenger side) (2).



[TYPE 1]

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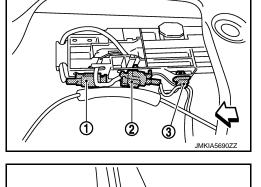
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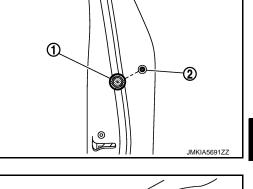
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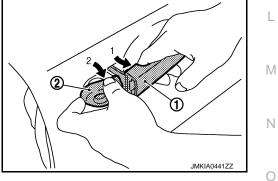
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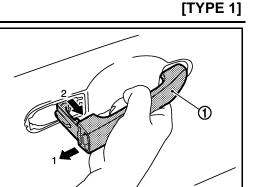




FRONT DOOR LOCK

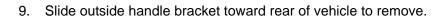
< REMOVAL AND INSTALLATION >

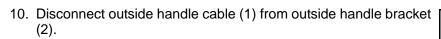
7. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

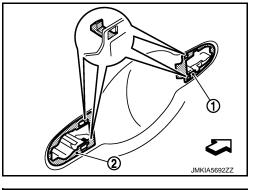


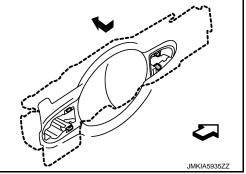
JMKIA2948ZZ

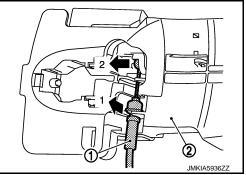
- 8. Remove front gasket (1) and rear gasket (2).











INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- When installing key rod, rotate key rod holder until a click is felt.
- Check that door lock cables are normally engaged with inside handle and outside handle.
- After installation, check door open/close, and lock/unlock operation.

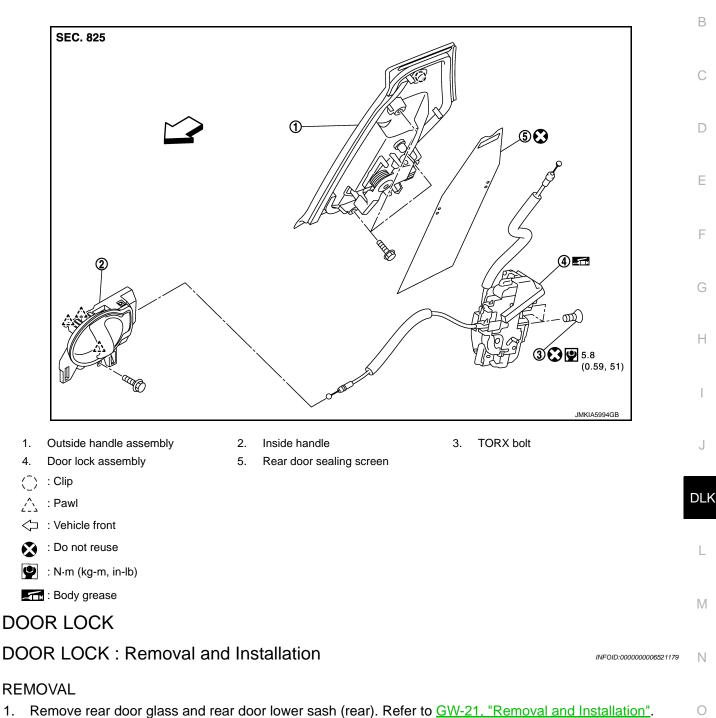
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

REAR DOOR LOCK

Exploded View

INFOID:000000006521178



- 2. Remove inside handle. Refer to <u>DLK-180, "INSIDE HANDLE : Removal and Installation"</u>.
- 3. Remove outside handle. Refer to <u>DLK-180, "OUTSIDE HANDLE : Removal and Installation"</u>.
- 4. Remove door lock assembly TORX bolts.
- 5. Disconnect door lock actuator connector, and then remove door lock assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- Check door open/close, lock/unlock operation after installation.

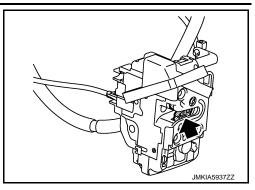
DLK-179

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< REMOVAL AND INSTALLATION >

- Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.
 - : Grease up point



INSIDE HANDLE

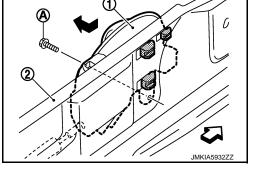
INSIDE HANDLE : Removal and Installation

REMOVAL

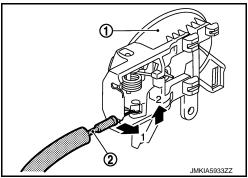
- 1. Remove rear door finisher. Refer to INT-16, "Removal and Installation".
- Remove upper side of sealing screen.
 NOTE:

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. Remove inside handle mounting bolt (A).
- 4. Disengage inside handle (1) from door panel (2) while sliding inside handle toward vehicle rear, and then separate inside handle.
 - \triangleleft : Vehicle front



5. Disengage inside handle cable (2), and then remove inside handle (1).



INSTALLATION Note the following item, and install in the reverse order of removal. CAUTION: Check door open/close, lock/unlock operation after installation. OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

INFOID:000000006521181

REMOVAL

- 1. Remove rear door finisher and rear door corner cover inner. Refer to INT-16, "Removal and Installation".
- 2. Remove rear door sealing screen.

DLK-180

[TYPE 1]

INFOID:000000006521180

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

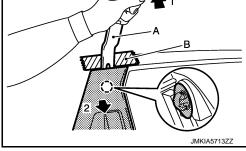
- 3. Rotate stopper (1) upward.
- 4. Disengage outside handle cable (2), and then remove outside handle cable from outside handle assembly (3).

5. Remove outside handle assembly mounting bolts (A).

 Disengage mounting clips using a remover tool (A), and then remove outside handle assembly.
 CAUTION:

Apply protective tape (B) on the door panel to protect the painted surface from damage.

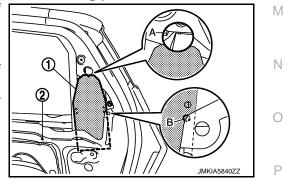
() : Clip



INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Never reuse rear door sealing screen. Always replace it with a new one when it is removed. When installing rear door sealing screen, install it according to the following procedure.
- Put lower portion of rear door sealing screen (1) into inside of door panel (2).
- Perform positioning according to the following procedure, and then install rear door sealing screen.
- Align upper portion of rear door sealing screen to hole (A) of door panel as shown in the figure.
- Align hole of rear door sealing screen to edge (B) of door panel as shown in the figure.



- Be careful to position outside handle cable normally when installing it. For details, refer to <u>DLK-179</u>, <u>"Exploded View"</u>.
- Check door open/close, lock/unlock operation after installation.

DLK-181

[TYPE 1]

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BACK DOOR LOCK

< REMOVAL AND INSTALLATION > BACK DOOR LOCK

Exploded View

INFOID:000000006521182

SEC. 905 Image: SEC

- : Do not reuse
- : N·m (kg-m, ft-lb)
- : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000006521183

REMOVAL

- 1. Remove the back door lower finisher. Refer to <u>INT-35, "BACK DOOR LOWER FINISHER : Removal and Installation"</u>.
- 2. Remove back door lock assembly mounting bolts.
- 3. Disconnect back door lock connector, and then remove back door lock assembly.

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, check back door open/close, and lock/unlock operation. EMERGENCY LEVER

EMERGENCY LEVER : Unlock procedures

INFOID:000000006521185

UNLOCK PROCEDURES

NOTE:

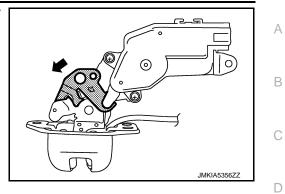
If back door lock cannot be unlocked due to a malfunction or battery discharge, follow the procedures to unlock back door.

1. Remove emergency lid. Refer to INT-36, "EMERGENCY LID : Removal and Installation".

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

2. From inside the vehicle, rotate emergency lever toward lower direction and unlock.





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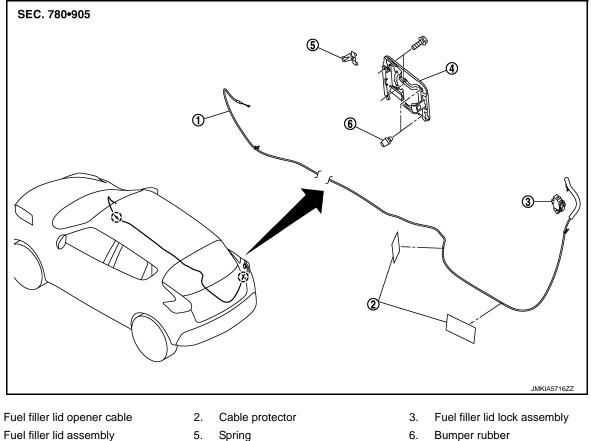
[TYPE 1]

< REMOVAL AND INSTALLATION >

FUEL FILLER LID OPENER

Exploded View

INFOID:000000006521186



- 1. 4.
- Spring

6. Bumper rubber

- $(\overline{})$: Clip
- : Do not reuse

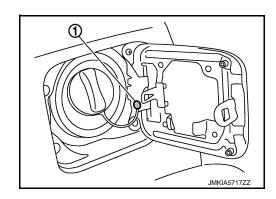
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000006521187

REMOVAL

- 1. Fully open fuel filler lid.
- Remove fuel mounting pin (1). 2.



Remove mounting screws, and then remove fuel filler lid. 3.

INSTALLATION

Note the following items, and install in the reverse order of removal.

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

CAUTION:

• After installation, check fuel filler lid assembly open/close, lock/unlock operation.

• After installation, apply the touch-up paint (the body color) onto the head of the mounting screws. NOTE:

- The following table shows the specifide values for checking nomal installation status.
- Fitting adjustment cannot be perfored.

Unit: mm (in)

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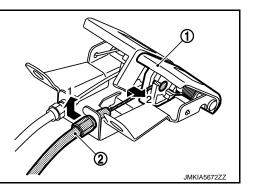
	Clearance	Evenness
Fuel filler lid – Body side outer	2.0 - 4.0 (0.079 - 0.157)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]

FUEL FILLER OPENER CABLE

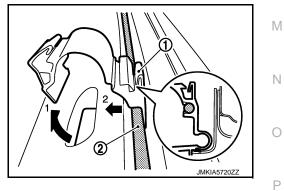
FUEL FILLER OPENER CABLE : Removal and Installation

REMOVAL

- Remove hood lock control cable assembly from instrument lower panel (LH). Refer to <u>DLK-173, "HOOD</u> <u>LOCK CONTROL CABLE : Removal and Installation"</u>.
- 2. Remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).



- 3. Remove front kicking plate inner (RH) and rear kicking plate inner (RH). Refer to <u>INT-19, "KICKING</u> <u>PLATE INNER : Removal and Installation"</u>.
- 4. Remove dash side finisher (RH). Refer to INT-20, "DASH SIDE FINISHER : Removal and Installation".
- 5. Remove center pillar lower garnish (RH). Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH Removal and Installation"</u>.
- Remove luggage side lower finisher (RH). Refer to <u>INT-31, "LUGGAGE SIDE LOWER FINISHER:</u> <u>Removal and Installation"</u>.
- Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to <u>DLK-186, "FUEL FILLER LID</u> <u>LOCK : Removal and Installation"</u>.
- 8. Disengage each harness protector (1), and then remove fuel filler lid opener cable (2).



9. Remove fuel filler lid opener cable fixing clips, and then remove fuel filler lid opener cable.

INSTALLATION

Note the following items, 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

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FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

FUEL FILLER LID LOCK : Removal and Installation

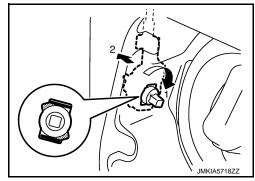
INFOID:000000006562263

[TYPE 1]

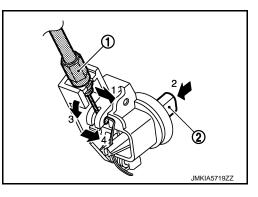
REMOVAL

- 1. Fully open fuel filler lid.
- 2. Remove luggage side lower finisher (RH). Refer to <u>INT-31, "LUGGAGE SIDE LOWER FINISHER :</u> <u>Removal and Installation"</u>.
- 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.



4. Disengage fuel filler lid opener cable (1). Remove fuel filler lid opener cable while pressing stopper pin (2).



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.

DOOR SWITCH

< REMOVAL AND INSTALLATION > DOOR SWITCH

Exploded View

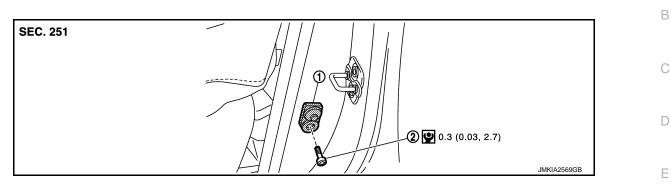
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[TYPE 1]

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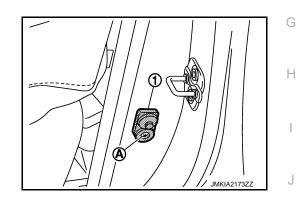
1. Door switch

2. TORX bolt

Removal and Installation

REMOVAL

Remove the TORX bolt (A), and then remove door switch (1).



INSTALLATION Install in the reverse order of removal.

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INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Removal and Installation

REMOVAL

- 1. Remove the multi display unit. Refer to AV-125, "Removal and Installation".
- Remove the inside key antenna (instrument center) (1) mounting clip (A), and then remove inside key antenna (instrument center).
 CAUTION:

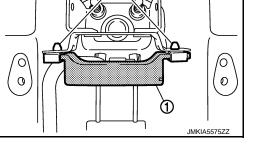
Be careful not to drop mounting clip (A) into instrument panel.

INSTALLATION Install in the reverse order of removal. CONSOLE

CONSOLE : Removal and Installation

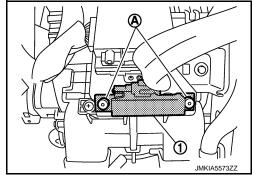
REMOVAL

- 1. Remove the center console assembly. Refer to IP-23, "Removal and Installation".
- 2. Remove the inside key antenna (console) (1) mounting clip (A), and then remove inside key antenna (console).



(A)

INSTALLATION Install in the reverse order of removal. LUGGAGE ROOM INFOID:000000006302918



INFOID:000000006601543

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM : Exploded View

[TYPE 1]

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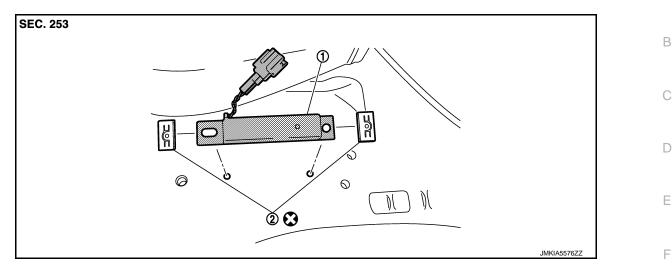
INFOID:000000006302919

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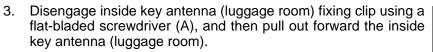


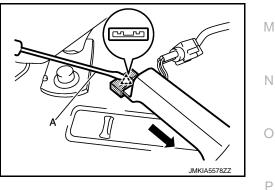
- 1. Inside key antenna (luggage room) 2. Clip
- : Do not reuse

LUGGAGE ROOM : Removal and Installation

REMOVAL

- 1. Remove the luggage floor finisher. Refer to INT-29, "Exploded View".
- 2. Remove the inside key antenna (luggage room) (1) mounting clip RH (A).





INSTALLATION Install in the reverse order of removal. CAUTION: Visually check the clips for deformation and damage during installation. Replace with new ones if necessary. < REMOVAL AND INSTALLATION >

OUTSIDE KEY ANTENNA DRIVER SIDE

DRIVER SIDE : Removal and Installation

REMOVAL

Remove the driver side outside handle. Refer to DLK-176, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION Install in the reverse order of removal. PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

REMOVAL

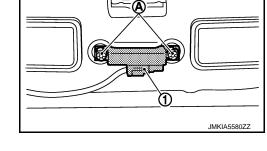
Remove the passenger side outside handle. Refer to <u>DLK-176, "OUTSIDE HANDLE : Removal and Installa-</u>tion".

INSTALLATION Install in the reverse order of removal. REAR BUMPER

REAR BUMPER : Removal and Installation

REMOVAL

- 1. Remove the rear bumper fascia. Refer to EXT-16, "Removal and Installation".
- 2. Remove the outside key antenna (rear bumper) (1) mounting clip (A), then remove outside key antenna (rear bumper).



INSTALLATION Install in the reverse order of removal.

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INFOID-000000006302920

INFOID:000000006302922

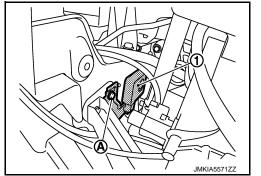
INTELLIGENT KEY WARNING BUZZER < REMOVAL AND INSTALLATION >

INTELLIGENT KEY WARNING BUZZER

Removal and Installation

REMOVAL

1. Remove the Intelligent Key warning buzzer (1) mounting bolt (A), and then remove the Intelligent Key warning buzzer.



INSTALLATION Install in the reverse order of removal.

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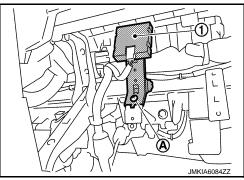
< REMOVAL AND INSTALLATION >

REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

REMOVAL

- 1. Remove the glove box assembly. Refer to IP-13. "Removal and Installation".
- 2. Remove the remote keyless entry receiver (1) mounting bolt (A), and then remove remote keyless entry receiver.



INSTALLATION Install in the reverse order of removal. INFOID:000000006302924

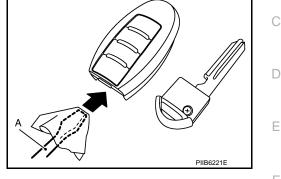
INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY BATTERY

Removal and Installation

- 1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
- Insert a flat-blade screwdriver (A) wrapped with a cloth into the 2. slit of the corner and twist it to separate the upper part from the lower part. **CAUTION:**
 - Do not touch the circuit board or battery terminal.
 - The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.

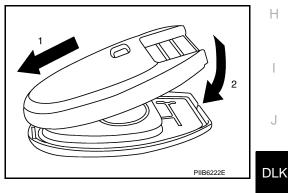


Replace the battery with new one. 3.

Battery replacement

:Coin-type lithium battery (CR2025)

- Align the tips of the upper and lower parts, and then push them 4. together until it is securely closed. **CAUTION:**
 - · When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
 - · After replacing the battery, check that all Intelligent Key functions work normally.



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< HOW TO USE THIS MANUAL > HOW TO USE THIS MANUAL APPLICATION NOTICE

Information

INFOID:000000006445318

Check the vehicle type to use the service information in this section.

Service information	Destination
Туре 1	With Intelligent Key and super lock
Туре 2	With Intelligent Key, without super lock
Туре 3	Without Intelligent Key, with super lock
Туре 4	Without Intelligent Key and super lock

< PRECAUTION > PRECAUTION PRECAUTIONS

PRE-TENSIONER"

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

INFOID:000000006635658

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

The vehicle may be equipped with a passenger air bag deactivation switch. Because no rear seat exists where a rear-facing child restraint can be placed, the switch is designed to turn off the passenger air bag so that a rear-facing child restraint can be used in the front passenger seat. The switch is located in the center of the instrument panel, near the ashtray. When the switch is turned to the ON position, the passenger air bag is enabled and could inflate for certain types of collision. When the switch is turned to the OFF position, the passenger air bag is disabled and will not inflate. A passenger air bag OFF indicator on the instrument panel lights up when the passenger air bag is switched OFF. The driver air bag always remains enabled and is not affected by the passenger air bag deactivation switch.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.
- The vehicle may be equipped with a passenger air bag deactivation switch which can be operated by the customer. When the passenger air bag is switched OFF, the passenger air bag is disabled and will not inflate. When the passenger air bag is switched ON, the passenger air bag is enabled and could inflate for certain types of collision. After SRS maintenance or repair, make sure the passenger air bag deactivation switch is in the same position (ON or OFF) as when the vehicle arrived for service.

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

WARNING:

NOTE:

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

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

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

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

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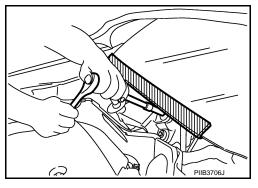
OPERATION PROCEDURE

- Connect both battery cables.
 NOTE: Supply power using jumper cables if battery is discharged.
- 2. Turn the ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

Precaution for Procedure without Cowl Top Cover

INFOID:000000006635660

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



Work

INFOID:000000006302929

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

PREPARATION

< PREPARATION > PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000006302931

	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	JAC JALJ JMKIA3050ZZ	Removes the clips, pawls, and metal clips
Power tool		
	PIIB1407E	

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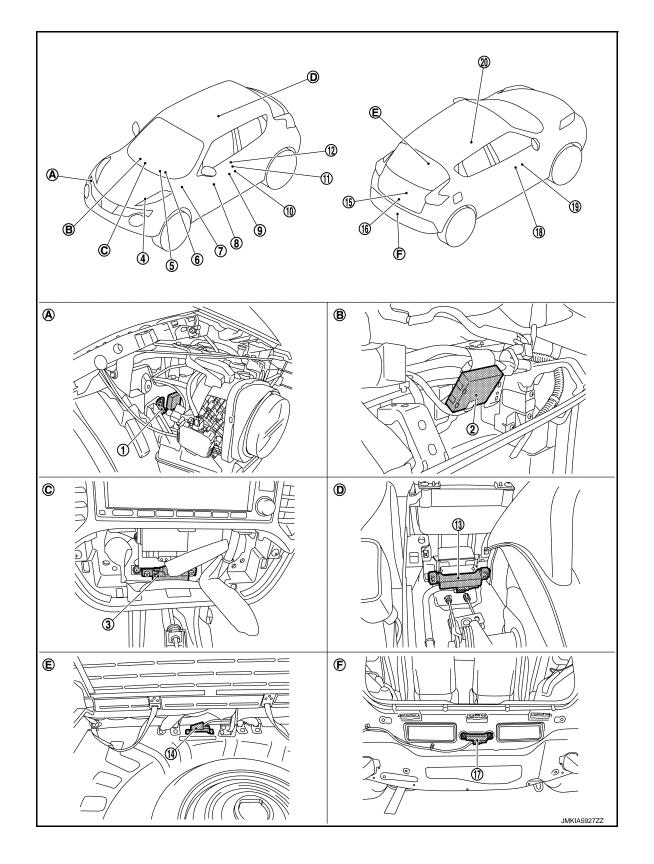
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< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location

INFOID:000000006527917



DLK-198

COMPONENT PARTS

< SYSTEM DESCRIPTION >

INFOID:000000006527918

1.	Intelligent Key warning buzzer	2.	Remote keyless entry receiver	3.	Inside key antenna (instrument cen- ter)	А
4.	TCM Refer to <u>TM-133, "CVT CONTROL</u> <u>SYSTEM : TCM"</u> (RE0F10B models) or <u>TM-316, "CVT CONTROL SYSTEM</u> <u>: TCM"</u> (RE0F11A models)	5.	Push-button ignition switch	6.	Combination meter	В
7.	BCM Refer to <u>BCS-6, "BODY CONTROL</u> <u>SYSTEM : Component Parts Location"</u>	8.	Power window switch (driver side) (door lock and unlock switch)	9.	Outside key antenna (driver side)	С
10.	Front door switch (driver side)	11.	Front door lock assembly (driver side)	12.	Front door request switch (driver side)	
13.	Inside key antenna (console)	14.	Inside key antenna (luggage room)	15.	Back door request switch	D
16.	Back door lock assembly	17.	Outside antenna (rear bumper)	18.	Front door request switch (passenger side)	
19.	Outside key antenna (passenger side)	20.	Air bag diagnosis sensor unit Refer to <u>SRC-7, "Component Parts</u> <u>Location"</u>			E
Α.	View with front bumper removed	В.	View with instrument panel assembly removed	C.	View with multi display unit removed	F
D.	View with center console assembly re- moved	E.	View with luggage room finisher re- moved	F.	View with rear bumper removed	G

Component Description

Item	Function
Air bag diagnosis sensor unit	Transmits air bag signal to BCM.
BCM	Controls the door lock system.
Back door opener actuator	Opens the back door with the back door open signal from BCM.
Back door opener switch	Inputs back door opener switch operation signal to BCM.
Combination meter	 Displays each operation method guide and warning for system malfunction. Performs operation method guide and warning with buzzer. Transmits vehicle seep signal to CAN communication line.
Door lock actuator	 Inputs locks/unlocks signal from BCM and locks/unlocks each door. Integrated in each door lock assembly.
Door lock and unlock switch	 Transmits door lock/unlock operation to BCM. Integrated in the power window main switch and front power window switch (passenger side).
Door lock status indicator	 The door lock status indicates door lock status. The indicator illuminates when a lock operation is successful.
Door request switch	 Transmits door lock/unlock operation to BCM. Integrated in the outside handle (driver side, passenger side and back door).
Door switch	Detects door open/close condition.
Inside key antenna	 Detects whether Intelligent Key is inside the vehicle. Installed in the instrument center, consol and luggage room.
Intelligent Key	 The following functions are available when having and carrying electronic ID. Door lock/unlock Engine start Remote control entry function is available when operating on button.
Intelligent Key warning buzzer	Warns for an inappropriate operation.
Outside key antenna	 Detects whether Intelligent Key is outside the vehicle. Integrated in the outside handle (driver side, passenger side and back door).
Push-button ignition switch	 BCM transmits the change in the power supply position with the push-button ignition switch to IPDM E/R via CAN communication line. IPDM E/R transmits the power supply position status via CAN communication line to BCM. Immobilizer antenna amp checks Intelligent Key transponder.
Remote keyless entry receiver	Receives Intelligent Key operation and transmits to BCM.

DLK-199

COMPONENT PARTS

< SYSTEM DESCRIPTION >

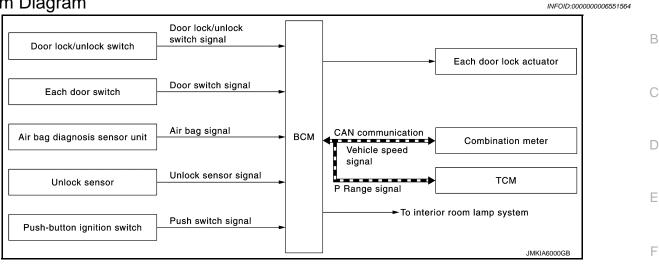
Item	Function
ТСМ	Transmits shift position signal to BCM via CAN communication line.
Unlock sensor	Built-in in driver side door lock assembly • Detects door lock condition of driver door

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

SYSTEM (POWER DOOR LOCK SYSTEM)

System Diagram



System Description

INFOID:000000006551565

DOOR LOCK FUNCTION

Door Lock and Unlock Switch

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

Unlock Sensor

- BCM locks all doors or unlocks all doors, when driver door lock knob is operated.
- 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, unlocks DLK door lock actuator of all doors.

AIR BAG INTERLOCK UNLOCK FUNCTION

When ignition switch is ON and BCM receives air bag signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag signal to BCM.

INTERIOR ROOM LAMP CONTROL FUNCTION

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

OPERATION CONDITION

Ν If all of the following conditions are satisfied, door lock and unlock operation is performed using the door lock/ unlock switch.

Door lock and unlock switch operation	Operation condition	C
LOCK	 Closed driver side door Doors other than drivers door are closed*1 Doors are not locked by Intelligent Key or door request switch*2 Door lock that is requested is not auto door lock*2 	F
UNLOCK	Doors are not locked by Intelligent Key or door request switch*2	

*1: While door lock and unlock switch is pressed in the lock direction during this state, combination meter buzzer sounds and warns.

*2: When this item becomes OK according to Intelligent Key ID verification, door lock/unlock operation is allowed.

OVERRIDE FUNCTION

DLK-201

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SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

When inside handle of front door is operated while doors are in lock states, lock state of the applicable door lock becomes invalid and the door is open.

UNLOCK LINK FUNCTION

When driver door or passenger door is opened using the override function, all doors are unlocked. Unlock function operates when driver door or passenger door is open while all of the following conditions are satisfied.

 Doors are locked by door lock/unlock switch or by automatic lock/unlock function Driver or passenger door switch is switched from OFF to ON Anti-hijack function is not activated Vehicle speed is 5 km/h (3 MPH) or less 	
--	--

NOTE:

When anti-hijack function is activated, only the applicable door is unlocked.

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 10 km/h (6 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 10 km/h (6 MPH) or more.

P Range Interlock Door Lock*1

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

position other than P.

Setting change of Automatic Door Lock/Unlock Function

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

NOTE:

P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

With CONSULT-III

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

Without CONSULT- III

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

- 1. Close all doors (door switch OFF)
- 2. 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.

*¹: This function does not operate on M/T models.

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*1

DLK-202

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

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.	А
Setting change of Automatic Door Lock/Unlock Function The unlock operation setting of the automatic door lock/unlock function can be changed. NOTE:	В
P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.	С
With CONSULT- III The ON/OFF switching of the automatic door lock/unlock function and the type selection of the automatic door lock/unlock function can be performed at the WORK SUPPORT setting of CONSULT-III. Refer to <u>DLK-217</u> , <u>"DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)"</u> .	D
Without CONSULT- III The automatic door lock/unlock function ON/OFF can be switched by performing the following operation.	Е
1. Close all doors below (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.	F
4. The switching is complete when the hazard lamp blinks.	
$OFF \rightarrow ON$: 2 blinks	G
$ON \rightarrow OFF$: 1 blink	Н
*1: This function does not operate on M/T models.	
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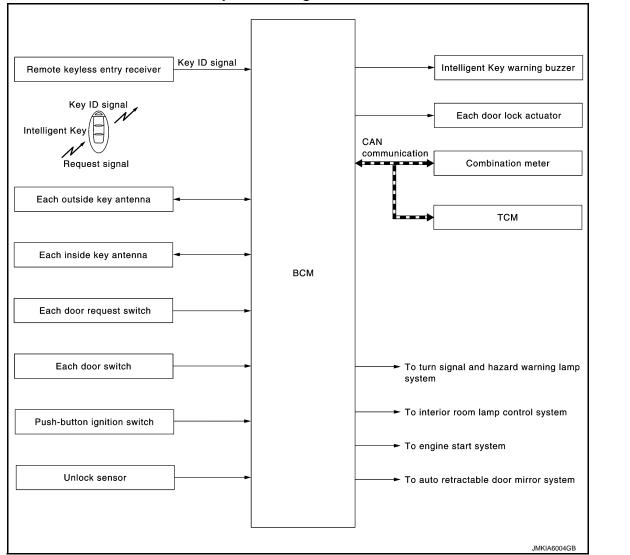
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< SYSTEM DESCRIPTION >

SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Diagram



INTELLIGENT KEY SYSTEM : System Description

INFOID:000000006551567

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

The driver should always carry the Intelligent Key

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

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the request switch	<u>DLK-205</u>
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the In- telligent Key	DLK-209
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle	DLK-211

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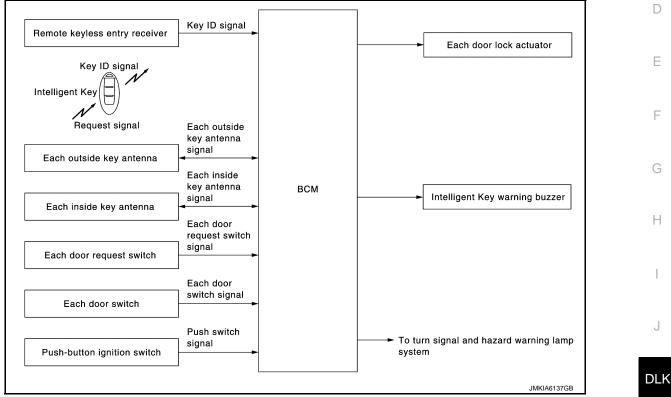
DLK-204

< SYSTEM DESCRIPTION >

Function	Description	Refer	٥
Warning	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver	DLK-212	P
Auto retractable door mirror	Door mirror operates by operation of Intelligent Key	<u>MIR-8</u>	
Engine start	The engine can be turned on while carrying the Intelligent Key	<u>SEC-14</u>	
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state	INL-6	

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram



DOOR LOCK FUNCTION : System Description

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 lock/unlock each door and blinks hazard warning lamps (lock: 1 time, unlock: 2 times) 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.

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[TYPE 2]

INFOID:00000006551568

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< SYSTEM DESCRIPTION >

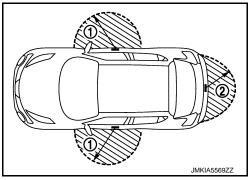
[TYPE 2]

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

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

OUTSIDE KEY ANTENNA DETECTION AREA

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



ANTI-HIJACK FUNCTION

Lock Operation

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

Unlock Operation

- When an UNLOCK signal from front door request switch (driver side) is transmitted, driver side door unlocks. When another UNLOCK signal is transmitted within 5 seconds, all door unlocks.
- When an UNLOCK signal from front door request switch (passenger side) is transmitted, all doors unlocks.
- When an UNLOCK signal from back door request switch is transmitted, back door open permission is set. When another UNLOCK signal is transmitted within 5 seconds, all door unlocks (except back door).

How to change anti-hijack mode.

With CONSULT-III

Anti-hijack mode can be set to ON or OFF using CONSULT-III.

Refer to DLK-217, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)".

Without CONSULT-III

Anti-hijack function can be set to ON/OFF by user with a registered Intelligent Keyfob.

- ON/OFF can be switched when Intelligent Key lock button and unlock button are pressed simultaneously for 5 seconds or more while steering lock is locked.
- When mode is switched, hazard warning lamp blinks.

 $OFF \rightarrow ON$: 1 blink $ON \rightarrow OFF$: 3 blinks

HAZARD REMINDER FUNCTION

Blinks hazard warning lamps as a reminder, during lock/unlock operation using door request switch.

Setting of Hazard Reminder Mode

DLK-206

< SYSTEM DESCRIPTION >

Hazard reminder setting (With CONSULT-III)		Door lock operation (with door request switch)	Hazard warning lamp blink		
OFF	Any				
		Lock	Once		
	LOCK ONLY	Unlock	_		
		Unlock (Anti-hijack)	_		
	UNLK ONLY	Lock	_		
HAZARD ANSWER BACK		Unlock	Twice		
		Unlock (Anti-hijack)	Twice (quick)		
		Lock	Once		
	LOCK/UNLK	Unlock	Twice		
		Unlock (Anti-hijack)	Twice (quick)	-	

AUTO DOOR LOCK FUNCTION

After door is unlocked by door request switch operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

	Door switch is ON (door is open)	0
Operating condition	Door is locked	
	Push switch is pressed	
Auto door look mode oon he e	hanged by the "ALITO LOCK SET" mode in "WORK SUDDORT" Defer to DLK	Н

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-</u> 219, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (Without Super Lock)".

LIST OF OPERATION RELATED PARTS

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

Door lock 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	Push-button ignition switch	Combination meter		
Door lock/unlock function		×	×	×	×	×	×	×	×		×			
Hazard reminder function								×	×	×		×		
Door lock status indicator operation									×					
Anti-hijack function				×	×	×	×		×					
Auto door lock function					×				×		×			

BACK DOOR OPEN FUNCTION

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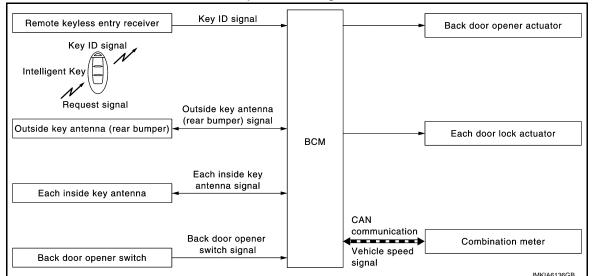
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[TYPE 2]

< SYSTEM DESCRIPTION >

BACK DOOR OPEN FUNCTION : System Diagram



BACK DOOR OPEN FUNCTION : System Description

INFOID:000000006659783

While back door open in the permitted state, back door opens when back door opener switch is pressed after back door opener request switch is operated.

BACK DOOR OPEN

- When the BCM detects that back door opener switch is pressed, it starts the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. Then, check that the Intelligent Key is near the back door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM opens back door, simultaneously unlocks all doors.

NOTE:

In anti-hijack mode, only back door opens. All doors do not unlock.

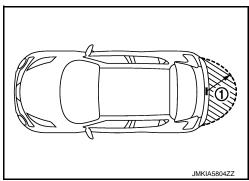
OPERATION CONDITION

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

Back door open function	Operation condition
Back door open operation	 Vehicle speed is less than 5 km/h (3 MPH) 3 seconds or more after BCM outputs all doors lock signal Intelligent Key is outside of vehicle Intelligent Key is within outside key antenna detection area

OUTSIDE KEY ANTENNA DETECTION AREA

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



LIST OF OPERATION RELATED PARTS Parts marked with \times are the parts related to operation.

DLK-208

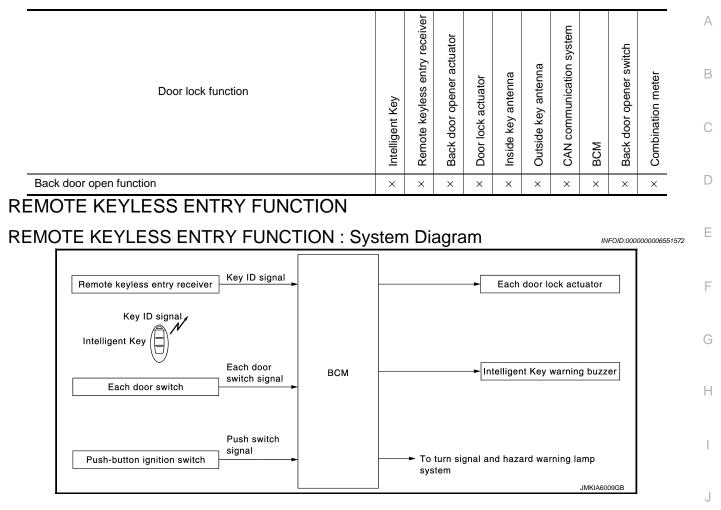
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[TYPE 2]

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REMOTE KEYLESS ENTRY FUNCTION : System Description

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
- Anti-hijack function
- Hazard reminder function
- Auto door lock

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.

DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- BCM receives the signal and compares it with the registered key ID to the vehicle.
- BCM transmits door lock/unlock signal to each door lock actuator and operates each door lock actuator, P when key ID matches. At the same time, BCM blinks hazard warning lamps (lock: 1 time, unlock: 2 times).

OPERATION CONDITION

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

DLK-209

< SYSTEM DESCRIPTION >

Remote controller operation	Operation condition
Lock	 All doors closed Ignition switch in the OFF position P position warning is not activated
Unlock	 Ignition switch is in the OFF position Intelligent Key is outside the vehicle P position warning is not activated

ANTI-HIJACK FUNCTION

- When an LOCK signal is transmitted from Intelligent Key, all doors are locked.
- When an UNLOCK signal is transmitted from Intelligent Key once, driver side door is unlocked.
- Then, if an UNLOCK signal is transmitted from Intelligent Key again within 5 seconds, all other doors (except for back door) are unlocked.

AUTO DOOR LOCK FUNCTION

After door is unlocked by Intelligent Key button operation and if 30 seconds or more passes without performing the following operation, all doors are locked. However, operation check function does not activate.

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

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-219, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (Without Super Lock)"</u>.

HAZARD REMINDER FUNCTION

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

Setting of Hazard Reminder Mode

Hazard reminder setting (With CONSULT-III)		Door lock operation (with Intelligent Keyfob)	Hazard warning lamp blink
	OFF	Any	—
		Lock	Once
	LOCK ONLY	Unlock	—
		Unlock (Anti-hijack)	—
HAZARD ANSWER BACK	UNLK ONLY	Lock	—
HAZAND ANSWEN DAON		Unlock	Twice
		Unlock (Anti-hijack)	Twice (quick)
	LOCK/UNLK	Lock	Once
		Unlock	Twice
		Unlock (Anti-hijack)	Twice (quick)

LIST OF OPERATION RELATED PARTS

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

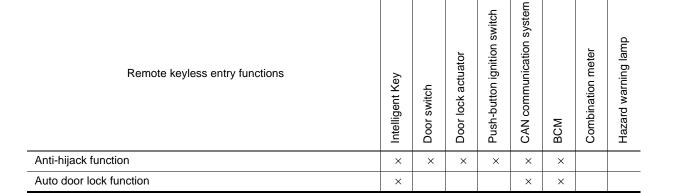
Remote keyless entry functions	Intelligent Key	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	Combination meter	Hazard warning lamp
Door lock/unlock function by remote control button	×	×	×		×	×		
Hazard reminder function	×			×	×	×	×	×



ch inside key antenna Each door switch Unlock sensor Unlock sensor Unlock sensor Description switch NDER FUNCTION : System Description s the function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition State function that prevents the key from being how the following 4 functions. Push-button ignition switch is in the OFF position Intelligent Key is inside the vehicle					
s	ignal	Each inside			
ch inside k	ey antenna	< <u> </u>	BCM		
Each doo	r switch	switch signal			
Unlock se	ensor	signal >		► Intelli	gent Key warning b
h-button ig	nition switch				ЈМК
s the fu	nction that	prevents the key	•	he vehicle.	
er func-		Operat	ion condition		Oper
oor	knob operationIgnition svIntelligent	ion under the followir vitch is in the OFF po	ng conditions osition	driver door lock	All doors unloc
	Right after d	river side door is clo	sed under the following	conditions	

KEY REMINDER FUNCTION : System Diagram

Key ID signal

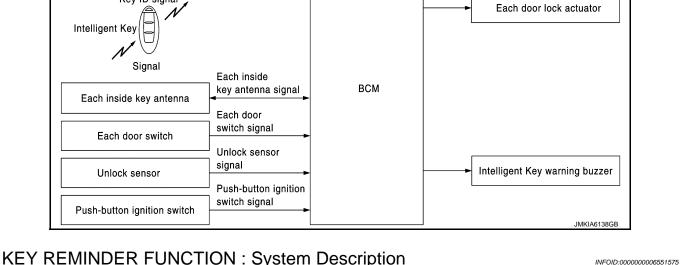


KEY REMINDER FUNCTION

Remote keyless entry receiver

Key ID signal

< SYSTEM DESCRIPTION >



Key reminder is

Key reminder ha

Key remainder func- tion	Operation condition	Operation	M
Driver side door opened	 Right after door is locked by door lock/unlock switch or driver door lock knob operation under the following conditions Ignition switch is in the OFF position Intelligent Key is inside the vehicle Driver side door is opened 	All doors unlock	Ν
Driver side door closed*	 Right after driver side door is closed under the following conditions Intelligent Key is inside the vehicle Driver side door is opened Driver side door is in unlock state 	All doors unlock	0
Door is open or closed	Right after all doors are closed under the following conditionsIntelligent Key is inside the vehicleAny door is openedAll doors are locked.	 All doors unlock Honk Intelligent Key warn- ing buzzer 	Ρ
Back door is closed	 Right after back door is closed under the following conditions Intelligent Key is inside the vehicle All doors (except back door) are closed All doors (except back door) are locked 	 All doors unlock Back door can open with back door opener switch Honk Intelligent Key warn- ing buzzer 	

[TYPE 2]

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< SYSTEM DESCRIPTION >

*: 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.

CAUTION:

 The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function 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

INFOID:000000006551576

[TYPE 2]

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, shift P warning lamp and engine start operation indicator lamp.

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

OPERATION CONDITION

Operation condition of warning and information is as per the following table.

Warning/Infor	rmation functions	Operation procedure
Intelligent Key system n	nalfunction	A malfunction is detected on BCM and key warning lamp turns ON
	For internal	Ignition switch: ACC positionDoor switch (driver side): ON (Door is open)
OFF position warning	For external*	OFF position warning (For internal) is in active mode, driver side door is closed NOTE: OFF position warning (for external) operates only when driver door is closed after each of P position warning, ACC warning, and OFF position warning (internal) sounds.
P position warning*	For internal	Shift position: Except P positionEngine is running to stopped (Ignition switch is ON to OFF)
	For external	 P position warning (For internal) operates Door switch: ON to OFF (Door is open to close) Intelligent Key cannot be detected inside the vehicle
ACC warning*		 After P position warning operates, or when ignition switch is turned ON immediately after P position warning operates Ignition switch: ACC position
	Door status changes from open to close	 Ignition switch: Except LOCK position Door switch: ON to OFF (Door is open to close) Registered Intelligent Key is not detected inside the vehicle
Take away warning	Door status is open	 Door switch: ON (Door is open) Registered Intelligent Key is not detected inside the vehicle during Key ID verification for 5 seconds
	Push button-ignition switch operation	 Ignition switch: Except LOCK position Press push-button ignition switch Registered Intelligent Key is not detected inside the vehicle
Door lock operation war	ning	When door lock operation is requested while door lock operating condition of door request switch not satisfied

DLK-212

[TYPE 2]

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< SYSTEM DESCRIPTION >

Warning/Inforr	nation functions	Operation procedure	
Engine start information Ignition switch is ON po- sition Ignition switch is except ON position	 Ignition switch: ON position Shift position: P position* Engine is stopped 		
	0	 Ignition switch: Except ON position Shift position: P position* Intelligent Key can be detected inside the vehicle 	E
Intelligent Key low battery warning		BCM detects that Intelligent Key is low battery, after ignition switch is turned ON	C
Key ID warning		 Push-button ignition switch is pressed Registered Intelligent Key is not detected inside the vehicle 	

*: M/T models do not apply.

WARNING METHOD

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

Warning/Information functions			Shift P	Warning	- Engine start operation in- dicator lamp	
		"KEY" warn- ing lamp lamp		Combination meter buzzer		
Intelligent Key system malfunction		Indicate	—	—	_	_
	For internal	—	—	Activate	-	-
OFF position warning	For external*	—	—		Activate	-
	For internal	Diple (vollow)	Indicate	Activate —		_
P position warning*	For external	Blink (yellow)	_	—	Active	-
ACC warning*		—	—	Activate	-	-
	Door is open to close		—	Activate	Activate	-
Take away warning	Door is open	Blink (yellow)	—	—	-	
raite anay narring	Push-ignition switch opera- tion	2	_	Activate	_	_
Door lock operation warning		—	—	—	Activate	_
Key ID warning		Blink (yellow)	_	—		
Engine start information		—	—	—	—	Indicate
Intelligent Key low battery warning		Blink (green)	_	_	—	—

*: M/T models do not apply.

LIST OF OPERATION RELATED PARTS

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

	arning function	Intelligent Key	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Shift P warning lamp	Engine start operation indicator lamp	"KEY" warning lamp
Intelligent Key system malfunction										×	×			×
	For internal X X X X													
OFF position warning	For external			×				×			×			

< SYSTEM DESCRIPTION >

[TYPE 2]

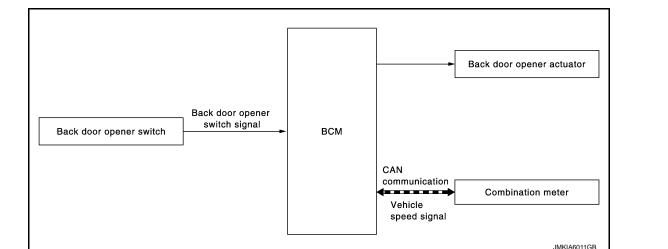
V	Varning function	Intelligent Key	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Shift P warning lamp	Engine start operation indicator lamp	"KEY" warning lamp
P position warning			×						×	×	×	×		×
ACC warning			×						Х	×	×			
	Door is open or close	×		×		×		×	×	×	×			×
Take away warning	Door is open	×		×		×				×	×			×
	Push-button ignition switch opera- tion	×	×			×			×	×	×			×
Door lock operation wa	rning	×		×	×	×	×	×			×			
Key ID warning			×			×				×	×			×
Engine start informa-	Ignition switch is ON position	×	×			×				×	×		×	
tion	Ignition switch is except ON posi- tion	×	×			×				×	×		×	
Steering lock information	Steering lock information		×							×	×			
Intelligent Key low batte	ery warning	×				×				×	×			×

BACK DOOR OPENER SYSTEM

< SYSTEM DESCRIPTION >

BACK DOOR OPENER SYSTEM

System Diagram



System Description

INFOID:000000006554241 G

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM operates back door opener actuator. **NOTE:**

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

OPERATION CONDITION

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

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

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.

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[TYPE 2]

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DIAGNOSIS SYSTEM (BCM) COMMON ITEM

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

INFOID:000000006748144

APPLICATION ITEM

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

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

Sustam	Sub overteen collection item	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 timer	INT LAMP	×	×	×				
Exterior lamp	HEAD LAMP	×	×	×				
Wiper and washer	WIPER	×	×	×				
Turn signal and hazard warning lamps	FLASHER	×	×	×				
Automatic A/CManual A/C	AIR CONDITONER		×	×* ²				
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×				
Combination switch	COMB SW		×					
Body control system	BCM	×						
NVIS - NATS	IMMU	×	×	×				
Interior room lamp battery saver	BATTERY SAVER	×	×	×				
Back door open	TRUNK		×					
Theft warning alarm	THEFT ALM	×	×	×				
_	RETAINED PWR*1		×					
Signal buffer system	SIGNAL BUFFER		×	×				

NOTE:

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

• *2: For models with automatic A/C, this diagnosis mode is not used.

FREEZE FRAME DATA (FFD)

< SYSTEM DESCRIPTION >

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

CONSULT screen item	Indication/Unit		Description
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
	SLEEP>LOCK	_	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"
	ACC>ON		While turning power supply position from "ACC" to "IGN"
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN	-	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emer- gency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF"
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"
Vehicle Condition	OFF>ACC	Power position status of the moment a particular DTC is detected	While turning power supply position from "OFF" to "ACC"
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power supply posi- tion is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply posi- tion is "LOCK".) to low power consumption mode
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steer- ing is locked.)
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)
	CRANKING		Power supply position is "CRANKING" (At engine cranking)
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition 	
		whenever ignition switThe number is fixed to	\rightarrow 39 until the self-diagnosis results are erased if it is over 39.

DOOR LOCK

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)

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BCM CONSULT-III FUNCTION

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

WORK SUPPORT

DLK-217

< SYSTEM DESCRIPTION >

Monitor item	Description
DOOR LOCK-UNLOCK SET	Anti-hijack 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 10 km/h (6 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 the mode MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2*: All doors are unlocked when shifting the selector lever from any position other than the P to P position MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 4*: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position 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 monitored MODE 6: This item is displayed, but cannot be monitored
AUTOMATIC LOCK/UNLOCK SET	 Automatic door lock/unlock function mode can be selected from the following in this mode Off: Non-operational Unlock Only: Door unlock operation only Lock Only: Door lock operation only Lock/Unlock: Lock and unlock operation

*: P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

DATA MONITOR

Monitor Item	Contents
REQ SW-DR	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-BD/TR	Indicated [On/Off] condition of back door request switch
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK	Indicated [On/Off] condition of back door switch
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW	NOTE: This item is displayed, but cannot be monitored
KEY CYL UN-SW	NOTE: This item is displayed, but cannot be monitored
SHOCK SENSOR	 Indicates [NOMAL/ON/OFF] condition of circuit between BCM and air bag diagnosis sensor unit NORMAL: Ignition switch ON. (BCM is receiving normal condition signal from air bag diagnosis sensor unit.) ON: During the receiving of air bag signal from air bag diagnosis sensor unit OFF: After the receiving of air bag signal from air bag diagnosis sensor unit

ACTIVE TEST

< SYSTEM DESCRIPTION >

[TYPE 2]

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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-III screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched The back door lock actuator is unlocked when "BD UNLK" on CONSULT- III screen is touched* The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT-III screen is touched* 	B
SUPER LOCK	NOTE: This item is displayed, but cannot be monitored	
DOOR LOCK IND	NOTE: This item is displayed, but cannot be monitored	D

*: BD UNLK function does not operate.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (Without Super Lock)

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 monitored
PANIC ALARM SET	NOTE: This item is displayed, but cannot be monitored
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be monitored
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operation with this mode On: Operate Off: Non-operation
ANTI KEY LOCK IN FUNCTI	 Key reminder function mode can be changed to operation with this mode On: Operate Off: 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

DLK-219

< SYSTEM DESCRIPTION >

Monitor item	Description
SHORT CRANKING OUTPUT	Starter motor can operate during the times below • 70 msec • 100 msec • 200 msec
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
ANSWER BACK FUNCTION	 Buzzer reminder function mode by Intelligent Key button can be selected from the following with this mode On: Operate Off: Non-operation
TAKE OUT FROM WIN WARN SET	NOTE: This item is indicated, but not used
RETRACTABLE MIRROR SET	Auto retractable door mirror function mode can be changed to operation with this modeOn: OperateOff: Non-operation

SELF-DIAG RESULT Refer to <u>BCS-67, "DTC Index"</u>.

DATA MONITOR

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW* ¹	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]* ² 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	Indicates [On/Off] condition of steering lock unit (LOCK)
S/L -UNLOCK	Indicates [On/Off] condition of steering lock unit (UNLOCK)
S/L RELAY -F/B	Indicates [On/Off] condition of steering lock relay
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
S/L LOCK-IPDM	Indicates [On/Off] condition of steering lock unit (LOCK)
S/L UNLK-IPDM	Indicates [On/Off] condition of steering lock unit (UNLOCK)

DLK-220

< SYSTEM DESCRIPTION >

[TYPE	2]
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Monitor Item	Condition
S/L RELAY-REQ	Indicates [On/Off] condition of steering lock relay
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 driver side door status
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	NOTE: This item is displayed, but cannot be monitored
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

^{*1}: It is displayed but does not operate on CVT models.

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

ACTIVE TEST

Test item	Description
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-III screen is touched Key: Key warning chime sounds when CONSULT-III screen is touched Knob: OFF position warning chime sounds when CONSULT-III screen is touched Off: Non-operation
INDICATOR	 This test is able to check warning lamp operation KEY ON: "KEY" Warning lamp illuminates when CONSULT-III screen is touched KEY IND: "KEY" Warning lamp blinks when CONSULT-III 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 >

[TYPE 2]
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Test item	Description
LCD	 This test is able to check meter display information BP N: Engine start operation indicator lamp indicate when CONSULT-III screen is touched BP I: Engine start operation indicator lamp indicate when CONSULT-III screen is touched ID NG: This item is displayed, but cannot be monitored ROTAT: This item is displayed, but cannot be monitored SFT P: Shift P warning lamp indicate when CONSULT-III screen is touched INSRT: This item is displayed, but cannot be monitored BATT: Key warning lamp indicator when CONSULT-III screen is touched NO KY: Key warning lamp indicator when CONSULT-III screen is touched OUTKEY: Engine start operation indicator lamp indicate when CONSULT-III screen is touched LK WN: Engine start operation indicator lamp indicate when CONSULT-III screen is touched
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after "LH/RH/Off" on CONSULT-III screen is touched
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-ignition switch illumination operation Push-ignition switch illumination illuminates when "ON" on CONSULT-III screen is touched
PUSH SWITCH INDICATOR	This test is able to check LOCK indicator in push-ignition switch operation LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT-III screen is touched
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT-III screen is touched.
TRUNK/BACK DOOR	This test is able to check back door opener actuator open operation. This actuator opens when "Open" on CONSULT-III screen is touched.
	This test is able to check auto retractable door mirror operationOn: OperateOff: Non-operation

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK) (Without Super Lock)

INFOID:000000006548667

DATA MONITOR

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.
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

ECU DIAGNOSIS INFORMATION BCM

List of ECU Reference

ECU	Reference	
	BCS-41, "Reference Value"	
всм	BCS-64, "Fail-safe"	
	BCS-66. "DTC Inspection Priority Chart"	D
	BCS-67, "DTC Index"	

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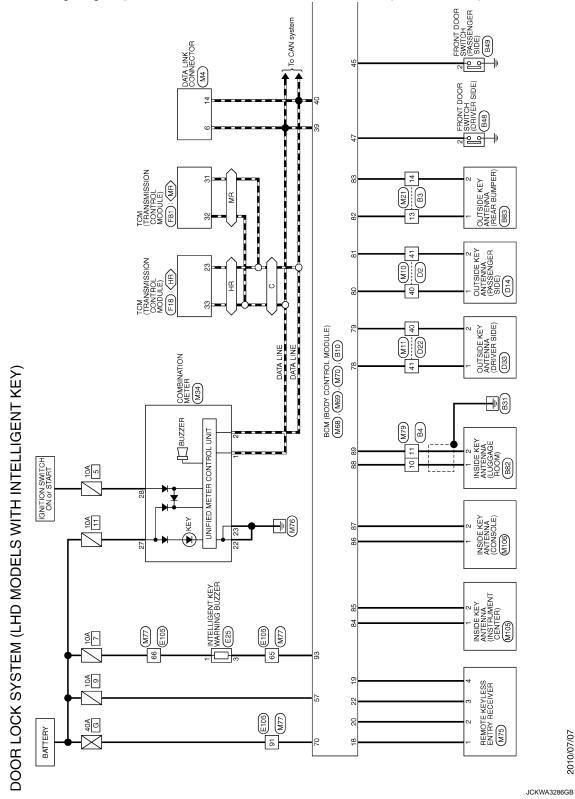
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WIRING DIAGRAM DOOR & LOCK SYSTEM

Wiring Diagram

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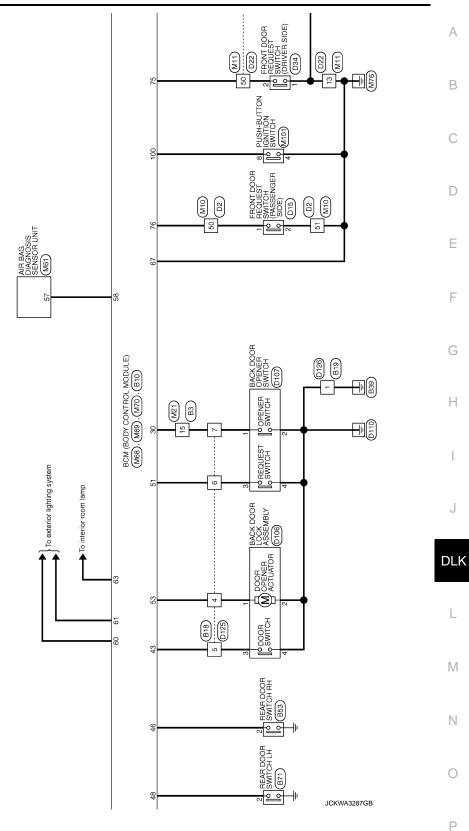
For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to <u>GI-12</u>, "<u>Connector Information/Explanation of Option Abbreviation</u>".

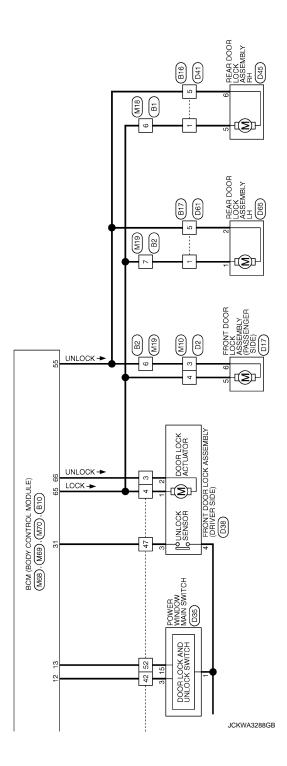


DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 2]



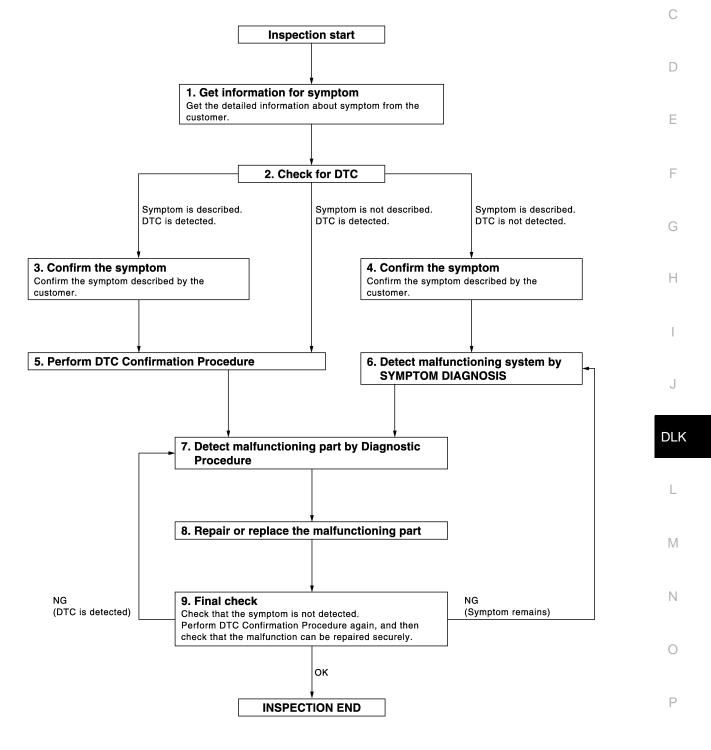


< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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< 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 occurred).
- 2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2.CHECK FOR DTC

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

Are any symptoms described or any DTC detected?

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer. Connect CONSULT-III to the vehicle in the "DATA MONITOR" mode and check real time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in the "DATA MONITOR" mode and check real time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to <u>BCS-66, "DTC Inspection Priority Chart"</u> (BCM) determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 7.

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

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

>> GO TO 7.

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system. **NOTE:**

DLK-228

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION > [TYPE 2]	
The Diagnostic Procedure described is based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.	A
Is malfunctioning part detected?	
YES >> GO TO 8. NO >> Check voltage of related BCM terminals using CONSULT-III.	В
8. REPAIR OR REPLACE THE MALFUNCTIONING PART	
 Repair or replace the malfunctioning part. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement. 	С
3. Check for DTC. If DTC is displayed, erase it.	
	D
>> GO TO 9.	
9.FINAL CHECK	E
When DTC is detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction is completely repaired. 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
Does the symptom reappear?	
YES (DTC is detected)>>GO TO 7. YES (Symptom remains)>>GO TO 6. NO >> INSPECTION END	G
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DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III 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) Between BCM ~ Inside key antenna (instrument center)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

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

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

Diagnosis Procedure

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1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		()	Condition	Signal (Reference value)
Connector	Terminal			
M70	84		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 10 5 0 15 10 5 0 15 10 5 0 15 10 5 0 15 15 10 5 0 15 15 15 15 15 15 15 15 15 15 15 15 15
WF O	85	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 5 11 5 11 11 11 11 11 1

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-93, "Removal and Installation".

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector and inside key antenna (instrument center) connector.
- 3. Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

BCM		Inside key antenna	(instrument center)	Continuit
Connector	Terminal	Connector	Terminal	Continuity
1470	84	M105	1	Existed
M70	85	M105 2		- Existed
Check continuity be	etween BCM harness	connector and groun	nd.	
Check continuity be	etween BCM harness	connector and groun	nd.	
Check continuity be Connector		al		Continuity
	BCM	al	Ground	Continuity Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM			a	Signal
		(–) Condition	(Reference value)	
Connector	Terminal			
M70	84	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 1 1 5 0 1 1 5 0 1 1 1 5 1 1 1 1
W17 U	85	Giouna		(1)
			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 1111111111111111111 0 → <
				JMKIA3838GB

Is the inspection result normal?

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

NO >> Replace BCM. Refer to <u>BCS-93. "Removal and Installation"</u>.

[TYPE 2]

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B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2622 INSIDE ANTENNA

DTC Logic

INFOID:000000006605832

INFOID:000000006605833

DTC DETECTION LOGIC

DTC	CONSULT-III 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) Between BCM ~ Inside key antenna (console)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 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-232</u>, "Diagnosis Procedure".
- NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

1. CHECK INSIDE 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					
М70	86		When Intelligent Key is in the an- tenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB		
W/O	87	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1111111111111111111111111111		

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.

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

DLK-232

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BCM			In	nside key ant	enna (console)	Continuity	
Connector		Terminal	Conn	ector	Term	inal	Continuity	
M70		86 87	M1	06	1		_ Existed	
heck continu	uity between	BCM harness	connector	and grour	nd.			
	BCM							
Connector		onnector Terminal					Continuity	
		86			Ground			
M70		87					Not existed	
eplace inside	e key antenr	NNA INPUT S a (console). (N nd inside key a	New anteni					
urn ignition s	witch ON.	M harness con				scope.		
urn ignition s	witch ON. between BC	-				scope.	0	
urn ignition s Check signal l	witch ON. between BC	-			sing oscillo		Signal Reference value)	
urn ignition s Check signal (+ BC	witch ON. between BC	W harness con	Nector and	d ground u Condition	n v is in the an-		•	

NO >> Replace BCM. Refer to <u>BCS-93. "Removal and Installation"</u>.

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B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2623 INSIDE ANTENNA

DTC Logic

INFOID:000000006605834

INEOID:000000006605835

DTC DETECTION LOGIC

DTC	CONSULT-III 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) Between BCM ~ Inside key antenna (luggage room)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 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-234, "Diagnosis Procedure".
- NO >> Inside key antenna (luggage room) is OK.

Diagnosis Procedure

1.CHECK INSIDE 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			
M70	88		When Intelligent Key is in the an- tenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
M/O	89	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 11 1 s JMKIA5951GB

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93. "Removal and Installation"</u>.

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.

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

DLK-234

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

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

 Continuity	na (luggage room)	BCM Inside key antenna (luggage room)			
- Continuity	Terminal	Connector	Terminal	Connector	
 Existed	1	B82	88	M70	
EXISTED	2	DOZ	89	IVI7 U	

4. Check continuity between BCM harness connector and ground.

B	СМ		Continuity	D
Connector	Terminal	Cround	Continuity	D
M70	88	Ground	Not existed	
WI7 U	89		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 (luggage room). (New antenna or other antenna)
- 2. Connect BCM connector and inside key antenna (luggage room) connector.
- 3. Turn ignition switch ON.
- 4. Check signal between BCM harness connector and ground using oscilloscope.

(+ BC		(_)	Condition	Signal		
Connector	Terminal	()	Condition	(Reference value)		
MZO	88	Ground	When Intelligent Key is in the an- tenna detection area	(V) 15 10 5 0 15 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10		
M70	89	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA5951GB		

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room).

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

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[TYPE 2]

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B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2626 OUTSIDE ANTENNA

DTC Logic

INFOID:000000006605836

INFOID:000000006605837

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC detecting condition	Possible cause
B2626	OUTSIDE ANTENNA	An excessive high or low voltage from outside key antenna (driver side) is sent to BCM	 Outside key antenna (driver side) Between BCM ~ Outside key antenna (driver side)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Disconnect outside key antenna (driver side) connector.
- 2. Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is outside key antenna DTC detected?

- YES >> Refer to <u>DLK-236</u>, "Diagnosis Procedure".
- NO >> Outside key antenna (driver side) is OK.

Diagnosis Procedure

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

	+) CM	(—)	Con	dition	Signal (Reference value)
Connector	Terminal				
M70	78	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
M/O	79	Giouna	ated with ignition switch OFF	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-93, "Removal and Installation"</u>.

NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and outside key antenna (driver side) connector.

2. Check continuity between BCM harness connector and outside key antenna (driver side) harness connector.

B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Connector	BCM	0	utside key ante	nna (driver side)	Continuity	
	Ter	minal Cor	nnector	Terminal	Continuity	
M70		78 79	D33 -	1 2	Existed	
Check continuity	between BC	M harness connecto	or and groun	d.		
	BCM				0	
Connector		Terminal		Ground -	Continuity	
M70		78 79			Not existed	
HECK OUTSID	3. r replace har E KEY ANTE	NNA INPUT SIGNAI				
Connect BCM co Check signal be	onnector and	(driver side). (New a outside key antenna harness connector ar	a (driver side	e) connector.	2.	
(+)					Signal	
BCM Connector Termin	(-)	Cor	ndition	(Reference value)		
78	Ground	When the driver door request switch is oper- ated with ignition	When Intellig is in the ante tection area tance betwee Intelligent Ke tenna: 80 cm	nna de-15 (The dis-5 en 0 ey and an-		
M(Z()		aled with ignition				
M70 79		switch OFF	When Intellig is not in the a detection are distance betw telligent Key tenna: Appro	antenna 15 ea (The 5 ween In- 0 and an-		
e inspection resu S >> Replace	outside key		is not in the a detection are distance betw telligent Key tenna: Appro	antenna 15 ea (The 5 ween In- 0 and an- ix. 2 m)	→	

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2627 OUTSIDE ANTENNA

DTC Logic

INFOID:000000006605838

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC detecting condition	Possible cause
B2627	OUTSIDE ANTENNA	An excessive high or low voltage from outside key antenna (passenger side) is sent to BCM	 Outside key antenna (passenger side) Between BCM ~ Outside key an- tenna (passenger side)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Disconnect outside key antenna (passenger side) connector.
- 2. Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is outside key antenna DTC detected?

YES >> Refer to <u>DLK-238</u>, "Diagnosis Procedure".

NO >> Outside key antenna (passenger side) is OK.

Diagnosis Procedure

INFOID:000000006605839

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

	+) CM	()	Con	dition	Signal (Reference value)
Connector	Terminal				(
M70	80	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
W/O	81	Giouna	ated with ignition switch OFF	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-93, "Removal and Installation".

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NO >> GO TO 2.
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2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and outside key antenna (passenger side) connector.

2. Check continuity between BCM harness connector and outside key antenna (passenger side) harness connector.

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

	BC	M		Outsi	ide key anten	na (passenge	r side)	Continuity
Con	nector	Tern	ninal	Con	nector	Tern	ninal	Continuity
N	170	80		D14			1	Existed
		8	31			2	Existed	
Check c	ontinuity be	tween BC	M harness o	connecto	r and groui	nd.		
		BCM						
C	onnector		Terminal		-	Ground		Continuity
	M70		80			Ground		Not existed
			81					
ES >> 0 O >> 1 CHECK 0 Replace	outside key	place harr EY ANTEI y antenna	ness. NNA INPUT (passenger outside key	side). (N	lew antenn			
Check s	ignal betwe	en BCM h	arness conr	nector an	id ground u	ising oscillo	scope.	
	CM	()		Con	dition		(5	Signal
		· · /	Cond					
Connector	Terminal						(R	eference value)
	80	Ground	When the dri request swite	ch is oper-	When Intelli is in the ant tection area tance betwe Intelligent K tenna: 80 cr	enna de- (The dis- en ey and an-	(V) 15 10 5 0	
M70		Ground		ch is oper-	is in the ant tection area tance betwe Intelligent K	enna de- (The dis- en ey and an- n or less) gent Key antenna ea (The ween In- y and an-	(V) 15 10 5 0 (V) 15 10 5 0 (V) 15 10 5 0 15 10 10 15 10 10 15 10 10 15 10 10 10 10 10 10 10 10 10 10	JMKIA5955GB

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2628 OUTSIDE ANTENNA

DTC Logic

INFOID:000000006605840

INFOID:000000006605841

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC detecting condition	Possible cause
B2623	OUTSIDE ANTENNA	An excessive high or low voltage from outside key antenna (rear bumper) is sent to BCM	 Outside key antenna (rear bumper) Between BCM – Outside key an- tenna (rear bumper)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Disconnect outside key antenna (rear bumper) connector.
- 2. Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is outside key antenna DTC detected?

YES >> Refer to <u>DLK-240, "Diagnosis Procedure"</u>.

NO >> Outside key antenna (rear bumper) is OK.

Diagnosis Procedure

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

	+) CM Terminal	()	Con	dition	Signal (Reference value)
M70	82	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
W70	83	Ground	ated with ignition switch OFF	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-93. "Removal and Installation".

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.

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Connector Terminal Connector Terminal Continuity M70 82 B83 1 Existed Check continuity between BCM harness connector and ground. Existed Existed Connector Terminal Ground Continuity M70 82 Ground Continuity M70 82 Ground Not existed M70 82 Ground Not existed M70 82 Ground Not existed M70 82 Ground Replace outside key antenna (rear bumper). (New antenna or other antenna) Condition Connector Terminal (-) Condition Signal (Reference value) (+) ECM Condition Signal (Reference value) Signal (Reference value) (+) Condition Signal (Reference value) Signal (Reference value) Signal (Reference value) M70 82 Ground When the driver door request switch Gore ate with ignition switch OFF When Intelligent Key and antenna detection area (The distance between Intelligent Key and antenna (rear bumper). Monosesson M70 82 Ground Ground (request sw		nector	Torn		·····	nna (rear bumper)		Continuity
M70 B3 2 Existed Check continuity between BCM hamess connector and ground. BCM Continuity M70 B2 Ground Continuity M70 82 Other and the inspection result normal? BCS So GO TO 3. C0 >> Repair or replace harness. Check Courtside key antenna (rear bumper). (New antenna or other antenna) Connector. Check signal between BCM harness connector and ground using oscilloscope. Condition Signal (Reference value) (+) (-) Condition Signal (Reference value) (+) (-) Condition Signal (Reference value) (model and outside key antenna (rear bumper). (Nhen Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	М		Terri	ninal Cor	nnector	Terminal		Continuity
2 Check continuity between BCM harness connector and ground. Connector Continuity Continuity Continuity Continuity Continuity Continuity Continuity Continuity Continuity M70 82 BCM Continuity Continuity Continuity Continuity M70 82 Continuity M70 Context signal (rear bumper). (New antenna or other antenna) Contition Signal (Reference value) M70 82 Ground When the driver door request switch is oper atext with is oper atext witch is oper	IVI	70	8	2	B83	83 Existed		Existed
BCM Continuity M70 82 Ground Continuity M70 82 Not existed he inspection result normal2 BS S O ES >> GO TO 3. O >> Repair or replace harness. Check Signal between BCM Not existed Connector Condition Condition Signal (Reference value) (+) (-) Condition Signal (Reference value) (*) (-) (-) Condition Signal (Reference value) (*) (*) (*) (*) <t< td=""><td></td><td>10</td><td>8</td><td>3</td><td>200</td><td>2</td><td></td><td>Existed</td></t<>		10	8	3	200	2		Existed
Connector Terminal Ground Continuity M70 82 Not existed Not existed me inspection result normal? 83 Not existed Not existed S >> GO TO 3. > Sepair or replace harness. Sepair or replace harness. Sepair or replace harness. Sepair or replace harness. Check OUTSIDE KEY ANTENNA INPUT SIGNAL 2 Replace outside key antenna (rear bumper). (New antenna or other antenna) Connector. Connector Terminal (-) Condition Signal (Reference value) (+) BCM (-) Condition Signal (Reference value) (mathematic the driver door request switch is operated with ignition switch OFF When Intelligent Key and antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	Check co	ontinuity be	etween BC	M harness connecto	or and groui	nd.		
Connector Terminal Ground Continuity M70 82 Not existed Not existed me inspection result normal? S >> GO TO 3. Not existed D >> Repair or replace harness. Continuity Not existed Check OUTSIDE KEY ANTENNA INPUT SIGNAL 2 Replace outside key antenna (rear bumper). (New antenna or other antenna) Connector. Connector Terminal (-) Condition Signal (Reference value) (+) ECM (-) Condition Signal (Reference value) (monector Terminal (-) Condition Signal (Reference value) (monector Terminal (-) Condition Signal (Reference value) (monector Terminal (-) Condition Signal (Reference value) (monector (-) Condition Signal (Reference value) (-) (monector) (-) Condition Signal (Reference value) (-) (monector) (-) Condition (-) (-) (-) (monector) (-) Condition (-) (-) (-)			BCM					
M70 82 M70 83 Not existed	C	onnector	DOM	Terminal			С	ontinuity
B3 he inspection result normal? ES >> GO TO 3. D >> Repair or replace harness. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2 Replace outside key antenna (rear bumper). (New antenna or other antenna) Connect BCM and outside key antenna (rear bumper) connector. Check signal between BCM harness connector and ground using oscilloscope. (+) Condition BCM (-) Connector Terminal M70 82 83 Ground When the driver door request switch is oper- request switch is oper- reted with ignition switch OFF When Intelligent Key and an- tenna: 80 cm or less) M70 82 83 Ground When the driver door switch OFF When Intelligent Key and an- tenna: Approx.2 m) (1) 15 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					_	Ground		
ES >> GO TO 3. D >> Repair or replace harness. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2 Replace outside key antenna (rear bumper). (New antenna or other antenna). Connect BCM and outside key antenna (rear bumper) connector. Check signal between BCM harness connector and ground using oscilloscope. (+) (-) Condition Signal (Reference value) Connector Terminal (-) Condition (Reference value) () M70 82 83 Ground When the driver door request switch is operated with ignition switch OFF When Intelligent Key and antenna (rear the distance between Intelligent Key and antenna: 80 cm or less)		M70					No	ot existed
ES >> GO TO 3. D >> Repair or replace harness. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2 Replace outside key antenna (rear bumper). (New antenna or other antenna). Connect BCM and outside key antenna (rear bumper) connector. Check signal between BCM harness connector and ground using oscilloscope. (+) (-) Condition Signal (Reference value) Connector Terminal (-) Condition (Reference value) () M70 82 83 Ground When the driver door request switch is operated with ignition switch OFF When Intelligent Key and antenna: 80 cm or less) Uhen Intelligent Key and antenna: Approx. 2 m) UMMASSEGE M70 82 Ground When the driver door request switch is operated with ignition switch OFF When Intelligent Key and antenna: Approx. 2 m) UMMASSEGE Ummeassed Ummeassed M70 82 Ground BC Ground When the driver door request switch is operated with ignition switch OFF When Intelligent Key and antenna: Approx. 2 m) Ummeassedem intelingent Key and antenena: Approx. 2 m)	e inspec	tion result r	normal?					
(+) Condition Signal (Reference value) Connector Terminal (-) Condition Signal (Reference value) M70 82 83 Ground When the driver door request switch is oper- ated with ignition switch OFF When Intelligent Key is in the antenna de- tection area (The dis- tance between In- tenna: 80 cm or less) JMKLASSESCIB M70 82 83 Ground When the driver door request switch is oper- ated with ignition switch OFF When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m) JMKLASSESCIB Determine JMKLASSESCIB JMKLASSESCIB JMKLASSESCIB NMILASSESCID When Intelligent Key is not in the antenna detection area (The distance between In- tenna: Approx. 2 m) JMKLASSESCIB Determine JMKLASSESCIB JMKLASSESCIB JMKLASSESCIB S >> Replace outside key antenna (rear bumper). JMKLASSESCIB) >> F HECK C Replace Connect	Repair or re OUTSIDE K outside ke BCM and o	EY ANTER y antenna outside key	NNA INPUT SIGNA (rear bumper). (Nev y antenna (rear bum	v antenna o nper) conne	ctor.		
BCM (-) Condition Signal (Reference value) Connector Terminal (-) Condition Signal (Reference value) M70 82 83 Ground When the driver door request switch is oper- ated with ignition switch OFF When Intelligent Key and an- tenna: 80 cm or less) (V) (15 10 50 0 50 0 50 0 50 0 50 0 50 0 50		-			J. J. S.		P	
Connector Terminal (Reference value) M70 82 83 Ground When the driver door request switch is oper- ated with ignition switch OFF When Intelligent Key is in the antenna de- tection area (The distance between In- telligent Key and an- tenna: Approx. 2 m) (V) M70 82 83 Ground When the driver door request switch is oper- ated with ignition switch OFF When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m) (V) M6 M6 M6 M6 M7 M70 82 83 Ground When the driver door request switch is oper- ated with ignition switch OFF When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m) (V) M6 M6 M6 M6 M6 M6 M6 M6 M6 M6 M6 M6 M6 M6 M6 M6				0	`4`		Sigr	al
M70 82 83 Ground When the driver door request switch is oper- ated with ignition switch OFF When Intelligent Key and an- tenna: 80 cm or less) Image: Comparison of the dis- tance between Intelligent Key and an- tenna: 80 cm or less) M70 82 83 Ground When the driver door request switch is oper- ated with ignition switch OFF When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m) Image: Comparison of the distance between In- telligent Key and an- tenna: Approx. 2 m) he inspection result normal? ES >> Replace outside key antenna (rear bumper).			()	Cor	allion		(Reference value)	
M70 82 83 Ground When the driver door request switch is oper- ated with ignition switch OFF When the driver door request switch is oper- ated with ignition switch OFF When Intelligent Key and an- tenna: 80 cm or less) Image: Comparison of the second source of the second of	Johnector	Terrinidi						
83 ated with ignition switch OFF 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 11 10 11 111 10 11 111 10 11 111 10 11 111 10 11 111 10 11 111 10 10 10 10 11 111 10 11 111 10 11 111 10 11 111 10 11 111 10 11 111 11 11 111 11 11 111 12 13 14 13 14 14 14 14 14 15 15 15 15 15 14 16 15 15 17 18 14 18 19 14 19	MZO	82	Ground	request switch is oper-	is in the ant tection area tance betwee Intelligent K tenna: 80 cr	enna de- (The dis- een ey and an-		JMKIA5955GB
ES >> Replace outside key antenna (rear bumper).	WIG	83	ated with ignition		is not in the detection ar distance be telligent Key	antenna ea (The tween In- y and an-		
		tion result r	normal?			l.		
	<u>e inspe</u> c			antenna (rear bumpe	er).			
	S >> F					llation".		

BACK DOOR OPENER ACTUATOR

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "TRUNK/BACK DOOR" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item		Status	
TRUNK/BACK DOOR	OPEN	Back door	OPEN

Is the inspection result normal?

- YES >> Back door opener actuator is OK.
- NO >> Refer to <u>DLK-242</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006605843

1. CHECK BACK DOOR OPENER ACTUATOR 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.

	+) ock assembly	()	Condition		Condition		Voltage (Approx.)	
Connector	Terminal				() ()			
D106	1	Ground	Back door opener switch	ON	12 V			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK BACK DOOR OPENER ACTUATOR CIRCUIT

1. Disconnect BCM connector.

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

В	BCM		Back door lock assembly	
Connector	Terminal	Connector	Terminal	Continuity
B10	53	D106	1	Existed

3. Check continuity between BCM harness connector and ground.

BC	CM		Continuity
Connector	Terminal	Ground	Continuity
B10	53		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.
- NO >> Repair or replace harness.

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

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

BACK DOOR OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Back door loo	ck assembly		Continuity	-
Connector	Terminal	Ground	Continuity	
D106	2		Existed	_
the inspection normal? YES >> Replace back doo NO >> Repair or replace	or lock assembly. Refer to harness.	BCS-93, "Removal and In	<u>stallation"</u>	_

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BACK DOOR OPENER SWITCH

Component Function Check

1.CHECK FUNCTION

- 1. Select "TRUNK" of "BCM" using CONSULT-III.
- 2. Select "TR/BD OPEN SW" in "ĎATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TR/BD OPEN SW	Back door opener switch	Pressed	ON
IN/BD OF EN SW		Released	OFF

Is the inspection result normal?

- YES >> Back door opener switch is OK.
- NO >> Refer to <u>DLK-244</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006605845

1. CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL

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

	+) pener switch	()	Signal (Reference value)	
Connector	Terminal	-	(Reference value)	
D107	1	Ground	(V) 15 10 5 0 10 ms JPMIA0012GB	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK BACK DOOR OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.

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

В	BCM		Back door opener switch	
Connector	Terminal	Connector	Terminal	Continuity
M68	30	D107	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Connector Terminal		Continuity	
M68	30		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

NO >> Repair or replace harness.

INFOID:00000006605844

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

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

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

Back door o	pener switch		Continuity	
Connector	Terminal	Ground	Continuity	
D107	2		Existed	
s the inspection result norma	al?			
YES >> GO TO 4.				
NO >> Repair or replace				
4.CHECK BACK DOOR OF	PENER SWITCH			
Refer to <u>DLK-245, "Compone</u>	ent Inspection".			
s the inspection result norma	al?			
YES >> GO TO 5.				
-		to BCS-93, "Removal and	Installation".	
5. CHECK INTERMITTENT	INCIDENT			
Refer to GI-42, "Intermittent I	Incident".			
>> INSPECTION EI	ND			
Component Inspection			INF0ID:00000006605846	
1. CHECK BACK DOOR OF	PENER SWITCH			
1. Turn ignition switch OFF				
Disconnect back door op				

3. Check continuity between back door opener switch terminals.

Back door opener switch		Condition		Continuity	J	
Terr	ninal	Condition		Continuity		
4	2	Back door opener	Pressed	Existed	D	
Ι	2	switch	Released	Not existed	DLI	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch.

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BACK DOOR REQUEST SWITCH

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "REQ SW-BD/TR" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
REQ SW-BD/TR	Back door request switch	Pressed	On
		Released	Off

Is the inspection result normal?

- YES >> Back door request switch is OK.
- NO >> Refer to <u>DLK-246, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000006605848

1. CHECK BACK DOOR REQUEST SWITCH INPUT SIGNAL

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

Back door o	+) pener switch	()	Voltage (Approx.)
Connector	Terminal		(Approx.)
D107	3	Ground	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK BACK DOOR REQUEST SWITCH CIRCUIT

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

B	СМ	Back door o	pener switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M68	51	D107	3	Existed

3. Check continuity between BCM harness connector and ground.

ВС	CM		Continuity
Connector	Terminal	Ground	Continuity
M68	51		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

NO >> Repair harness or connector.

3.CHECK BACK DOOR REQUEST SWITCH GROUND CIRCUIT

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

Back door o	pener switch		Continuity
Connector	Terminal	Ground	Continuity
D107	4		Existed

INFOID:000000006605847

[TYPE 2]

BACK DOOR REQUEST SWITCH

DACK D			
< DTC/CIRCUIT DIAGNOSIS >		[TYPE 2]	
Is the inspection result normal?			
YES >> GO TO 4.			А
NO >> Repair or replace harness.			
4. CHECK BACK DOOR REQUEST SWITC	CH		D
Refer to DLK-247, "Component Inspection".			D
Is the inspection result normal?			
YES >> GO TO 5.			С
NO >> Replace back door opener swite	ch.		
5. CHECK INTERMITTENT INCIDENT			
Refer to GI-42, "Intermittent Incident".			D
>> INSPECTION END			Е
Component Inspection		INFOID:00000006605849	
1.CHECK BACK DOOR REQUEST SWITC	СН		F
1. Turn ignition switch OFF.			
 Disconnect back door opener switch con Check continuity between back door op 			0
5. Check continuity between back door op			G
Back door opener switch	Condition	Continuity	
Terminal	Conduon	Continuity	Н

Terminal		_
3 / B	Back door request switch	sed Existed
5 7 6	Relea	ased Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch.

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BUZZER (COMBINATION METER)

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "INSIDE BUZZER" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

	Monitor item		Sta	atus
	Take Out	ON	Take away warning	Buzzer sounds
INSIDE BUZZER		OFF	Take away warning	Buzzer does not sound
INSIDE BOZZER	Kov	ON		Buzzer sounds
	Key	OFF	 OFF position warning 	Buzzer does not sound

Is the inspection result normal?

Yes >> Buzzer (combination meter) is OK.

No >> Refer to <u>DLK-248, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK 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:000000006605850

INFOID:000000006605851

< DTC/CIRCUIT DIA	GNOSI		R LOCK		FOR	[TYPE 2]
DOOR LOCK / DRIVER SIDE	ACTU.	ATOR				
DRIVER SIDE :	Compo	onent Func	tion Che	eck		INF01D:00000006605855
1.CHECK FUNCTION	N					
 Select "DOOR L Select "DOOR L Select that the full 	DCK" in	"ACTIVE TES	T" mode.		owing conditior	IS.
	Monito	r item			Sta	tus
		ALL LO	СК			LOCK
DOOR LOCK		ALL UN	ILK	Door lock act	uators	UNLOCK
Is the inspection result YES >> Door loc NO >> Refer to DRIVER SIDE : 1.CHECK DOOR LOC	c actuato <u>DLK-249</u> Diagno	or is OK. <u>), "DRIVER SII</u> osis Proced	ure		<u>ıre"</u> .	INF01D:00000006605856
 Turn ignition swit Disconnect front Check voltage be (+) 	door loc tween fi				narness connec	
Front door lock as (driver side Connector T	erminal	(-)		Conditior	1	Voltage (Approx.)
D38	2	Ground	Door lock ar	nd unlock switch	Unlock Lock	— 12 V
NO >> GO TO 2 2.CHECK DOOR LO 1. Disconnect BCM	front doo DCK AC ⁻ connect	TUATOR CIRC	UIT	mbly connec		embly (driver side) harness
	ВСМ		Front	door lock asse	mbly (driver side)	
Connector		Terminal	Con	nector	Terminal	Continuity
M69		65 66	- C		1	Existed
3. Check continuity	betweer		s connecto	r and ground	l.	1
Connector	BC			-		Continuity
M69		Termir 65	lai	G	round	Not existed
la the inequation real		66				

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

	+) CM	()	Condition		Voltage
Connector	Terminal				(Approx.)
M69	66	Ground	Door lock and unlock switch	Unlock	12 V
1009	65	Ground	Door lock and unlock switch	Lock	12 V

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monite	or item	Sta	tus
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
DOOR LOOK	ALL UNLK		UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-249</u>, "DRIVER 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 (Approx.)
Connector	Terminal	•			
D17	6	Ground	Door lock and unlock switch	Unlock	12 V
ווט	5	Ground	Door lock and unlock switch	Lock	12 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 connector and all door lock assembly connector.

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

INFOID:000000006605858

INFOID:00000006605857

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

-	BCM		Front de	oor lock assemb	y (passenger si	de)	Continuity	
Connector		Terminal	Con	nector	Terminal		Continuity	
B10		55	Г	017	6		Existed	
M69		65			5		LASIEU	
Check contin	uity betwee	n BCM harnes	s connecto	r and ground.				
	B	CM					Continuity	
Connec	tor	Termir	nal	Gro	ound		Continuity	
B10		55				Not existed		
M69		65					Not oxidiou	
CHECK BCM	O 3. ir or replac OUTPUT S 1 connector	e harness. IGNAL	connector a	ind ground.				
	(+)							
	CM	(-)		Conditi	on		Voltage	
Connector	Termin						(Approx.)	
B10	55			Unlock				
M69	65	Ground	Door loc	k and unlock swi	tch Lock		12 V	
EAR LH EAR LH : Co CHECK FUNC Select "DOOI Select "DOOI	TION TION LOCK" of LOCK" in	t Function "BCM" using C "ACTIVE TES"	Check CONSULT-I	11.		ons.	INFOID:0000000	
Check that th	Monite	or item			St	atus		
Check that th		ALL LO	ALL LOCK		ators		LOCK	
DOOR LOCK			ALL UNLK				UNLOCK	
			ILK				UNLOCK	

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

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

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1.1.1		4

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(•	+)					
Rear door loc	k assembly LH	(—)	Condition		Condition Voltage (Approx.)	Voltage (Approx.)
Connector	Terminal					
D65	2	Ground	Door lock and unlock switch	Unlock	12 V	
1		Door look and unlock Switch	Lock			

Is the inspection result normal?

YES >> Replace rear door lock assembly LH.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock assembly connector.

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

E	BCM Re		k assembly LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B10	55	D65	2	Existed
M69	65	000	1	

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
B10	55	Ground	Not existed
M69	65		NUL EXISTED

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.

	+) CM	()	Condition		Voltage (Approx.)
Connector	Terminal				
B10	55	Cround	nd Door lock and unlock switch	Unlock	- 12 V
M69	65	Ground		Lock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. REAR RH

REAR RH : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item		Status		
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK	
DOOR LOOK	ALL UNLK	DOUT TOUR ACTUATORS	UNLOCK	

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- >> Door lock actuator is OK. YES
- NO >> Refer to DLK-249, "DRIVER SIDE : Diagnosis Procedure".

REAR RH : Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect rear door lock assembly RH connector.

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

(-	+)					D
Rear door lock	cassembly RH	(—)	Condition		Voltage (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Е
D45	6	Ground	Door lock and unlock switch	Unlock	12 V	
D45	5	Ground	Door lock and unlock Switch	Lock	12 V	
the inspection	result normal	2				F

Is the inspection result normal?

YES >> Replace rear door lock assembly RH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock assembly connector.

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

BC	М	Rear door lock assembly RH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B10	55	D45	6	Existed	
M69	65	- 040	5	Existed	

3. Check continuity between BCM harness connector and ground.

-	BC	CM		Continuity	DLK
	Connector	Terminal	Ground	Continuity	
	B10	55	Ground	Not existed	_
	M69	65		NUL EXISIED	L

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.

-		+) CM	()	Condition		Voltage (Approx.)	0
_	Connector	Terminal				(//pp/0/.)	
-	B10	55	Ground	Door lock and unlock switch	Unlock	12 V	Р
-	M69	65	Ground	Door lock and unlock switch	Lock	12 V	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to BCS-93, "Removal and Installation".

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DOOR LOCK AND UNLOCK SWITCH

Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 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	Condition		Status
CDL LOCK SW		Lock	ON
CDL LOCK SW	- Door lock and unlock switch	Unlock	OFF
CDL UNLOCK SW		Lock	OFF
		Unlock	ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-254</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006605864

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

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

(+) Power window		()	Signal (Reference value)	
Connector	Terminal			
	3			
D35	15	Ground	(V) 10 0 10 ms JPMIA0012GB 1.0 - 1.5 V	

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 front power window switch (passenger side) connector.

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

E	BCM	Power window main switch		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M68	12	D35	3	Existed	
IVIUO	13		15	Existed	

3. Check continuity between BCM harness connector and ground.

INFOID:000000006605863

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

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	BCM			
Connector	Termin	al		Continuity
MCO	12		Ground	Not evicted
M68	13			Not existed
the inspection result	normal?			
		, "Removal and Insta	<u>Illation"</u> .	
	eplace harness.			
CHECK DOOR LOC	K AND UNLOCK SV	VITCH GROUND		
neck continuity betwe	en power window ma	ain switch harness co	nnector and grou	ind.
Power	window main switch			
Connector	Termin	al	Ground	Continuity
D35	1			Existed
the inspection result	normal?			
/ES >> GO TO 4.				
	eplace harness.			
CHECK DOOR LOC	K AND UNLOCK SV	VITCH		
efer to <u>DLK-255, "Cor</u>	nponent Inspection".			
the inspection result	normal?			
/ES >> GO TO 5.				
		vitch. Refer to <u>PWC-4</u>	4, "Removal and	Installation".
CHECK INTERMITT	ENT INCIDENT			
efer to <u>GI-42, "Intermi</u>	ttent Incident".			
>> INSPECTIO	JN END			
omponent Inspec	ction			INF0ID:0000000660
		VITCH		INFOID:00000000660
CHECK DOOR LOC	K AND UNLOCK SV	VITCH		INFOID:0000000660
CHECK DOOR LOC	K AND UNLOCK SV			INFOID:0000000660
CHECK DOOR LOC	K AND UNLOCK SV OFF. window main switch o	connector.	als.	INFOID:0000000660
CHECK DOOR LOC Turn ignition switch Disconnect power Check continuity be	K AND UNLOCK SV OFF. window main switch o etween power window	connector.	als.	INFOID:0000000660
CHECK DOOR LOC Turn ignition switch Disconnect power Check continuity be Power windo	K AND UNLOCK SV OFF. window main switch o etween power window w main switch	connector. w main switch termina	als.	INFOID:0000000660
CHECK DOOR LOC Turn ignition switch Disconnect power Check continuity be Power windo	K AND UNLOCK SV OFF. window main switch o etween power window	connector. w main switch termina	dition	Continuity
CHECK DOOR LOC Turn ignition switch Disconnect power Check continuity be Power windo	K AND UNLOCK SV OFF. window main switch o etween power window w main switch	connector. w main switch termin: Con	dition	Continuity Existed
CHECK DOOR LOC Turn ignition switch Disconnect power w Check continuity be Power windo Terr	K AND UNLOCK SV OFF. window main switch o etween power window w main switch	connector. w main switch termina Con Door lock and unlock	dition LOCK UNLOCK	Continuity Existed Not existed
CHECK DOOR LOC Turn ignition switch Disconnect power w Check continuity be Power windo Terr	K AND UNLOCK SV OFF. window main switch o etween power window w main switch ninal	connector. w main switch termin: Con	dition	Continuity Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch.

DOOR REQUEST SWITCH

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 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		Status
REQ SW -DR	Driver side door request switch	Pressed	ON
REQ SW -DR	Driver side door request switch	Released	OFF
REQ SW -AS	Passenger side door request switch	Pressed	ON
	rassenger side door request switch	Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to <u>DLK-256</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006605872

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunctioning front door request switch connector.
- 3. Check voltage between malfunctioning front door request switch harness connector and ground.

	(+)		Voltage (Approx.)	
	Front door request switc	()		
Co	nnector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Driver side	D34	2	Ground	12 V
Passenger side	D15	1	Giouna	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector.

2. Check continuity between malfunctioning front door request switch harness connector and BCM harness connector.

F	ront door request swit	ch	B	Continuity		
Connector		Terminal	Connector	Terminal	Continuity	
Driver side	D34	2	M70	75	Existed	
Passenger side	D15	1		76	LAISIEU	

3. Check continuity between malfunctioning front door request switch harness connector and ground.

F	Front door request swite	ch		Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	D34	2	Ground	Not existed	
Passenger side	D15	1			

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

NO >> Repair or replace harness.

INFOID:000000006605871

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT А Check continuity between malfunctioning front door request switch harness connector and ground. Front door request switch В Continuity Connector Terminal Ground Driver side D34 1 Existed Passenger side D15 2 Is the inspection result normal? YES >> GO TO 4. D NO >> Repair or replace harness. **4.**CHECK DOOR REQUEST SWITCH Refer to DLK-257, "Component Inspection". Е Is the inspection result normal? YES >> GO TO 5. NO >> Replace malfunctioning front door request switch. F 5. CHECK INTERMITTENT INCIDENT Refer to GI-42, "Intermittent Incident". >> INSPECTION END Н Component Inspection INFOID:000000006605873 1. CHECK DOOR REQUEST SWITCH Turn ignition switch OFF. 1. Disconnect malfunctioning front door request switch connector. 2. 3. Check continuity between malfunctioning front door request switch terminals. Front door request switch

Front door request switch		Condition		Continuity	
Tern	ninal			Continuity	
1	2 Deer request swite		Pressed	Existed	
I	2	Door request switch	Released	Not existed	
	Terr 1	Terminal 1 2		1 2 Door request switch	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunctioning front door request switch.

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< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Component Function Check

INFOID:000000006605852

[TYPE 2]

1.CHECK FUNCTION

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

Monitor item		Condition	Status
DOOR SW-DR	Driver side door	Open	On
DOOR SW-DR	Driver side door	Closed	Off
DOOR SW-AS	Dessen nor side desr	Open	On
DOOR SW-AS	Passenger side door	Closed	Off
DOOR SW-RL	Rear door LH	Open	On
DOOR SW-RL	Real door LH	Closed	Off
DOOR SW-RR	Rear door RH	Open	On
DOOR SW-RR		Closed	Off
DOOR SW-BK	Back door	Open	On
DOOK SW-BK		Closed	Off

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Refer to <u>DLK-258</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006605853

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)	
tor	Terminal		(
B48				
B49	2		(V) 15	
B71	2			
B53		Ground		
D106	3		++10ms PKIB4960J 7.0 - 8.0 V	
	Door switch or B48 B49 B71 B53	Door switch or Terminal B48 B49 B71 B53	Door switch(-)orTerminalB482B492B71B53Ground	

Is the inspection result normal?

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

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

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.

DLK-258

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Door switch				BCM	Continuity
Conr	nector	Terminal	Connector	Terminal	Continuity
Driver side	B48			47	
Passenger side	B49	0		45	
Rear LH	B71	2	B10	48	Existed
Rear RH	B53			46	
Back door	D106	3	-	43	
3. Check continuit	y between door swi	tch harness coi	nnector and grou	und.	
	Door switch				Continuity
(Connector	Ter	minal		Continuity
Driver side	B48				
Passenger side	B49		2	Ground	
Rear LH	B71		-		Not existed
Rear RH	B53				
Back door	D106		3		
	ack door lock assembly		_		Continuity
Connector		Ferminal	Groun	d	,
D106		4			Existed
4.CHECK DOOR S Refer to <u>DLK-259, "</u> s the inspection res YES >> GO TO	or replace harness. SWITCH <u>Component Inspec</u> sult normal? 5. e malfunctioning do	or switch.			
Refer to <u>GI-42, "Inte</u>					
>> INSPEC	CTION END				
Component Ins	pection				INFOID:0000000066058
1 .CHECK DOOR S	SWITCH				
I. Turn ignition sw	itch OFF. functioning door sw				

Disconnect malfunctioning door switch connector.
 Check continuity between door switch terminals.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Door switch		Condition		Continuity			
	Terminal		Cond		Continuity			
Driver side				Pressed	Existed			
Driver side				Released	Not existed			
Descender side		2 Ground part of door switch		Pressed	Existed			
Passenger side	2		Door switch	Released	Not existed			
Rear LH	2		switch	DOOL SWITCH	Pressed	Existed		
Rear RH			Pressed	Existed				
Real RH					Released	Not existed		
Back door	3	4	Back door lock as-	Lock	Existed			
Dack UUUI	3	4	sembly	Unlock	Not existed			

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Component Fun	ction Check			INFOID:00000006605874
1.CHECK FUNCTIO	DN			
2. Select "FLASHE	GENT KEY" of "BCM" u R" in "ACTIVE TEST" i Inction operates norma	mode.	T-III. o the following conditions	
	Monitor item		Status	3
	LH	Fr	ont turn signal lamp LH	Turns ON
FLASHER	RH	Fr	ont turn signal lamp RH	Turns ON
	OFF	Fr	ont turn signal lamp	Turns OFF
	varning lamp circuit is v DLK-261, "Diagnosis F dure			INFOID:000000006605875
1. CHECK HAZARD	SWITCH CIRCUIT			
Refer to EXL-72, "Co	mponent Function Che	<u>eck"</u> .		
Is the inspection resu				
YES >> GO TO 2 NO >> Repair o	r replace the malfunction	oning parts		
2.CHECK INTERMI	•	oning parto.		
Refer to GI-42, "Inter	mittent Incident".			
>> INSPEC	TION END			

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< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "RKE OPE COUN1" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

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

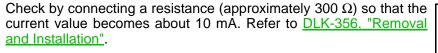
Is the inspection result normal?

- YES >> Intelligent Key is OK.
- NO >> Refer to <u>DLK-262</u>, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK INTELLIGENT KEY BATTERY

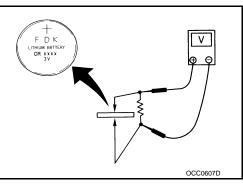
INFOID:000000006605877



Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

- YES >> Replace Intelligent Key.
- NO >> Replace Intelligent Key battery.



INFOID:000000006605876

< DTC/CIRCUIT DIAG	20000				-	PE 2]
NTELLIGENT K		BUZZEF	२			
Component Funct	ion Check				INFOID:0000000	006605878
CHECK FUNCTION						
			т.ш.			
2. Select "OUTSIDE B	NT KEY" of "BCM" us BUZZER" in "ACTIVE tion operates normall	TEST" mode	Э.	litions.		
	Monitor item			Status		
	ON				Buzzer sounds	
OUTSIDE BUZZER	OFF	0	utside warning buzzer	E	Buzzer does not sound	
	Key warning buzzer is .K-263, "Diagnosis Pr					
_	110				INFOID:0000000	006605879
.CHECK FUSE						
YES >> GO TO 2.	<u>normal?</u> e blown fuse after rep	airing the aff	ected circuit if a fus	e is blowr	n.	
YES >> GO TO 2. NO >> Replace the CHECK INTELLIGEN Disconnect Intellige	e blown fuse after rep	BUZZER POV	VER SUPPLY CIRC	UIT		
YES >> GO TO 2. NO >> Replace the CHECK INTELLIGEN Disconnect Intellige	e blown fuse after rep NT KEY WARNING B ent Key warning buzze	BUZZER POV	VER SUPPLY CIRC	UIT	ound.	
YES >> GO TO 2. NO >> Replace the CHECK INTELLIGEN Disconnect Intellige Check voltage betw	e blown fuse after rep NT KEY WARNING B ent Key warning buzze veen Intelligent Key w (+) t Key warning buzzer	BUZZER POV er connector. varning buzze	VER SUPPLY CIRC	UIT		
YES >> GO TO 2. NO >> Replace the CHECK INTELLIGEN Disconnect Intellige Check voltage betw	e blown fuse after rep NT KEY WARNING B ent Key warning buzze veen Intelligent Key w (+)	BUZZER POV er connector. varning buzze	VER SUPPLY CIRC	UIT	ound. Voltage	
NO >> Replace the 2.CHECK INTELLIGEN 1. Disconnect Intellige 2. Check voltage betw Intelligent Connector E25 <u>s the inspection result result results</u> YES >> GO TO 3. NO >> Repair or results 3.CHECK INTELLIGEN 1. Disconnect BCM co	e blown fuse after rep NT KEY WARNING B ent Key warning buzze veen Intelligent Key w (+) t Key warning buzzer (+) t Key warning buzzer 1 normal? eplace harness. NT KEY WARNING B	BUZZER POV er connector. varning buzze	VER SUPPLY CIRC er harness connecto (-) Ground	UIT r and gro	ound. Voltage (Approx.) Battery voltage	
YES >> GO TO 2. NO >> Replace the CHECK INTELLIGEN Disconnect Intellige Check voltage betw Intelligent Connector E25 s the inspection result r YES >> GO TO 3. NO >> Repair or re CHECK INTELLIGEN Disconnect BCM co	e blown fuse after rep NT KEY WARNING B ent Key warning buzze veen Intelligent Key w (+) t Key warning buzzer (+) t Key warning buzzer Termina 1 normal? eplace harness. NT KEY WARNING B onnector. etween BCM harness	BUZZER POV er connector. varning buzze	VER SUPPLY CIRC er harness connecto (-) Ground	UIT r and gro	voltage (Approx.) Battery voltage zzer harness conne	 ∋ctor.
YES >> GO TO 2. NO >> Replace the CHECK INTELLIGEN Disconnect Intellige Check voltage betw Intelligent Connector E25 the inspection result r YES >> GO TO 3. NO >> Repair or res CHECK INTELLIGEN Disconnect BCM co Check continuity be	e blown fuse after rep NT KEY WARNING B ent Key warning buzze veen Intelligent Key w (+) t Key warning buzzer (+) t Key warning buzzer Termina 1 normal? eplace harness. NT KEY WARNING B onnector. etween BCM harness	BUZZER POV er connector. varning buzze	VER SUPPLY CIRC er harness connecto (-) Ground CUIT nd Intelligent Key wa	UIT r and gro	ound. Voltage (Approx.) Battery voltage	→ → → ctor.
YES >> GO TO 2. NO >> Replace the CHECK INTELLIGEN Disconnect Intellige Check voltage betw Intelligent Connector E25 the inspection result r YES >> GO TO 3. NO >> Repair or result r YES >> GO TO 3. NO >> Repair or result r CHECK INTELLIGEN Disconnect BCM co Check continuity be	e blown fuse after rep NT KEY WARNING B ent Key warning buzze veen Intelligent Key w (+) t Key warning buzzer (+) t Key warning buzzer (+) t Key warning buzzer 1 normal? eplace harness. NT KEY WARNING B onnector. etween BCM harness	BUZZER POV er connector. varning buzze	VER SUPPLY CIRC er harness connecto (-) Ground CUIT nd Intelligent Key wa	UIT r and gro	voltage (Approx.) Battery voltage zzer harness conne	
YES >> GO TO 2. NO >> Replace the CHECK INTELLIGEN Disconnect Intellige Check voltage betw Intelligent Connector E25 Sthe inspection result r YES >> GO TO 3. NO >> Repair or result CHECK INTELLIGEN Disconnect BCM co Check continuity be BC Connector M70	e blown fuse after rep NT KEY WARNING B ent Key warning buzze veen Intelligent Key w (+) t Key warning buzzer (+) t Key warning buzzer Termina 1 normal? eplace harness. NT KEY WARNING B onnector. etween BCM harness	BUZZER POV er connector. varning buzze	VER SUPPLY CIRC er harness connecto (-) Ground CUIT nd Intelligent Key wa igent Key warning buzze tor Termi 3	UIT r and gro	voltage (Approx.) Battery voltage zzer harness conne	
YES >> GO TO 2. NO >> Replace the CHECK INTELLIGEN Disconnect Intellige Check voltage betw Intelligent Connector E25 s the inspection result r YES >> GO TO 3. NO >> Repair or result CHECK INTELLIGEN Disconnect BCM co Check continuity be BC Connector M70	e blown fuse after rep NT KEY WARNING B ent Key warning buzze veen Intelligent Key w (+) t Key warning buzzer (+) t Key w	BUZZER POV er connector. varning buzze	VER SUPPLY CIRC er harness connecto (-) Ground CUIT nd Intelligent Key wa igent Key warning buzze tor Termi 3	UIT r and gro	voltage (Approx.) Battery voltage zzer harness conne Continuity Existed	
YES >> GO TO 2. NO >> Replace the 2.CHECK INTELLIGEN 1. Disconnect Intellige 2. Check voltage betw Intelligent Connector E25 <u>s the inspection result r</u> YES >> GO TO 3. NO >> Repair or re 3.CHECK INTELLIGEN 1. Disconnect BCM co 2. Check continuity be BC Connector M70	e blown fuse after rep NT KEY WARNING B ent Key warning buzze veen Intelligent Key w (+) t Key warning buzzer (+) t Key warning buzzer Termina 1 normal? eplace harness. NT KEY WARNING B onnector. etween BCM harness CM Terminal 93 etween BCM harness	BUZZER POV er connector. varning buzze	VER SUPPLY CIRC er harness connecto (-) Ground CUIT nd Intelligent Key wa igent Key warning buzze tor Termi 3	UIT r and gro	voltage (Approx.) Battery voltage zzer harness conne	

INTELLIGENT KEY WARNING BUZZER

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

4. CHECK INTELLIGENT KEY WARNING BUZZER

Refer to DLK-264, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

NO >> Replace Intelligent Key warning buzzer.

Component Inspection

INFOID:000000006605880

1.CHECK INTELLIGENT KEY WARNING BUZZER

- 1. Turn ignition switch OFF.
- 2. Disconnect Intelligent Key warning buzzer connector.
- 3. Connect battery power supply directly to Intelligent Key warning buzzer terminals and check the operation.

Intelligent Key			
Terr	Terminal		
(+)	(-)		
1	3	Buzzer sounds	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace Intelligent Key warning buzzer.

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

KEY WARNING LAMP

Component Function Check

1. CHECK FUNCTION

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.

2. Select "INDICATOR" in "ACTIVE TEST" mode.

3. Check that the function operates normally according to the following conditions.

Mon	itor item	S	tatus	
	KEY ON		Turns ON	[
INDICATOR	KEY IND	Key warning lamp	Blinks	
	OFF		Turns OFF	-
Is the inspection result norn	nal?			E
YES >> Key warning lar NO >> Refer to <u>DLK-2</u>	mp is OK. <u>65, "Diagnosis Procedure"</u> .			F
Diagnosis Procedure			INFOID:00000006605882	1
1. CHECK KEY WARNING	LAMP			(
Refer to MWI-22, "On Board				
Is the inspection result norn	nal?			ŀ
YES >> GO TO 2. NO >> Repair or replace	ce the malfunctioning parts.			
2.CHECK INTERMITTENT	INCIDENT			
Refer to GI-42, "Intermittent	Incident".			
>> INSPECTION E	END			J

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[TYPE 2]

INFOID:000000006605881

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REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "RKE OPE COUN1" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

- YES >> Remote keyless entry receiver is OK.
- NO >> Refer to <u>DLK-266, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000006605884

1. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

1. Turn ignition switch OFF.

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

B	СМ	Remote keyles	s entry receiver	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M68	18	M75	1	Existed

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M68	18		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

1. Reconnect BCM connector.

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

(+)			
Remote keyle	ss entry receiver	()	Voltage (Approx.)
Connector	Terminal		
M75	4	Ground	5 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

1. Disconnect BCM connector

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

В	BCM		Remote keyless entry receiver		
Connector	Terminal	Connector Terminal		Continuity	
M68	19	M75	4	Existed	

DLK-266

INFOID:000000006605883

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

3. Check continuity between BCM harness connector and ground. А BCM Continuity Connector Terminal Ground В M68 19 Not existed Is the inspection result normal? >> Replace BCM. Refer to BCS-93, "Removal and Installation". YES NO >> Repair or replace harness. 4.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL 1. Reconnect remote keyless entry receiver connector. D 2. Check signal between remote keyless entry receiver harness connector and ground using oscilloscope. (+) Е Signal Condition Remote keyless entry receiver (-) (Reference value) Connector Terminal 15 10 50 Waiting 500 ms Н JMKIA3838GB M75 2 Ground 15 10 Press the Intelligent Key lock or unlock ANALALAMA ANA ANY TANANA MANA ñ button 1 ms IMKIA3841GB Is the inspection result normal? DLK YES >> GO TO 5. NO >> Replace remote keyless entry receiver. 5.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2 1. Disconnect BCM connector and remote keyless entry receiver connector. 2. Check continuity between BCM harness connector and remote keyless entry receiver harness connector. Μ BCM Remote keyless entry receiver Continuity Connector Terminal Connector Terminal Ν M68 20 M75 2 Existed Check continuity between BCM harness connector and ground. 3. BCM Continuity Connector Ground Terminal 20 M68 Not existed Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace harness.

O.CHECK REMOTE KEYLESS ENTRY RECEIVER RSSI OUTPUT SIGNAL

1. Reconnect BCM and remote keyless entry receiver connector.

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

DLK-267

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

(+) Signal Remote keyless entry receiver (-) Condition (Reference value) Terminal Connector (V 6 Waiting n 100 ms JMKIA5952GB M75 3 Ground (V) 6 Press and hold Intelligent Key lock or unlock button 100 ms

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace remote keyless entry receiver.

7.CHECK REMOTE KEYLESS ENTRY RECEIVER RSSI CIRCUIT

1. Disconnect BCM and remote keyless entry receiver connector.

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

BCM		Remote keyless entry receiver		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M68	22	M75	3	Existed	

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M68	22		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

NO >> Repair or replace harness.

JMKIA5953GB

< DTC/CIRCUIT	DIAGNOSIS >		[111 = 2]
SHIFT P WA	RNING LAMP		
Component F	unction Check		INFOID:000000006605885
1.CHECK FUNC	TION		
2. Select "LCD"	LIGENT KEY" of "BCM" usir in "ACTIVE TEST" mode. e function operates normally	ng CONSULT-III.	
	Monitor item	Sta	
LCD	SFT P	Shift P warning lamp	Turns ON
NO >> Refer Diagnosis Pro	P warning lamp is OK. to <u>DLK-269, "Diagnosis Proc</u> cedure ⁻ P WARNING LAMP	cedure".	INFOID:00000006605886
<u>s the inspection r</u> YES >> GO T			
2.CHECK INTER	RMITTENT INCIDENT		
Refer to <u>GI-42, "Ir</u>	ntermittent Incident".		
>> INSP	ECTION END		

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SHIFT P WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Component Function Check

1.CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III.
- 2. Select "UNLK SEN -DR" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
UNLK SEN -DR	Driver side door	Lock	OFF
UNER DEN -DR		Unlock	ON

Is the inspection result normal?

- YES >> Unlock sensor is OK.
- NO >> Refer to <u>DLK-270, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000006605896

1.CHECK BCM OUTPUT SIGNAL

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

(+ Front door lock ass		()	Signal (Reference value)
Connector	Terminal		
D38	3	Ground	(V) 15 10 5 0 + 10ms PKIB4960J

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.

B	BCM		Front door lock assembly (driver side)	
Connector	Terminal	Connector	Terminal	Continuity
M68	31	D38	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M68	31		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>.

INFOID:000000006605895

UNLOCK SENSOR

	UNLOOK		
< DTC/CIRCUIT DIAGNOSIS	>		[TYPE 2]
NO >> Repair or replace h	arness.		
3.CHECK UNLOCK SENSOR	GROUND CIRCUIT		
Check continuity between front	door lock assembly (dr	iver side) harness connec	tor and ground.
Front door lock assem	bly (driver side)		<u> </u>
Connector	Terminal	Ground	Continuity
D38	4	_	Existed
Is the inspection result normal?		1	<u>I</u>
YES >> GO TO 4. NO >> Repair or replace h			
4.CHECK UNLOCK SENSOR			
Refer to DLK-271, "Component	Inspection".		
Is the inspection result normal?			
YES >> GO TO 5. NO >> Replace front door	lock assembly (driver s	ide)	
5. CHECK INTERMITTENT IN	• •		
Refer to <u>GI-42, "Intermittent Inc</u>			
>> INSPECTION END			
Component Inspection			INFOID:000000006605897
1.CHECK UNLOCK SENSOR			
1. Turn ignition switch OFF.			
2 Disconnect front door lock :	assembly (driver side) (connector	

Turn ignition switch OFF.
 Disconnect front door lock assembly (driver side) connector.

3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock as	sembly (driver side)	Condition Conti		Continuity	
Terr	ninal			Continuity	
2	Driver side door	Unlock	Existed	DLK	
3	4		Lock	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

>> Replace front lock assembly (driver side). NO

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SV < SYMPTOM DIAGNOSIS >	NITCH [TYPE 2]
SYMPTOM DIAGNOSIS	[=_]
DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SV ALL DOOR REQUEST SWITCHES	NITCH
ALL DOOR REQUEST SWITCHES : Description	INFOID:000000006613137
All doors do not lock/unlock using all door request switches.	
ALL DOOR REQUEST SWITCHES : Diagnosis Procedure	INFOID:000000006613138
1. CHECK REMOTE KEYLESS ENTRY FUNCTION	
Check remote keyless entry function.	
Does door lock/unlock with Intelligent Key button?	
YES >> GO TO 2. NO >> Refer to DLK-279. "Diagnosis Procedure".	
2.CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT"	
 Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. Select "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT" mode. 	
3. Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".	
Refer to <u>DLK-219, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGEN</u> <u>Super Lock)"</u> .	IT KEY) (Without
<u>Is the inspection result normal?</u>	
YES >> GO TO 3.	
NO >> Set "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".	
3. CHECK INSIDE KEY ANTENNA	
Check inside key antenna.	
 Instrument center: Refer to <u>DLK-230, "DTC Logic"</u>. Console: Refer to <u>DLK-232, "DTC Logic"</u>. 	
 Luggage room: Refer to <u>DLK-234, "DTC Logic"</u>. 	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. CHECK OUTSIDE KEY ANTENNA	
Check outside key antenna.	
Driver side: Refer to <u>DLK-236, "DTC Logic"</u> .	
Passenger side: Refer to <u>DLK-238. "DTC Logic"</u> .	
Rear bumper: Refer to <u>DLK-240, "DTC Logic"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	
5.REPLACE BCM	
1. Replace BCM. Refer to <u>BCS-93. "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:000000006613139

All doors do not lock/unlock using driver side door request switch.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SW < SYMPTOM DIAGNOSIS >	ITCH [TYPE 2]
DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure	INFOID:000000006613140
1.CHECK DRIVER SIDE DOOR REQUEST SWITCH	
Check driver side door request switch. Refer to <u>DLK-256, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CHECK OUTSIDE KEY ANTENNA	
Check outside key antenna (driver side). Refer to <u>DLK-236, "DTC Logic"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93, "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> . PASSENGER SIDE DOOR REQUEST SWITCH	
PASSENGER SIDE DOOR REQUEST SWITCH : Description	INFOID:000000006613141
All doors do not lock/unlock using passenger side door request switch.	
PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure	INFOID:000000006613142
1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH	
Check passenger side door request switch. Refer to <u>DLK-256, "Component Function Check"</u> .	ſ
<u>Is the inspection result normal?</u> YES >> GO TO 2.	L
NO >> Repair or replace the malfunctioning parts.	
2.CHECK OUTSIDE KEY ANTENNA	
Check outside key antenna (passenger side). Refer to <u>DLK-238, "DTC Logic"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3.REPLACE BCM 1. Replace BCM. Refer to BCS-93, "Removal and Installation".	
 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> . BACK DOOR REQUEST SWITCH	
BACK DOOR REQUEST SWITCH : Description	INFOID:000000006613143
All doors do not lock/unlock using back door request switch.	

DLK-273

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

BACK DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000006613144

[TYPE 2]

1. CHECK BACK DOOR REQUEST SWITCH

Check back door request switch.

Refer to DLK-246, "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). Refer to <u>DLK-240, "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-93, "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 DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

DOOR KEY CYLINDER			
< SYMPTOM DIAGNOSIS > [TYPE 2]]		
DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK	ζ Α		
Diagnosis Procedure	⁰¹ 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-254, "Component Function Check"</u> .	D		
2. CHECK UNLOCK SENSOR			
Check unlock sensor. Refer to <u>DLK-270, "Component Function Check"</u> .	E		
Is the inspection result normal?			
YES >> GO TO 3.	F		
NO >> Repair or replace the malfunctioning parts. 3.REPLACE BCM	Г		
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. Confirm the operation after replacement. 	G		
Is the result normal?			
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	Н		

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH < SYMPTOM DIAGNOSIS > [TYPE 2]

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

ALL DOOR : Description

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR : Diagnosis Procedure

1.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch. Refer to <u>DLK-254, "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 <u>DLK-249, "DRIVER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR SWITCH

Check door switch.

Refer to DLK-258, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-93, "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>.

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 BCS-93. "Removal and Installation".

2. Confirm the operation after replacement.

Is the result normal?

INFOID:000000006613129

INFOID:000000006613130

INFOID:000000006613127

INFOID:000000006613128

YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . PASSENGER SIDE	
PASSENGER SIDE : Description	INFOID:000000006613131
Passenger side door does not lock/unlock using door lock and unlock switch.	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000006613132
1.CHECK DOOR LOCK ACTUATOR	
Check front door lock assembly (passenger side). Refer to <u>DLK-250, "PASSENGER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts. 2.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93, "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> .	
REAR LH	
REAR LH : Description	INFOID:000000006613133
Rear LH side door does not lock/unlock using door lock and unlock switch.	
REAR LH : Diagnosis Procedure	
,	INFOID:000000006613134
1. CHECK DOOR LOCK ACTUATOR	
Check rear door lock assembly LH. Refer to <u>DLK-251, "REAR LH : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.REPLACE BCM	_
 Replace BCM. Refer to <u>BCS-93, "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> . REAR RH	
REAR RH : Description	INFOID:000000006613135
I I	
Rear RH side door does not lock/unlock using door lock and unlock switch.	
	INFOID:00000006613136
Rear RH side door does not lock/unlock using door lock and unlock switch.	INFOID:000000006613136
Rear RH side door does not lock/unlock using door lock and unlock switch. REAR RH : Diagnosis Procedure	INFOID:000000006613136
Rear RH side door does not lock/unlock using door lock and unlock switch. REAR RH : Diagnosis Procedure 1.CHECK DOOR LOCK ACTUATOR	INFOID:000000006613136

YES >> GO TO 2.

DLK-277

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH **[TYPE 2]**

< SYMPTOM DIAGNOSIS >

>> Repair or replace the malfunctioning parts. NO

2.REPLACE BCM

- Replace BCM. Refer to <u>BCS-93, "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".

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM	DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure	A
1.CHECK DTC WITH BCM AND TCM	В
Check that DTC is not detected with BCM and TCM.	
Is the inspection result normal?	
YES >> GO TO 2.	С
NO-1 >> Refer to <u>BCS-67, "DTC Index"</u> . (BCM) NO-2 >> Refer to <u>TM-171, "DTC Index"</u> (RE0F10B models) or <u>TM-366, "DTC Index"</u> (RE0F11A models).	
(TCM)	D
2.CHECK POWER DOOR LOCK OPERATION	
Check door lock/unlock using door lock and unlock switch.	Е
Does door lock/unlock using door lock and unlock switch?	
YES >> GO TO 3. NO >> Refer to <u>DLK-254, "Component Function Check"</u> .	
3. CHECK REMOTE KEYLESS ENTRY RECEIVER	F
Check remote keyless entry receiver. Refer to <u>DLK-266, "Component Function Check"</u> .	G
Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	Н
4.CHECK INTELLIGENT KEY	
Check Intelligent Key.	I
Refer to <u>DLK-262, "Component Function Check"</u> . Is the inspection result normal?	
YES >> GO TO 5.	1
NO >> Repair or replace the malfunctioning parts.	0
5.REPLACE BCM	
1. Replace BCM. Refer to BCS-93, "Removal and Installation".	DLK
2. Confirm the operation after replacement.	
Is the result normal?	L
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
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[TYPE 2]

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IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006613295

[TYPE 2]

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>BCS-67, "DTC Index"</u>.

2. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with driver side door lock knob and door key cylinder?

YES >> GO TO 3.

NO >> Refer to <u>DLK-276, "ALL DOOR : Diagnosis Procedure"</u>.

3. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-258, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK UNLOCK SENSOR

Check unlock sensor. Refer to <u>DLK-270, "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-93, "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".

ANTI-HIJACK FUNCTION DOES NOT OPERATE **[TYPE 2]** < SYMPTOM DIAGNOSIS > ANTI-HIJACK FUNCTION DOES NOT OPERATE А **Diagnosis** Procedure INFOID:000000006613124 1.CHECK "DOOR LOCK–UNLOCK SET" SETTING IN "WORK SUPPORT" В 1. Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode. 2. Check "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" 3. С Refer to DLK-217, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)". Is the inspection result normal? YES >> GO TO 2 D >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT". NO 2.REPLACE BCM Е 1. Replace BCM. Refer to BCS-93, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? F >> INSPECTION END YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

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BACK DOOR DOES NOT OPENED

Diagnosis Procedure

1. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch. Refer to <u>DLK-244, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator. Refer to <u>DLK-242, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK VEHICLE SPEED SIGNAL

Check vehicle speed signal. Refer to <u>MWI-36, "DTC Index"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

1. Replace BCM. Refer to <u>BCS-93, "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>.

INFOID:000000006613126

[TYPE 2]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE **[TYPE 2]** < SYMPTOM DIAGNOSIS > AUTO DOOR LOCK OPERATION DOES NOT OPERATE А **Diagnosis** Procedure INFOID:000000006613125 1.CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT" В 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. Select "AUTO LOCK SET" in "WORK SUPPORT" mode. 2. Check "AUTO LOCK SET" in "WORK SUPPORT". 3. С Refer to DLK-219, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (Without Super Lock)". Is the inspection result normal? D YES >> GO TO 2. NO >> Set "AUTO LOCK SET" setting in "WORK SUPPORT". 2.REPLACE BCM Е Replace BCM. Refer to BCS-93, "Removal and Installation". 1. Confirm the operation after replacement. 2. F Is the result normal? YES >> INSPECTION END >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

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VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [TYPE 2]

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPER-ATE

Diagnosis Procedure

INFOID:000000006613307

- 1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"
- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". Refer to <u>DLK-217, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT".

2.CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT".

Refer to DLK-217, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)".

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Set "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT".

3.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-93, "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 [TYPE 2] < SYMPTOM DIAGNOSIS > IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE А **Diagnosis** Procedure INFOID:000000006613294 1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT" В 1. Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. 2. Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". 3 Refer to DLK-217, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)". Is the inspection result normal? YES >> GO TO 2. D NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". 2.CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT" Ε 1. Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode. 2. Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT". 3. Refer to DLK-217, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)". F Is the inspection result normal? YES >> GO TO 3. NO >> Set "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT". **3.**REPLACE BCM 1. Replace BCM. Refer to BCS-93, "Removal and Installation". Н Confirm the operation after replacement. 2. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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

< SYMPTOM DIAGNOSIS >

[TYPE 2]

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

Diagnosis Procedure

INFOID:000000006613303

- 1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"
- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". Refer to <u>DLK-217, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT".

2.CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT".

Refer to DLK-217, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT".

 ${f 3.}$ CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".

Refer to DLK-217, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)".

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Set "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".

4.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-93, "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>.

HAZARD AND BUZZER REMINDER DOES NOT OPERATE **[TYPE 2]** < SYMPTOM DIAGNOSIS > HAZARD AND BUZZER REMINDER DOES NOT OPERATE А Diagnosis Procedure INFOID:000000006613293 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? >> GO TO 2. YES NO-1 >> Refer to <u>BCS-67, "DTC Index"</u>. (BCM) NO-2 >> Refer to <u>MWI-36, "DTC Index"</u>. (Combination meter) **2.**CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT" D Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. 1. 2. Select "HAZARD ANSWER BACK" in "WORK SUPPORT" mode. E Check the "HAZARD ANSWER BACK" in "WORK SUPPORT". 3 Refer to DLK-219, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (Without Super Lock)". F Is the inspection result normal? YES >> GO TO 3. NO >> Set "HAZARD ANSWER BACK" in "WORK SUPPORT". ${f 3.}$ CHECK "ANS BACK I-KEY LOCK" SETTING IN "WORK SUPPORT" Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. 1. Select "ANS BACK I-KEY LOCK" in "WORK SUPPORT" mode. 2. Н Check the "ANS BACK I-KEY LOCK" in "WORK SUPPORT". 3 Refer to DLK-219, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (Without Super Lock)". Is the inspection result normal? YES >> GO TO 4. NO >> Set "ANS BACK I-KEY LOCK" in "WORK SUPPORT". 4.CHECK "ANS BACK I-KEY UNLOCK" SETTING IN "WORK SUPPORT" 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. Select "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT" mode. 2. DLK Check the "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT". 3 Refer to DLK-219, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (Without Super Lock)". L Is the inspection result normal? YES >> GO TO 5. >> Set "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT". NO M ${f b}$. CHECK HAZARD FUNCTION Check hazard function. Refer to EXL-72, "Component Function Check". Ν Is the inspection result normal? YES >> GO TO 6. >> Repair or replace the malfunctioning parts. NO $\mathbf{6}.$ CHECK INTELLIGENT KEY WARNING BUZZER Check Intelligent Key warning buzzer. Ρ Refer to DLK-263, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts. 7.REPLACE BCM

1. Replace BCM. Refer to BCS-93. "Removal and Installation".

< SYMPTOM DIAGNOSIS >

[TYPE 2]

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 [TYPE 2] < SYMPTOM DIAGNOSIS > **KEY REMINDER FUNCTION DOES NOT OPERATE** А **Diagnosis** Procedure INFOID:00000006613298 1.CHECK DTC WITH BCM В Check that DTC is not detected with BCM. Is the inspection result normal? YES >> GO TO 2. NO >> Refer to <u>BCS-67, "DTC Index"</u>. 2.check "anti key lock in functi" setting in "work support" D Select "INTELLIGENT KEY" of "BCM" using CONSULT-III. 1. Select "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT" mode. 2. Check "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT". 3. E Refer to DLK-219, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (Without Super Lock)". Is the inspection result normal? F YES >> GO TO 3. NO >> Set "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT". ${f 3.}$ CHECK DOOR SWITCH Check door switch. Refer to DLK-258, "Component Function Check". Is the inspection result normal? Н YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. **4.**CHECK INSIDE KEY ANTENNA Check inside key antenna. • Instrument center: Refer to DLK-230, "DTC Logic". Console: Refer to <u>DLK-232</u>, "DTC Logic". Luggage room: Refer to <u>DLK-234</u>, "<u>DTC Logic</u>". Is the inspection result normal? DLK YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK UNLOCK SENSOR Check unlock sensor. Refer to DLK-270, "Component Function Check". Is the inspection result normal? Μ YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. **6.**REPLACE BCM Ν Replace BCM. Refer to BCS-93, "Removal and Installation". 1. Confirm the operation after replacement. 2. Is the result normal? YES >> INSPECTION END >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO Ρ

<pre></pre>	[TYPE 2]
OFF POSITION WARNING DOES NOT OPERATE	[]
Diagnosis Procedure	
	INFOID:000000006613300
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.	
YES >> GO TO 2. NO-1 >> Refer to <u>BCS-67, "DTC Index"</u> . (BCM)	
NO-2 >> Refer to MWI-36, "DTC Index". (Combination meter)	
2.CHECK DOOR SWITCH	
Check front door switch (driver side).	
Refer to <u>DLK-258, "Component Function Check"</u> . Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3. CHECK COMBINATION METER BUZZER	
Check combination meter buzzer.	
Refer to <u>WCS-40, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4. CHECK INTELLIGENT KEY WARNING BUZZER	
Check Intelligent Key warning buzzer.	
Refer to <u>DLK-263, "Component Function Check"</u>	
<u>Is the inspection result normal?</u> YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	
5.REPLACE BCM	
1. Replace BCM. Refer to <u>BCS-93, "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> .	

OFF POSITION WARNING DOES NOT OPERATE

P POSITION WARNING DOES NOT OPERATE
< SYMPTOM DIAGNOSIS > [TYP] P POSITION WARNING DOES NOT OPERATE
Diagnosis Procedure
1.CHECK DTC WITH BCM, TCM AND COMBINATION METER
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-67, "DTC Index"</u> . (BCM) NO-2 >> Refer to <u>TM-171, "DTC Index"</u> (RE0F10B models) or <u>TM-366, "DTC Index"</u> (RE0F11A mod
(TCM)
NO-3 >> Refer to <u>MWI-36, "DTC Index"</u> . (Combination meter)
2.CHECK COMBINATION METER BUZZER Check combination meter buzzer.
Refer to <u>WCS-40, "Component Function Check"</u> .
Is the inspection result normal?
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.
3. CHECK INTELLIGENT KEY WARNING BUZZER
Check Intelligent Key warning buzzer.
Refer to <u>DLK-263, "Component Function Check"</u> . <u>Is the inspection result normal?</u>
YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.
4.CHECK DOOR SWITCH
Check front door switch (driver side). Refer to <u>DLK-258, "Component Function Check"</u> .
Is the inspection result normal?
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.
5. CHECK INSIDE KEY ANTENNA
Check inside key antenna.
 Instrument center: Refer to <u>DLK-230, "DTC Logic"</u>. Console: Refer to <u>DLK-232, "DTC Logic"</u>.
Luggage room: Refer to <u>DLK-234, "DTC Logic"</u> .
Is the inspection result normal?
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.
6.CHECK KEY WARNING LAMP
Check key warning lamp.
Refer to <u>DLK-265. "Component Function Check"</u> . <u>Is the inspection result normal?</u>
YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.
7.REPLACE BCM
 Replace BCM. Refer to <u>BCS-93, "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> .

ACC WARNING DOES NOT OPERATE

Diagnosis Procedure

1. CHECK COMBINATION METER BUZZER

Check combination meter buzzer. Refer to WCS-40, "Component Function Check".

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-93, "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>.

INFOID:000000006613123

TAKE AWAY WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS >	[TYPE 2]
TAKE AWAY WARNING DOES NOT OPERATE	<u> </u>
Diagnosis Procedure	INFOID:000000006613305
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-67, "DTC Index"</u> . (BCM) NO-2 >> Refer to <u>MWI-36, "DTC Index"</u> . (Combination meter)	
2. CHECK COMBINATION METER BUZZER	
Check combination meter buzzer. Refer to <u>WCS-40, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3. CHECK KEY WARNING LAMP	
Check key warning lamp.	
Refer to <u>DLK-265, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4.CHECK DOOR SWITCH	
Check door switch.	
Refer to <u>DLK-258, "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-263</u> , "Component Function Check".	Ľ
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-230</u>, "<u>DTC Logic</u>". 	
 Console: Refer to <u>DLK-232, "DTC Logic"</u>. Luggage room: Refer to <u>DLK-234, "DTC Logic"</u>. 	
Is the inspection result normal?	
YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	
7.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. Confirm the operation after replacement. 	
 Confirm the operation after replacement. <u>Is the result normal?</u> 	
YES >> INSPECTION END	

YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE [TYPE 2]

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:00000006613296

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-67, "DTC Index"</u>. (BCM)

NO-2 >> Refer to MWI-36, "DTC Index". (Combination meter)

2.CHECK "LO- BATT OF KEY FOB WARN" SETTING IN "WORK SUPPORT"

Select "INTELLIGENT KEY" of "BCM". 1

Select "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT" mode. 2.

Check "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT". 3 Refer to DLK-219, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) (Without Super Lock)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT".

3.CHECK KEY WARNING LAMP

Check key warning lamp.

Refer to DLK-265, "Component Function Check".

Is the inspection result normal?

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

4. CHECK INTELLIGENT KEY

Check Intelligent key.

Refer to DLK-262, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to <u>DLK-230</u>, "DTC Logic".
- Console: Refer to <u>DLK-232, "DTC Logic"</u>.
- Luggage room: Refer to <u>DLK-234</u>, "DTC Logic".
- Is the inspection result normal?

YES >> GO TO 6.

>> Repair or replace the malfunctioning parts. NO

O.REPLACE BCM

- 1. Replace BCM. Refer to BCS-93, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

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< SYMPIOM	DIAGNOSIS >

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

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Diagnosis Procedure			
1. CHECK DOOR LOCK FUNCTION	В		
Check door lock function.	-		
Does door lock/unlock using door request switch?			
YES >> GO TO 2.	С		
NO >> Refer to <u>DLK-256, "Component Function Check"</u> .			
2.CHECK INTELLIGENT KEY WARNING BUZZER	D		
Check Intelligent Key warning buzzer.			
Refer to <u>DLK-263, "Component Function Check"</u> .			
Is the inspection result normal?	E		
YES >> GO TO 3.			
NO >> Repair or replace the malfunctioning parts.			
3.REPLACE BCM	F		
1. Replace BCM. Refer to BCS-93, "Removal and Installation".	-		
2. Confirm the operation after replacement.	G		
Is the result normal?	G		
YES >> INSPECTION END			
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	Н		
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KEY ID WARNING DOES NOT OPERATE

< SYMPTOM	DIAGNOSIS >

KEY ID WARNING DOES NOT OPERATE

Diagnosis Procedure	INFOID:0000000661329
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-67, "DTC Index"</u> . (BCM) NO-2 >> Refer to <u>MWI-36, "DTC Index"</u> . (Combination meter) 2. CHECK INTELLIGENT KEY	
Check Intelligent Key. Refer to <u>DLK-262</u> , "Component Function Check". <u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK INSIDE KEY ANTENNA	
Check inside key antenna. • Instrument center: Refer to <u>DLK-230, "DTC Logic"</u> . • Console: Refer to <u>DLK-232, "DTC Logic"</u> . • Luggage room: Refer to <u>DLK-234, "DTC Logic"</u> . Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY WARNING LAMP	
Check key warning lamp. Refer to <u>DLK-265. "Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. REPLACE BCM	

- 1. Replace BCM. Refer to <u>BCS-93, "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".

UNLOCK LINK FUNCTION DOES NOT OPERATE		
< SYMPTOM DIAGNOSIS >	[TYPE 2]	
UNLOCK LINK FUNCTION DOES NOT OPERATE		Λ
Diagnosis Procedure	INFOID:000000006613306	A
1. CHECK DRIVER SIDE OR PASSENGER SIDE DOOR SWITCH		В
Check driver side or passenger side door switch. Refer to DLK-258, "Component Function Check".		
Is the inspection result normal?		С
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.REPLACE BCM		D
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. 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

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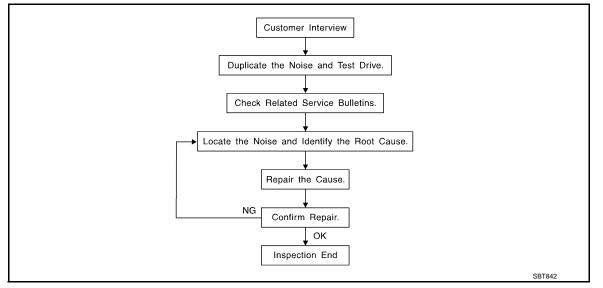
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< SYMPTOM DIAGNOSIS >

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-302</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 you 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 you confirm the repair.

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< SYMPTOM DIAGNOSIS >

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that you suspect the noise is coming from.
 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 you suspect is causing 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 with your hand by touching the component(s) that you suspect is (are) causing the noise.
- Placing a piece of paper between components that you suspect are causing the noise.
- Looking for loose components and contact marks. Refer to DLK-300, "Inspection Procedure".

REPAIR THE CAUSE

UHMW (TEFLON) TAPE

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

CAUTION:

Do not 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-43980). Each item can 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 1.97in) FELT CLOTHTAPE Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles.

< SYMPTOM DIAGNOSIS >

[TYPE 2]

Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY Use when grease cannot be applied. DUCT TAPE Use 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:000000006635666

Refer to Table of Contents for specific component removal and installationinformation.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 2. A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to thecenter console.

DOORS

Pay attention to the:

- 1. Finisher and inner panel making a slapping noise
- 2. Inside handle escutcheon to door finisher
- 3. Wiring harnesses tapping
- 4. Door striker out of alignment causing a popping noise on startsand stops

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

TRUNK

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

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

< SYMPTOM DIAGNOSIS >

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- Sunroof lid, rail, linkage or seals making a rattle or light knockingnoise 1.
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consistof insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seatis in and the load placed on the seat when the noise is present. These conditionsshould be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- 1. Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- The rear seatback lock and bracket 3.

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component orapplying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then Н transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

- Any component mounted to the engine wall 1.
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- Loose radiator mounting pins
- Hood bumpers out of adjustment 5.
- Hood striker out of adjustment 6.

DLK These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



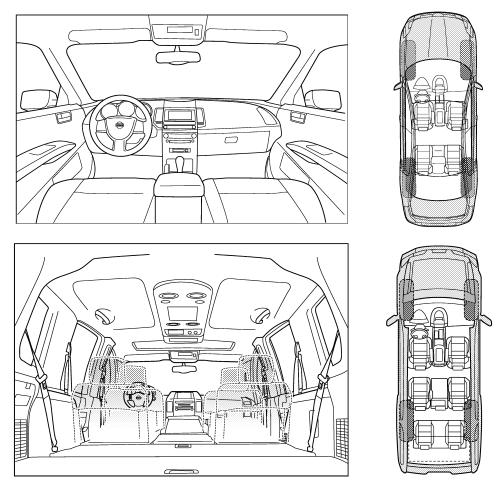
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 >

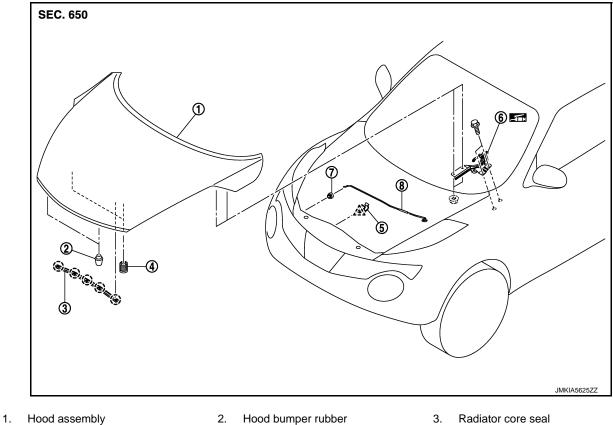
[TYPE 2]

, ,	ne noise occurs:
II. WHEN DOES IT OCCUR? (pleas	e check the boxes that apply)
anytime	after sitting out in the rain
☐ 1st time in the morning	when it is raining or wet
\Box only when it is cold outside	dry or dusty conditions
only when it is hot outside	dther:
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE
through driveways	squeak (like tennis shoes on a clean floor)
over rough roads	creak (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)
coming to a stop	thump (heavy, muffled knock noise)
on turns: left, right or either (circle	e) 🔲 buzz (like a bumble bee)
with passengers or cargo	
other:	
after driving miles or	
TO BE COMPLETED BY DEALERS	SHIP PERSONNEL
Test Drive Notes:	
	YES NO Initials of person
	YES NO Initials of person performing
Vehicle test driven with customer	YES NO Initials of person performing
- Noise verified on test drive	
 Noise verified on test drive Noise source located and repaired 	
- Noise verified on test drive	
 Noise verified on test drive Noise source located and repaired 	□ □ □ □ □ onfirm repair □ □
 Noise verified on test drive Noise source located and repaired Follow up test drive performed to c 	Image:

< REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION HOOD

Exploded View

INFOID:000000006600518



- 4. Hood bumper rubber
- 7. Grommet
- ([^]) : Clip
- ∴ : Pawl
- : Body grease

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.

5.

8.

Clamp

Hood support rod

WARNING:

Injury may occur if hood assembly is not supported by the proper material when removing hood assembly.

6.

Hood hinge

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:**

DLK-304

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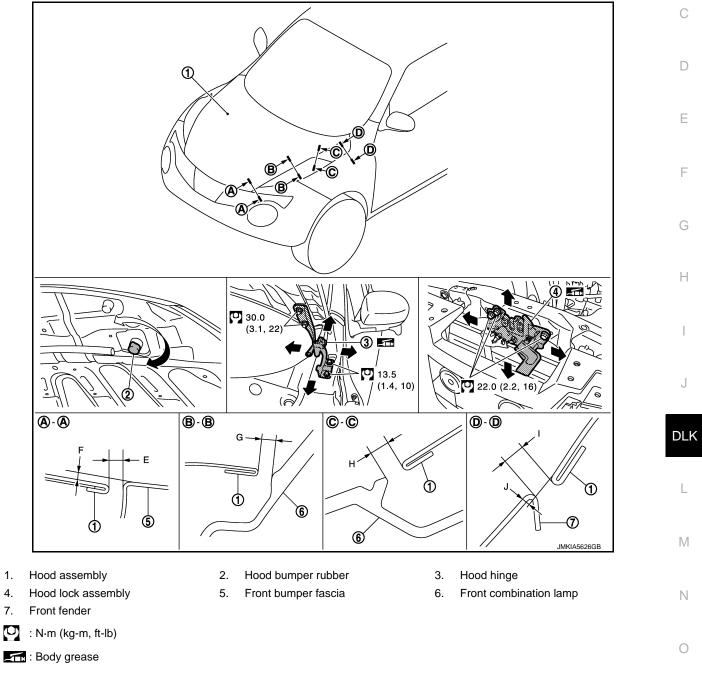
DLK-305

• After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.

HOOD

After installing, perform hood fitting adjustment. Refer to <u>DLK-305, "HOOD ASSEMBLY : Adjust-ment"</u>.





Check the clearance and the surface height between hood and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures phown below.

INFOID:000000006600520

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< REMOVAL AND INSTALLATION >

					Unit: mm (in)
Р	ortion			Standard	Difference (RH/LH, MAX)
Hood – Front	^ ^	Ε	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
bumper fascia	A – A	F	Surface height	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	< 2.5 (0.098)
Hood – Front combi- nation lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front combi- nation lamp	C – C	н	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front fender	D – D	I	Clearance	2.5 – 4.5 (0.098 – 0.177)	< 1.5 (0.059)
Hood – Front lender	0-0	J	Surface height	(-2.0) – (0.0) [(-0.079) – (0.000)]	< 1.5 (0.059)

FITTING ADJUSTMENT PROCEDURE

- 1. Remove front center grille. Refer to EXT-18. "Removal and Installation".
- 2. Remove hood lock assembly, 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.
- 3. Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for looseness.
- 4. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 5. After adjustment, tighten lock bolts to the specified torque.
- 6. Open hood. Rotate bumper rubber counterclockwise between half a turn and three-quarters of a turn.
- 7. Check that secondary latch is securely engaged with secondary hood striker from the dead load of the hood assembly.
- Check that primary latch is securely engaged with primary hood 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.

9. Install front center grille. Refer to EXT-18, "Removal and Installation".

HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:000000006600521

REMOVAL

- 1. Remove hood assembly. Refer to <u>DLK-304</u>, "HOOD ASSEMBLY : Removal and Installation".
- 2. Remove front fender. Refer to <u>DLK-315. "Removal and Installation"</u>.
- 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.

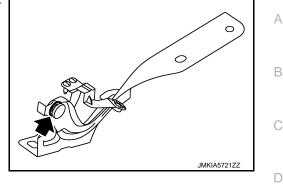
CAUTION:

- After installation, perform hood hinge fitting adjustment. Refer to <u>DLK-307, "HOOD HINGE : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.

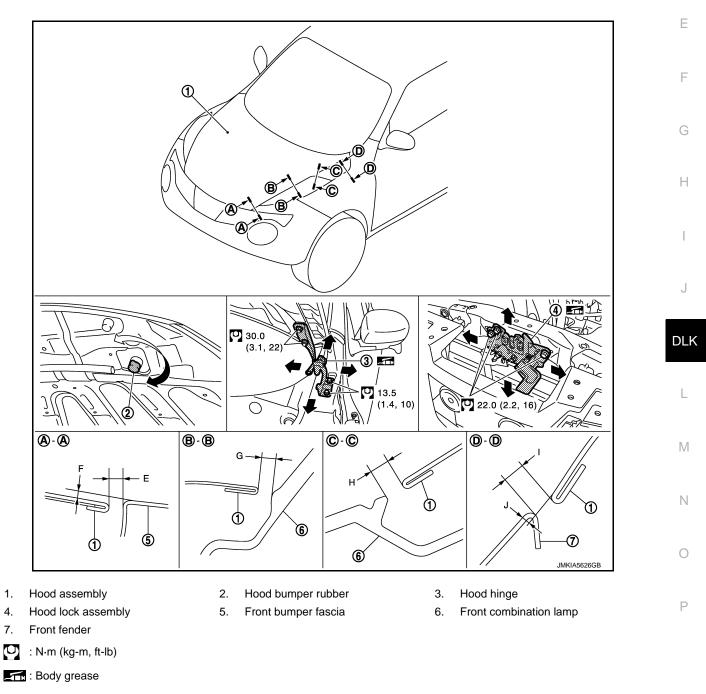
HOOD

INFOID:000000006600522

• Check hood hinge rotating part for poor lubrication. If necessary, apply grease.



HOOD HINGE : Adjustment



Check the clearance and the surface height between hood and each part by visually and touching.

< REMOVAL AND INSTALLATION >

Linit: mm (in)

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

Portion				Standard	Difference (RH/LH, MAX)
Hood – Front		Ε	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
bumper fascia	A – A	F	Surface height	(-2.0) - (+2.0) [(-0.079) - (+0.079)]	< 2.5 (0.098)
Hood – Front combi- nation lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front combi- nation lamp	C – C	н	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Lload Front fonder		Т	Clearance	2.5 - 4.5 (0.098 - 0.177)	< 1.5 (0.059)
Hood – Front fender	D – D	J	Surface height	(-2.0) – (0.0) [(-0.079) – (0.000)]	< 1.5 (0.059)

1. Remove front center grille. Refer to EXT-18, "Removal and Installation".

2. Remove hood lock assembly.

3. Remove front bumper fascia. Refer to EXT-13. "Removal and Installation".

- 4. Remove front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 5. Remove front fender assembly (LH and RH). Refer to DLK-315, "Removal and Installation".
- 6. Loosen hood hinge mounting bolts.
- 7. Temporarily install front fender assembly (LH and RH), front combination lamp (LH and RH) and front bumper fascia.
- 8. Adjust the clearance of hood assembly, front fender assembly (LH and RH), front combination lamp (LH and RH) and front bumper fascia according to the specified value, by moving hood hinge (body side).
- 9. Temporarily tighten hood hinge (LH and RH).
- 10. Remove front bumper fascia, front combination lamp (LH and RH) and front fender assembly (LH and RH).
- 11. Tighten hood hinge (LH and RH) to the specified torque.
- 12. Install front fender assembly (LH and RH). Refer to DLK-315, "Removal and Installation".
- 13. Install front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 14. Install front bumper fascia. Refer to EXT-13, "Removal and Installation".
- 15. Adjust the surface height of hood assembly, front fender assembly, and front combination lamp according to the specified value, by rotating hood bumper rubber.
- 16. Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for looseness.
- 17. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 18. After adjustment, tighten lock bolts to the specified torque.
- 19. Open hood. Rotate bumper rubber counterclockwise between half a turn and three-quarters of a turn.
- 20. Check that secondary latch is securely engaged with secondary hood striker from the dead load of the hood assembly.
- 21. Check that primary latch is securely engaged with primary hood 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.

22. Install front center grille. Refer to <u>EXT-18, "Removal and Installation"</u>. CAUTION:

After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.

HOOD SUPPORT ROD

HOOD	
< REMOVAL AND INSTALLATION > [TYPE 2]	
HOOD SUPPORT ROD : Removal and Installation	А
REMOVAL CAUTION:	
Two workers are required to support the hood.	В
1. Support hood assembly with a suitable material to prevent it from falling.	
WARNING: Injury may occur if hood assembly is not supported by the proper material when removing hood assembly.	С
2. Pull hood support rod from grommet and remove.	
INSTALLATION Install in the reverse order of removal.	D

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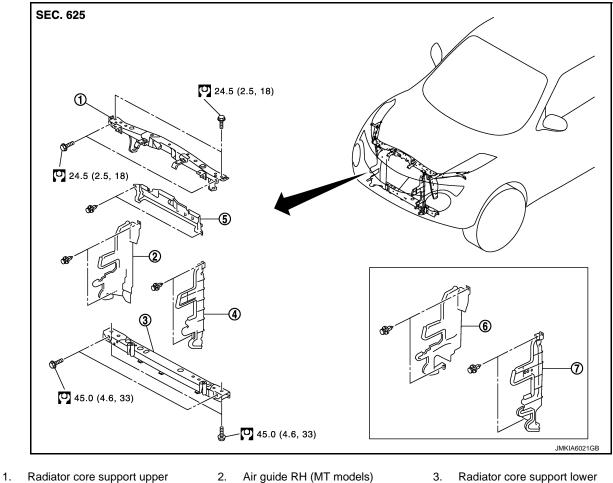
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< REMOVAL AND INSTALLATION >

RADIATOR CORE SUPPORT HR16DE

HR16DE : Exploded View

INFOID:000000006600524



- Ain muide LLL
- 4. Air guide LH
- 7. Air guide RH (CVT models)
- Image: N·m (kg-m, ft-lb)

HR16DE : Removal and Installation

INFOID:000000006600525

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".

5.

2. Remove front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".

Air guide (upper)

- 3. Remove headlamp (LH and RH). Refer to EXL-89, "Removal and Installation".
- 4. Disconnect crash zone sensor harness connector. Refer to <u>SR-26, "Removal and Installation"</u>. CAUTION:

Turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.

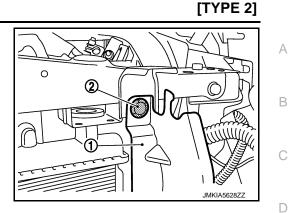
6.

Air guide LH (CVT models)

- 5. Remove hood lock and hood lock cable fixing clip. Refer to <u>DLK-335, "HOOD LOCK : Removal and Instal-</u> lation".
- 6. Remove horn bracket. Refer to HRN-4. "Removal and Installation".
- 7. Remove air guide (upper) fixing clips, and then remove air guide (upper).

< REMOVAL AND INSTALLATION >

8. Remove upper fixing clips (2) of air guide (LH and RH) (1).



- 9. Remove hood support rod. Refer to DLK-309, "HOOD SUPPORT ROD : Removal and Installation".
- 10. Remove mounting bolts, and then remove radiator core support upper.

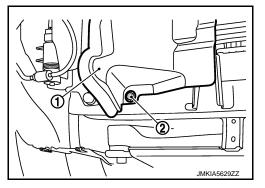
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

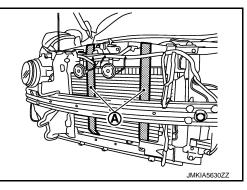
Removal

- 1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".
- Remove lower fixing clips (2) of radiator side seal (LH and RH) (1).



 Use belts (A) to suspend radiator and condenser to prevent them from falling. CAUTION:

Never damage radiator and condenser.



4. Remove mounting bolts, and then remove radiator core support lower.

DLK-311

Installation Install in the reverse order of removal. MR16DDT

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< REMOVAL AND INSTALLATION >

MR16DDT : Exploded View

INFOID:000000006600526

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SEC. 625 24.5 (2.5, 18) ന 24.5 (2.5, 18) 4 A : 🔽 45.0 (4.6, 33) B : 🖸 55.0 (5.6, 41) A : 🔽 45.0 (4.6, 33) B : 🔽 55.0 (5.6, 41) JMKIA6022GE

- Radiator core support upper 1.
- 2. Air guide RH

- Air guide LH 4.
- : 2WD models А
- В : 4WD models
- : N·m (kg-m, ft-lb)

MR16DDT : Removal and Installation

INFOID:000000006600527

3. Radiator core support lower

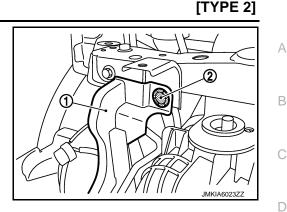
RADIATOR CORE SUPPORT UPPER

Removal

- 1. Remove front bumper fascia. Refer to EXT-13. "Removal and Installation".
- 2. Remove front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 3. Remove headlamp (LH and RH). Refer to EXL-89, "Removal and Installation".
- 4. Disconnect crash zone sensor harness connector. Refer to SR-26, "Removal and Installation". **CAUTION:**
 - Turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.
- 5. Remove hood lock and hood lock cable fixing clip. Refer to DLK-335, "HOOD LOCK : Removal and Installation".
- 6. Remove horn bracket. Refer to HRN-4, "Removal and Installation".

< REMOVAL AND INSTALLATION >

7. Remove upper fixing clips (2) of air guide (LH and RH) (1).



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- 8. Remove hood support rod. Refer to DLK-309, "HOOD SUPPORT ROD : Removal and Installation".
- 9. Remove mounting bolts, and then remove radiator core support upper.

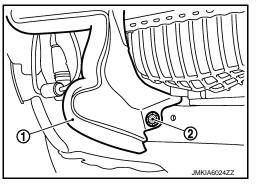
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

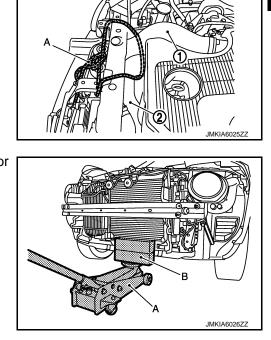
Removal

- 1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".
- Remove lower fixing clips (2) of radiator side seal (LH and RH) (1).



 Using strings (A), hang inlet hose (1) and inlet hose (2) together with charge air cooler.
 CAUTION:

Never damage inlet hoses with charge air cooler.



 Support lower side radiator using wooden blocks (B) and a floor jack (A).
 CAUTION: Never damage radiator.

5. Remove mounting bolts, and then remove radiator core support lower.

Installation

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

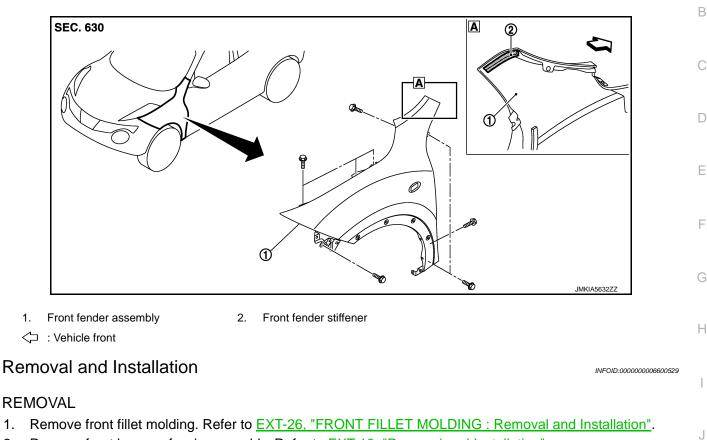
FRONT FENDER

< REMOVAL AND INSTALLATION >

FRONT FENDER

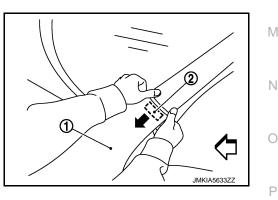
Exploded View

INFOID:00000006600528



- Remove front bumper fascia assembly. Refer to <u>EXT-13, "Removal and Installation"</u>.
- 3. Remove sill cover. Refer to EXT-23, "Removal and Installation".
- Remove fender protector. Refer to <u>EXT-22, "Removal and Installation"</u>.
- Remove front fender cover. Refer to EXT-20, "Exploded View".
- 6. Remove front combination lamp. Refer to EXL-91, "Removal and Installation".
- Remove side turn signal lamp. Refer to <u>EXL-98, "Removal and Installation"</u>.
- Remove mounting bolts of front fender assembly. 8.
- 9. Remove front fender stiffener (2) from the vehicle body while carefully pulling upper portion of front fender (1) toward vehicle outside.

: Vehicle front



10. Remove front fender assembly.

CAUTION:

1.

An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Note the following items, and install in the reverse order of removal.

DLK-315

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CAUTION:

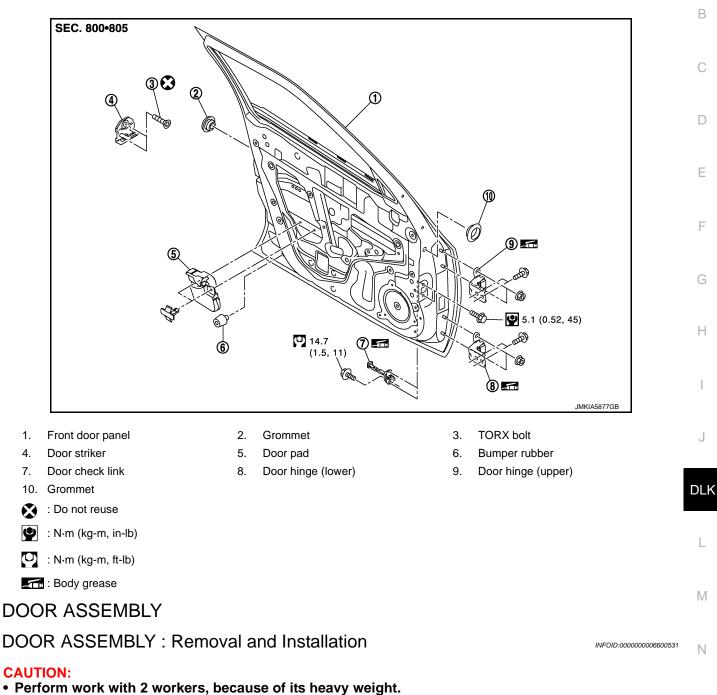
- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.
- After installation, adjust the following part.
- Hood assembly: Refer to <u>DLK-305, "HOOD ASSEMBLY : Adjustment"</u>.
- Front door: Refer to <u>DLK-319, "DOOR ASSEMBLY : Adjustment"</u>.

< REMOVAL AND INSTALLATION >

FRONT DOOR

Exploded View

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• When removing and installing front door assembly, support door with a jack and shop cloth to pro-

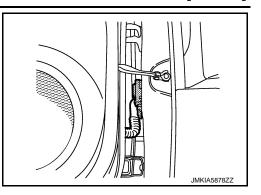
REMOVAL

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< REMOVAL AND INSTALLATION >

1. Disconnect front door harness connector.



[TYPE 2]

- 2. Remove mounting bolt of door check link on the vehicle.
- 3. Remove door hinge mounting bolts (door side), and then remove door assembly.

INSTALLATION

Note the following items, and 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.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-319, "DOOR ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

[TYPE 2]



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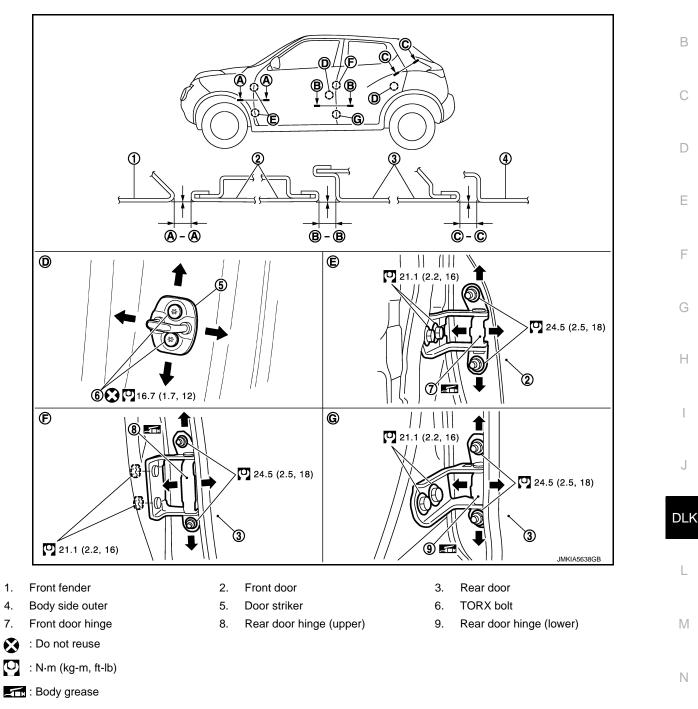
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Check the clearance and surface height between front door and each part by visually and touching. 0 If the clearance and the surface height are out of specification, adjust them according to the procedures shown below. I Init: mm (in)

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.0 – 5.0 (0.118 – 0.197)	(-1.0) – (+1.0) [(-0.039) – (+0.039)]
Front door – Rear door	B – B	3.3 – 5.3 (0.130 – 0.209)	(-1.0) – (+1.0) [(-0.039) – (+0.039)]

FITTING ADJUSTMENT PROCEDURE

1.

4.

7.

- Remove front fender. Refer to DLK-315, "Removal and Installation". 1.
- 2. Loosen door hinge mounting nuts on door side.

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< REMOVAL AND INSTALLATION >

- 3. Adjust the surface height of front door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting bolts on body side.
- 6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
- After adjustment tighten bolts and nuts to the specified torque. CAUTION:
 - After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
 - Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- 8. Install front fender. Refer to refer to <u>DLK-315</u>, "Removal and Installation".

DOOR STRIKER ADJUSTMENT

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

DOOR STRIKER : Removal and Installation

INFOID:000000006600533

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Check front door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-319, "DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000006600534

REMOVAL

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.
- 1. Remove front fender. Refer to <u>DLK-315, "Removal and Installation"</u>.
- 2. Remove front door assembly. Refer to <u>DLK-317</u>, "DOOR ASSEMBLY : Removal and Installation".
- 3. Remove front door hinge mounting bolts (body side), and then remove front door hinge.

INSTALLATION

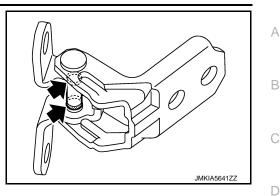
Note the following items, and install in the reverse order of removal.

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-319, "DOOR ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

< REMOVAL AND INSTALLATION >

- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - : Grease up point

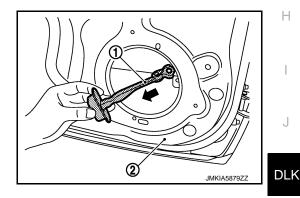


DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

REMOVAL

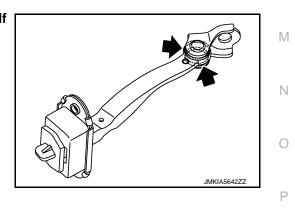
- 1. Fully close the front door window.
- 2. Remove front door finisher. Refer to INT-13, "Removal and Installation".
- 3. Disconnect harness connector of front door speaker.
- 4. Remove mounting bolts of front door speaker, and then remove front door speaker.
- 5. Remove mounting bolt of door check link on the vehicle.
- 6. Remove mounting bolts 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 item, 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



[TYPE 2]

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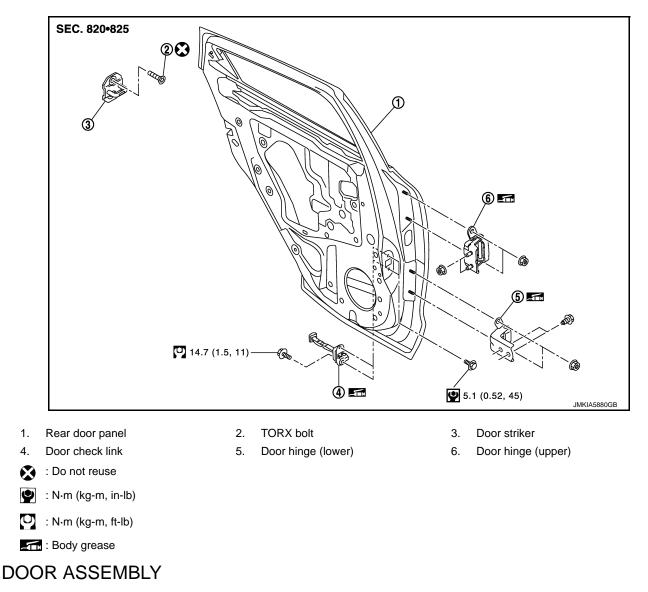
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< REMOVAL AND INSTALLATION >

REAR DOOR

Exploded View

INFOID:000000006600536



DOOR ASSEMBLY : Removal and Installation

CAUTION:

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

INFOID:000000006600537

REAR DOOR

< REMOVAL AND INSTALLATION >

1. Remove rear door harness grommet (2) from body side outer (1), and then pull out rear door harness.

2. Disconnect rear door harness connector.

- 3. Remove mounting bolt of door check link on the vehicle.
 4. Remove door hinge mounting bolts (door side), and then remove rear door assembly.
 INSTALLATION

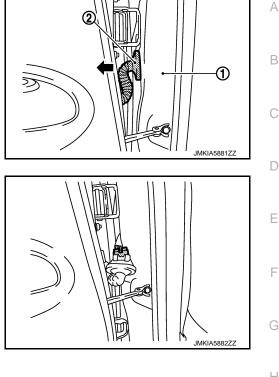
 Note the following items, and install in the reverse order of removal.
 CAUTION:
 Apply anticorrosive agent onto the mounting surface.
 Check rear door open/close, lock/unlock operation after installation.
 Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 After installation, perform the fitting adjustment. Refer to <u>DLK-324, "DOOR ASSEMBLY : Adjustment".</u>
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts. DLK

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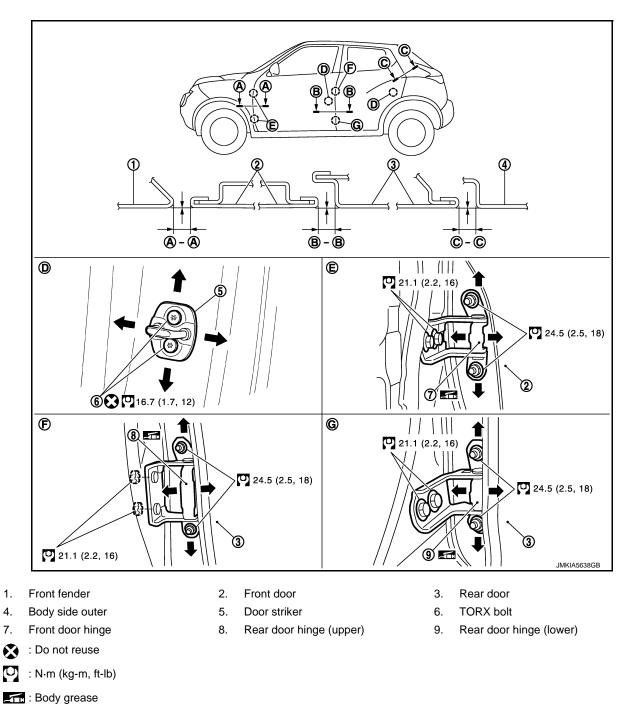
REAR DOOR

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

INFOID:000000006600538

I Init: mm (in)



Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.3 – 5.3 (0.130 – 0.209)	(-1.0) – (+1.0) [(-0.039) – (+0.039)]
Rear door – Body side outer	C – C	2.6 - 4.6 (0.102 - 0.181)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]

FITTING ADJUSTMENT PROCEDURE

1. Remove center pillar lower garnish. Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH : Removal</u> and Installation".

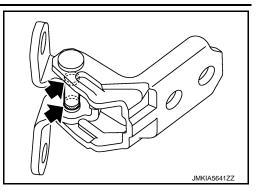
REAR DOOR

	REAR DOOR
< F	EMOVAL AND INSTALLATION > [TYPE 2]
2.	Loosen door hinge mounting nuts on door side.
3.	Adjust the surface height of rear door according to the fitting standard dimension.
4.	Temporarily tighten door hinge mounting nuts on door side.
5.	Loosen door hinge mounting nuts and bolts on body side.
6.	Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
7.	After adjustment tighten bolts and nuts to the specified torque.
	 CAUTION: After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
	 Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
8.	Install center pillar lower garnish. Refer to INT-20, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
	OR STRIKER ADJUSTMENT
	ust door striker so that it becomes parallel with door lock insertion direction. OOR STRIKER
DC	OOR STRIKER : Removal and Installation
	MOVAL move TORX bolts, and then remove door striker.
	STALLATION
No	te the following items, and install in the reverse order of removal. UTION:
• A A	check rear door open/close, lock/unlock operation after installation. Ifter installation, be sure to perform the fitting adjustment. Refer to <u>DLK-324, "DOOR ASSEMBLY :</u> Idjustment". DOR HINGE
DC	DOR HINGE : Removal and Installation
• F • V t(UTION: erform work with 2 workers, because of it's heavy weight. Vhen removing and installing rear door assembly, support door with a jack and shop cloth to pro- ect door and body.
RE	MOVAL
1.	Remove rear door assembly. Refer to <u>DLK-322, "DOOR ASSEMBLY : Removal and Installation"</u> .
2.	Remove center pillar lower garnish. Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH : Removal</u> and Installation".
3.	Remove rear door hinge mounting bolts and nuts (body side), and then remove door hinge.
INS	STALLATION
	te the following items, and install in the reverse order of removal. UTION:
-	pply anticorrosive agent onto the mounting surface.
	heck rear door open/close operation after installation.
	When removing and installing rear door assembly, perform the fitting adjustment. Refer to DLK-324.
• V	
• V 	DOOR ASSEMBLY : Adjustment ["] . Ifter installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

REAR DOOR

< REMOVAL AND INSTALLATION >

- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - : Grease up point

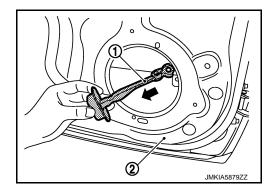


DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

REMOVAL

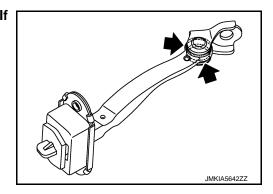
- 1. Fully close the rear door window.
- 2. Remove rear door finisher. Refer to INT-16, "Removal and Installation".
- 3. Remove mounting bolts of rear door speaker, and then remove rear door speaker.
- 4. Disconnect harness connector of rear door speaker.
- 5. Remove mounting bolt of the check link on the vehicle.
- 6. Remove mounting bolts of the 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 rear 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 > **BACK DOOR**

Exploded View

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REMOVAL

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1 A D Ó 7 🗖 2 Н 3 5 4 JMKIA5652Z Back door weather-strip Back door stay Back door stay lower bracket 1. 2. 3. Bumper rubber 5. Back door striker 6. Back door panel 4. DLK 7. Back door hinge 8. Hole cover : Center mark А В : Seam : Do not reuse (\mathbf{X}) : Body grease BACK DOOR ASSEMBLY Μ BACK DOOR ASSEMBLY : Removal and Installation INFOID:000000006600543 Ν CAUTION: • Operate with two workers, because of its heavy weight. • Use protective tape or shop cloth to protect from damage during removal and installation. 0 REMOVAL

Remove luggage side upper finisher (LH and RH). Refer to INT-32, "LUGGAGE SIDE UPPER FINISHER 1. : Removal and Installation".

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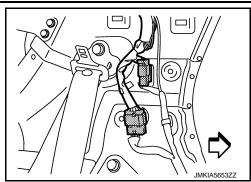
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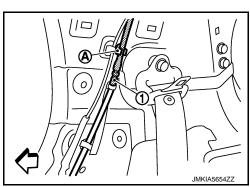
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- 2. Disconnect harness connector.

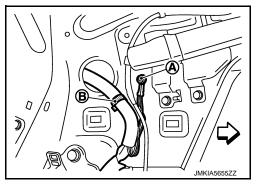


- 3. Remove rear washer hose (1) from hose mounting clip (A), and then disengage hose.
 - \triangleleft : Vehicle front

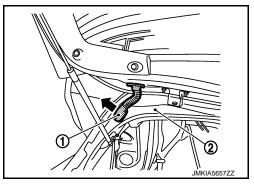


- 4. Remove center pillar upper garnish. Refer to <u>INT-21, "CENTER PILLAR UPPER GARNISH : Removal</u> and Installation".
- 5. Remove upper side of back door weather-strip. Refer to <u>DLK-333, "BACK DOOR WEATHER-STRIP :</u> <u>Removal and Installation"</u>.
- 6. Remove rear assist grip (LH and RH) and mounting clips for rear portion of headlining, and then remove rear portion of headlining. Refer to <u>INT-26</u>, "Exploded View".
- 7. Remove ground harness mounting bolt (A) and harness fixing clip (B).

 \triangleleft : Vehicle front



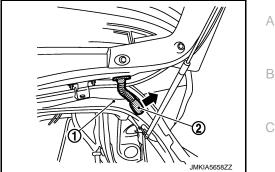
Remove grommet (1), and then pull out harness from roof panel (2).



< REMOVAL AND INSTALLATION >

[TYPE 2]

9. Remove grommet (2), and then pull out harness and washer tube from roof panel (1).



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10. Support back door with the proper material to prevent it from falling. WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the ${}_{\mbox{\footnotesize E}}$ back door stay.

- 11. Remove back door stay (back door side). Refer to <u>DLK-332</u>, "<u>BACK DOOR STAY</u> : <u>Removal and Installa-</u> <u>tion</u>".
- 12. Remove back door hinge mounting nuts on back door and remove back door assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-330, "BACK DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

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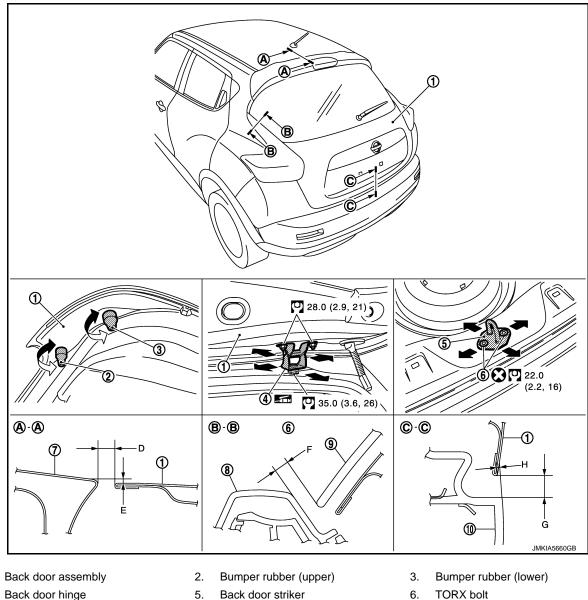
< REMOVAL AND INSTALLATION >

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000006600544

Unit: mm (in)

[TYPE 2]



- 4.
- 7. Roof panel

1.

- 10. Rear bumper fascia
- : Do not reuse (\mathbf{x})
- : N·m (kg-m, ft-lb)
- : Body grease

- Back door striker
- 8. Rear combination lamp
- TORX bolt
- 9. Back door glass

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.

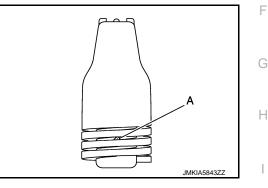
	Portior)		Standard	Difference (LH/RH, MAX)
Roof panel – Back		D	Clearance	5.0 - 7.0 (0.197 - 0.276)	_
door	A – A	Ε	Surface height	0.9 – 2.9 (0.035 – 0.114)	_

< REMOVAL AND INSTALLATION >

Portion				Standard	Difference (LH/RH, MAX)	А
Rear combination lamp – Back door glass	B – B	F	Clearance	2.8 – 7.2 (0.110 – 0.283)	<2.0 (0.079)	В
Rear bumper fas-	C – C	G	Clearance	6.0 – 10.0 (0.236 – 0.394)	_	-
cia – Back door	H S	Surface height	(-2.5) - (+1.0) [(-0.098) - (+0.039)]	_	С	

FITTING ADJUSTMENT PROCEDURE

- 1. Loosen back door striker mounting bolts.
- 2. Loosen back door hinge mounting nuts (back door side).
- 3. Adjust back door using back door striker and back door hinge to the specified value, as shown in the following table.
- After adjustment tighten back door striker mounting bolts and back door hinge mounting nuts (back door side) to the specified torque.
- 5. Screw bumper rubber (upper) into the stopper position (A), and then loosen by a half turn.
- 6. Screw bumper rubber (lower) into the end position of threads.



CAUTION:

After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.

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 Remove luggage rear plate. Refer to INT-30, "LUGGAGE REAR PLATE : Removal and Installation". 1. Μ Remove TORX bolts, and then remove back door striker. 2 INSTALLATION Ν Note the following items, and install in the reverse order of removal. CAUTION: After installation, check back door open/close, lock/unlock operation. After installation, perform the fitting adjustment. Refer to <u>DLK-330, "BACK DOOR ASSEMBLY :</u> <u>Adjustment".</u> BACK DOOR HINGE BACK DOOR HINGE : Removal and Installation INFOID:000000006600546

REMOVAL

- 1. Remove back door assembly. Refer to DLK-327, "BACK DOOR ASSEMBLY : Removal and Installation".
- 2. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

DLK-331

[TYPE 2]

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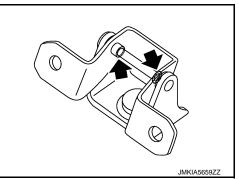
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< REMOVAL AND INSTALLATION >

Note the following items, and install in the reverse order of removal. **CAUTION:**

- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-330, "BACK DOOR ASSEMBLY :</u> <u>Adjustment"</u>.
- 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

REMOVAL

- 1. Remove luggage side upper finisher and rear pillar cap. Refer to <u>INT-32, "LUGGAGE SIDE UPPER FIN-ISHER : Removal and Installation"</u>.
- 2. Support the back door with the suitable material to prevent it from falling.

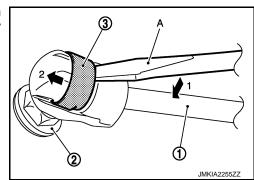
WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

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

Be careful not to damage painted surface.

5. Remove back door stay (back door side).



6. Remove mounting bolts, and then remove back door stay lower bracket.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- After installation, check back door open/close, lock/unlock operation.

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< REMOVAL AND INSTALLATION >

BACK DOOR STAY : Disposal

- 1. Fix back door stay (1) using a vise (C).
- 2. Using hacksaw (A) slowly make 2 holes in the back door stay, in numerical order as shown in the figure. **CAUTION:**
 - When cutting a hole on back door stay, always cover a hacksaw using a shop cloth (B) to avoid scattering metal fragments or oil.
 - Wear eye protection (safety glasses).
 - Wear gloves.
 - A: 20 mm (0.787 in)
 - B: Cut at the groove.



BACK DOOR WEATHER-STRIP : Removal and Installation

REMOVAL

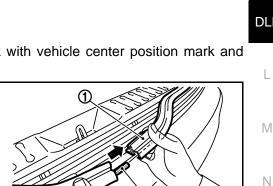
Pull up and remove engagement with body from weather-strip joint.

CAUTION:

Never pull strongly on weather-strip.

INSTALLATION

- 1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.
- 2. For the lower section, insert pad (A) into weather-strip (1), and then fix the connection point.



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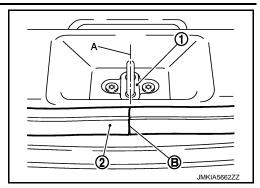
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< REMOVAL AND INSTALLATION >

[TYPE 2]

3. Align the connecting point (B) of weather-strip (2) to the center (A) of striker (1), and then install as shown in the figure.

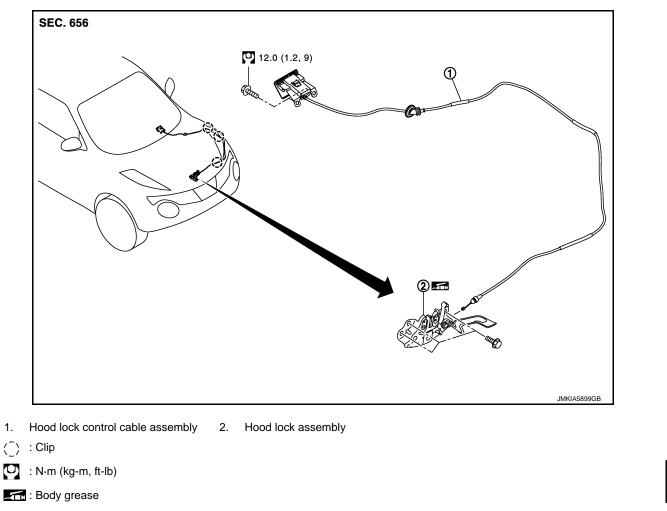


 Pull weather-strip gently to ensure that there is no loose section.
 NOTE: Check that weather-strip fits tightly in each corner and luggage rear plate.

< REMOVAL AND INSTALLATION > HOOD LOCK

Exploded View

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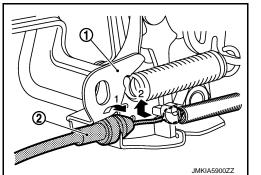


HOOD LOCK

HOOD LOCK : Removal and Installation

REMOVAL

- 1. Remove front center grille. Refer to EXT-18. "Removal and Installation".
- 2. Remove crash zone sensor. Refer to SR-26, "Removal and Installation".
- 3. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
- 4. Disconnect hood lock control cable assembly (2) from hood lock assembly (1).



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After installation, perform hood lock control inspection. Refer to <u>DLK-336</u>, "Inspection".

HOOD LOCK CONTROL CABLE : Removal and Installation

Check that hood lock control cable is properly engaged with hood lock.

Note the following items, and install in the reverse order of removal.

REMOVAL

CAUTION:

ment".

- 1. Disconnect hood lock control cable assembly from hood lock assembly.
- 2. Remove fender protector (LH). Refer to EXT-22, "Removal and Installation".
- 3. Remove hood lock cable clip.

< REMOVAL AND INSTALLATION >

HOOD LOCK CONTROL CABLE

4. Remove hood lock control cable assembly of instrument lower panel (LH), and then remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).

Remove grommet on the lower dash, and pull the hood lock control cable toward the passenger compart-5. ment.

CAUTION:

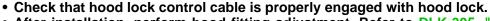
While pulling, never to damage (peeling) the outside of hood lock control cable.

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.



- After installation, perform hood fitting adjustment. Refer to DLK-305, "HOOD ASSEMBLY : Adjustment".
- After installation, perform hood lock control inspection. Refer to <u>DLK-336</u>, "Inspection".

Inspection

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NOTE:

If the hood lock cable is bent or deformed, replace it.

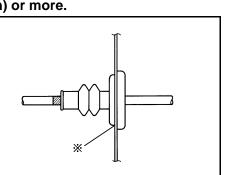
1. Check that secondary latch is securely engaged with securely striker from the dead load of the hood assembly.

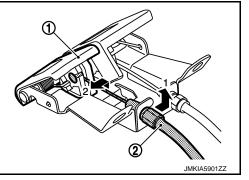
HOOD LOCK

• After installation, perform hood fitting adjustment. Refer to DLK-305, "HOOD ASSEMBLY : Adjust-

DLK-336

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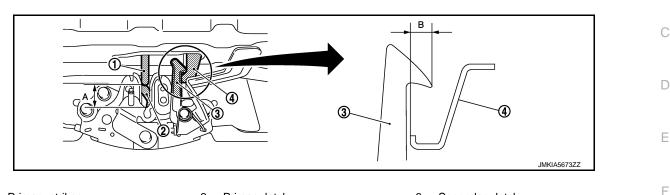
HOOD LOCK

< REMOVAL AND INSTALLATION >

2. 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:**

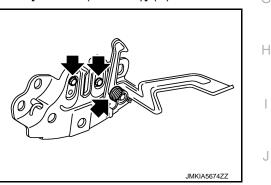
Never free-fall hood assembly from a height of 300 (11.811 in) mm or more.

3. While operating the hood opener carefully, check that the front end of the hood is lifted by approximately В 20 mm (0.787 in) (A). Also, check that the hood opener returns to the original position.



- 1. Primary striker 4. Secondary striker
- 2. Primary latch

- 3. Secondary latch
- Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B). 4.
- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.
 - : Grease up point



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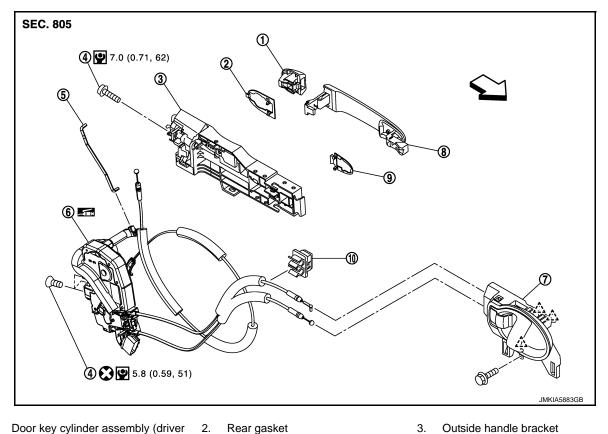
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FRONT DOOR LOCK

Exploded View

INFOID:000000006600554

[TYPE 2]



- 1. Door key cylinder assembly (driver 2. side) Outside handle escutcheon (passenger side) 5. Key rod (driver side)
- 4. TORX bolt
- 7. Inside handle
- 10. Cable clip
- <u> </u> : Pawl
- ⟨⊐ : Vehicle front
- : Do not reuse
- 🔮 : N·m (kg-m, in-lb)
- : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

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Door lock assembly

Front gasket

6.

9.

REMOVAL

- 1. Remove front door glass and front door lower sash (rear). Refer to GW-17, "Removal and Installation".
- 2. Remove inside handle. Refer to <u>DLK-339</u>, "INSIDE HANDLE : Removal and Installation".
- 3. Disengage inside handle cable and lock knob cable from cable clip.

8.

Outside handle

- 4. Remove outside handle bracket. Refer to <u>DLK-339, "OUTSIDE HANDLE : Removal and Installation"</u>.
- 5. Remove door lock assembly TORX bolts.
- 6. Disconnect door lock actuator connector, and then remove door lock assembly.

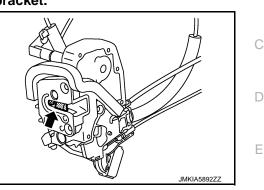
DLK-338

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

Note the following items, and install in the reverse order of removal.

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- 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

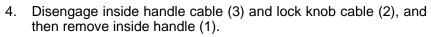


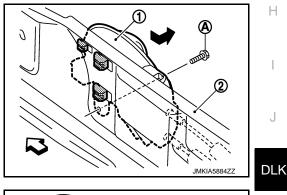
INSIDE HANDLE

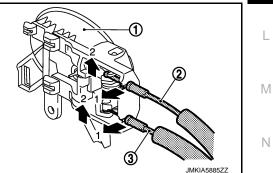
INSIDE HANDLE : Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to INT-13, "Removal and Installation".
- 2. Remove inside handle mounting bolt (A).
- 3. Disengage inside handle (1) from door panel (2) while sliding inside handle toward vehicle rear, and then separate inside handle.
 - : Vehicle front







INSTALLATION Note the following item, and install in the reverse order of removal. CAUTION: Check door open/close, lock/unlock operation after installation. OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

REMOVAL

- 1. Fully close the front door glass.
- 2. Remove front door finisher. Refer to INT-13, "Removal and Installation".

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DLK-339

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3. Remove sealing screen. **NOTE:**

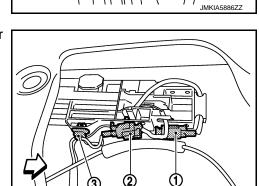
Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

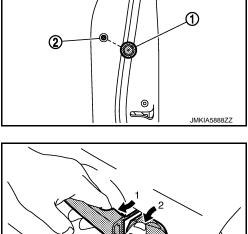
4. Disengage lock holder (1), and then separate key rod (3) from door lock assembly (2).(Driver side)

- 5. Disconnect harness connector of door antenna (1) and door request switch (2) and remove harness clamp (3).
 - └□ : Vehicle front

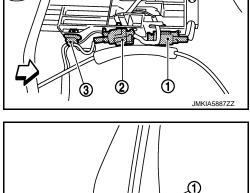
6. Remove grommet (1) of door side. Loosen, through grommet hole, TORX bolt (2) that fixes door lock cylinder. (For passenger side, TORX bolt fixes outside handle escutcheon.)

7. While pulling outside handle, remove door key cylinder assembly (diver side) or outside handle escutcheon (passenger side).





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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

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8. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

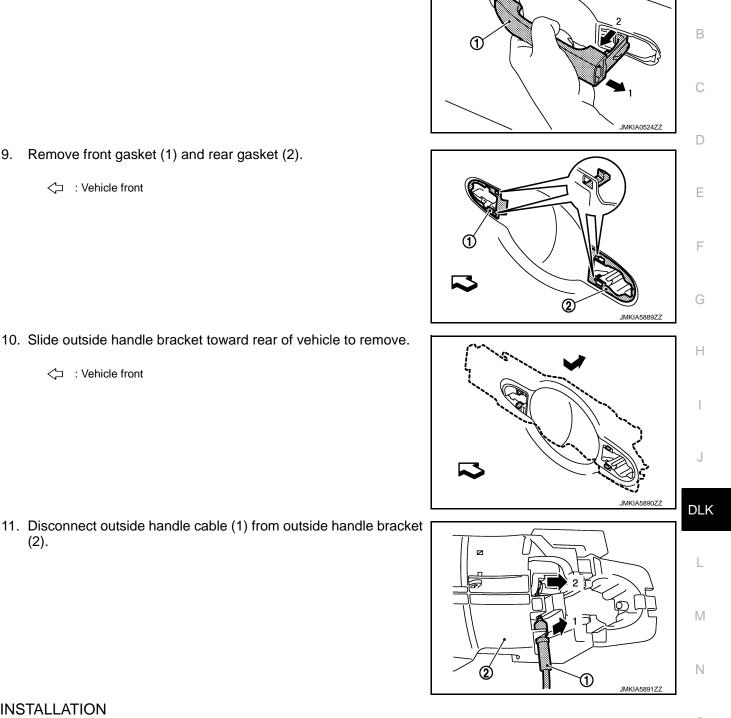




(2).

Note the following items, and install in the reverse order of removal. **CAUTION:**

- When installing key rod, rotate key rod holder until a click is felt.
- Check that door lock cables are normally engaged with inside handle and outside handle.
- After installation, check door open/close, and lock/unlock operation.



[TYPE 2]

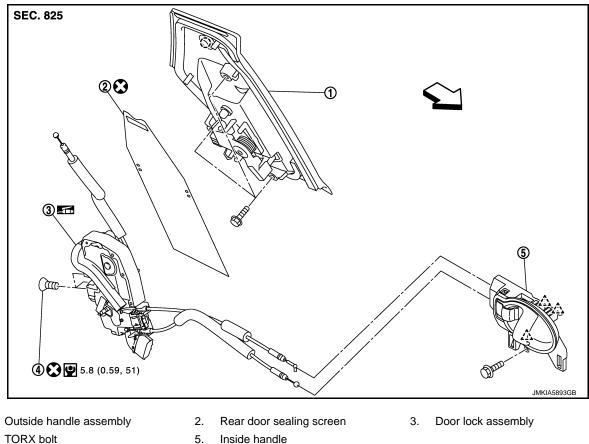
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REAR DOOR LOCK

Exploded View

INFOID:00000006600558



- 1. Outside handle assembly
- 4.
- : Clip
- △ : Pawl
- ⟨□ : Vehicle front
- : Do not reuse
- : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000006600559

REMOVAL

- 1. Remove rear door glass and rear door lower sash (rear). Refer to <u>GW-21, "Removal and Installation"</u>.
- 2. Remove inside handle. Refer to DLK-343, "INSIDE HANDLE : Removal and Installation".
- Remove outside handle. Refer to <u>DLK-343, "OUTSIDE HANDLE : Removal and Installation"</u>.
- 4. Remove door lock assembly TORX bolts.
- 5. Disconnect door lock actuator connector, and then remove door lock assembly.

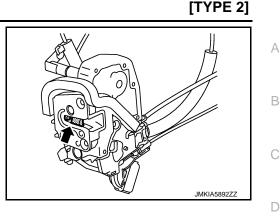
INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- Check door open/close, lock/unlock operation after installation.

DLK-342

- Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.
 - : Grease up point



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INSIDE HANDLE

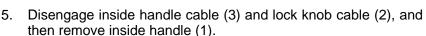
INSIDE HANDLE : Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-16, "Removal and Installation".
- 2. Remove upper 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.

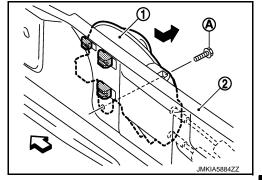
- 3. Remove inside handle mounting bolt (A).
- 4. Disengage inside handle (1) from door panel (2) while sliding inside handle toward vehicle rear, and then separate inside handle.

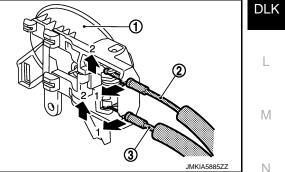




REMOVAL

- 1. Remove rear door finisher and rear door corner cover inner. Refer to INT-16, "Removal and Installation".
- 2. Remove rear door sealing screen.



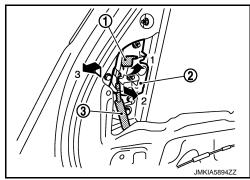


REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

- 3. Rotate stopper (1) upward.
- 4. Disengage outside handle cable (2), and then remove outside handle cable from outside handle assembly (3).

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5. Remove outside handle assembly mounting bolts (A).

 Disengage mounting clips using a remover tool (A), and then remove outside handle assembly.
 CAUTION:

Apply protective tape (B) on the door panel to protect the painted surface from damage.

(_) : Clip

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Never reuse rear door sealing screen. Always replace it with a new one when it is removed. When installing rear door sealing screen, install it according to the following procedure.
- Put lower portion of rear door sealing screen (1) into inside of door panel (2).
- Perform positioning according to the following procedure, and then install rear door sealing screen.
- Align upper portion of rear door sealing screen to hole (A) of door panel as shown in the figure.
- Align hole of rear door sealing screen to edge (B) of door panel as shown in the figure.
- Be careful to position outside handle cable normally when installing it. For details, refer to <u>DLK-342</u>, <u>"Exploded View"</u>.
- Check door open/close, lock/unlock operation after installation.

DLK-344

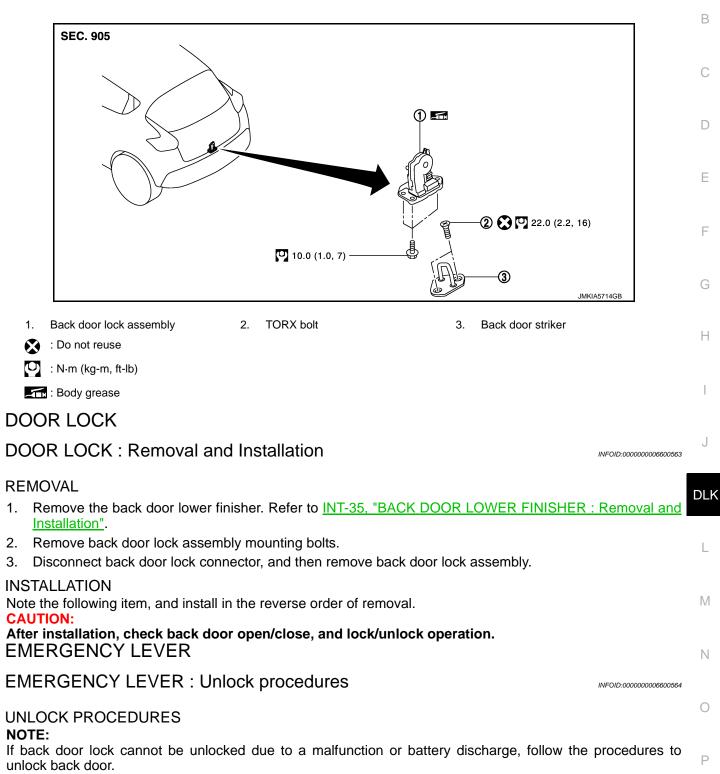
BACK DOOR LOCK

< REMOVAL AND INSTALLATION > BACK DOOR LOCK

Exploded View

[TYPE 2]

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1. Remove emergency lid. Refer to INT-36, "EMERGENCY LID : Removal and Installation".

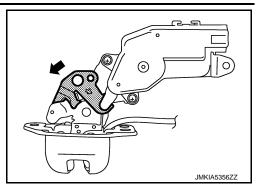
DLK-345

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BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

2. From inside the vehicle, rotate emergency lever toward lower direction and unlock.



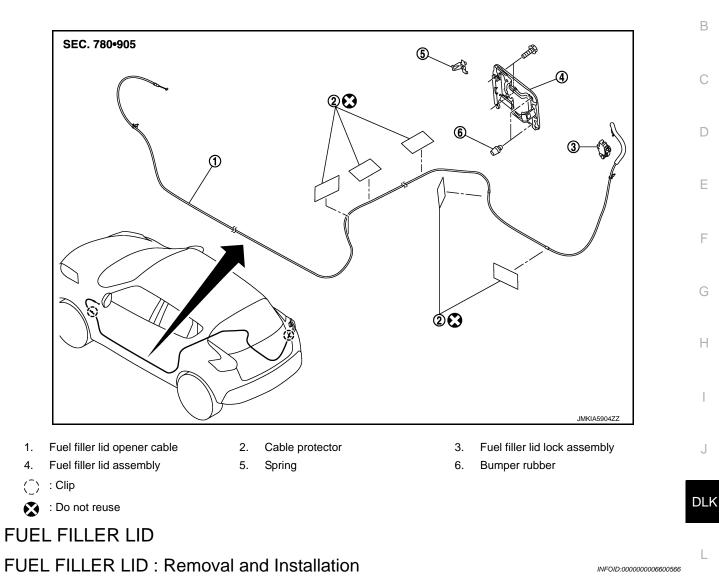
FUEL FILLER LID OPENER

Exploded View

INFOID:000000006600565

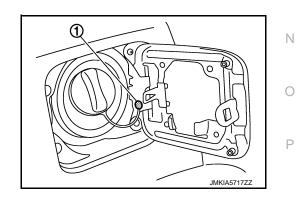
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REMOVAL

- 1. Fully open fuel filler lid.
- 2. Remove fuel mounting pin (1).



3. Remove mounting screws, and then remove fuel filler lid.

INSTALLATION

Note the following items, and install in the reverse order of removal.

DLK-347

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

CAUTION:

- After installation, check fuel filler lid assembly open/close, lock/unlock operation.
- After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.
 NOTE:
- The following table shows the specifide values for checking nomal installation status.
- Fitting adjustment cannot be perfomed.

Unit: mm (in)

	Clearance	Evenness
Fuel filler lid – Body side outer	2.0 – 4.0 (0.079 – 0.157)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]

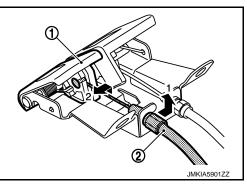
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

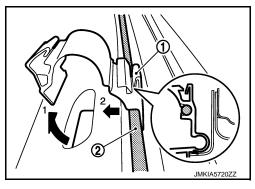
INFOID:000000006600567

REMOVAL

- 1. Remove hood lock control cable assembly from instrument lower panel (LH). Refer to <u>DLK-336, "HOOD</u> <u>LOCK CONTROL CABLE : Removal and Installation"</u>.
- 2. Remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).



- 3. Remove front kicking plate inner (LH) and rear kicking plate inner (LH and RH). Refer to <u>INT-19, "KICK-ING PLATE INNER : Removal and Installation"</u>.
- 4. Remove dash side finisher (LH). Refer to INT-20, "DASH SIDE FINISHER : Removal and Installation".
- 5. Remove center pillar lower garnish (LH). Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH :</u> <u>Removal and Installation"</u>.
- 6. Remove luggage side lower finisher (RH). Refer to <u>INT-31, "LUGGAGE SIDE LOWER FINISHER :</u> <u>Removal and Installation"</u>.
- 7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to <u>DLK-349</u>, "FUEL FILLER LID <u>LOCK : Removal and Installation"</u>.
- 8. Disengage each harness protector (1), and then remove fuel filler lid opener cable (2).



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

DLK-348

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

FUEL FILLER LID LOCK : Removal and Installation

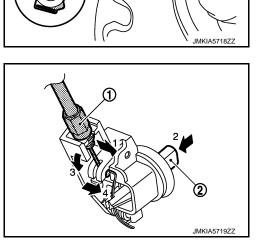
INFOID:000000006600568

REMOVAL

- 1. Fully open fuel filler lid.
- В 2. Remove luggage side lower finisher (RH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
- 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.

4. Disengage fuel filler lid opener cable (1). Remove fuel filler lid opener cable while pressing stopper pin (2).



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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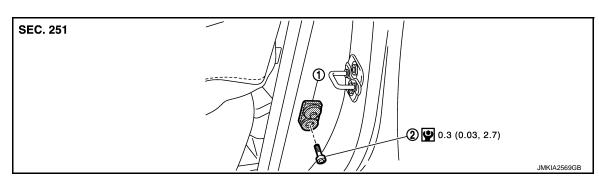
< REMOVAL AND INSTALLATION > DOOR SWITCH

Exploded View

INFOID:000000006620616

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[TYPE 2]



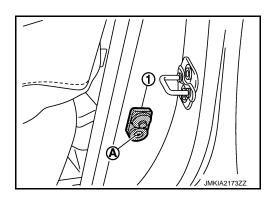
1. Door switch

2. TORX bolt

Removal and Installation

REMOVAL

Remove the TORX bolt (A), and then remove door switch (1).



INSTALLATION Install in the reverse order of removal.

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Removal and Installation

REMOVAL

- 1. Remove the multi display unit. Refer to AV-125, "Removal and Installation".
- 2. Remove the inside key antenna (instrument center) (1) mounting clip (A), and then remove inside key antenna (instrument center). **CAUTION:**

Be careful not to drop mounting clip (A) into instrument panel.

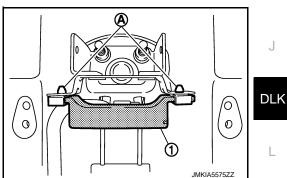
INSTALLATION Install in the reverse order of removal. CONSOLE

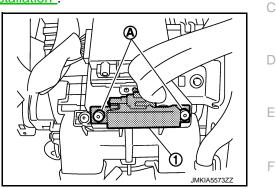
CONSOLE : Removal and Installation

REMOVAL

- Remove the center console assembly. Refer to <u>IP-23, "Removal and Installation"</u>.
- 2. Remove the inside key antenna (console) (1) mounting clip (A), and then remove inside key antenna (console).







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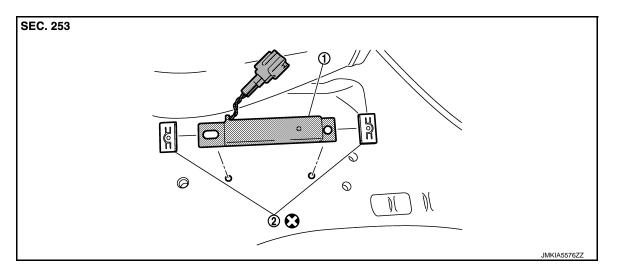
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INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM : Exploded View

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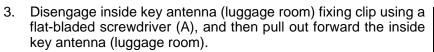
- 1. Inside key antenna (luggage room) 2. Clip
- : Do not reuse

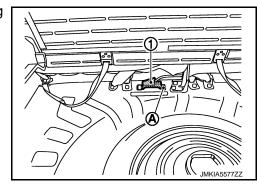
LUGGAGE ROOM : Removal and Installation

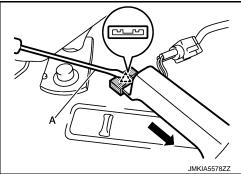
INFOID:000000006620621

REMOVAL

- 1. Remove the luggage floor finisher. Refer to INT-29, "Exploded View".
- 2. Remove the inside key antenna (luggage room) (1) mounting clip RH (A).







INSTALLATION Install in the reverse order of removal. CAUTION: Visually check the clips for deformation and damage during installation. Replace with new ones if necessary.

DE VEV ANTENNA

OUTSIDE KEY ANTENNA	
< REMOVAL AND INSTALLATION >	[TYPE 2]
OUTSIDE KEY ANTENNA DRIVER SIDE	A
DRIVER SIDE : Removal and Installation	INFOID:000000006620622
REMOVAL Remove the driver side outside handle. Refer to <u>DLK-339, "OUTSIDE HANDLE</u> INSTALLATION Install in the reverse order of removal. PASSENGER SIDE	
PASSENGER SIDE : Removal and Installation	INFOID:00000006620623
REMOVAL Remove the passenger side outside handle. Refer to <u>DLK-339, "OUTSIDE HA</u>	E NDLE : Removal and Installa-
tion". INSTALLATION Install in the reverse order of removal. REAR BUMPER	F
REAR BUMPER : Removal and Installation	INF0/D:00000006620624
REMOVAL	Н
 Remove the rear bumper fascia. Refer to <u>EXT-16. "Removal and Installation</u> Remove the outside key antenna (rear bumper) (1) mounting clip (A), then remove outside key antenna (rear bumper). 	
INSTALLATION	JMKIA5580ZZ
Install in the reverse order of removal.	Μ

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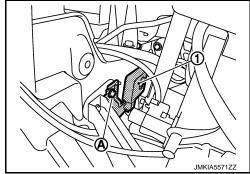
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INTELLIGENT KEY WARNING BUZZER

Removal and Installation

REMOVAL

 Remove the Intelligent Key warning buzzer (1) mounting bolt (A), and then remove the Intelligent Key warning buzzer.



INSTALLATION Install in the reverse order of removal. [TYPE 2]

< REMOVAL AND INSTALLATION > REMOTE KEYLESS ENTRY RECEIVER

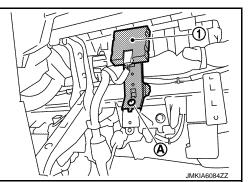
Removal and Installation

REMOVAL

1. Remove the glove box assembly. Refer to IP-13. "Removal and Installation".

REMOTE KEYLESS ENTRY RECEIVER

2. Remove the remote keyless entry receiver (1) mounting bolt (A), and then remove remote keyless entry receiver.



INSTALLATION Install in the reverse order of removal.

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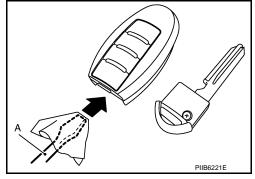
INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY BATTERY

Removal and Installation

- 1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
- Insert a flat-blade screwdriver (A) wrapped with a cloth into the 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.

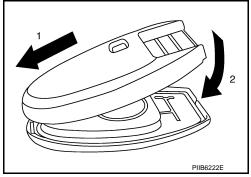


3. Replace the battery with new one.

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.



[TYPE 2]

APPLICATION NOTICE

< HOW TO USE THIS MANUAL >

HOW TO USE THIS MANUAL APPLICATION NOTICE

Information

Check the vehicle type to use the service information in this section.

Service information	Destination	(
Type 1	With Intelligent Key and super lock	
Type 2	With Intelligent Key, without super lock	Γ
Туре 3	Without Intelligent Key, with super lock	
Туре 4	Without Intelligent Key and super lock	
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[TYPE 3]

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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. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

The vehicle may be equipped with a passenger air bag deactivation switch. Because no rear seat exists where a rear-facing child restraint can be placed, the switch is designed to turn off the passenger air bag so that a rear-facing child restraint can be used in the front passenger seat. The switch is located in the center of the instrument panel, near the ashtray. When the switch is turned to the ON position, the passenger air bag is enabled and could inflate for certain types of collision. When the switch is turned to the OFF position, the passenger air bag is disabled and will not inflate. A passenger air bag OFF indicator on the instrument panel lights up when the passenger air bag is switched OFF. The driver air bag always remains enabled and is not affected by the passenger air bag deactivation switch.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.
- The vehicle may be equipped with a passenger air bag deactivation switch which can be operated by the customer. When the passenger air bag is switched OFF, the passenger air bag is disabled and will not inflate. When the passenger air bag is switched ON, the passenger air bag is enabled and could inflate for certain types of collision. After SRS maintenance or repair, make sure the passenger air bag deactivation switch is in the same position (ON or OFF) as when the vehicle arrived for service.

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

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NOTE:

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

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

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

DLK-358

PRECAUTIONS

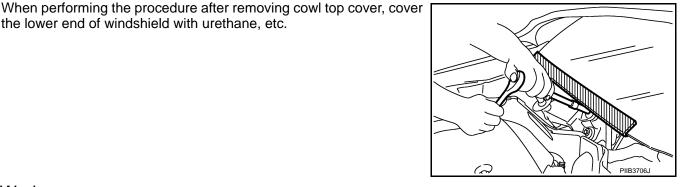
OPERATION PROCEDURE

- 1. Connect both battery cables. NOTE: Supply power using jumper cables if battery is discharged.
- 2. Turn the ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.

the lower end of windshield with urethane. etc.

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

Precaution for Procedure without Cowl Top Cover



Work

INFOID:000000006445166

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- 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

Commercial Service Tools

Tool name		Description
Engine ear	SIIA0995E	Locating the noise
Remover tool	PIIB7923J	Remove the clips, pawls, and metal clips
	1 102 203	
Power tool		
	PIIB1407E	

COMPONENT PARTS

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION **COMPONENT PARTS**

Component Parts Location

9 A 1 \bigcirc 1 6 D (5) Ε 4 F 3 2 A Н 8 DLK JMKIA5928ZZ Back door lock assembly 2. Front door lock assembly (driver 3. Front door switch (driver side) side) L Power window main switch Combination meter 5. Key switch 6. (door lock/unlock switch) Door lock status indicator 8. Remote keyless entry receiver 9. BCM Μ Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location" (with Intelligent Key) or BCS-96, "BODY CONTROL SYSTEM : Ν Component Parts Location" (without Intelligent Key) 11. Air bag diagnosis sensor unit 10. Power window switch (passenger side) (door lock/unlock switch) Refer to SRC-7, "Component Parts Location" View with the glove box assembly removed Ρ

Component Description

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INFOID:000000006445170

Item	Function	
Air bag diagnosis sensor unit	Transmits air bag signal to BCM.	
Back door lock assembly	Opens the back door with the back door open signal from BCM.	

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COMPONENT PARTS

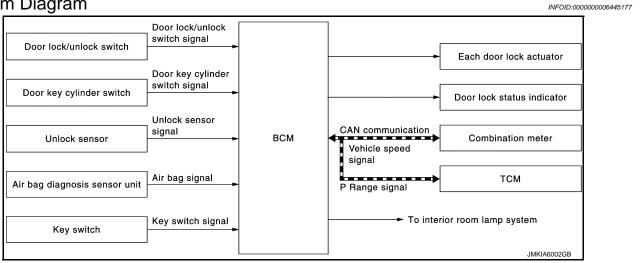
< SYSTEM DESCRIPTION >

Item	Function
BCM	Controls the door lock system.
Combination meter	Performs operation method guide and warning with buzzer.Transmits vehicle seep signal to CAN communication line.
Door lock actuator	Inputs locks/unlocks signal from BCM and locks/unlocks each door.Integrated in each door lock assembly.
Door lock and unlock switch	Transmits door lock/unlock operation to BCM.
Door lock status indicator	The door lock status indicates door lock status.The indicator illuminates when a lock operation is successful.
Door switch	Detects door open/close condition.
Keyfob	Transmits button operation to remote keyless entry receiver.
Key switch	Key switch detects that ignition key is inserted into the ignition key cylinder, and then transmits the signal to BCM.
Remote keyless entry receiver	Receives keyfob operation and transmits to BCM.

< SYSTEM DESCRIPTION >

POWER DOOR LOCK SYSTEM

System Diagram



System Description

INFOID:000000006445178

DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) is build into power window main switch.
- The door lock and unlock switch (passenger side) is 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 and are unlocked.
- With the ignition key inserted in the door key cylinder on driver side, turning it to lock position, locks door lock actuator of all doors.*¹
- With the ignition key inserted in the door key cylinder on driver side, turning it to unlock position, unlocks door lock actuator of all doors.*¹

*1: If equipped.

AIR BAG INTERLOCK UNLOCK FUNCTION

When ignition switch is ON and BCM receives air bag signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag signal to BCM.

OPERATION CONDITION

If all of the following conditions are satisfied, door lock and unlock operation is performed using the door lock/ unlock switch.

Door lock and unlock switch operation	Operation condition	
LOCK	 Ignition Key is removed from ignition key cylinder and closed driver side door*1 Doors other than drivers door are closed*1 Door are not locked by keyfob*2 Door lock that is requested is not auto door lock*2 Super lock is releases 	
UNLOCK	Door are not locked by keyfob* ²	

*1: While door lock and unlock switch is pressed in the lock direction during this state, combination meter buzzer sounds and warns.

*²: When this item becomes OK according to keyfob ID verification, door lock/unlock operation is allowed.

KEY REMINDER FUNCTION

• While ignition key is inserted in ignition key cylinder and driver door is open, door is not locked when door lock and unlock switch is pressed in the lock direction. This prevents keyfob from being left in the vehicle.

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POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

 While door lock and unlock switch is pressed in the lock direction, combination meter buzzer sounds and warns.

DOOR LOCK STATUS INDICATOR OPERATION

The door lock status indicator indicates door lock status under the following condition. And the timer is running to turn OFF the indicator.

Lock operation	Ignition position	Door state	Indicator operation
Door lock and unlock switch	ON	All doors closed	ON
Door lock and unlock switch	ON	Any doors open	OFF
Door lock and unlock switch	ACC, OFF or LOCK*1	All doors closed	ON (30 minute timer)
Keyfob/Auto door lock function	ACC, OFF or LOCK*1	All doors closed	ON (1 minute timer)
Door lock and unlock switch	ACC, OFF or LOCK*1	Driver doors open \rightarrow All doors closed	$OFF \rightarrow$ ON (30 minute timer)
Keyfob	ACC, OFF or LOCK*1	Any doors open \rightarrow All doors closed	$OFF \rightarrow$ ON (1 minute timer)

*1: Steering lock is locked.

1 Minute Timer

A timer must be running to turn OFF the indicator. The timer runs for 1 minute after doors are locked by keyfob or auto door lock.

30 Minute Timer

A timer must be running to turn OFF the indicator. The timer runs for 30 minutes after doors are locked by door lock and unlock switch.

OVERRIDE FUNCTION

When inside handle of front door is operated while doors are in lock states, lock state of the applicable door lock becomes invalid and the door is open.

UNLOCK LINK FUNCTION

When driver side door or passenger side door is opened, all doors are unlocked.

Unlock function operates when driver door or passenger door is open while all of the following conditions are satisfied.

Operation condition	 Doors are locked by door lock/unlock switch or automatic lock/unlock function Driver or passenger door switch is switched from OFF to ON Anti-hijack function is not activated Vehicle speed is 5 km/h (3 MPH) or less
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NOTE:

When anti-hijack function is activated, only the applicable door is unlocked.

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

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

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 10 km/h (6 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 10 km/h (6 MPH) or more.

P Range Interlock Door Lock*2

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

Setting change of Automatic Door Lock/Unlock Function

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

(I) With CONSULT-III

POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

	FOWER DOOR LOCK STSTEIN	
•	< SYSTEM DESCRIPTION > [TYF	PE 3]
I	The ON/OFF switching of the automatic door lock function and the type selection of the automatic door unlock function can be performed at the WORK SUPPORT setting of CONSULT-III.	lock/
	(Relation) Without CONSULT- III The automatic door lock function ON/OFF can be switched by performing the following operation.	
	1. Close all doors (door switch OFF)	
	2. Turn ignition switch ON	
	 Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 onds after turning the ignition switch ON.) sec-
	4. The switching is completed when the hazard warning lamp blinks.	
	$OFF \rightarrow ON$: 2 blinks	
	$OFF \rightarrow ON$. 2 blinks $ON \rightarrow OFF$: 1 blink	
-	AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION) The automatic door lock/unlock function is the function that unlocks all doors linked with the key positi shift position. It has 2 types as follows.	on or
	IGN OFF Interlock Door Unlock*1	
	All doors are unlocked when the power supply position is changed from ON to OFF. BCM outputs the unlock signal to all door lock actuators when it detects that the power supply positi	ion is
	changed from ignition switch ON to OFF.	011 13
F	P Range Interlock Door Unlock* ²	
	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 th position and the shift signal received from TCM via CAN communication is shifted from any position other the P to P position.	
ł	Key out Interlock Door Unlock	
	When ignition key is removed from ignition knob switch, all doors unlock.	to oll
	When BCM detects that ignition key is removed from ignition knob switch, BCM transmits unlock signal door lock actuators.	to all
Ş	Setting change of Automatic Door Lock/Unlock Function	
	The unlock operation setting of the automatic door lock/unlock function can be changed.	
•	With CONSULT- III The ON/OFF switching of the automatic door lock/unlock function and the type selection of the automatic lock/unlock function can be performed at the WORK SUPPORT setting of CONSULT-III.	; door
	 Without CONSULT- III The automatic door lock/unlock function ON/OFF can be switched by performing the following operation. Close all doors below (door switch OFF) 	
	2. Turn ignition switch ON	
	 Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction with seconds after turning the power supply position ON. 	in 20
	4. The switching is completed when the hazard warning lamp blinks.	
	$OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink	
	*1: This function is set to OFF before delivery.*2: This function does not operate on M/T models.	
	·	

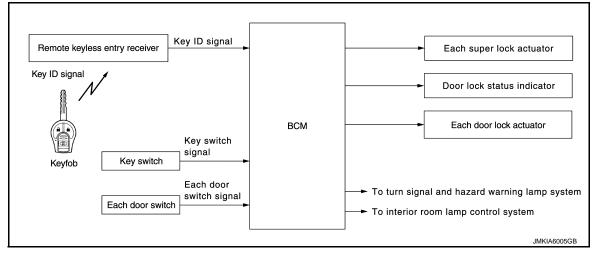
< SYSTEM DESCRIPTION >

[TYPE 3]

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REMOTE KEYLESS ENTRY SYSTEM REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Diagram



REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:000000006445180

DOOR LOCK AND UNLOCK OPERATION

- When door lock and unlock button of keyfob is pressed, door lock and unlock signal transmits from keyfob to BCM via remote keyless entry receiver.
- When BCM receives the door lock and unlock signal, it operates door lock actuator, blinks the hazard lamp at the same time as a reminder.

OPERATION CONDITION

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

Remote controller operation	Operation condition	
Lock	Key switch is offAll doors are closed	
Unlock	Key switch is off	

OPERATION AREA

To ensure that the keyfob works effectively, use within 100 cm (3 ft) range of each door, however the operable range may differ according to surroundings.

ANTI-HIJACK FUNCTION

Information of super lock function with anti-hijack function. Refer to <u>DLK-367</u>, "SUPER LOCK FUNCTION : System Description".

HAZARD REMINDER OPERATION

When door is locked or unlocked by keyfob, then BCM blinks hazard warning lamp as a reminder. **NOTE:**

Hazard reminder mode can be changed with CONSULT-III. Refer to <u>DLK-372</u>, "<u>MULTI REMOTE ENT</u> : <u>CON-</u> <u>SULT-III Function (BCM - MULTI REMOTE ENT) (With Super Lock)</u>".</u>

REMOTE KEYLESS ENTRY SYSTEM

< SYSTEM DESCRIPTION >

Hazard reminder (With CONSUL	•	Door lock operation (with keyfob)	Hazard warning lamp blink
	MODE 1		_
		Lock	_
	MODE 2	Unlock	Twice
HAZARD LAMP SET		Unlock (anti-hijack)	Twice (quick)
	MODE 3	Lock	Once
	MODE 3	Unlock	_
		Lock	Once
	MODE 4	Unlock	Twice
		Unlock (anti-hijack)	Twice (quick)

AUTO DOOR LOCK FUNCTION

After door is unlocked by keyfob button operation and if 30 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 Key switch is ON 	C
Auto de en la elumenda de la elumi	and by the "ALITO LOCK CET" mode in "WORK SUPPORT". Defer to DLK	

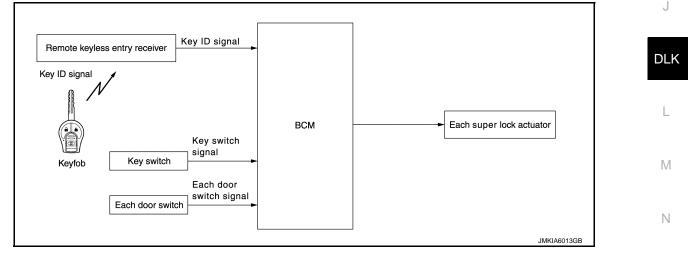
Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-</u> 371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

INTERIOR ROOM LAMP CONTROL FUNCTION

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

SUPER LOCK FUNCTION

SUPER LOCK FUNCTION : System Diagram



SUPER LOCK FUNCTION : System Description

- Super lock provides a higher anti-theft performance than a conventional door lock function.
- BCM controls the super lock system.
- When all doors are closed super lock system can be set/release by keyfob.
- When super lock is set, inside handle of doors do not work.

SUPER LOCK SET OPERATION (LOCK OPERATION)

When Keyfob lock button is operated while all doors are in unlock state, super lock of all doors is set, and simultaneously, all doors are locked.

SUPER LOCK RELEASE OPERATION (UNLOCK OERATION) WITH ANTI-HIJACK MODE

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REMOTE KEYLESS ENTRY SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 3]

When Keyfob unlock button is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, driver door are unlocked. When Keyfob unlock button is operated again, all doors are unlocked.

SUPER LOCK RELEASE OPERATION (UNLOCK OERATION) WITHOUT ANTI-HIJACK MODE When keyfob unlock button is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, all doors are unlocked.

ANTI-HIJACK FUNCTION SETTING

(P) With CONSULT-III

Refer to DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

Without CONSULT-III

- ON/OFF can be switched when keyfob lock button and unlock button are pressed simultaneously for 4 seconds or more while steering lock is locked.
- When mode is switched, hazard warning lamp blinks.

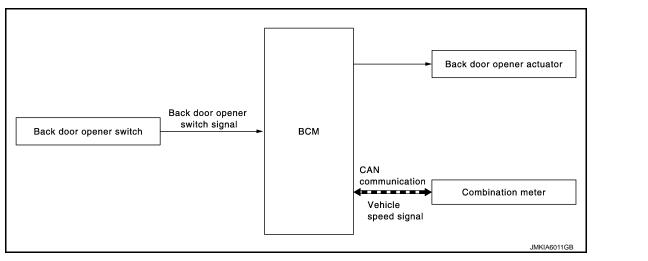
 $OFF \rightarrow ON$: 1 blinks $ON \rightarrow OFF$: 3 blink

BACK DOOR OPENER SYSTEM

< SYSTEM DESCRIPTION >

BACK DOOR OPENER SYSTEM

System Diagram



System Description

INFOID:00000006554253 G

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM operates back door opener actuator. **NOTE:**

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

OPERATION CONDITION

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

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

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.

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DIAGNOSIS SYSTEM (BCM) COMMON ITEM

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

INFOID:000000006748148

APPLICATION ITEM

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

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

Quete er		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	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Automatic A/CManual A/CManual heater	AIR CONDITONER		×	×* ²
Combination switch	COMB SW		×	
Body control system	BCM	×		
NATS	IMMU	×		×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
_	RETAINED PWR*1		×	×
Signal buffer system	SIGNAL BUFFER		×	×
	PANIC ALARM* ¹			×

DLK-370

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

• *2: For models with automatic A/C, this mode is not used.

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)

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[TYPE 3]

WORK SUPPORT

Monitor item	Description		
DOOR LOCK-UNLOCK SET	Anti-hijack function can be changed to operate with this modeOn: OperateOff: Non-operation		
AUTOMATIC DOOR LOCK SELECT	 Automatic door lock function can be selected from the following in this mode VH SPD: All doors are locked when vehicle speed more than 10 km/h (6 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 can be selected from the following in the mode MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2*: All doors are unlocked when shifting the selector lever from any position other than the P to P position MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 4*: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position MODE 5: Driver side door is unlocked when key out of key switch MODE 6: All doors are unlocked when key out of key switch 		
AUTOMATIC LOCK/UNLOCK SET	 Automatic door lock/unlock function 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: Door lock and unlock operation 		

*: P range interlock door lock/unlock can be selected for M/T models, but automatic door lock/unlock function does not operate.

DATA MONITOR

Monitor Item	Contents			
IGN ON SW	Indicated [On/Off] condition of ignition switch in ON position			
KEY ON SW	Indicated [On/Off] condition of key 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			
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)			
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)			
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH			
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH			
BACK DOOR SW	Indicated [On/Off] condition of back door switch			
LOCK STATUS	Indicated [On/Off] condition of front door driver side			
ACC ON SW	Indicated [On/Off] condition of ignition switch in ACC position			
KEYLESS LOCK	Indicated [On/Off] condition of lock signal from key fob			
KEYLESS UNLOCK	Indicated [On/Off] condition of unlock signal from key fob			
SHOCK SENSOR	 Indicates [NOMAL/ON/OFF] condition of circuit between BCM and air bag diagnosis sensor unit NORMAL: Ignition switch ON (BCM is receiving normal condition signal from air bag diagnosis sensor unit) ON: During the receiving of air bag signal from air bag diagnosis sensor unit OFF: After the receiving of air bag signal from air bag diagnosis sensor unit 			
KEY CYL LK-SW	NOTE: This item is displayed, but cannot be monitored			

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item	Contents		
KEY CYL UN-SW	NOTE: This item is displayed, but cannot be monitored		
VEHICLE SPEED	Display the vehicle speed signal received from combination meter by numerical value [Km/h]		

ACTIVE TEST

Test item	Description				
DOOR LOCK	 This test is able to check door lock/unlock operation The all door lock actuators are locked when "ALL LCK" on CONSULT-III screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched The back door lock actuator is unlocked when "BD ULK" on CONSULT-III screen is touched The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT-III screen is touched 				
DOOR LOCK IND	This test is able to check door lock status indicator operation				
SUPER LOCK	 This test is able to check super lock actuator operation The all super lock actuators are set when "LOCK" on CONSULT-III screen is touched The all super lock actuators are released when "UNLOCK" on CONSULT-III screen is touched 				

MULTI REMOTE ENT

MULTI REMOTE ENT : CONSULT-III Function (BCM - MULTI REMOTE ENT) (With Super Lock)

DATA MONITOR

Monitor Item	Condition				
IGN ON SW	Indicates [On/Off] condition of ignition switch in ON position				
KEY ON SW	Indicates [On/Off] condition of key switch				
ACC ON SW	Indicates [On/Off] condition of ignition switch in ACC position				
KEYLESS LOCK	Indicates [On/Off] condition of lock signal from keyfob				
KEYLESS UNLOCK	Indicates [On/Off] condition of unlock signal from keyfob				
KYLS TRNK/HAT	NOTE: This item is displayed, but cannot be tested				
DOOR SW-DR	Indicates [On/Off] condition of front door switch (driver side)				
DOOR SW-AS	Indicates [On/Off] condition of front door switch (passenger side)				
DOOR SW-RR	Indicates [On/Off] condition of rear door switch RH				
DOOR SW-RL	Indicates [On/Off] condition of rear door switch LH				
BACK DOOR SW	Indicates [On/Off] condition of back door switch				
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be tested				
CDL LOCK SW	Indicates [On/Off] condition of door lock and unlock switch				
CDL UNLOCK SW	Indicates [On/Off] condition of door lock and unlock switch				
KEYLESS PANIC	NOTE: This item is displayed, but cannot be tested				

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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Test item	Description		
INT LAMP	This test is able to check interior room lamp operation On: Operate Off: Non-operation 		
FLASHER	This test is able to check flasher operation [LH/RH/Off]		
DOOR LOCK	 This test is able to check door lock/unlock operation The all door lock actuators are locked when "ALL LCK" on CONSULT-III screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched The all door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched 		
	 The back door lock actuator is unlocked when "BD ULK" on CONSULT- III screen is touched The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT-III screen is touched 		

WORK SUPPORT

Test item	Description		
REMO CONT IN REGIST	Keyfob ID code can be registered		
REMO CONT IN ERASUR	Keyfob ID code can be erased	- F	
REMO CONT IN CONFIR	It can be checked whether Keyfob ID code is registered or not in this mode		
HAZARD LAMP SET	 Hazard and horn reminder function (hazard operation) mode can be changed in this mode MODE1: Non-operation MODE2: Unlock operation only MODE3: Lock operation only MODE4: Lock and unlock operation 	G	
AUTO LOCK SET	Auto door lock time can be changed in this mode MODE 1: Non-operation MODE 2: 30 sec MODE 3: 1 minute MODE 4: 2 minute MODE 5: 3 minute MODE 6: 4 minute MODE 6: 4 minute MODE 7: 5 minute 	l J	
PANIC ALARM SET	NOTE: This item is displayed, but cannot be tested	DLK	
TRUNK OPEN SET	NOTE: This item is displayed, but cannot be tested		

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK) (With Super Lock)

DATA MONITOR

Monitor Item	Contents
KEY ON SW	Indicates [On/Off] condition of key switch.
LOCK STATUS	Indicates [On/Off] condition of front door driver side.
VEHICLE SPEED	Indicates [Km/h] condition of vehicle speed signal from combination meter.
IGN ON SW	Indicates [On/Off] condition of ignition switch.
TRNK OPNR SW	NOTE: This item is displayed, but cannot be monitored.
KYLS TRNK/HAT	NOTE: This item is displayed, but cannot be monitored.

ECU DIAGNOSIS INFORMATION BCM

List of ECU Reference

INFOID:000000006445185

ECU	Reference	
	BCS-125, "Reference Value"	
всм	BCS-140. "Fail-safe"	
	BCS-140, "DTC Inspection Priority Chart"	
	BCS-141, "DTC Index"	

[TYPE 3]

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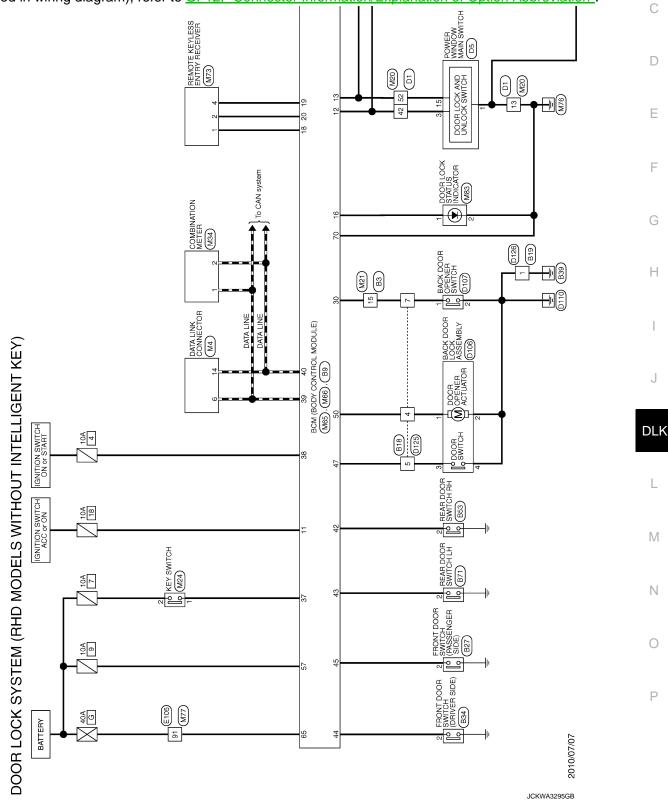
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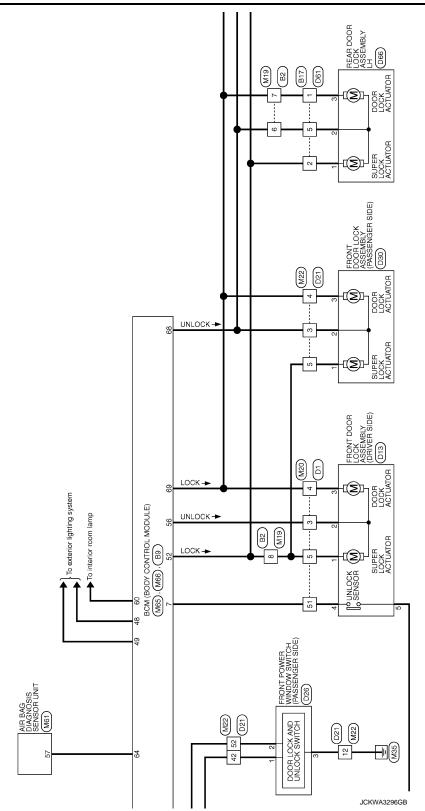
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WIRING DIAGRAM **DOOR & LOCK SYSTEM**

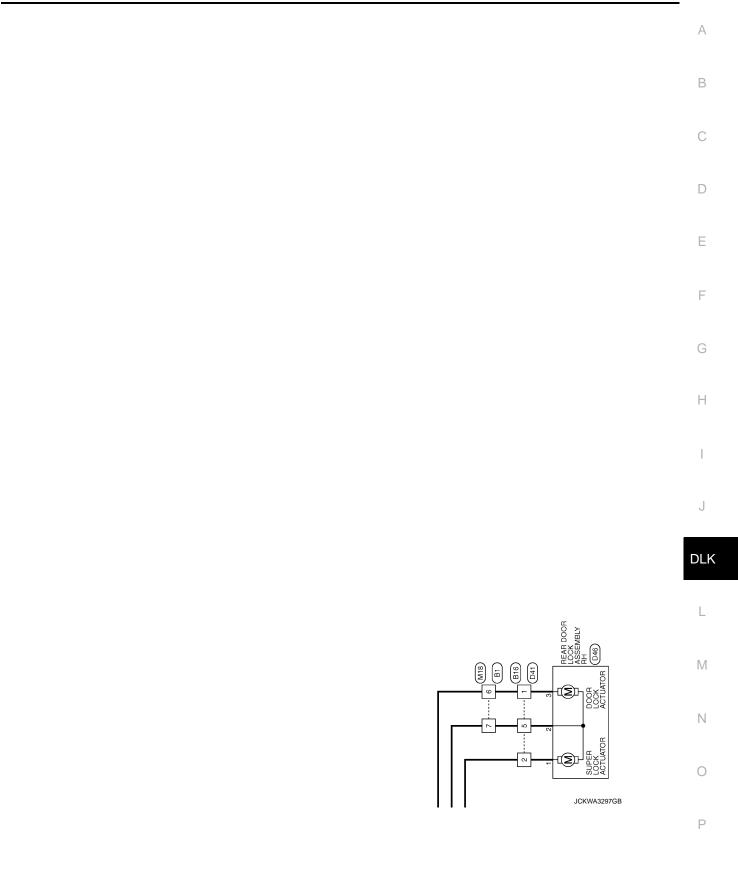
Wiring Diagram

For connector terminal arrangements, harness layouts, and alphabets in a 🔿 (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information/Explanation of Option Abbreviation".





DOOR & LOCK SYSTEM

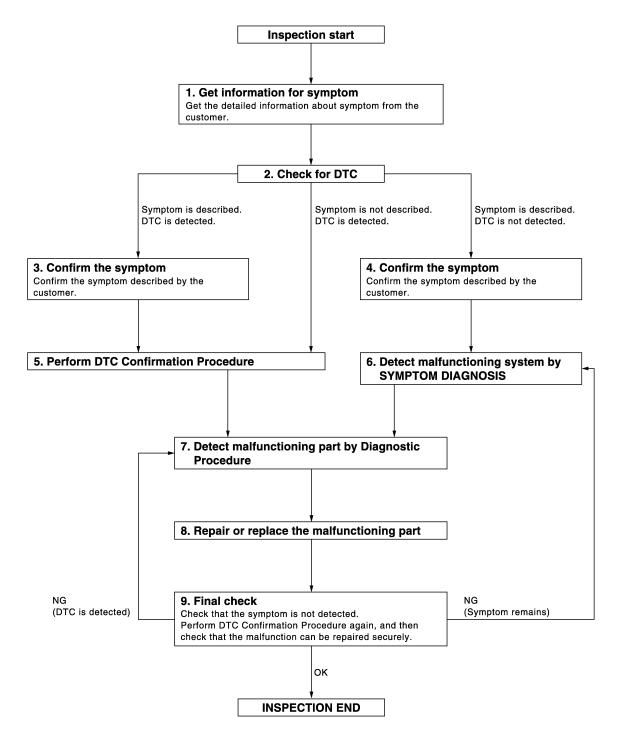


< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



INFOID:000000006445188

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM	А
1. Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).	Α
2. Check operation condition of the function that is malfunctioning.	В
>> GO TO 2.	
2.CHECK FOR DTC	С
 Check DTC for BCM. Perform the following procedure if DTC is displayed. Erase DTC. 	D
 Study the relationship between the cause detected by DTC and the symptom described by the customer. Check related service bulletins for information. 	D
	Е
Symptom is described, DTC is displayed>>GO TO 3. Symptom is described, DTC is not displayed>>GO TO 4. Symptom is not described, DTC is displayed>>GO TO 5.	F
3. CONFIRM THE SYMPTOM	
Confirm the symptom described by the customer. Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.	G
>> GO TO 5.	Н
4.CONFIRM THE SYMPTOM	
Confirm the symptom described by the customer. Connect CONSULT-III to the vehicle in "DATA MONITOR " mode and check real-time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.	I
>> GO TO 6.	J
5. PERFORM DTC CONFIRMATION PROCEDURE	
Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. If two or more DTCs are detected, refer to <u>BCS-140, "DTC Inspection Priority Chart"</u> (BCM) and determine trouble diagnosis order.	DLK
Is DTC detected?	L
YES >> GO TO 7. NO >> Refer to <u>GI-42, "Intermittent Incident"</u> .	
	Μ
Detect malfunctioning system according to Symptom Diagnosis based on the confirmed symptom in step 4.	
	Ν
>> GO TO 7.	
DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE	0
Inspect according to Diagnostic Procedure of the system. NOTE:	
The Diagnostic Procedure is described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.	Ρ
>> GO TO 8.	

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.

2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

3. Check DTC. If DTC is displayed, erase it.

>> GO TO 9.

9.FINAL CHECK

When DTC was detected in step 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.

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

Are all malfunctions corrected?

NO (DTC is detected)>>GO TO 7. NO (Symptom remains)>>GO TO 6. YES >> INSPECTION END

KEYFOB ID REGISTRATION

KETT OD ID KEOIOTKATION	
< BASIC INSPECTION >	[TYPE 3]
KEYFOB ID REGISTRATION	А
Description	INFOID:000000006445189
Perform the following procedure after BCM is replaced or when new keyfob ID is registered NOTE:	В
When registering the keyfob ID, perform only one procedure to simultaneously register both LIZER ID and keyfob ID).	ID (IMMOBI-
Work Procedure	C INFOID:000000006445190
1. STEP 1	D
Close all doors.	
>> GO TO 2.	E
2.STEP 2	
Operate lock using the driver side door lock and unlock switch.	F
>> GO TO 3.	0
3.STEP 3	G
 Remove and insert the key into the ignition key 6 times within 10seconds (turning the key switch from OFF to ON counts as 1 time). Hazard warning lamp blinks(2 times). NOTE: 	Н
On the sixth key insertion, keep the key in the cylinder with the key switch ON.	
Does the hazard lamp blink? YES >> GO TO 4. NO >> GO TO 1.	I
4. STEP 4	J
Within 3 seconds after the hazard lamp blinks, turn ignition switch to the ACC position and operate lock using the driver side door lock and unlock switch.	DLk
>> GO TO 5.	
5. STEP 5	L
 Press the lock or unlock button of the keyfob to be added. All doors unlock simultaneously. 	
 Hazard warning lamp blinks(2 times). Key ID is registered. 	M
Is key ID registered?	
YES-1 >> When adding a keyfob: GO TO 6. YES-2 >> When ending registration: GO TO 8. NO >> GO TO 1.	Ν
6.STEP 6	0
Operate lock using the driver side door lock and unlock switch.	
>> GO TO 7.	Р
7. STEP 7	
 Press the lock or unlock button of the keyfob to be added. All doors unlock simultaneously. 	
3. Hazard warning lamp blinks(2 times).	
4. Key ID is registered.	

< BASIC INSPECTION >

Is key ID registered? YES-1 >> When adding a keyfob: GO TO 6. YES-2 >> When ending registration: GO TO 8. NO >> GO TO 6. 8.STEP 8

Open the front door driver side.

>> REGISTRATION END

BACK DOOR OPENER ACTUATOR

DTC/CIRCUIT DIAGNOSIS BACK DOOR OPENER ACTUATOR

Diagnosis Procedure

1. CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.

Disconnect back door opener assembly connector. 2.

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

(*	(+)							
Back door op	ener assembly		Condition		Voltage (Approx.)			
Connector	Terminal							(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
D106	1	Ground	Back opener switch	ON	12 V			
s the inspection resul	t normal?					F		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR OPENER ACTUATOR CIRCUIT

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

B	BCM Back door opener		ener assembly	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M65	50	D106	1	Existed	

3. Check continuity between BCM harness connector and ground.

				J
B	СМ		Continuity	
Connector	Terminal	Ground	Continuity	
M65	50		Not existed	DLK

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-161, "Removal and Installation".

NO >> Repair or replace harness.

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

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

	Back door opener assembly			Continuity	N
	Connector	Terminal	Ground	Continuity	14
	D106	2		Existed	
-		1			~

Is the inspection normal?

YES >> Replace back door opener assembly.

NO >> Repair or replace harness. **[TYPE 3]**

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BACK DOOR OPENER SWITCH

Component Function Check

1.CHECK FUNCTION

- 1. Select "TRUNK" of "BCM" using CONSULT-III.
- 2. Select "TRNK OPNR SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TRNK OPNR SW	Back door opener switch	Pressed	ON
	Dack door opener Switch	Released	OFF

Is the inspection result normal?

- YES >> Back door opener switch is OK.
- NO >> Refer to <u>DLK-384</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006607732

1. CHECK BACK DOOR OPEN INPUT SIGNAL

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

	+) opener switch Terminal	()	Signal (Reference value)
D107	1	Ground	(V) 15 10 50 10 ms JPMIA0012GB

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK BACK DOOR OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.

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

B	BCM		Back door opener switch	
Connector	Terminal	Connector	Terminal	Continuity
M65	30	D107	1	Existed

3. Check continuity between BCM harness connector and ground.

В	СМ		Continuity
Connector	Terminal	Ground	Continuity
M65	30		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-161</u>, "Removal and Installation".

NO >> Repair or replace harness.

INFOID:000000006607731

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

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

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

Back door o	pener switch		Continuity
Connector	Terminal	Ground	Continuity
D107	2		Existed
Is the inspection result norma	al?		
YES >> GO TO 4.			
NO >> Repair or replace			
4.CHECK BACK DOOR OF	PENER SWITCH		
Refer to DLK-385, "Compone	ent Inspection".		
Is the inspection result norma	al?		
YES >> GO TO 5.			
NO >> Replace back do			
5. CHECK INTERMITTENT	INCIDENT		
Refer to GI-42, "Intermittent	Incident".		
>> INSPECTION EI	ND		
Component Inspection			INFOID:00000006607733
1. CHECK BACK DOOR OF	PENER SWITCH		
1. Turn ignition switch OFF			
 Disconnect back door op 3. Check continuity betweet 	pener switch connector. In back door opener switcl		

3. Check continuity between back door opener switch terminals.

Back door o	pener switch	Condition		Continuity	J
Terminal		Conduon		Continuity	
1	2	Back door opener	Pressed	Existed	
Ι	2	switch	Released	Not existed	DL

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch.

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< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monit	or item	Status	
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
	ALL UNLK		UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-386</u>, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:000000006607738

1. CHECK DOOR LOCK ACTUATOR 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)		()	Condition		Voltage (Approx.)
Connector	Terminal				
D13	2	Ground	Door lock and unlock switch	Unlock	12 V
013	3	Ground	Door lock and unlock switch	Lock	12 V

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side).

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

В	CM Front door lock assembly (driver side)		Front door lock assembly (driver side)	
Connector	Terminal	Connector	Terminal	Continuity
M66	56	D13	2	Existed
WOO	69		3	LAISIEU

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M66	56	Ground	Not existed	
Мбб	69			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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< DTC/CIRCUIT DIAGNOSIS >

3.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

	+) CM	()	Condition		Condition		Voltage (Approx.)	D
Connector	Terminal				(° TT · · · · · ·)			
M66	56	Ground	Door lock and unlock switch	Unlock	12 V	_		
IVIOO	M66 69	Ground	Door lock and unlock Switch	Lock	- 12 V			
	معسمينا فيسمع	0				D		

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monit	or item	Status		
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK	
	ALL UNLK	Door lock actualors	UNLOCK	

Is the inspection result normal?

YES >> Door lock actuator is OK.

```
NO >> Refer to <u>DLK-386, "DRIVER SIDE : Diagnosis Procedure"</u>.
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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.

Front door lo	+) ock assembly ger side)	(-)	Condition		Voltage (Approx.)	Μ
Connector	Terminal					
D20	2	Cround	Deer leek and unleek owitch	Unlock	40.1/	Ν
D30	3	Ground	Door lock and unlock switch	Lock	12 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 connector and all door lock assembly connector.

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

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INFOID:000000006607739

< DTC/CIRCUIT DIAGNOSIS >

Connector	BCM		Front door lock ass	embly (p	assenger side)	Continuity
	Т	erminal	Connector		Terminal	- Continuity
M66		68	D20	D30 2		Existed
		69	030		3	LXISIEU
B. Check continu	ity between E	3CM harness o	connector and grou	und.		
	BCM					
Connect	or	Terminal				Continuity
		68		Ground	d	
M66		69				Not existed
the inspection re	esult normal?		1			
YES >> GO TO						
	r or replace h					
\mathbf{S} .CHECK BCM (OUTPUT SIG	NAL				
. Connect BCM						
. Check voltage	between BC	M harness cor	nnector and groun	d.		
(•	+)					
B	CM	(-)	Co	ndition		Voltage (Approx.)
Connector	Terminal					(Αρμισχ.)
M66	68	Ground	Door lock and unloc	(owitch	Unlock	12 V
IVIOO	69	Ground	Door lock and unlock	Switch	Lock	TZ V
s the inspection re	esult normal?	Ļ				
			oor lock actuator.			
		r + O P C C 161		stallatio	n"	
NO >> Repla	ce BCM. Refe	B 10 003-101	, Removal and Ins	stallatic	<u></u> .	
NO >> Repla	ce BCM. Refe	51 to <u>DCS-101.</u>	, Removal and ins	stallatic	<u>,,,</u> ,	
				stanatic	<u></u> .	INFOID:000000066077
NO >> Repla REAR LH REAR LH : Co	omponent			stanatic	<u></u> .	INFOID:0000000066077
NO >> Repla REAR LH REAR LH : Co .CHECK FUNC	DIMPONENT TION R LOCK" of "B	Function C	Check	stanatic	<u></u> .	INF01D:000000006607
NO >> Repla REAR LH CHECK FUNC Select "DOOR Select "DOOR	TION LOCK" of "B LOCK" in "A	Function C	NSULT-III. mode.			INFOID:000000006607
NO >> Repla REAR LH REAR LH : Co . CHECK FUNC . Select "DOOR . Select "DOOR	TION LOCK" of "B LOCK" in "A	Function C	Check			INFOID:000000006607.

DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
BOOK LOCK	ALL UNLK	Door lock actualors	UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

>> Refer to DLK-386, "DRIVER SIDE : Diagnosis Procedure". NO

REAR LH : Diagnosis Procedure

INFOID:000000006607742

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.

Disconnect rear door lock assembly LH connector. 2.

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

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK

[TYPE 3]

Rear door loc	+)					
	k assembly LH	()		Condition		Voltage (Approx.)
Connector	Terminal					
D66	2	Ground	Door lock an	d unlock switch	Unlock Lock	12 V
he inspection	result norm	al?				
O >> GO CHECK DOC	TO 2. OR LOCK AC	or lock assemb CTUATOR CIRC	CUIT	mbly connecte	or.	
Check conti	nuity betwee	n BCM harnes	s connector	and rear doc	or lock assembly	/ LH harness connector.
	BCM		F	Rear door lock as	ssembly LH	Oractionaita
Connecto	or	Terminal	Conn	nector	Terminal	Continuity
M66		68		66	2	Existed
δΟΙΛΙ		69			3	EXISTED
Check conti	nuity betwee	en BCM harnes	s connector	and ground.		
	B	СМ				
Conne	ector	Termir	nal	- Ground		Continuity
M6	6	68				Not existed
ivic		69			Not existed	
CHECK BCM Connect BC Check volta	M connecto		connector a	nd ground.		
	(+)					
	BCM	()		Conditic	on	Voltage (Approx.)
Connector	BCM Termin			Conditic	on	Voltage (Approx.)
			l Door lock	Conditio	Unlock	
Connector M66 the inspection ES >> Che O >> Rep EAR RH EAR RH : (CHECK FUN Select "DOO Select "DOO	Termin 68 69 result norm ck for intern lace BCM. F Componer CTION DR LOCK" of DR LOCK" of	al Ground al? al short of each Refer to <u>BCS-16</u> nt Function	door lock a 61, "Remova Check CONSULT-II T" mode.	and unlock swit	ch Unlock Lock	(Approx.) - 12 V INFOID:0000000066077
Connector M66 the inspection ES >> Che O >> Rep EAR RH EAR RH : (CHECK FUN Select "DOO Select "DOO	Termin 68 69 result norm ock for internal lace BCM. F Componen CTION CTION DR LOCK" of DR LOCK" of DR LOCK" of DR LOCK" of DR LOCK" of DR LOCK" of	al Ground al? al short of each Refer to <u>BCS-16</u> nt Function	door lock a 61, "Remova Check CONSULT-II T" mode.	and unlock swit	ch Unlock Lock	(Approx.) - 12 V INFOID:0000000066077

ALL UNLK

Door lock actuators

UNLOCK

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-386, "DRIVER SIDE : Diagnosis Procedure"</u>.

REAR RH : Diagnosis Procedure

INFOID:000000006607744

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(~	+)				
Rear door locl	k assembly RH	(—)	Condition		Voltage (Approx.)
Connector	Terminal				
D46	2 Ground	Ground	Door lock and unlock switch	Unlock	12 V
240	3	Ground		Lock	12 V

Is the inspection result normal?

YES >> Replace rear door lock assembly RH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

B	BCM		Rear door lock assembly RH		
Connector	Terminal	Connector	Terminal	Continuity	
M66	68	D46	2	Existed	
WIOO	69		3		

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
Mee	68		
M66	69		Not existed

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.

	(+) BCM		Condition		Voltage (Approx.)	
Connector	Terminal				(P · • · · ·)	
M66	68	Ground	Door lock and uplock switch	Unlock	12 V	
IVIOO	69	Giouna	Ground Door lock and unlock switch –		12 V	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

[TYPE 3] < DTC/CIRCUIT DIAGNOSIS > DOOR LOCK AND UNLOCK SWITCH А DRIVER SIDE **DRIVER SIDE : Component Function Check** INFOID:000000006607745 В **1.**CHECK FUNCTION Select "DOOR LOCK" of "BCM" using CONSULT-III. 1. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode. 2. Check that the function operates normally according to the following conditions. 3. D Monitor item Condition Status ON Lock CDL LOCK SW Unlock OFF Door lock and unlock switch OFF Lock CDL UNLOCK SW ON Unlock Is the inspection result normal? YES >> Door lock and unlock switch is OK. >> Refer to DLK-391, "DRIVER SIDE : Diagnosis Procedure". NO **DRIVER SIDE : Diagnosis Procedure** INFOID:00000006607746 CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL Н 1. Turn ignition switch OFF. 2. Disconnect power window main switch connector. 3. Check signal between power window main switch harness connector and ground using oscilloscope. (+) Signal Power window main switch (-) (Reference value) Connector Terminal 3 DLK D5 Ground 15 10 ms JPMIA0012GB 1.0 - 1.5 V M Is the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. Ν 2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT 1. Disconnect BCM connector and front power window switch (passenger side) connector. 2. Check continuity between BCM harness connector and power window main switch harness connector. BCM Power window main switch Continuity Ρ Terminal Connector Connector Terminal 3 12 M65 D5 Existed 13 15

DOOR LOCK AND UNLOCK SWITCH

Check continuity between BCM harness connector and ground. 3.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

B	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M65	12	Ground	Not existed	
	13		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-93, "Removal and Installation".

NO >> Repair or replace harness.

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

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

Power window main switch			Continuity
Connector	Connector Terminal		Continuity
D5	1		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to DLK-392, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to PWC-44, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:00000006607747

INFOID:000000006607748

1. CHECK DOOR LOCK AND UNLOCK SWITCH

- Turn ignition switch OFF. 1.
- Disconnect power window main switch connector. 2.
- Check continuity between power window main switch terminals. 3.

Power window main switch		Condition		Continuity
Terr	Terminal		Condition	
2			LOCK	Existed
5	1	Door lock and unlock switch	UNLOCK	Not existed
15			LOCK	Not existed
			UNLOCK	Existed

Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace power window main switch.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

1.

Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode. 2.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

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3. Check that the function operates normally according to the following conditions.

Monitor item	Cor	Condition		
CDL LOCK SW		Lock	ON	
	Door lock and unlock switch	Unlock	OFF	E
CDL UNLOCK SW	Door lock and unlock switch	Lock	OFF	
		Unlock	ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to DLK-393, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect front power window switch (passenger side) connector.

 Check signal between front power window switch (passenger side) harness connector and ground using oscilloscope.

(+) Front power window switch (passenger side)			Signal (Reference value)	
		(-)		
Connector	Terminal		(101010100 10100)	
	1			
D26	2	Ground	(V) 15 10 10 10 ms JPMIA0012GB 1.0 - 1.5 V	

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 front power window switch (passenger side) harness connector.

B	BCM		Front power window switch (passenger side)		-
Connector	Terminal	Connector	Terminal	Continuity	Ν
M65	12	D26	1	Existed	-
MOS	13	D20	2	EXISIEU	

3. Check continuity between BCM harness connector and ground.

-	BCM			Continuity	_
-	Connector	Terminal	Ground	Continuity	Р
-	M65	12	Ground	Not existed	
	MOS	13		NUL EXISIED	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between front power window switch (passenger side) harness connector and ground.

Front power window switch (passenger side)			Continuity
Connector	Connector Terminal		Continuity
D26	3		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-394, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace front power window switch (passenger side). Refer to <u>PWC-44</u>, "<u>Removal and Installa-</u> tion".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000006607750

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 switch (passenger side) Terminal		Condition		Continuity
I	3	Door lock and unlock switch	UNLOCK	Not existed
2			LOCK	Not existed
			UNLOCK	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side).

DTC/CIRCUIT DIAGNOSIS >			[TYPE 3]
	NDICATOR		<u> </u>
Component Function Chec	ĸ		INFOID:00000006607751
CHECK FUNCTION			
. Select "DOOR LOCK" of "BCM	" using CONSULT	-111.	
 Select "DOOR LOCK IND" in ", Check that the function operate 	ACTIVE TEST" mo	ode.	
Monitor item		Status	3
DOOR LOCK IND		Door lock status indicator	Turns ON
OFF			Turns OFF
<u>s the inspection result normal?</u> YES >> Door lock status indica NO >> Refer to <u>DLK-395, "Dia</u>		<u>_</u> .	
Diagnosis Procedure			INFOID:000000006607752
.CHECK DOOR LOCK STATUS		T SIGNAI	
. Turn ignition switch OFF.			
. Disconnect door lock status inc	licator connector.		
. Check voltage between door lo	ck status indicator	r harness connector and groun	d.
(+)			
Door lock status indicator	(-)	Condition	Voltage (Approx.)
Connector Terminal			
M83 1	Ground	Door lock operation is accom- plished	12 V
		Any door is OPEN	0 V
the inspection result normal? YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR LOCK STATUS			
-CHECK DOOR LOCK STATUS		JUII	
 Disconnect BCM connector. Check continuity between BCM 	I harness connect	or and door lock status indicate	or harness connector.
. Disconnect BCM connector.	1 harness connect	or and door lock status indicato	
Disconnect BCM connector. Check continuity between BCM BCM Connector Termin	nal Co	Door lock status indicator nnector Terminal	Continuity
Disconnect BCM connector. Check continuity between BCM BCM Connector Termi M65 16	nal Co	Door lock status indicatornnectorTerminalM831	
Disconnect BCM connector. Check continuity between BCM BCM Connector Termin	nal Co	Door lock status indicatornnectorTerminalM831	Continuity
Disconnect BCM connector. Check continuity between BCM Connector Termi M65 16 Check continuity between BCM BCM	nal Co I harness connect	Door lock status indicator nnector Terminal M83 1 or and ground.	Continuity
Disconnect BCM connector. Check continuity between BCM Connector Termi M65 16 Check continuity between BCM	nal Co	Door lock status indicatornnectorTerminalM831	Continuity Existed

DOOR LOCK STATUS INDICATOR

Check continuity between door lock status indicator harness connector and ground.

DOOR LOCK STATUS INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

Door lock status indicator			Continuity
Connector	Connector Terminal		Continuity
M83	2		Existed

Is the inspection result normal?

YES >> Replace door lock status indicator.

NO >> Repair or replace harness.

DOOR SWITCH

Component Function Check

1.CHECK FUNCTION

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

Monitor item		Condition	Status	
	Driven side de su	Open	On	
DOOR SW-DR	Driver side door	Closed	Off	
DOOR SW-AS	Dessenger side desr	Open	On	
DOOR SW-AS	Passenger side door	Closed	Off	
DOOR SW-RL	Rear door LH	Open	On	
DOOR SW-RL		Closed	Off	
DOOR SW-RR	Rear door RH	Open	On	
DOOR SW-RK		Closed	Off	
DOOR SW-BK	Back door	Open	On	
DOOK SW-DK		Closed	Off	

Is the inspection result normal?

YES >> Door switch is OK.

>> Refer to DLK-397, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK DOOR SWITCH INPUT SIGNAL

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

(+)					
Door switch		()	Signal (Reference value)		
Conne	ector	Terminal			
Driver side	B34				D
Passenger side	B27	2		(V) 15	Γ
Rear LH	B71	2			
Rear RH	B53		Ground		ľ
Back door	D106	3		→ 10ms ↓ ↓	
Dack UUUI	0100	3		PKIB4960J 7.0 - 8.0 V	(

Is the inspection result normal?

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

YES-2 >> other door: GO TO 4.

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.

DLK-397

INFOID:00000006607734

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INFOID:000000006607735

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Door switch		B	Continuity	
Con	nector	Terminal	Connector	Terminal	Continuity
Driver side	B34			44	
Passenger side	B27	2		45	
Rear LH	B71	2	B10	43	Existed
Rear RH	B53	*		42	
Back door	D106	3		47	

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

	Door switch			Continuity
Cor	nnector	Terminal	_	Continuity
Driver side	B34			
Passenger side	B27	2	Ground	
Rear LH	B71	2		Not existed
Rear RH	B53			
Back door	D106	3		

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK BACK DOOR SWITCH CIRCUIT

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

Back door l	ock assembly		Continuity
Connector	Terminal	Ground	Continuity
D106	4	-	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR SWITCH

Refer to DLK-398, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning door switch.

5.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

< DTC/CIRCUIT DIAGNOSIS >

	Door switch		Cond	lition	Continuity	
	Terminal		Cond	illion	Continuity	
Driver side				Pressed	Existed	
Driver side				Released	Not existed	
Desserverside				Pressed	Existed	
Passenger side	2	Ground part of door	Door switch	Released	Not existed	
Rear LH	2	switch	Door switch	Pressed	Existed	
Rear LH				Released	Not existed	
Rear RH				Pressed	Existed	
Real RH				Released	Not existed	
Dook door	2		Back door lock as-	Lock	Existed	
Back door	3	4	sembly	Unlock	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

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HAZARD FUNCTION

Component Function Check

1.CHECK FUNCTION

- 1. Select "MULTI REMOTE ENT" of "BCM" using CONSULT-III.
- 2. Select "FLASHER" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monit	or item	Sta	atus
	LH	Front turn signal lamp LH	Turns ON
FLASHER	RH	Front turn signal lamp RH	Turns ON
	OFF	Front turn signal lamp	Turns OFF

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
- NO >> Refer to <u>DLK-400</u>, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-72, "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:000000006607753

KEY SWITCH

Component Function Check

1.CHECK FUNCTION	ЛС
------------------	----

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

Monitor item	Conc	lition	Status
	Kaufah	Inserted in key cylinder	ON
KEY ON SW	Keyfob	Removed from key cylinder	OFF
Is the inspection result nor	mal?		
YES >> Key switch is (
NO >> Refer to <u>DLK-</u>	101, "Diagnosis Procedure".		
Diagnosis Procedure			
Diagnosis i locedule			INFOID:00000006445214
			INFOID:000000006445214
1.CHECK FUSE			INF-UID:00000006445214
1. CHECK FUSE 1. Turn ignition switch Of	F.		INFOID:0000000644521
1.CHECK FUSE 1. Turn ignition switch OF 2. Check 10 A fuse, [No.			INFOID:0000000644521
1. CHECK FUSE 1. Turn ignition switch OF 2. Check 10 A fuse, [No.] Is fuse fusing?	F. 7, located in fuse block (J/B)]		
1. CHECK FUSE 1. Turn ignition switch OF 2. Check 10 A fuse, [No.] Is fuse fusing?	F. 7, located in fuse block (J/B)]	affected circuit if a fuse is blow	

- 1. Disconnect key switch connector.
- 2. Check voltage between key switch harness connector and ground.

 Key switch			Voltage	_
 Connector	Terminal	Ground	(Approx.)	DLK
 M24	2	_	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK KEY SWITCH CIRCUIT

1. Disconnect BCM connector.

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

Keys	Key switch BCM		Continuity	N	
Connector	Terminal	Connector	Terminal	Continuity	
M24	1	M65	37	Existed	_

3. Check continuity between key switch connector and ground.

Key s	Key switch		Continuity	Р
Connector	Terminal	Ground	Continuity	
M24	1		Not existed	

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

INFOID:00000006445213

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4.CHECK KEY SWITCH

Refer to DLK-402, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace key switch.

 $5. {\sf CHECK} {\sf INTERMITTENT} {\sf INCIDENT}$

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

COMPONENT INSPECTION

1. CHECK KEY SWITCH

1. Turn ignition switch OFF.

2. Disconnect key switch connector.

3. Check continuity between key switch terminals.

	Key sv	witch	Con	dition	Continuity
-	Term	inal	Con		Continuity
-	1	2	Kevfob	Inserted in key cylinder	Existed
	I	2	Reylob	Removed from key cylinder	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key switch.

KEYFOB BATTERY

Component	Function	Check
eempenent		0.1001

1.CHECK FUNCTION

Check door lock and unlock operation with keyfob button. Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Refer to DLK-403, "Diagnosis Procedure".

Diagnosis Procedure

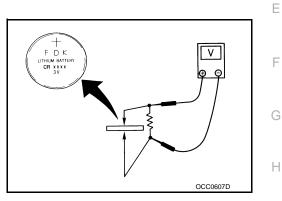
1. CHECK KEYFOB BATTERY

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

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

- YES >> Replace keyfob.
- NO >> Replace keyfob battery. Refer to <u>DLK-487, "Removal</u> <u>and Installation"</u>.



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[TYPE 3]

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

1.CHECK FUNCTION

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

Monitor item		Condition	Status
KEYLESS LOCK		LOCK	On
RETLESS LOOK	Kovfob button	UNLOCK	Off
	Keyfob button	LOCK	Off
KEYLESS UNLOCK		UNLOCK	On

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

NO >> Refer to <u>DLK-404</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006607756

1. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector and remote keyless entry receiver connector.
- 3. Check continuity between BCM harness connector and remote keyless entry receiver harness connector.

B	BCM Remote k		s entry receiver	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M65	18	M73	1	Existed	

4. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M65	18		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

1. Reconnect BCM connector.

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

	(+)		
Remote keyle	ss entry receiver	()	Voltage (Approx.)
Connector	Terminal		
M73	4	Ground	5 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

1. Disconnect BCM connector

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

[TYPE 3]

INFOID:00000006607755

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

Connector	Terminal	Con	nector	Tern	ninal	- Continuity
M65	19	M73		4		Existed
Check continuity be	tween BCM ha	mess connecto	r and grou	nd.		
	BCM					
Connector		erminal	_	Ground		Continuity
M65	·	19	_	Cround		Not existed
the inspection result r	normal?					
•	CM. Refer to BC	<u>S-161, "Remov</u>	al and Inst	allation".		
O >> Repair or re	•					
CHECK REMOTE K	EYLESS ENTR	Y RECEIVER (OUTPUT S	IGNAL		
Reconnect remote						
Check signal betwe	en remote keyle	ess entry receiv	er narness	s connector	and grou	nd using oscilloscope
(+)						
Remote keyless en	try receiver	(—)	Cond	dition	(R	Signal eference value)
Connector	Terminal				(,
					(V)	
					15	
			Waiting			
					5	00 ms
M73	2	Ground				JMKIA3838GB
					(V)	
			Press the	-	15	
			Key lock of button	or unlock	o www	
						▶ ● ● ● ● ● ● ● ● ● ●
						JMKIA3841GB
the inspection result r	normal?					
ES >> GO TO 5.	note keyless en	try receiver				
CHECK REMOTE K	•	•				
Disconnect BCM co					\r	
						eiver harness connect
	NA	r	amoto kovios		10r	
BC	Terminal		nector	ss entry receiv	ninal	Continuity
M65	20		//73		2	Existed
Check continuity be	-				_	Existed
	DOM					Continuity
	BCM				1	
Connector M65		erminal 20	_	Ground		Not existed

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

		SUPE	R LOC	< ACTU	ATOR	
COTC/CIRCUIT DIA	GNOSIS >					[TYPE 3]
SUPER LOCK /	ACTUAT	OR				
DRIVER SIDE						
DRIVER SIDE : C	Compone	nt Functi	ion Che	eck		INFOID:00000006607757
1.CHECK FUNCTION	-					
1. Select "DOOR LO	CK" of "BCI	M" usina CO	ONSULT-I			
 Select "SUPER LO Check that the fur 	DCK" in "AC	TIVE TEST	F" mode.		ollowing conditio	ns.
	Monitor item				Sta	atus
		LOCK				LOCK
SUPER LOCK		UNLOC	<	Super lock	actuators	UNLOCK
s the inspection result	t normal?					
YES >> Super lock				ania Di	el une ll	
NO >> Refer to D			-	osis Proce	<u>dure"</u> .	
DRIVER SIDE : D	Diagnosis	Procedu	ire			INFOID:00000006607758
1. CHECK SUPER LC	OCK ACTUA	TOR INPU	T SIGNA	L		
1. Turn ignition switc	h OFF.					
Disconnect front d	loor lock as					
Check voltage bet	ween front	door lock as	ssembly (driver side) harness conne	ector and ground.
(+)						
Front door lock as	ssembly			Cond	lition	Voltage
(driver side		()		CON		(Approx.)
Connector	Terminal					
D13	1	Ground				12 V
	2		Unlo	ock		
s the inspection result			. (duis com o	:		
YES >> Replace fr NO >> GO TO 2.	ront door loc	ck assembly	y (ariver s	lae).		
2. CHECK SUPER LC	ОСК АСТИА	TOR CIRC	UIT			
1. Disconnect BCM				mbly conn	actor	
						sembly (driver side) harness
connector.						
				Front door l	ock assembly	
E	BCM				er side)	Continuity
Connector	Terr	ninal	Con	nector	Terminal	
B9	5	52	r	013	1	Existed
M66	5	6			2	EXISIEU
3. Check continuity b	etween BC	M harness	connecto	r and grou	nd.	
	BCM					
Connector		Termina	1	1		Continuity
B9		52		-	Ground	
5		56		4		Not existed

M66 Is the inspection result normal?

YES >> GO TO 3.

SUPER LOCK ACTUATOR

DLK-407

56

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

	(+) CM	()	Condition	Voltage (Approx.)
Connector	Terminal			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B9	52	Ground	Lock	12 V
M66	56	Ground	Unlock	12 V

Is the inspection result normal?

YES >> Check for internal short of each super lock actuator.

NO >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monit	or item	Sta	itus
SUPER LOCK	LOCK	Super lock actuators	LOCK
	UNLOCK	Super lock actualors	UNLOCK

Is the inspection result normal?

YES >> Super lock actuator is OK.

NO >> Refer to <u>DLK-408</u>, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1. CHECK SUPER 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 iger side)	()	Condition	Voltage (Approx.)
Connector	Terminal	-		
D30	1	Ground	Lock	12 V
D30	2	Giodila	Unlock	12 V

Is the inspection result normal?

YES >> Replace front door lock assembly (passenger side).

2. CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock assembly connector.

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

INFOID:000000006607760

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

	BCM				ock assembly nger side)		Continuity
Connector	Tern	ninal	Con	nector	Termina	ıl	Continuity
B9	5	2			1		
M66	6	8	D	30	2		Existed
Check continu	ity between BC	M harness c	onnecto	r and grou	nd.		
	BCM						
Connect	Connector Terminal Continuity						
B9		52		-	Ground		
M66		68		-			Not existed
he inspection re	esult normal?						
ES >> GO TO							
•	r or replace har						
	OUTPUT SIGNA	L					
Connect BCM	connector. between BCM	harness con	noctor a	nd around			
Check voltage	Detween DCM		necioi a	nu ground	•		
(-	+)						Valtara
BC	CM	(-)		Condition			Voltage (Approx.)
Connector	Terminal						
B9	52	Ground	Loci			-	12 V
M66 he inspection re	68		Unic	ock			
EAR LH EAR LH : Co CHECK FUNC ⁻ Select "DOOR Select "SUPE	ce BCM. Refer to mponent Fu TION LOCK" of "BCI R LOCK" in "AC of function opera	Inction C M" using CO TIVE TEST"	heck NSULT-I ' mode.	11.		ions.	INFOID:000000006
	Monitor item					Status	
SUPER LOCK		LOCK		Super lock	actuators		LOCK
		UNLOCK					UNLOCK
the inspection re		014					
	lock actuator is to DLK-409, "RI		agnosis I	Procedure	" <u>.</u>		
	agnosis Proc				_		INF01D:00000000
	-			1			
	R LOCK ACTUA		SIGNA	L.			
Turn ignition s Disconnect rea		embly LH co	onnector.		connector an	d groups	4

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

< DTC/CIRCUIT DIAGNOSIS >

(+) Rear door lock assembly LH		()	Condition	Voltage (Approx.)
Connector	Terminal			
D66	1	Ground	Lock	12 V
2		Ground	Unlock	12 V

Is the inspection result normal?

YES >> Replace rear door lock assembly LH. 2.

NO	>> GO	ΤO
NO	>> GO	TC

2. CHECK SUPER LOCK ACTUATOR CIRCUIT

Disconnect BCM connector and all door lock assembly connector. 1.

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

E	BCM	Rear door loc	k assembly LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B9	52	D66	1	Existed
M66	68	000	2	LAISIEU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
B9	52	Ground	Not existed
M66	68		NUL EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

Connect BCM connector. 1.

Check voltage between BCM harness connector and ground. 2.

	(+) BCM		Condition	Voltage (Approx.)
Connector	Terminal			
B9	52	Ground	Lock	12 V
M66	68	Ground	Unlock	12 V

Is the inspection result normal?

YES >> Check for internal short of each super lock actuator.

>> Replace BCM. Refer to BCS-161, "Removal and Installation". NO REAR RH

REAR RH : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
- Check that the function operates normally according to the following conditions. 3.

Monit	or item	Status	
SUPER LOCK	LOCK	Super lock actuators	LOCK
SUPER LOCK	UNLOCK	Super lock actualors	UNLOCK

< DTC/CIRCUIT					ATOR		[TYPE 3]
Is the inspection r							-	_
		ctuator is OK.						А
		1, "REAR RH :	Diagno	sis Procedure				
REAR RH : D	iannosis	Procedure						
	lagriosis	rioccuure					INFOID:0000000066077	64 B
1.CHECK SUPE			UT SIG	NAL				_
1. Turn ignition			1					С
		k assembly RH ear door lock a			connector and	around		
J. Oneck voltag	e between i		133611101	ly IXI Hamess	connector and	giouna		
	(+)							D
Rear door loo	k assembly R	H (–)		Cond	ition		Voltage	
Connector	Termina						(Approx.)	F
	1			Lock				E
D46	2	Grour	nd –	Unlock			12 V	
Is the inspection r		12		Childen				F
		or lock assembl						
NO >> GO T			y KH.					
2.CHECK SUPE	-		сппт					G
								_
		tor and all door					harness connector.	
2. Check contin	ully betwee	II DOM Hamess	sconne					Н
	BCM			Rear door locl	cassembly RH			
Connector		Terminal	(Connector	Terminal		Continuity	
B9		52			1			1
M66		68	-	D46	2		Existed	
				otor and arour				J
5. Check contin	uity betwee	n BCM harness	sconne	ctor and groui	iu.			
	BC	M						
Connec	tor	Termin	al				Continuity	DL
B9		52			Ground			
M66		68					Not existed	
								L
Is the inspection r								
YES >> GO T NO >> Repa	O 3. ir or replace	harness						R. /
3.CHECK BCM	•							N
								_
1. Connect BCN								N
2. Check voltage	e between i	BCM harness c	onnecto	or and ground.				
	(+)							
				Cond	ition		Voltage	С
Connector	Termina	(-)		0010			(Approx.)	
				Look				
B9	52	Grour	nd –	Lock			12 V	Ρ
M66	68			Unlock				

Is the inspection result normal?

YES NO >> Check for internal short of each super lock actuator. >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

UNLOCK SENSOR

Component Function Check

1.CHECK FUNCTION

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

Monitor item	Condition		Status
LOCK STATUS	Driver side door	Lock	OFF
LOOK STATUS	Driver side door	Unlock	ON

Is the inspection result normal?

- YES >> Unlock sensor is OK.
- NO >> Refer to <u>DLK-412</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006607766

1.CHECK BCM OUTPUT SIGNAL

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

	(+) Front door lock assembly (driver side)		Signal (Reference value)	
Connector			(Relefence value)	
D13	4	Ground	(V) 10 5 0 + 10ms PKIB4960J	

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.

B	СМ	Front door lock as	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M65	7	D13	4	Existed

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	ConnectorTerminalM657		Continuity
M65			Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

UNLOCK SENSOR

	UNLOCK	SLNSON	
< DTC/CIRCUIT DIAGNOSIS	>		[TYPE 3]
NO >> Repair or replace ha	arness.		
3. CHECK UNLOCK SENSOR	GROUND CIRCUIT		
Check continuity between front	door lock assembly (dri	ver side) harness connect	or and ground.
Front door lock assem	bly (driver side)		
Connector	Terminal	Ground	Continuity
D13	5	Cround	Existed
Is the inspection result normal?	-		
YES >> GO TO 4. NO >> Repair or replace ha	arness.		
4.CHECK UNLOCK SENSOR			
Refer to DLK-413, "Component	Inspection".		
Is the inspection result normal?			
YES >> GO TO 5. NO >> Replace front door l	lock accombly (driver a	ido)	
5. CHECK INTERMITTENT INC	• •	ue).	
Refer to GI-42, "Intermittent Inci	dent".		
>> INSPECTION END			
Component Inspection			INF0ID:00000006607767
1.CHECK UNLOCK SENSOR			
 Turn ignition switch OFF. Disconnect front door lock a 	assembly (driver side) c	connector.	

Check continuity between front door lock assembly (driver side) terminals.

Front door lock as	sembly (driver side)	Condition		Continuity	
Terminal	Condition	Continuity			
4	F	Driver side door	Unlock	Existed	
4	5 Driver		Lock	Lock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front lock assembly (driver side).

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION < SYMPTOM DIAGNOSIS > [TYPE 3]

SYMPTOM DIAGNOSIS

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

Diagnosis Procedure

INFOID:000000006609081

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

- YES >> GO TO 2.
- NO >> Go to <u>DLK-415. "ALL DOOR : Diagnosis Procedure"</u>.
- 2.CHECK UNLOCK SENSOR
- Check unlock sensor.

Refer to DLK-412, "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 <u>BCS-161, "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 DOOR LOCK AND UNLOCK	(SWITCH [TYPE 3]
DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND SWITCH ALL DOOR	UNLOCK
ALL DOOR : Description	B
All doors do not lock/unlock using door lock and unlock switch.	C
ALL DOOR : Diagnosis Procedure	INFOID:000000006609067
1.CHECK DOOR LOCK AND UNLOCK SWITCH	D
 Check door lock and unlock switch. Refer to the following. Driver side: Refer to <u>DLK-391, "DRIVER SIDE : Component Function Check"</u>. Passenger side: Refer to <u>DLK-392, "PASSENGER SIDE : Component Function Check"</u>. Is the inspection result normal? 	E
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CHECK DOOR LOCK ACTUATOR	F
Check front door lock assembly (driver side). Refer to <u>DLK-386, "DRIVER SIDE : Component Function Check"</u> .	G
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	Н
3.CHECK DOOR SWITCH	
Check door switch. Refer to <u>DLK-397, "Component Function Check"</u> .	I
<u>Is the inspection result normal?</u> YES >> GO TO 4.	J
NO >> Repair or replace the malfunctioning parts. 4.CHECK KEY SWITCH	
Check key switch. Refer to <u>DLK-401, "Component Function Check"</u> .	DLK
<u>Is the inspection result normal?</u> YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	L
 5.REPLACE BCM 1. Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>. 	M
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> . DRIVER SIDE	Ν
DRIVER SIDE : Description	INFOID:000000006609068
Driver side door does not lock/unlock using door lock and unlock switch.	P
DRIVER SIDE : Diagnosis Procedure	INF0ID:000000006609069
1. CHECK DOOR LOCK ACTUATOR	
Check front door lock assembly (driver side). Refer to <u>DLK-386, "DRIVER SIDE : Component Function Check"</u> .	
le the ineperties regult normal?	

Is the inspection result normal?

A NID LINI CIAUT 217

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLO	
< SYMPTOM DIAGNOSIS >	[TYPE 3]
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. REPLACE BCM	
 Replace BCM. Refer to <u>BCS-161, "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>. PASSENGER SIDE 	
PASSENGER SIDE : Description	INFOID:000000006609070
Passenger side door does not lock/unlock using door lock and unlock switch.	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000006609071
1. CHECK DOOR LOCK ACTUATOR	
Check front door lock assembly (passenger side). Refer to DLK-387, "PASSENGER SIDE : Component Function Check". 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-161, "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> . REAR LH REAR LH REAR LH : Description Rear LH side door does not lock/unlock using door lock and unlock switch.	INFOID:000000006609072
REAR LH : Diagnosis Procedure 1. CHECK DOOR LOCK ACTUATOR	INFOID:000000006609073
T.CHECK DOOR LOCK ACTUATOR Check rear door lock assembly LH. Refer to DLK-388, "REAR LH : Component Function Check". 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-161, "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". REAR RH	
REAR RH : Description	INFOID:000000006609074
Rear RH side door does not lock/unlock using door lock and unlock switch.	

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

< SYMPTOM DIAGNOSIS >	[TYPE 3]
REAR RH : Diagnosis Procedure	INFOID:000000006609075
1.CHECK DOOR LOCK ACTUATOR	
Check rear door lock assembly RH Refer to DLK-389, "REAR RH : Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-161, "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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DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

Diagnosis Procedure

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Go to <u>DLK-415</u>, "ALL DOOR : Diagnosis Procedure".

2. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to DLK-404, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK KEYFOB BATTERY

Check keyfob battery. Refer to <u>DLK-403, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-161, "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 LOCK STATUS INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >	[TYPE 3]
DOOR LOCK STATUS INDICATOR DOES NOT ILLUMINATE	
Diagnosis Procedure	INFOID:000000006609103
1. CHECK DOOR LOCK STATUS INDICATOR	
Check door lock status indicator. Refer to <u>DLK-395, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal?	
 YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>. NO >> GO TO 1. 	

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SUPER LOCK DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	[TYPE 3]
SUPER LOCK DOES NOT OPERATE	
ALL DOOR	
ALL DOOR : Diagnosis Procedure	INFOID:000000006609094
1. CHECK SUPER LOCK ACTUATOR	
Check front driver side super lock actuator. Refer to <u>DLK-407, "DRIVER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
 Replace BCM. Refer to <u>BCS-93, "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	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000006609095
1.CHECK SUPER LOCK ACTUATOR	
Check front driver side super lock actuator. Refer to <u>DLK-407, "DRIVER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
1. Replace BCM. Refer to <u>BCS-93, "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> .	
PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000006609096
1. CHECK SUPER LOCK ACTUATOR	
Check front passenger side super lock actuator. Refer to DLK-408, "PASSENGER SIDE : Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. Confirm the operation after replacement. 	

SUPER LOCK DOES NOT OPERATE

Is the result normal?

- YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

REAR LH

SUPER LOCK DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > [TYPE 3]
REAR LH : Diagnosis Procedure
1. CHECK SUPER LOCK ACTUATOR
Check super lock actuator rear LH. Refer to DLK-409, "REAR LH : Component Function Check".
Is the inspection result normal?
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.
2.CONFIRM THE OPERATION
 Replace BCM. Refer to <u>BCS-93. "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> . REAR RH
REAR RH : Diagnosis Procedure
1. CHECK SUPER LOCK ACTUATOR
Check super lock actuator rear RH. Refer to <u>DLK-410, "REAR RH : Component Function Check"</u> .
Is the inspection result normal?
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.
2.CONFIRM THE OPERATION
 Replace BCM. Refer to <u>BCS-93, "Removal and Installation"</u>. Confirm the operation after replacement.
<u>Is the result normal?</u> YES >> INSPECTION END
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .

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BACK DOOR DOES NOT OPENED

Diagnosis Procedure

1. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch. Refer to <u>DLK-384, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator. Refer to <u>DLK-383, "Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK VEHICLE SPEED SIGNAL

Check vehicle speed signal.

Refer to <u>MWI-46. "DTC Logic"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-161, "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>.

[TYPE 3]

ANTI-HIJACK FUNCTION DOES NOT OPERATE **[TYPE 3]** < SYMPTOM DIAGNOSIS > ANTI-HIJACK FUNCTION DOES NOT OPERATE А **Diagnosis** Procedure INFOID:00000006445234 1.CHECK "DOOR LOCK–UNLOCK SET" SETTING IN "WORK SUPPORT" В 1. Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode. 2. Check "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" 3. Refer to DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)". Is the inspection result normal? YES >> GO TO 2 D >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" NO 2.REPLACE BCM Е 1. Replace BCM. Refer to BCS-161, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? F >> INSPECTION END YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

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VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [TYPE 3]

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPER-ATE

Diagnosis Procedure

INFOID:000000006609084

- 1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"
- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super 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-III.
- 2. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT".

Refer to DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

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-161, "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 [TYPE 3] < SYMPTOM DIAGNOSIS > IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE А **Diagnosis** Procedure INFOID:000000006609085 1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT" В 1. Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. 2. Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". 3 Refer to DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)". Is the inspection result normal? YES >> GO TO 2. D NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". 2.CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT" Е 1. Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode. 2. Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT". 3. Refer to DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)". F Is the inspection result normal? YES >> GO TO 3. NO >> Set "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT". **3.**REPLACE BCM Replace BCM. Refer to BCS-161, "Removal and Installation". 1. Н Confirm the operation after replacement. 2. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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

< SYMPTOM DIAGNOSIS >

[TYPE 3]

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

Diagnosis Procedure

INFOID:000000006445240

- 1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"
- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super 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-III.
- 2. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT".

Refer to DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

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-III.
- 2. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR UNLOCK SELECT" setting in "WORK SUPPORT".

Refer to DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Set "MODE 2" or "MODE 4" in "AUTOMATIC DOOR UNLOCK SELECT".

4.CHECK TCM

Check TCM for DTC.

Refer to <u>TM-171, "DTC Index"</u> (RE0F10B models) or <u>TM-366, "DTC Index"</u> (RE0F11A models).

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-161, "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>.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006609083

[TYPE 3]

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1.	CHECK "AUTO LOCK SET" SETTING WITH CONSULT-III
1.	Select "MULTI REMOTE ENT" of "BCM" using CONSULT-III.
2.	Select "AUTO LOCK SET" in "WORK SUPPORT" mode.
3.	Check "AUTO LOCK SET" in "WORK SUPPORT".

Refer to <u>DLK-372</u>, "<u>MULTI REMOTE ENT</u> : <u>CONSULT-III Function (BCM - MULTI REMOTE ENT) (With Super Lock)</u>". <u>Is the inspection result normal?</u> YES >> GO TO 2.

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

2.REPLACE BCM

Replace BCM. Refer to <u>BCS-161, "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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DOOR LOCK STATUS INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

DOOR LOCK STATUS INDICATOR DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:000000006709654

[TYPE 3]

1. CHECK DOOR LOCK STATUS INDICATOR

Check door lock status indicator. Refer to <u>DLK-395, "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 BCS-93. "Removal and Installation".

2. Confirm the operation after replacement.

Is the result normal?

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

NO >> GO TO 1.

UNLOCK LINK FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > [TYPE 3] UNLOCK LINK FUNCTION DOES NOT OPERATE Diagnosis Procedure Diagnosis Procedure INFOLDO000006445236 1.REPLACE BCM INFOLDO000006445236

1. R	eplace BCM. Refer to BCS-161, "Removal and Installation".	
2. C	onfirm the operation after replacement.	
Is the	result normal?	С
YES	>> INSPECTION END	
NO	>> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	
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KEY OUT INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE [TYPE 3]

< SYMPTOM DIAGNOSIS >

KEY OUT INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006609086

1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. 2.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". 3.

Refer to DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT".

2.CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode. 2.
- Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT". 3.

Refer to DLK-371, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (With Super Lock)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".

3. CHECK KEY SWITCH

Check key switch. Refer to DLK-401, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

- Replace BCM. Refer to BCS-161, "Removal and Installation". 1.
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

KEY REMINDER FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS >	[TYPE 3]	
KEY REMINDER FUNCTION DOES NOT OPERATE		А
Diagnosis Procedure	INFOID:000000006609087	A
1. CHECK DOOR LOCK AND UNLOCK SWITCH		В
 Check door lock and unlock switch. Refer to the following. Driver side: Refer to <u>DLK-391, "DRIVER SIDE : Component Function Check"</u>. Passenger side: Refer to <u>DLK-392, "PASSENGER SIDE : Component Function Check"</u>. Is the inspection result normal? 		С
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK KEY SWITCH		D
Check key switch. Refer to <u>DLK-401, "Component Function Check"</u> .		E
<u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK DRIVER SIDE DOOR SWITCH		F
Check driver side door switch. Refer to <u>DLK-397, "Component Function Check"</u> .		G
Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.		Η
 4.REPLACE BCM 1. Replace BCM. Refer to <u>BCS-161. "Removal and Installation"</u>. 2. Confirm the operation after replacement. 		I
Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".		J
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HAZARD REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HAZARD REMINDER OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006609088

[TYPE 3]

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-141, "DTC Index"</u>. (BCM)

NO-2 >> Refer to <u>MWI-36. "DTC Index"</u>. (Combination meter)

2.CHECK "HAZARD LAMP SET" SETTING IN "WORK SUPPORT"

1. Select "MULTI REMOTE ENT" of "BCM" using CONSULT-III.

2. Select "HAZARD LAMP SET" in "WORK SUPPORT" mode.

 Check "HAZARD LAMP SET" in "WORK SUPPORT". Refer to <u>DLK-372, "MULTI REMOTE ENT : CONSULT-III Function (BCM - MULTI REMOTE ENT) (With Super Lock)"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "HAZARD LAMP SET" in "WORK SUPPORT".

3.CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to DLK-400, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

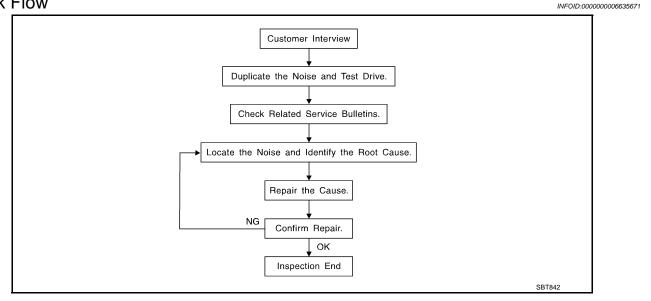
Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to GI-42. "Intermittent Incident".

< 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 the customer's comments; refer to <u>DLK-437</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, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive 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 bumble bee) Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

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< SYMPTOM DIAGNOSIS >

[TYPE 3]

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 model, drive position on A/T model).
- 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.

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 (Engine ear or mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to <u>DLK-435, "Inspection Procedure"</u>.

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. These insulators are available through the authorized Nissan Parts Department.

CAUTION:

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

- URETHANE PADS
 Insulates connectors
 - Insulates connectors, harness, etc.
- INSULATOR (Foam blocks) Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE

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

The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.

• UHMW(TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.

- SILICONE GREASE Used in place of UHMW tape that is be visible or does not fit. Note: 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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES	
< SYMPTOM DIAGNOSIS > [TYPE 3]	
Inspection Procedure	A
Refer to Table of Contents for specific component removal and installation information.	Γ
INSTRUMENT PANEL	c
Most incidents are caused by contact and movement between:	E
1. Cluster lid A and instrument panel	
2. Acrylic lens and combination meter housing	C
3. Instrument panel to front pillar garnish	
4. Instrument panel to windshield	
5. Instrument panel mounting pins	
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.	E
CAUTION:	F
Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck	
of repair becomes impossible.	C
CENTER CONSOLE	
Components to pay attention to include:	
1. Shifter assembly cover to finisher	ŀ
2. A/C control unit and cluster lid C	
Wiring harnesses behind audio and A/C control unit	
The instrument panel repair and isolation procedures also apply to the center console.	ļ
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	DI
4. Door striker out of alignment causing a popping noise on starts and stops	
Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks to repair the noise.	L
TRUNK	
Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer. In addition look for following:	N
1. Trunk lid dumpers out of adjustment	
2. Trunk lid striker out of adjustment	Γ
3. Trunk lid torsion bars knocking together	
4. A loose license plate or bracket	
Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus-	C
ing the noise.	
SUNROOF/HEADLINING	
Noises in the sunroof/headlining area can often be traced to one of the following:	F
1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise	
2. Sunvisor shaft shaking in the holder	
3. Front or rear windshield touching headlining and squeaking	
Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.	

< SYMPTOM DIAGNOSIS >

[TYPE 3]

SEATS

When isolating seat noise it is important to note the position the seat is in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- 1. Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 3. Rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

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

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



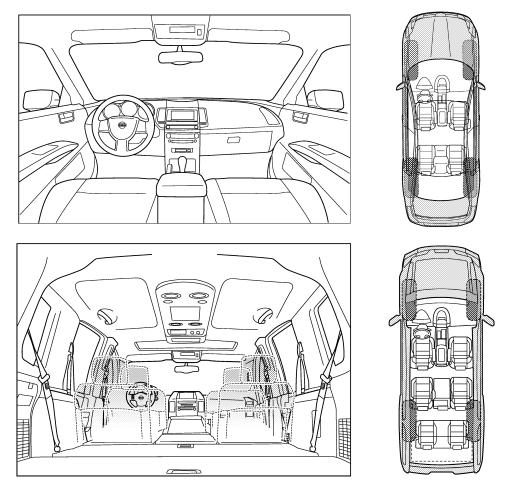
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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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[TYPE 3]

INFOID:000000006635673

< SYMPTOM DIAGNOSIS >

[TYPE 3]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please chec	k the boxes that apply)
 anytime 1st time in the morning only when it is cold outside only when it is hot outside 	 after sitting out in the rain when it is raining or wet dry or dusty conditions other:
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE
 through driveways over rough roads over speed bumps only about mph on acceleration coming to a stop on turns: left, right or either (circle) with passengers or cargo other: after driving miles or minu 	 squeak (like tennis shoes on a clean floor) creak (like walking on an old wooden floor) rattle (like shaking a baby rattle) knock (like a knock at the door) tick (like a clock second hand) thump (heavy, muffled knock noise) buzz (like a bumble bee)

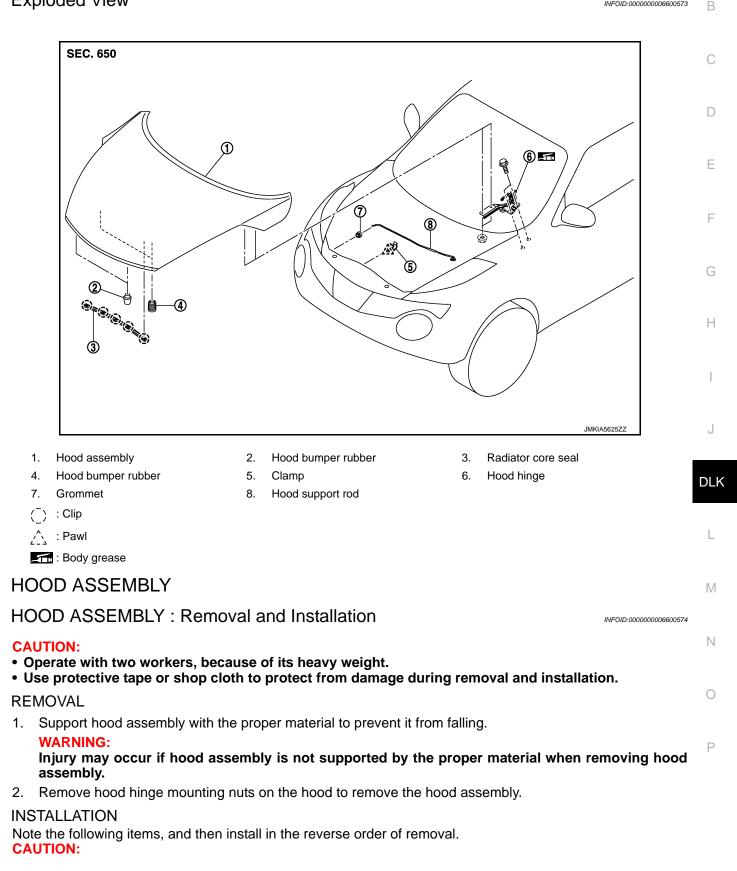
TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair			
	tomer Na		

< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION** HOOD

Exploded View



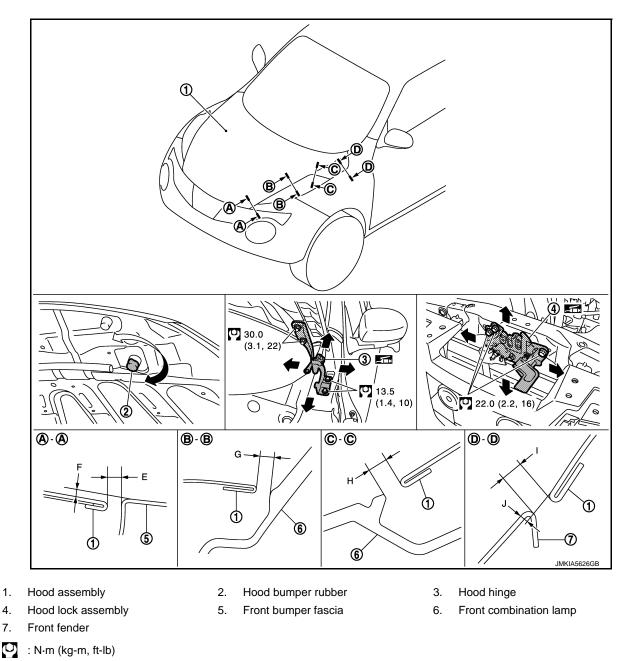
INFOID:000000006600573

А

- After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.
- After installing, perform hood fitting adjustment. Refer to <u>DLK-440, "HOOD ASSEMBLY : Adjust-ment"</u>.

HOOD ASSEMBLY : Adjustment

INFOID:000000006600575



: Body grease

Check the clearance and the surface height between hood and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

HOOD

< REMOVAL AND INSTALLATION >

[TYPE 3]

					Unit: mm (in)	
Portion				Standard	Difference (RH/LH, MAX)	A
Hood – Front	A – A	Ε	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	E
bumper fascia	A-A	F	Surface height	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	< 2.5 (0.098)	
Hood – Front combi- nation lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	(
Hood – Front combi- nation lamp	C – C	H	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	[
Hood – Front fender	D – D	I	Clearance	2.5 - 4.5 (0.098 - 0.177)	< 1.5 (0.059)	
noou – Front lender	U – U	J	Surface height	(-2.0) – (0.0) [(-0.079) – (0.000)]	< 1.5 (0.059)	E

FITTING ADJUSTMENT PROCEDURE

- 1. Remove front center grille. Refer to EXT-18. "Removal and Installation".
- 2. Remove hood lock assembly, 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.
- Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for looseness.
- 4. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 5. After adjustment, tighten lock bolts to the specified torque.
- 6. Open hood. Rotate bumper rubber counterclockwise between half a turn and three-quarters of a turn.
- 7. Check that secondary latch is securely engaged with secondary hood striker from the dead load of the hood assembly.
- Check that primary latch is securely engaged with primary hood 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.

9. Install front center grille. Refer to EXT-18. "Removal and Installation".

HOOD HINGE

HOOD HINGE : Removal and Installation

REMOVAL

- 1. Remove hood assembly. Refer to <u>DLK-439</u>, "HOOD ASSEMBLY : Removal and Installation".
- 2. Remove front fender. Refer to <u>DLK-450, "Removal and Installation"</u>.
- 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 hinge fitting adjustment. Refer to <u>DLK-442</u>, <u>"HOOD HINGE : Adjust-</u> (<u>ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.

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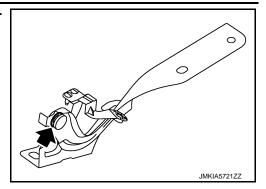
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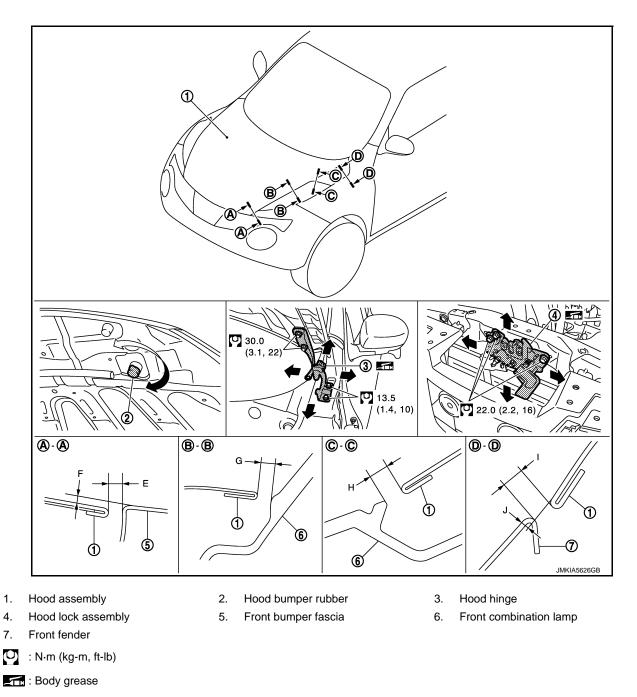
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HOOD HINGE : Adjustment

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Check the clearance and the surface height between hood and each part by visually and touching.

HOOD

< REMOVAL AND INSTALLATION >

Ρ	ortion			Standard	Difference (RH/LH, MAX)
Hood – Front		Ε	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
bumper fascia	A – A	F	Surface height	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	< 2.5 (0.098)
Hood – Front combi- nation lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front combi- nation lamp	C – C	н	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Lload Front foundar		Т	Clearance	2.5 - 4.5 (0.098 - 0.177)	< 1.5 (0.059)
Hood – Front fender	ler D – D J Surface heigl		Surface height	(-2.0) – (0.0) [(-0.079) – (0.000)]	< 1.5 (0.059)

1. Remove front center grille. Refer to EXT-18. "Removal and Installation".

2. Remove hood lock assembly.

3. Remove front bumper fascia. Refer to EXT-13. "Removal and Installation".

- 4. Remove front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 5. Remove front fender assembly (LH and RH). Refer to <u>DLK-450, "Removal and Installation"</u>.
- 6. Loosen hood hinge mounting bolts.
- 7. Temporarily install front fender assembly (LH and RH), front combination lamp (LH and RH) and front bumper fascia.
- 8. Adjust the clearance of hood assembly, front fender assembly (LH and RH), front combination lamp (LH and RH) and front bumper fascia according to the specified value, by moving hood hinge (body side).
- 9. Temporarily tighten hood hinge (LH and RH).
- 10. Remove front bumper fascia, front combination lamp (LH and RH) and front fender assembly (LH and J RH).
- 11. Tighten hood hinge (LH and RH) to the specified torque.
- 12. Install front fender assembly (LH and RH). Refer to DLK-450, "Removal and Installation".
- 13. Install front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 14. Install front bumper fascia. Refer to EXT-13, "Removal and Installation".
- 15. Adjust the surface height of hood assembly, front fender assembly, and front combination lamp according to the specified value, by rotating hood bumper rubber.
- 16. Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for looseness.
- 17. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 18. After adjustment, tighten lock bolts to the specified torque.
- 19. Open hood. Rotate bumper rubber counterclockwise between half a turn and three-quarters of a turn.
- 20. Check that secondary latch is securely engaged with secondary hood striker from the dead load of the hood assembly.
- Check that primary latch is securely engaged with primary hood 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.

 Install front center grille. Refer to <u>EXT-18, "Removal and Installation"</u>. CAUTION:

After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.

HOOD SUPPORT ROD

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HOOD SUPPORT ROD : Removal and Installation

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REMOVAL

CAUTION:

Two workers are required to support the hood.

1. Support hood assembly with a suitable material to prevent it from falling.

WARNING: Injury may occur if hood assembly is not supported by the proper material when removing hood assembly.

2. Pull hood support rod from grommet and remove.

INSTALLATION

Install in the reverse order of removal.

< REMOVAL AND INSTALLATION > RADIATOR CORE SUPPORT

HR16DE

HR16DE : Exploded View

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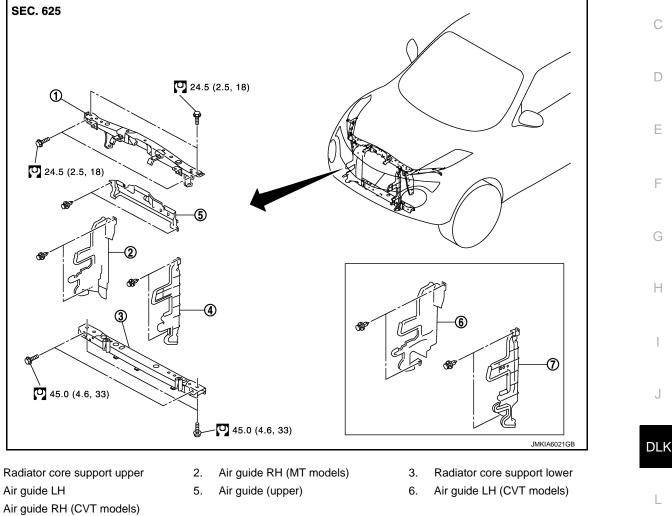
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: N·m (kg-m, ft-lb)

HR16DE : Removal and Installation

RADIATOR CORE SUPPORT UPPER

Removal

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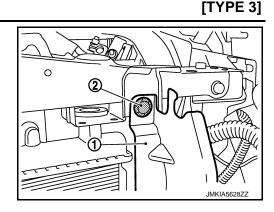
- 1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".
- 2. Remove front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 3. Remove headlamp (LH and RH). Refer to EXL-89, "Removal and Installation".
- Disconnect crash zone sensor harness connector. Refer to <u>SR-26, "Removal and Installation"</u>. CAUTION:

Turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.

- Remove hood lock and hood lock cable fixing clip. Refer to <u>DLK-470, "HOOD LOCK : Removal and Instal-</u> lation".
- 6. Remove horn bracket. Refer to HRN-4, "Removal and Installation".
- 7. Remove air guide (upper) fixing clips, and then remove air guide (upper).

< REMOVAL AND INSTALLATION >

8. Remove upper fixing clips (2) of air guide (LH and RH) (1).



- 9. Remove hood support rod. Refer to DLK-444, "HOOD SUPPORT ROD : Removal and Installation".
- 10. Remove mounting bolts, and then remove radiator core support upper.

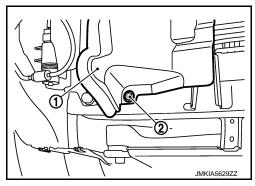
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

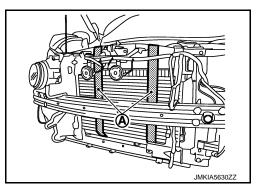
Removal

- 1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".
- Remove lower fixing clips (2) of radiator side seal (LH and RH) (1).



 Use belts (A) to suspend radiator and condenser to prevent them from falling. CAUTION:

Never damage radiator and condenser.



4. Remove mounting bolts, and then remove radiator core support lower.

Installation Install in the reverse order of removal. MR16DDT

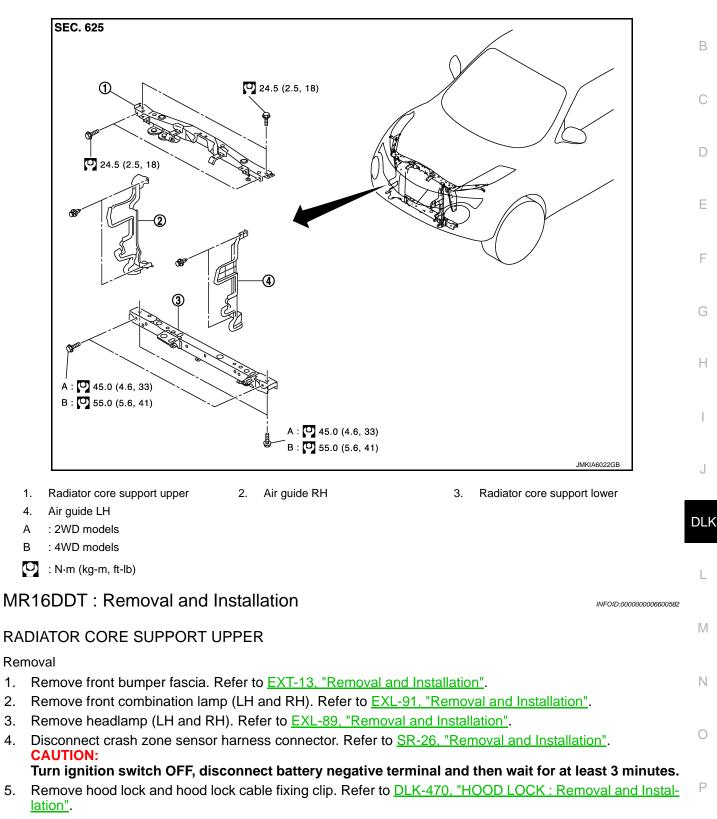
< REMOVAL AND INSTALLATION >

MR16DDT : Exploded View

[TYPE 3]

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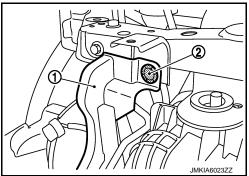
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6. Remove horn bracket. Refer to HRN-4, "Removal and Installation".

< REMOVAL AND INSTALLATION >

7. Remove upper fixing clips (2) of air guide (LH and RH) (1).



- 8. Remove hood support rod. Refer to DLK-444, "HOOD SUPPORT ROD : Removal and Installation".
- 9. Remove mounting bolts, and then remove radiator core support upper.

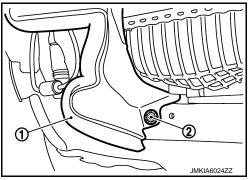
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

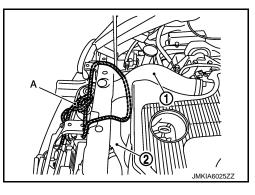
Removal

- 1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".
- Remove lower fixing clips (2) of radiator side seal (LH and RH) (1).

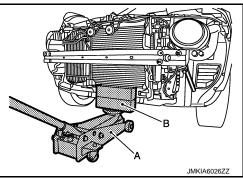


 Using strings (A), hang inlet hose (1) and inlet hose (2) together with charge air cooler.
 CAUTION:

Never damage inlet hoses with charge air cooler.



 Support lower side radiator using wooden blocks (B) and a floor jack (A).
 CAUTION: Never damage radiator.



5. Remove mounting bolts, and then remove radiator core support lower.

Installation

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

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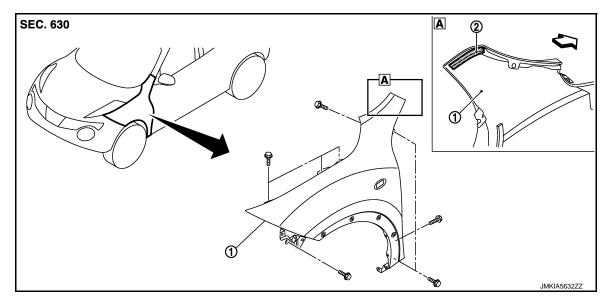
< REMOVAL AND INSTALLATION >

FRONT FENDER

Exploded View

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[TYPE 3]



1. Front fender assembly

2. Front fender stiffener

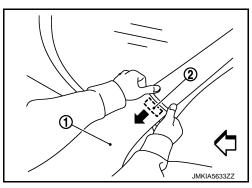
 $\triangleleft : \mathsf{Vehicle front} \\$

Removal and Installation

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REMOVAL

- 1. Remove front fillet molding. Refer to EXT-26, "FRONT FILLET MOLDING : Removal and Installation".
- 2. Remove front bumper fascia assembly. Refer to EXT-13, "Removal and Installation".
- 3. Remove sill cover. Refer to EXT-23, "Removal and Installation".
- 4. Remove fender protector. Refer to EXT-22, "Removal and Installation".
- 5. Remove front fender cover. Refer to EXT-20, "Exploded View".
- 6. Remove front combination lamp. Refer to EXL-91, "Removal and Installation".
- 7. Remove side turn signal lamp. Refer to EXL-98, "Removal and Installation".
- 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.



10. Remove front fender assembly.

CAUTION:

An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Note the following items, and install in the reverse order of removal.

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• After installation, apply the touch-up paint (the body color) onto the head of front	fender mounting A
bolts.	

• After installation, adjust the following part.

Hood assembly: Refer to	<u>DLK-440,</u>	"HOOD ASSEMBLY	<u>' : Adjustment".</u>
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- Front door: Refer to DLK-454, "DOOR ASSEMBLY : Adjustment".

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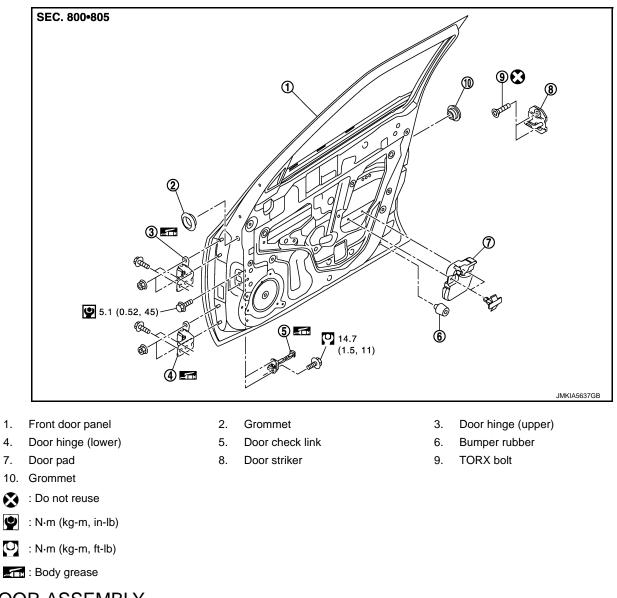
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< REMOVAL AND INSTALLATION >

FRONT DOOR

Exploded View

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DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

CAUTION:

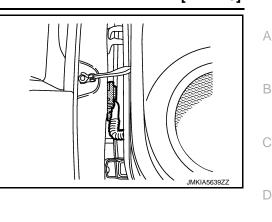
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

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< REMOVAL AND INSTALLATION >

1. Disconnect front door harness connector.



- 2. Remove mounting bolt of door check link on the vehicle.
- 3. Remove door hinge mounting bolts (door side), and then remove door assembly.

INSTALLATION

Note the following items, and 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.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-454, "DOOR ASSEMBLY : Adjust-</u><u>ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.



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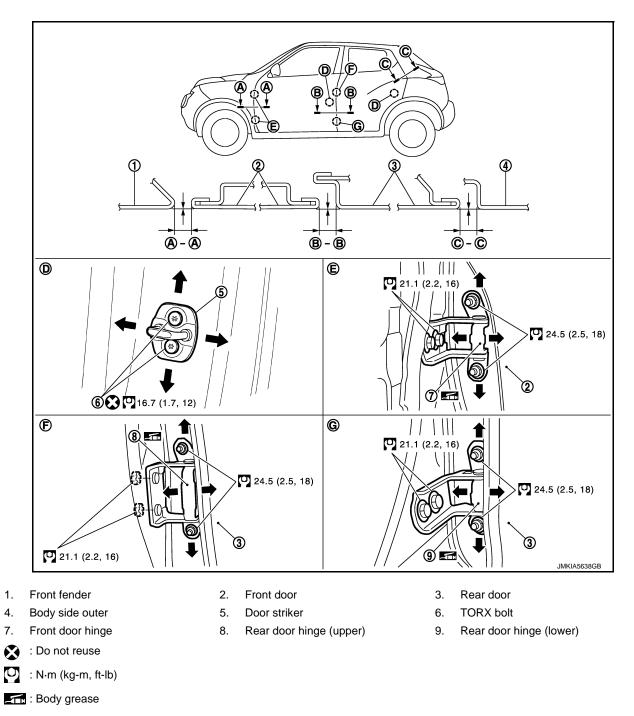
[TYPE 3]

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

I Init: mm (in)

[TYPE 3]



Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

			Office finite (in)
Portion		Clearance	Surface height
Front fender – Front door	A – A	3.0 – 5.0 (0.118 – 0.197)	(-1.0) – (+1.0) [(-0.039) – (+0.039)]
Front door – Rear door	B – B	3.3 – 5.3 (0.130 – 0.209)	(-1.0) – (+1.0) [(-0.039) – (+0.039)]

FITTING ADJUSTMENT PROCEDURE

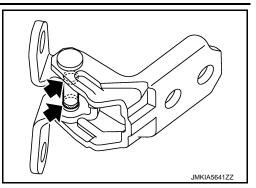
- Remove front fender. Refer to DLK-450, "Removal and Installation". 1.
- Loosen door hinge mounting nuts on door side. 2.

< REMOVAL AND INSTALLATION > [TYPE	: 3]
3. Adjust the surface height of front door according to the fitting standard dimension.	
4. Temporarily tighten door hinge mounting nuts on door side.	A
5. Loosen door hinge mounting bolts on body side.	
 Raise front door at rear end to adjust clearance of the front door according to the fitting standard dim sion. 	nen- B
 After adjustment tighten bolts and nuts to the specified torque. CAUTION: 	
 After installation, apply touch-up paint (the body color) onto the head of hinge mounting bo and nuts. Check door hinge retating part for poor lubrication. If personally body groups 	olts C
 Check door hinge rotating part for poor lubrication. If necessary, apply body grease. 8. Install front fender. Refer to refer to <u>DLK-450</u>, "<u>Removal and Installation</u>". 	_
	D
DOOR STRIKER ADJUSTMENT	
Adjust door striker so that it becomes parallel with door lock insertion direction. DOOR STRIKER	E
DOOR STRIKER : Removal and Installation	6600588 F
REMOVAL	Г
Remove TORX bolts, and then remove door striker.	
INSTALLATION	G
Note the following items, and install in the reverse order of removal.	
CAUTION:	
 Check front door open/close, lock/unlock operation after installation. After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-454, "DOOR ASSEMBL</u> <u>Adjustment"</u>. 	H LY :
DOOR HINGE	I
DOOR HINGE : Removal and Installation	600589
REMOVAL	J
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 p tect door and body. 	oro- DLK
1. Remove front fender. Refer to <u>DLK-450, "Removal and Installation"</u> .	
2. Remove front door assembly. Refer to <u>DLK-452</u> , "DOOR ASSEMBLY : Removal and Installation".	L
3. Remove front door hinge mounting bolts (body side), and then remove front door hinge.	
INSTALLATION	
Note the following items, and install in the reverse order of removal.	M
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-454, "DOOR ASSEMBLY : Adjustment</u>. 	N ust-
ment".	
After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nut	ts. 0

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< REMOVAL AND INSTALLATION >

- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - : Grease up point

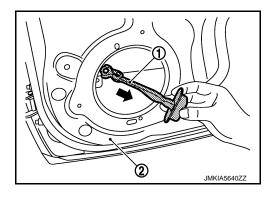


DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

REMOVAL

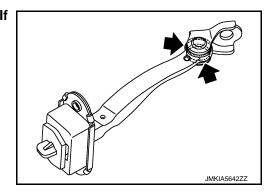
- 1. Fully close the front door window.
- 2. Remove front door finisher. Refer to INT-13, "Removal and Installation".
- 3. Disconnect harness connector of front door speaker.
- 4. Remove mounting bolts of front door speaker, and then remove front door speaker.
- 5. Remove mounting bolt of door check link on the vehicle.
- 6. Remove mounting bolts 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 item, 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

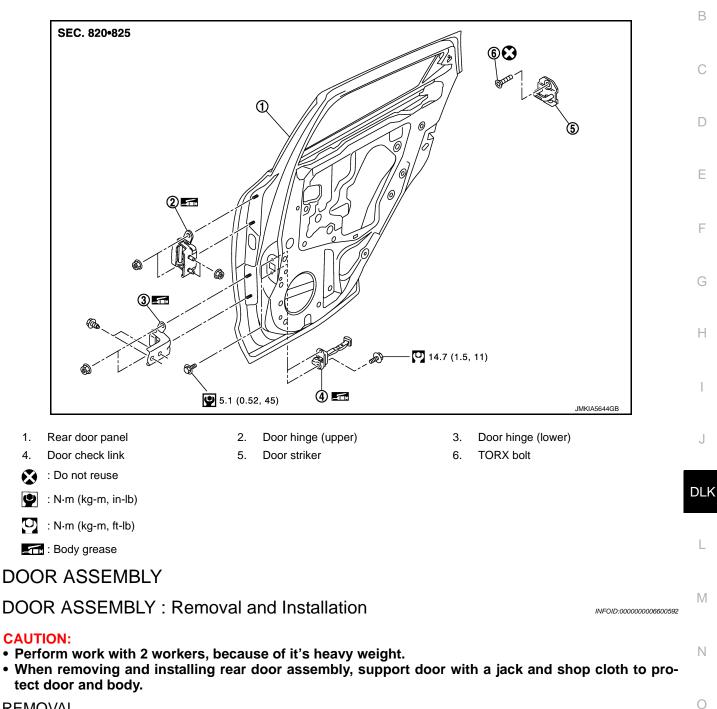


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< REMOVAL AND INSTALLATION > **REAR DOOR**

Exploded View

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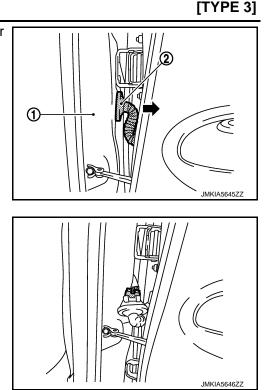
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< REMOVAL AND INSTALLATION >

1. Remove rear door harness grommet (2) from body side outer (1), and then pull out rear door harness.



Disconnect rear door harness connector.

- 3. Remove mounting bolt of door check link on the vehicle.
- 4. Remove door hinge mounting bolts (door side), and then remove rear door assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

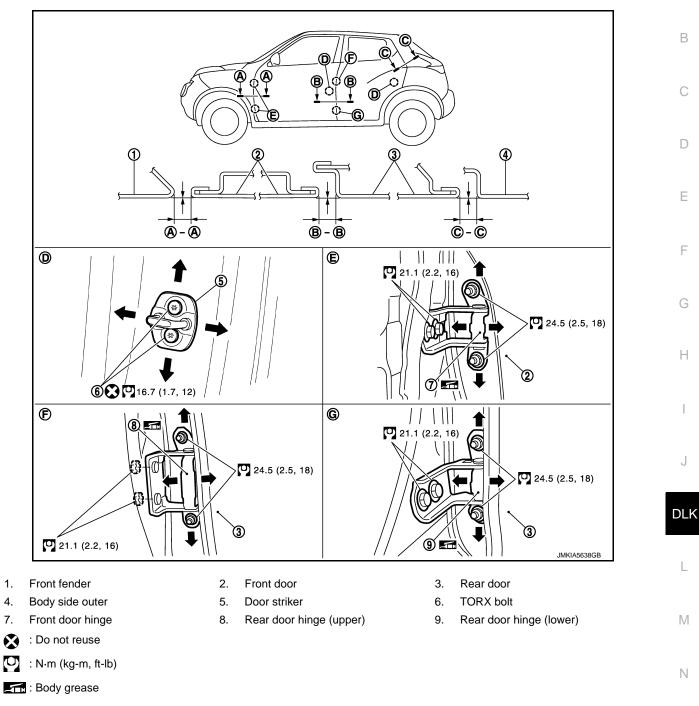
2.

- Apply anticorrosive agent onto the mounting surface.
- Check rear door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-459, "DOOR ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

INFOID:000000006600593



Check the clearance and surface height between front door and each part by visually and touching. 0 If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

			Unit: mm (in)
Portion		Clearance	Surface height
Front door – Rear door	B – B	3.3 – 5.3 (0.130 – 0.209)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]
Rear door – Body side outer	C – C	2.6 - 4.6 (0.102 - 0.181)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]

FITTING ADJUSTMENT PROCEDURE

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Remove center pillar lower garnish. Refer to INT-20. "CENTER PILLAR LOWER GARNISH : Removal 1. and Installation".

DLK-459

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< REMOVAL AND INSTALLATION >

- 2. Loosen door hinge mounting nuts on door side.
- 3. Adjust the surface height of rear door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting nuts and bolts on body side.
- 6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
- 7. After adjustment tighten bolts and nuts to the specified torque. CAUTION:
 - After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
 - Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- 8. Install center pillar lower garnish. Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH : Removal and</u> <u>Installation"</u>.

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction. $\ensuremath{\mathsf{DOOR}}$ STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000006600594

INFOID:000000006600595

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Check rear door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-459, "DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

DOOR HINGE

DOOR HINGE : Removal and Installation

CAUTION:

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

- 1. Remove rear door assembly. Refer to <u>DLK-457. "DOOR ASSEMBLY : Removal and Installation"</u>.
- 2. Remove center pillar lower garnish. Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH : Removal</u> <u>and Installation"</u>.
- 3. Remove rear door hinge mounting bolts and nuts (body side), and then remove door hinge.

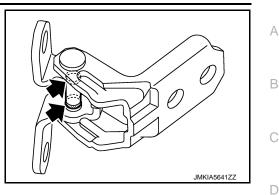
INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check rear door open/close operation after installation.
- When removing and installing rear door assembly, perform the fitting adjustment. Refer to <u>DLK-459</u>, <u>"DOOR ASSEMBLY : Adjustment"</u>.
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

< REMOVAL AND INSTALLATION >

- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - : Grease up point



[TYPE 3]

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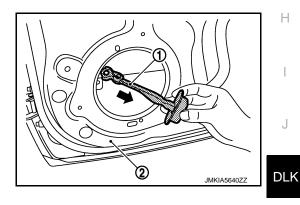
L

DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

REMOVAL

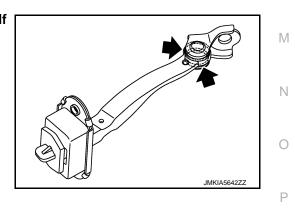
- 1. Fully close the rear door window.
- 2. Remove rear door finisher. Refer to INT-16, "Removal and Installation".
- 3. Remove mounting bolts of rear door speaker, and then remove rear door speaker.
- 4. Disconnect harness connector of rear door speaker.
- 5. Remove mounting bolt of the check link on the vehicle.
- 6. Remove mounting bolts of the 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 rear door open/close operation after installation.
- Check door check link rotating part for poor lubrication. If necessary, apply grease.
 - : Grease up point

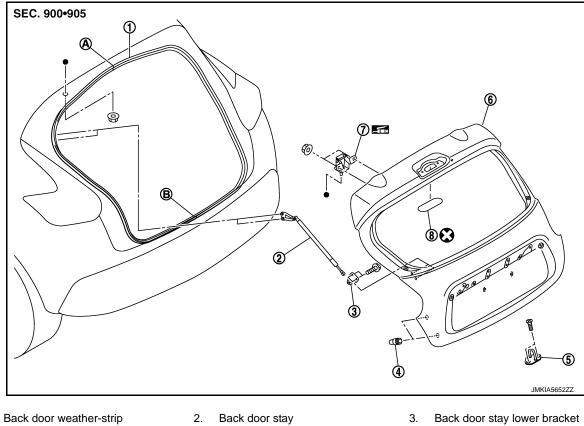


< REMOVAL AND INSTALLATION > BACK DOOR

Exploded View

REMOVAL

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- 4. Bumper rubber
- 7. Back door hinge
- A : Center mark
- B : Seam

1.

- : Do not reuse
- : Body grease

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

5.

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CAUTION:

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

Back door striker

Hole cover

6.

Back door panel

REMOVAL

 Remove luggage side upper finisher (LH and RH). Refer to <u>INT-32, "LUGGAGE SIDE UPPER FINISHER</u> <u>: Removal and Installation"</u>.

< REMOVAL AND INSTALLATION >

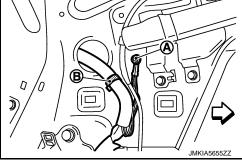
2. Disconnect harness connector.

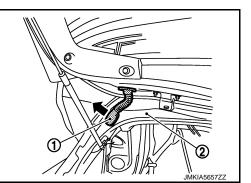
 \triangleleft : Vehicle front

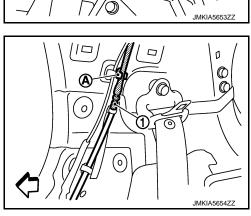
- 3. Remove rear washer hose (1) from hose mounting clip (A), and then disengage hose.
 - \triangleleft : Vehicle front

- 4. Remove center pillar upper garnish. Refer to <u>INT-21, "CENTER PILLAR UPPER GARNISH : Removal</u> and Installation".
- 5. Remove upper side of back door weather-strip. Refer to <u>DLK-468</u>, "BACK DOOR WEATHER-STRIP : <u>Removal and Installation</u>".
- Remove rear assist grip (LH and RH) and mounting clips for rear portion of headlining, and then remove rear portion of headlining. Refer to <u>INT-26, "Exploded View"</u>.
- 7. Remove ground harness mounting bolt (A) and harness fixing clip (B).

Remove grommet (1), and then pull out harness from roof panel (2).







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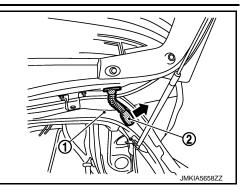
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< REMOVAL AND INSTALLATION >

9. Remove grommet (2), and then pull out harness and washer tube from roof panel (1).



10. Support back door with the proper material to prevent it from falling. WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

- 11. Remove back door stay (back door side). Refer to <u>DLK-467, "BACK DOOR STAY : Removal and Installa-</u> tion".
- 12. Remove back door hinge mounting nuts on back door and remove back door assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-465, "BACK DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

< REMOVAL AND INSTALLATION >

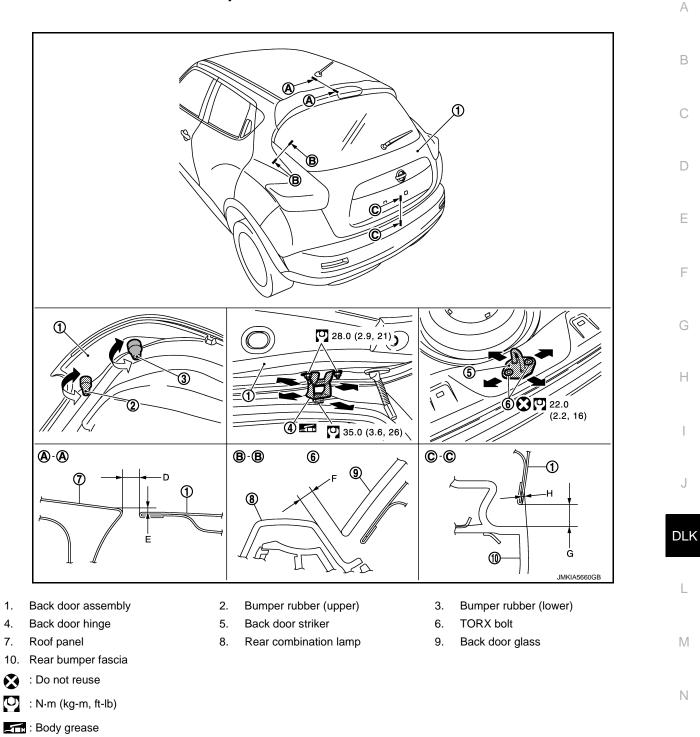
BACK DOOR ASSEMBLY : Adjustment

[TYPE 3]



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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.

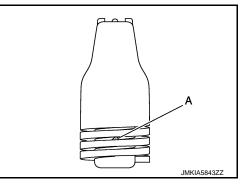
					Unit: mm (in)
Portion				Standard	Difference (LH/RH, MAX)
Roof panel – Back door	A – A	D	Clearance	5.0 – 7.0 (0.197 – 0.276)	_
		Е	Surface height	0.9 – 2.9 (0.035 – 0.114)	—

< REMOVAL AND INSTALLATION >

	Portior	I		Standard	Difference (LH/RH, MAX)
Rear combination lamp – Back door glass	B – B	F	Clearance	2.8 – 7.2 (0.110 – 0.283)	<2.0 (0.079)
Rear bumper fas- cia – Back door	C – C	G	Clearance	6.0 - 10.0 (0.236 - 0.394)	_
		Н	Surface height	(-2.5) – (+1.0) [(-0.098) – (+0.039)]	—

FITTING ADJUSTMENT PROCEDURE

- 1. Loosen back door striker mounting bolts.
- 2. Loosen back door hinge mounting nuts (back door side).
- 3. 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. Screw bumper rubber (upper) into the stopper position (A), and then loosen by a half turn.
- 6. Screw bumper rubber (lower) into the end position of threads.



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CAUTION:

After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.

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 luggage rear plate. Refer to INT-30, "LUGGAGE REAR PLATE : Removal and Installation".
- 2. Remove TORX bolts, and then remove back door striker.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-465, "BACK DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

REMOVAL

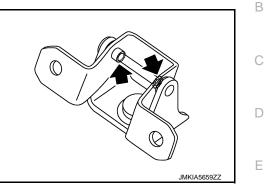
- 1. Remove back door assembly. Refer to <u>DLK-462, "BACK DOOR ASSEMBLY : Removal and Installation"</u>.
- 2. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

< REMOVAL AND INSTALLATION >

Note the following items, and install in the reverse order of removal. CAUTION:

- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to DLK-465, "BACK DOOR ASSEMBLY : Adjustment".
- · 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

REMOVAL

- Remove luggage side upper finisher and rear pillar cap. Refer to INT-32, "LUGGAGE SIDE UPPER FIN-1. ISHER : Removal and Installation".
- 2. Support the back door with the suitable material to prevent it from falling.

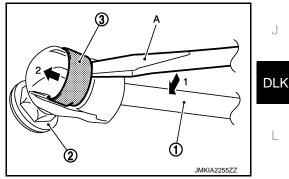
WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

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

Be careful not to damage painted surface.

5. Remove back door stay (back door side).



6. Remove mounting bolts, and then remove back door stay lower bracket.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- After installation, check back door open/close, lock/unlock operation.

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< REMOVAL AND 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.
 - A: 20 mm (0.787 in)
 - **B:** Cut at the groove.



BACK DOOR WEATHER-STRIP : Removal and Installation

REMOVAL

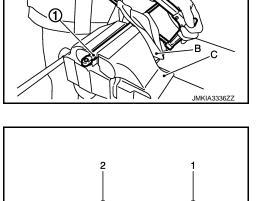
Pull up and remove engagement with body from weather-strip joint.

CAUTION:

Never pull strongly on weather-strip.

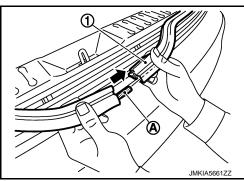
INSTALLATION

- 1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.
- 2. For the lower section, insert pad (A) into weather-strip (1), and then fix the connection point.



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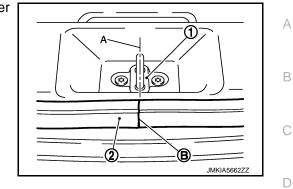
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BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

3. 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 fits tightly in each corner and luggage rear plate.



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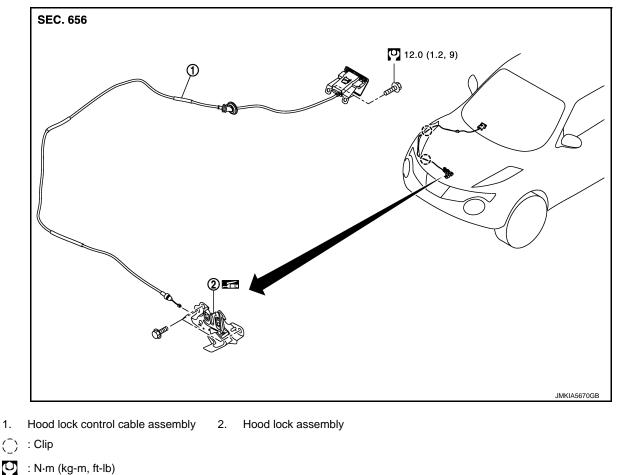
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DLK-469

< REMOVAL AND INSTALLATION > HOOD LOCK

Exploded View

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: Body grease

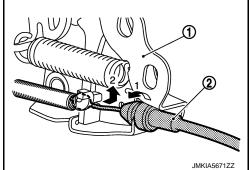
HOOD LOCK

HOOD LOCK : Removal and Installation

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REMOVAL

- 1. Remove front center grille. Refer to EXT-18. "Removal and Installation".
- 2. Remove crash zone sensor. Refer to SR-26, "Removal and Installation".
- 3. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
- 4. Disconnect hood lock control cable assembly (2) from hood lock assembly (1).



HOOD LOCK

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- Check that hood lock control cable is properly engaged with hood lock.
 After installation, perform hood fitting adjustment. Refer to <u>DLK-440, "HOOD ASSEMBLY : Adjust-ment"</u>.
 - After installation, perform hood lock control inspection. Refer to <u>DLK-471, "Inspection"</u>.
 HOOD LOCK CONTROL CABLE

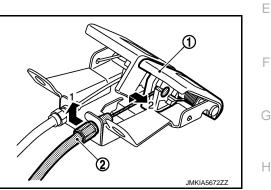
HOOD LOCK CONTROL CABLE : Removal and Installation

Note the following items, and install in the reverse order of removal.

REMOVAL

CAUTION:

- 1. Disconnect hood lock control cable assembly from hood lock assembly.
- 2. Remove fender protector (RH). Refer to EXT-22. "Removal and Installation".
- 3. Remove hood lock cable clip.
- Remove hood lock control cable assembly of instrument lower panel (RH), and then remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).



5. Remove grommet on the lower dash, and pull the hood lock control cable toward the passenger compartment.

CAUTION:

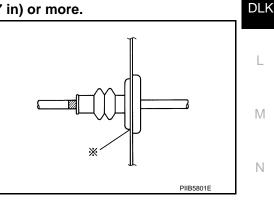
While pulling, never to damage (peeling) the outside of hood lock control cable.

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-440, "HOOD ASSEMBLY : Adjust-ment"</u>.
- After installation, perform hood lock control inspection. Refer to <u>DLK-471, "Inspection"</u>.

Inspection

NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that secondary latch is securely engaged with securely striker from the dead load of the hood assembly.

DLK-471

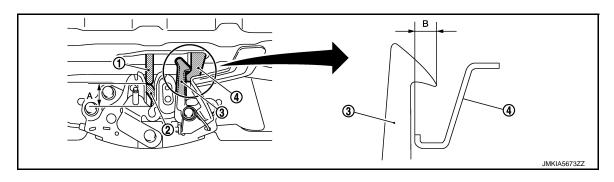
HOOD LOCK

< REMOVAL AND INSTALLATION >

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].

Never free-fall hood assembly from a height of 300 (11.811 in) mm or more.

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.

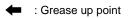


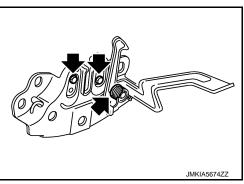
Primary striker
 Secondary striker

2.

2. Primary latch

- 3. Secondary latch
- 4. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).
- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.



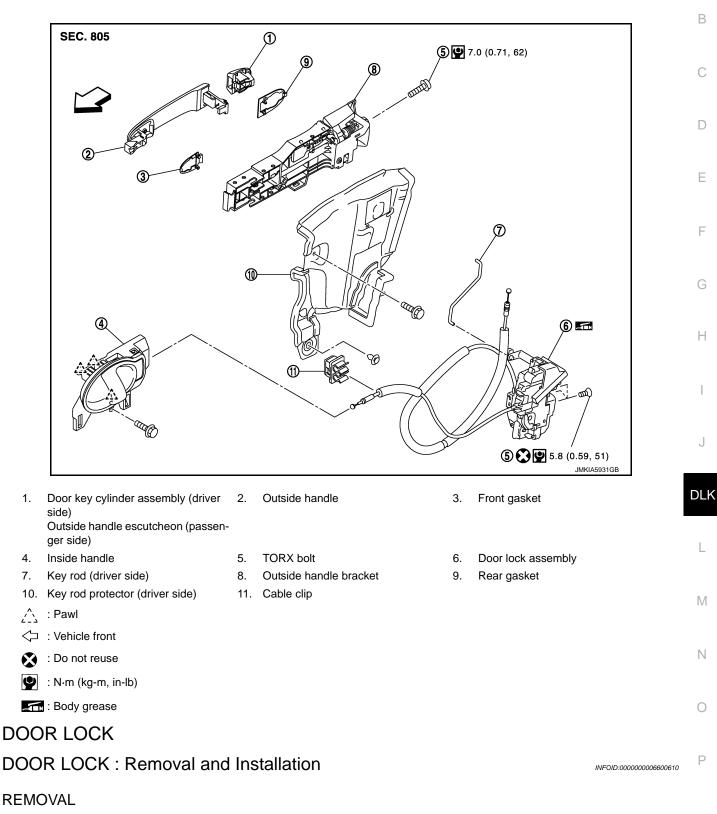


< REMOVAL AND INSTALLATION >

FRONT DOOR LOCK

Exploded View

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- 1. Remove inside handle. Refer to <u>DLK-474, "INSIDE HANDLE : Removal and Installation"</u>.
- 2. Disengage inside handle cable from cable clip.
- 3. Remove outside handle bracket. Refer to DLK-474, "OUTSIDE HANDLE : Removal and Installation".
- 4. Remove door lock assembly TORX bolts.

DLK-473

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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

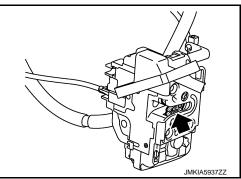
5. Disconnect door lock actuator connector, and then remove door lock assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal. CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- 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

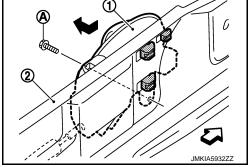
REMOVAL

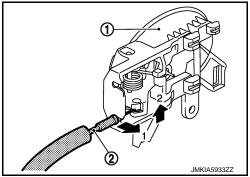
4.

- 1. Remove front door finisher. Refer to INT-13, "Removal and Installation".
- 2. Remove inside handle mounting bolt (A).
- Disengage inside handle (1) from door panel (2) while sliding 3. inside handle toward vehicle rear, and then separate inside handle.

Disengage inside handle cable (2), and then remove inside han-

: Vehicle front





INSTALLATION

dle (1).

Note the following item, and install in the reverse order of removal.

CAUTION: Check door open/close, lock/unlock operation after installation. OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

REMOVAL

1. Remove front door glass and front door lower sash (rear). Refer to GW-17, "Removal and Installation".

DLK-474

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FRONT DOOR LOCK

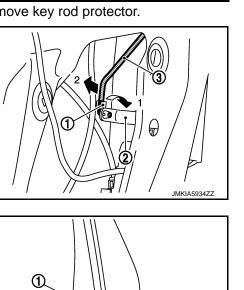
< REMOVAL AND INSTALLATION >

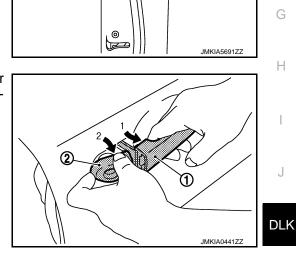
- 2. Remove key rod protector mounting bolt and fixing clip, and then remove key rod protector.
- 3. Disengage lock holder (1), and then separate key rod (3) from door lock assembly (2).(Driver side)

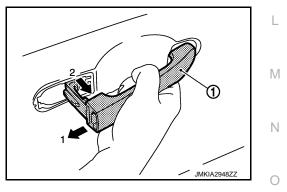
4. Remove grommet (1) of door side. Loosen, through grommet hole, TORX bolt (2) that fixes door lock cylinder. (For passenger side, TORX bolt fixes outside handle escutcheon.)

5. While pulling outside handle (1), remove door key cylinder assembly (diver side) (2) or outside handle escutcheon (passenger side) (2).

6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.







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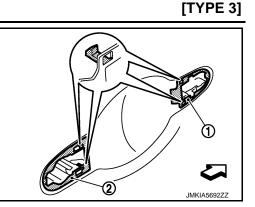
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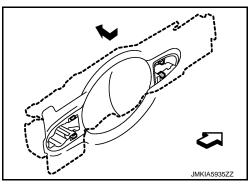
FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

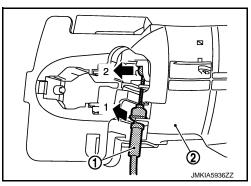
- 7. Remove front gasket (1) and rear gasket (2).



- 8. Slide outside handle bracket toward rear of vehicle to remove.



9. Disconnect outside handle cable (1) from outside handle bracket (2).



INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- When installing key rod, rotate key rod holder until a click is felt.
- Check that door lock cables are normally engaged with inside handle and outside handle.
- After installation, check door open/close, and lock/unlock operation.

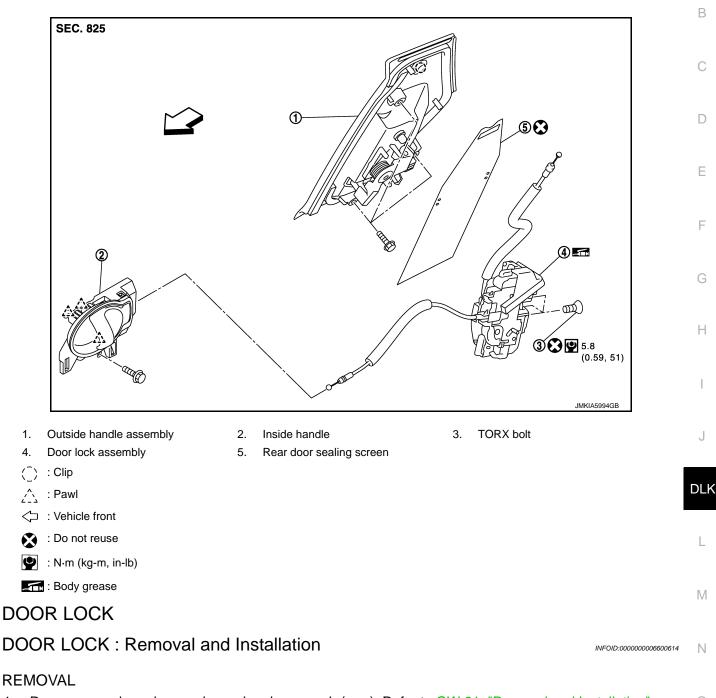
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

REAR DOOR LOCK

Exploded View

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- 1. Remove rear door glass and rear door lower sash (rear). Refer to <u>GW-21, "Removal and Installation"</u>.
- 2. Remove inside handle. Refer to <u>DLK-478</u>, "INSIDE HANDLE : Removal and Installation".
- Remove outside handle. Refer to <u>DLK-478, "OUTSIDE HANDLE : Removal and Installation"</u>.
- 4. Remove door lock assembly TORX bolts.
- 5. Disconnect door lock actuator connector, and then remove door lock assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- Check door open/close, lock/unlock operation after installation.

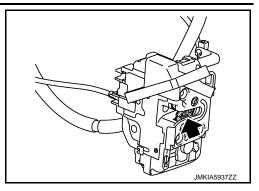
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< REMOVAL AND INSTALLATION >

- Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.
 - : Grease up point



INSIDE HANDLE

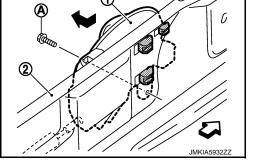
INSIDE HANDLE : Removal and Installation

REMOVAL

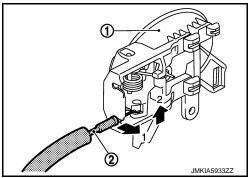
- 1. Remove rear door finisher. Refer to INT-16, "Removal and Installation".
- 2. Remove upper side of sealing screen. **NOTE:**

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. Remove inside handle mounting bolt (A).
- 4. Disengage inside handle (1) from door panel (2) while sliding inside handle toward vehicle rear, and then separate inside handle.
 - \triangleleft : Vehicle front



5. Disengage inside handle cable (2), and then remove inside handle (1).



INSTALLATION Note the following item, and install in the reverse order of removal. CAUTION: Check door open/close, lock/unlock operation after installation. OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

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REMOVAL

- 1. Remove rear door finisher and rear door corner cover inner. Refer to INT-16, "Removal and Installation".
- 2. Remove rear door sealing screen.

DLK-478

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REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

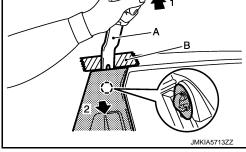
- 3. Rotate stopper (1) upward.
- 4. Disengage outside handle cable (2), and then remove outside handle cable from outside handle assembly (3).

5. Remove outside handle assembly mounting bolts (A).

 Disengage mounting clips using a remover tool (A), and then remove outside handle assembly.
 CAUTION:

Apply protective tape (B) on the door panel to protect the painted surface from damage.

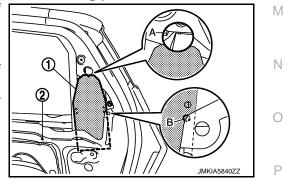
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INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Never reuse rear door sealing screen. Always replace it with a new one when it is removed. When installing rear door sealing screen, install it according to the following procedure.
- Put lower portion of rear door sealing screen (1) into inside of door panel (2).
- Perform positioning according to the following procedure, and then install rear door sealing screen.
- Align upper portion of rear door sealing screen to hole (A) of door panel as shown in the figure.
- Align hole of rear door sealing screen to edge (B) of door panel as shown in the figure.



- Be careful to position outside handle cable normally when installing it. For details, refer to <u>DLK-477</u>, <u>"Exploded View"</u>.
- Check door open/close, lock/unlock operation after installation.

DLK-479

[TYPE 3]

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JMKIA5712ZZ

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BACK DOOR LOCK

< REMOVAL AND INSTALLATION > **BACK DOOR LOCK**

Exploded View

INFOID:000000006600617

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Back door striker

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10.0 (1.0, 7)

TORX bolt

- Back door lock assembly 1.
- : Do not reuse
- : N·m (kg-m, ft-lb)
- : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000006600618

INFOID:000000006600619

JMKIA5714GB

REMOVAL

- 1. Remove the back door lower finisher. Refer to INT-35, "BACK DOOR LOWER FINISHER : Removal and Installation".
- 2. Remove back door lock assembly mounting bolts.
- Disconnect back door lock connector, and then remove back door lock assembly.

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, check back door open/close, and lock/unlock operation. EMERGENCY LEVER

2.

EMERGENCY LEVER : Unlock procedures

UNLOCK PROCEDURES

NOTE:

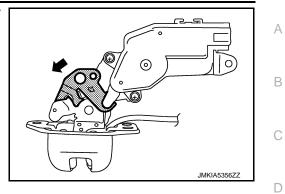
If back door lock cannot be unlocked due to a malfunction or battery discharge, follow the procedures to unlock back door.

Remove emergency lid. Refer to INT-36, "EMERGENCY LID : Removal and Installation". 1.

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

2. From inside the vehicle, rotate emergency lever toward lower direction and unlock.





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DLK-481

[TYPE 3]

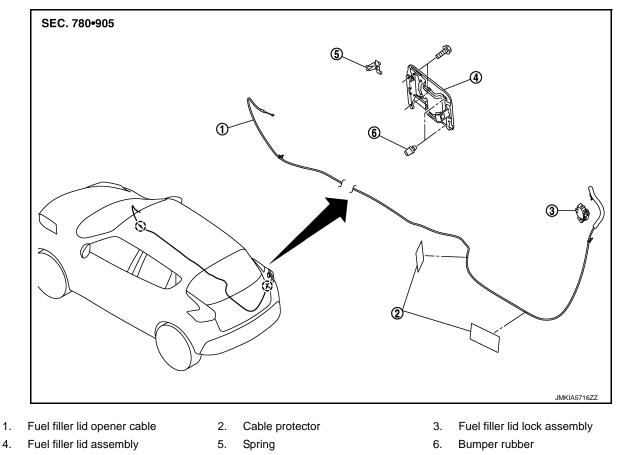
< REMOVAL AND INSTALLATION >

FUEL FILLER LID OPENER

Exploded View

INFOID:000000006600620

[TYPE 3]



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: Do not reuse

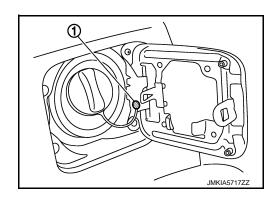
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000006600621

REMOVAL

- 1. Fully open fuel filler lid.
- Remove fuel mounting pin (1). 2.



Remove mounting screws, and then remove fuel filler lid. 3.

INSTALLATION

Note the following items, and install in the reverse order of removal.

DLK-482

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

CAUTION:

• After installation, check fuel filler lid assembly open/close, lock/unlock operation.

• After installation, apply the touch-up paint (the body color) onto the head of the mounting screws. NOTE:

- The following table shows the specifide values for checking nomal installation status.
- Fitting adjustment cannot be perfored.

Unit: mm	ı (in)
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INFOID:000000006600622

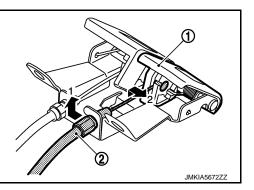
	Clearance	Evenness
Fuel filler lid – Body side outer	2.0 - 4.0 (0.079 - 0.157)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]

FUEL FILLER OPENER CABLE

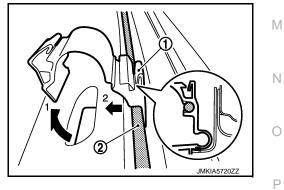
FUEL FILLER OPENER CABLE : Removal and Installation

REMOVAL

- 1. Remove hood lock control cable assembly from instrument lower panel (LH). Refer to <u>DLK-471, "HOOD</u> <u>LOCK CONTROL CABLE : Removal and Installation"</u>.
- 2. Remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).



- 3. Remove front kicking plate inner (RH) and rear kicking plate inner (RH). Refer to <u>INT-19, "KICKING</u> <u>PLATE INNER : Removal and Installation"</u>.
- 4. Remove dash side finisher (RH). Refer to INT-20, "DASH SIDE FINISHER : Removal and Installation".
- 5. Remove center pillar lower garnish (RH). Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH Removal and Installation"</u>.
- Remove luggage side lower finisher (RH). Refer to <u>INT-31, "LUGGAGE SIDE LOWER FINISHER:</u> <u>Removal and Installation"</u>.
- 7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to <u>DLK-484, "FUEL FILLER LID</u> <u>LOCK : Removal and Installation"</u>.
- 8. Disengage each harness protector (1), and then remove fuel filler lid opener cable (2).



9. Remove fuel filler lid opener cable fixing clips, and then remove fuel filler lid opener cable.

INSTALLATION

Note the following items, 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

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FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

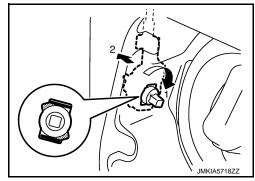
FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000006600623

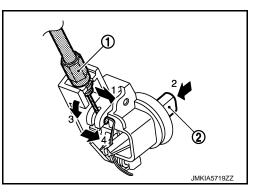
REMOVAL

- 1. Fully open fuel filler lid.
- 2. Remove luggage side lower finisher (RH). Refer to <u>INT-31, "LUGGAGE SIDE LOWER FINISHER :</u> <u>Removal and Installation"</u>.
- 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.



4. Disengage fuel filler lid opener cable (1). Remove fuel filler lid opener cable while pressing stopper pin (2).



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. [TYPE 3]

DOOR SWITCH

< REMOVAL AND INSTALLATION > DOOR SWITCH

Exploded View

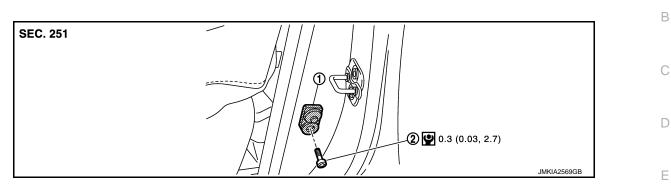
INFOID:000000006620631

INFOID:000000006620632

[TYPE 3]

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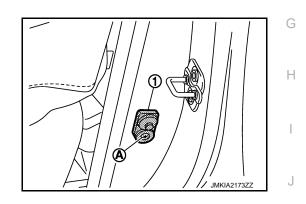
1. Door switch

2. TORX bolt

Removal and Installation

REMOVAL

Remove the TORX bolt (A), and then remove door switch (1).



INSTALLATION Install in the reverse order of removal.

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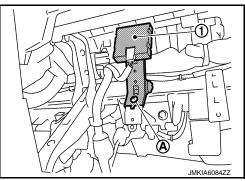
< REMOVAL AND INSTALLATION >

REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

REMOVAL

- 1. Remove the glove box assembly. Refer to IP-13. "Removal and Installation".
- 2. Remove the remote keyless entry receiver (1) mounting bolt (A), and then remove remote keyless entry receiver.



INSTALLATION Install in the reverse order of removal. INFOID:000000006620633

[TYPE 3]

KEYFOB BATTERY

< REMOVAL AND INSTALLATION >

KEYFOB BATTERY

Exploded View			A
SEC. 998		INFOID:00000006445312	D
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5		9	F
		JMKIA1442ZZ	
1. Upper case	2. Key	3. Switch cover	G
 Switch rubber plate 	 Board surface Lower case 	 Battery Screw 	Н
Removal and Installation		INFOID:00000006445313	
REMOVAL			I
1. Remove screw (9) on the rear of I		rapped with tape between upper case	
	eparate the lower case (8) from the		J
 Do not touch the circuit board The keyfob is water-resistant. 	d or battery terminal. . However, if it does get wet, imm	nediately wipe it dry.	DLK
[Circuit board assembly: Switch ru	assembly, remove circuit board ass ubber (4) + Board surface (5)]	embly from the upper case (1).	DLK
CAUTION: Do not touch the printed circuit			L
4. Remove the battery (6) from the l	ower case (8) and replace it.		
	in-type lithium battery 1620)		Μ
CAUTION: When replacing battery, keep of	dirt, grease, and other foreign r	naterials off the electrode contact	Ν
area. 5. After replacement, fit the lower ar	nd upper cases together, part (4), (7	7) and tighten with the screw.	
CAUTION:		perates normally using the keyfob.	0
Refer to <u>DLK-403, "Component</u> F			
INSTALLATION			Ρ

INSTALLATION

Install in the reverse order of removal.

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< HOW TO USE THIS MANUAL > HOW TO USE THIS MANUAL APPLICATION NOTICE

Information

INFOID:000000006445320

Check the vehicle type to use the service information in this section.

Service information	Destination
Туре 1	With Intelligent Key and super lock
Туре 2	With Intelligent Key, without super lock
Туре 3	Without Intelligent Key, with super lock
Туре 4	Without Intelligent Key and super lock

< PRECAUTION > PRECAUTION PRECAUTIONS

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

INFOID:00000006635674

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual. D

The vehicle may be equipped with a passenger air bag deactivation switch. Because no rear seat exists where a rear-facing child restraint can be placed, the switch is designed to turn off the passenger air bag so that a rear-facing child restraint can be used in the front passenger seat. The switch is located in the center of the instrument panel, near the ashtray. When the switch is turned to the ON position, the passenger air bag is enabled and could inflate for certain types of collision. When the switch is turned to the OFF position, the passenger air bag is disabled and will not inflate. A passenger air bag OFF indicator on the instrument panel lights up when the passenger air bag is switched OFF. The driver air bag always remains enabled and is not affected by the passenger air bag deactivation switch.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by vellow and/or orange harnesses or harness connectors.
- The vehicle may be equipped with a passenger air bag deactivation switch which can be operated by the customer. When the passenger air bag is switched OFF, the passenger air bag is disabled and will not inflate. When the passenger air bag is switched ON, the passenger air bag is enabled and could inflate for certain types of collision. After SRS maintenance or repair, make sure the passenger DLK air bag deactivation switch is in the same position (ON or OFF) as when the vehicle arrived for service.

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000006635675

NOTE:

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

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

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

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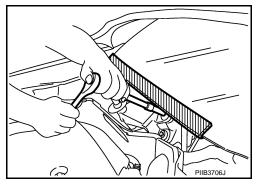
OPERATION PROCEDURE

- Connect both battery cables.
 NOTE: Supply power using jumper cables if battery is discharged.
- 2. Turn the ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

Precaution for Procedure without Cowl Top Cover

INFOID:000000006635676

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



Work

INFOID:000000006303132

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

PREPARATION

< PREPARATION > PREPARATION

PREPARATION

Commercial Service Tools

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INFOID:000000006303134

[TYPE 4]

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

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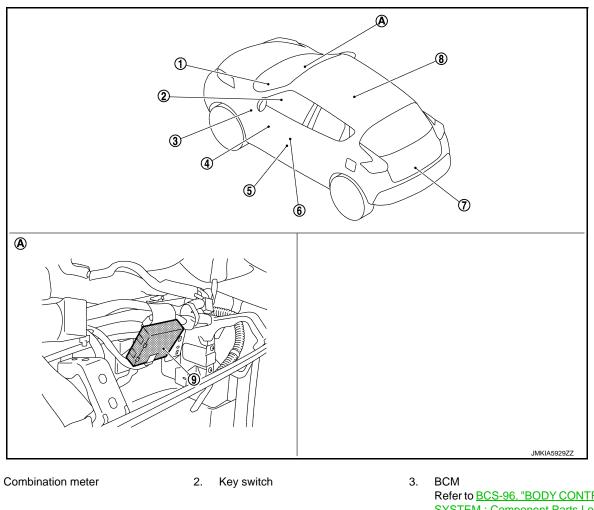
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< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION **COMPONENT PARTS**

Component Parts Location

INFOID:000000006528614



4. Power window main switch (door lock/unlock switch)

1.

- Back door lock assembly 7.
- Α. View with the glove box assembly removed

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Location"

- Refer to BCS-96, "BODY CONTROL SYSTEM : Component Parts Location"
- 6. Front door lock assembly (driver side)
- 9. Remote keyless entry receiver

Component Description

INFOID:000000006528615

Item	Function
Air bag diagnosis sensor unit	Transmits air bag signal to BCM.
Back door lock assembly	Opens the back door with the back door open signal from BCM.
BCM	Controls the door lock system.
Combination meter	Performs operation method guide and warning with buzzer.Transmits vehicle seep signal to CAN communication line.

Front door switch (driver side)

Air bag diagnosis sensor unit

Refer to SRC-7, "Component Parts

DLK-492

[TYPE 4]

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Item	Function
Door lock actuator	Inputs locks/unlocks signal from BCM and locks/unlocks each door.Integrated in each door lock assembly.
Door lock and unlock switch	Transmits door lock/unlock operation to BCM.
Door switch	Detects door open/close condition.
Keyfob	Transmits button operation to remote keyless entry receiver.
Key switch	Key switch detects that ignition key is inserted into the ignition key cylinder, and then transmits the signal to BCM.
Remote keyless entry receiver	Receives keyfob operation and transmits to BCM.

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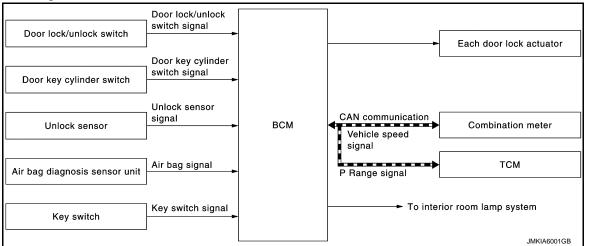
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< SYSTEM DESCRIPTION >

POWER DOOR LOCK SYSTEM

System Diagram



System Description

INFOID:000000006303144

DOOR LOCK FUNCTION

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

AIR BAG INTERLOCK UNLOCK FUNCTION

When ignition switch is ON and BCM receives air bag signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag signal to BCM.

OPERATION CONDITION

If all of the following conditions are satisfied, door lock and unlock operation is performed using the door lock/ unlock switch.

Door lock and unlock switch operation	Operation condition
LOCK	 Ignition Key is removed from ignition key cylinder and closed driver side door*1 Doors other than drivers door are closed*1 Door are not locked by keyfob*2 Door lock that is requested is not auto door lock*2
UNLOCK	Door are not locked by keyfob*2

*1: While door lock and unlock switch is pressed in the lock direction during this state, combination meter buzzer sounds and warns.

*2: When this item becomes OK according to keyfob ID verification, door lock/unlock operation is allowed.

KEY REMINDER FUNCTION

- When door lock and unlock switch and driver door lock knob are operated while key is inserted into key switch and driver side door is open, door locks once but immediately unlocks. This operation prevents keyfob from being left in the vehicle.
- While door lock and unlock switch is pressed in the lock direction, combination meter buzzer sounds and warns.

OVERRIDE FUNCTION

When inside handle of front door is operated while doors are in lock states, lock state of the applicable door lock becomes invalid and the door is open.

UNLOCK LINK FUNCTION

[TYPE 4]

INFOID:000000006303143

DLK-494

POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

When driver side door or passenger side door is opened, all doors are unlocked. Unlock function operates when driver door or passenger door is open while all of the following conditions are satisfied.

Operation condition	 Doors are locked by door lock/unlock switch Driver or passenger door switch is switched from OFF to ON Anti-hijack function is not activated Vehicle speed is 5 km/h (3 MPH) or less 	В
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NOTE:

When anti-hijack function is activated, only the applicable door is unlocked.

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

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

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 10 km/h (6MPH) or more. BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 10 km/h (6 MPH) or more.

P Range Interlock Door Lock*2

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

Setting change of Automatic Door Lock/Unlock Function

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

(B) With CONSULT-III

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

Without CONSULT- III

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

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

$OFF\toON$: 2 blinks
$ON\toOFF$: 1 blink

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

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

IGN OFF Interlock Door Unlock*1

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

P Range Interlock Door Unlock*2

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.

Key out Interlock Door Unlock

When ignition key is removed from ignition knob switch, all doors unlock.

When BCM detects that ignition key is removed from ignition knob switch, BCM transmits unlock signal to all door lock actuators.

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POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

Setting change of Automatic Door Lock/Unlock Function

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

With CONSULT- III

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

Without CONSULT- III

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

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

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

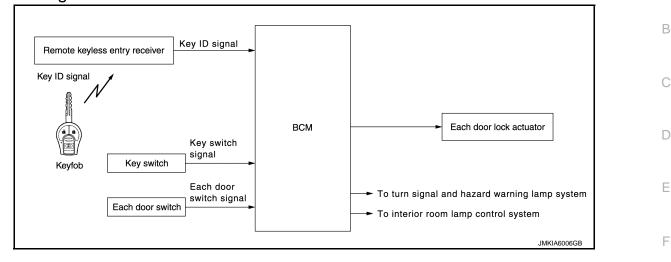
*2: This function does not operate on M/T models.

REMOTE KEYLESS ENTRY SYSTEM

< SYSTEM DESCRIPTION >

REMOTE KEYLESS ENTRY SYSTEM

System Diagram



System Description

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DOOR LOCK AND UNLOCK OPERATION

- When door lock and unlock button of keyfob is pressed, door lock and unlock signal transmits from keyfob to BCM via remote keyless entry receiver.
- When BCM receives the door lock and unlock signal, it operates door lock actuator, blinks the hazard lamp at the same time as a reminder.

OPERATION CONDITION

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

Remote controller operation	Operation condition	J
Lock	Key switch is offAll doors are closed	
Unlock	Key switch is off	DLK

OPERATION AREA

To ensure that the keyfob works effectively, use within 100 cm (3 ft) range of each door, however the operable range may differ according to surroundings.

ANTI-HIJACK FUNCTION

- When an LOCK signal is transmitted from keyfob, all doors are locked.
- When an UNLOCK signal is transmitted from keyfob once, driver side door is unlocked.
- Then, if an UNLOCK signal is transmitted from keyfob again, all other doors are unlocked.

How to change anti-hijack mode.

(P) With CONSULT-III

Anti-hijack mode can be set to ON or OFF using CONSULT-III.

Refer to DLK-501, "DOOR LOCK : CONSULT-III Function	(BCM - DOOR LOCK) (Without Super Lock)".

- ON/OFF can be switched when keyfob lock button and unlock button are pressed simultaneously for 5 seconds or more while steering lock is locked.
- When mode is switched, hazard warning lamp blinks.

 $OFF \rightarrow ON$: 1 blinks $ON \rightarrow OFF$: 3 blink

HAZARD REMINDER OPERATION

When door is locked or unlocked by keyfob, then BCM blinks hazard warning lamp as a reminder. NOTE:

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[TYPE 4]

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REMOTE KEYLESS ENTRY SYSTEM

< SYSTEM DESCRIPTION >

Hazard reminder mode can be changed with CONSULT-III. Refer to <u>DLK-502, "MULTI REMOTE ENT : CON-</u>SULT-III Function (BCM - MULTI REMOTE ENT) (Without Super Lock)".

Hazard reminder (With CONSUL		Door lock operation (with keyfob)	Hazard warning lamp blink
	MODE 1	—	—
		Lock	—
	MODE 2	Unlock	Twice
		Unlock (anti-hijack)	Twice (quick)
IAZARD LAMP SET	MODE 3	Lock	Once
		Unlock	—
		Lock	Once
	MODE 4	Unlock	Twice
		Unlock (anti-hijack)	Twice (quick)

AUTO DOOR LOCK FUNCTION

After door is unlocked by keyfob button operation and if 30 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 Key switch is ON
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Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-501, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)"</u>.

INTERIOR ROOM LAMP CONTROL FUNCTION

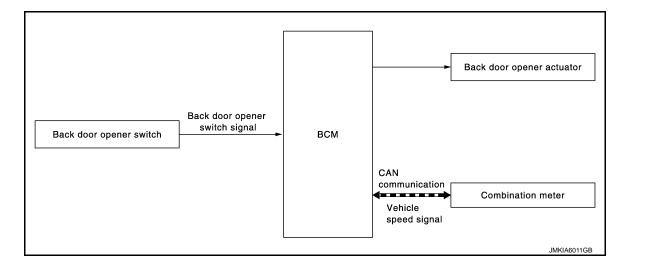
Interior room lamp is controlled according to door lock/unlock state, refer to <u>INL-6</u>, "INTERIOR ROOM LAMP <u>CONTROL SYSTEM : System Description</u>".

BACK DOOR OPENER SYSTEM

< SYSTEM DESCRIPTION >

BACK DOOR OPENER SYSTEM

System Diagram



System Description

INFOID:00000006554282

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM operates back door opener actuator. **NOTE:**

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

OPERATION CONDITION

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

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

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.

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[TYPE 4]

INFOID:00000006554281

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DIAGNOSIS SYSTEM (BCM) COMMON ITEM

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

INFOID:000000006748149

APPLICATION ITEM

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

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

Questant		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	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Automatic A/CManual A/CManual heater	AIR CONDITONER		×	×* ²
Combination switch	COMB SW		×	
Body control system	BCM	×		
NATS	IMMU	×		×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
_	RETAINED PWR*1		×	×
Signal buffer system	SIGNAL BUFFER		×	×
	PANIC ALARM* ¹			×

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

• *2: For models with automatic A/C, this mode is not used.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 4]

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)

. INFOID:000000006303148 А

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WORK SUPPORT

Monitor item	Description	
DOOR LOCK-UNLOCK SET	Anti-hijack function can be changed to operate with this modeOn: OperateOff: Non-operation	
AUTOMATIC DOOR LOCK SE- LECT	 Automatic door lock function can be selected from the following in this mode VH SPD: All doors are locked when vehicle speed more than 10 km/h (6 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 can be selected from the following in the mode MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2*: All doors are unlocked when shifting the selector lever from any position other than the P to P position MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 4*: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position MODE 4*: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position MODE 5: Driver side door is unlocked when key out of key switch MODE 6: All doors are unlocked when key out of key switch 	
AUTOMATIC LOCK/UNLOCK SET	 Automatic door lock/unlock function 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: Door lock and unlock operation 	

*: P range interlock door lock/unlock can be selected for M/T models, but automatic door lock/unlock function does not operate.

DATA MONITOR

Monitor Item	Contents	
IGN ON SW	Indicated [On/Off] condition of ignition switch in ON position	
KEY ON SW	Indicated [On/Off] condition of key 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	
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)	
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)	
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH	
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH	
BACK DOOR SW	Indicated [On/Off] condition of back door switch	
LOCK STATUS	Indicated [On/Off] condition of front door driver side	
ACC ON SW	Indicated [On/Off] condition of ignition switch in ACC position	
KEYLESS LOCK	Indicated [On/Off] condition of lock signal from key fob	
KEYLESS UNLOCK	Indicated [On/Off] condition of unlock signal from key fob	
SHOCK SENSOR	 Indicates [NOMAL/ON/OFF] condition of circuit between BCM and air bag diagnosis sensor unit NORMAL: Ignition switch ON (BCM is receiving normal condition signal from air bag diagnosis sensor unit) ON: During the receiving of air bag signal from air bag diagnosis sensor unit OFF: After the receiving of air bag signal from air bag diagnosis sensor unit 	
KEY CYL LK-SW	NOTE: This item is displayed, but cannot be monitored	

DLK-501

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item	Contents
KEY CYL UN-SW	NOTE: This item is displayed, but cannot be monitored
VEHICLE SPEED	Display the vehicle speed signal received from combination meter by numer- ical value [Km/h]

ACTIVE TEST

Test item	Description	
DOOR LOCK	 This test is able to check door lock/unlock operation The all door lock actuators are locked when "ALL LCK" on CONSULT-III screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched The back door lock actuator is unlocked when "BD ULK" on CONSULT-III screen is touched The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT-III screen is touched 	
DOOR LOCK IND	NOTE: This item is displayed, but cannot be monitored	
SUPER LOCK	NOTE: This item is displayed, but cannot be monitored	

MULTI REMOTE ENT

MULTI REMOTE ENT : CONSULT-III Function (BCM - MULTI REMOTE ENT) (Without Super Lock)

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [On/Off] condition of ignition switch in ON position
KEY ON SW	Indicates [On/Off] condition of key switch
ACC ON SW	Indicates [On/Off] condition of ignition switch in ACC position
KEYLESS LOCK	Indicates [On/Off] condition of lock signal from keyfob
KEYLESS UNLOCK	Indicates [On/Off] condition of unlock signal from keyfob
KYLS TRNK/HAT	NOTE: This item is displayed, but cannot be tested
DOOR SW-DR	Indicates [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicates [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicates [On/Off] condition of rear door switch RH
DOOR SW-RL	Indicates [On/Off] condition of rear door switch LH
BACK DOOR SW	Indicates [On/Off] condition of back door switch
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be tested
CDL LOCK SW	Indicates [On/Off] condition of door lock and unlock switch
CDL UNLOCK SW	Indicates [On/Off] condition of door lock and unlock switch
KEYLESS PANIC	NOTE: This item is displayed, but cannot be tested

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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INFOID:000000006303150

Test item	Description
INT LAMP	This test is able to check interior room lamp operation On: Operate Off: Non-operation
FLASHER	This test is able to check flasher operation [LH/RH/Off]
DOOR LOCK	 This test is able to check door lock/unlock operation The all door lock actuators are locked when "ALL LCK" on CONSULT-III screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen
	 is touched The back door lock actuator is unlocked when "BD ULK" on CONSULT- III screen is touched The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT-III screen is touched

WORK SUPPORT

Test item	Description	
REMO CONT IN REGIST	Keyfob ID code can be registered	
REMO CONT IN ERASUR	Keyfob ID code can be erased	
REMO CONT IN CONFIR	It can be checked whether Keyfob ID code is registered or not in this mode	
HAZARD LAMP SET	 Hazard and horn reminder function (hazard operation) mode can be changed in this mode MODE1: Non-operation MODE2: Unlock operation only MODE3: Lock operation only MODE4: Lock and unlock operation 	
AUTO LOCK SET	Auto door lock time can be changed in this mode MODE 1: Non-operation MODE 2: 30 sec MODE 3: 1 minute MODE 4: 2 minute MODE 5: 3 minute MODE 6: 4 minute MODE 7: 5 minute 	
PANIC ALARM SET	NOTE: This item is displayed, but cannot be tested	
TRUNK OPEN SET	NOTE: This item is displayed, but cannot be tested	

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK) (Without Super Lock)

DATA MONITOR

Monitor Item	Contents	
KEY ON SW	Indicates [On/Off] condition of key switch.	0
LOCK STATUS	Indicates [On/Off] condition of front door driver side.	0
VEHICLE SPEED	Indicates [Km/h] condition of vehicle speed signal from combination meter.	
IGN ON SW	Indicates [On/Off] condition of ignition switch.	Ρ
TRNK OPNR SW	NOTE: This item is displayed, but cannot be monitored.	
KYLS TRNK/HAT	NOTE: This item is displayed, but cannot be monitored.	

DLK-503

ECU DIAGNOSIS INFORMATION BCM

List of ECU Reference

INFOID:000000006303151

ECU	Reference
	BCS-125, "Reference Value"
всм	BCS-140, "Fail-safe"
BCWI	BCS-140, "DTC Inspection Priority Chart"
	BCS-141, "DTC Index"

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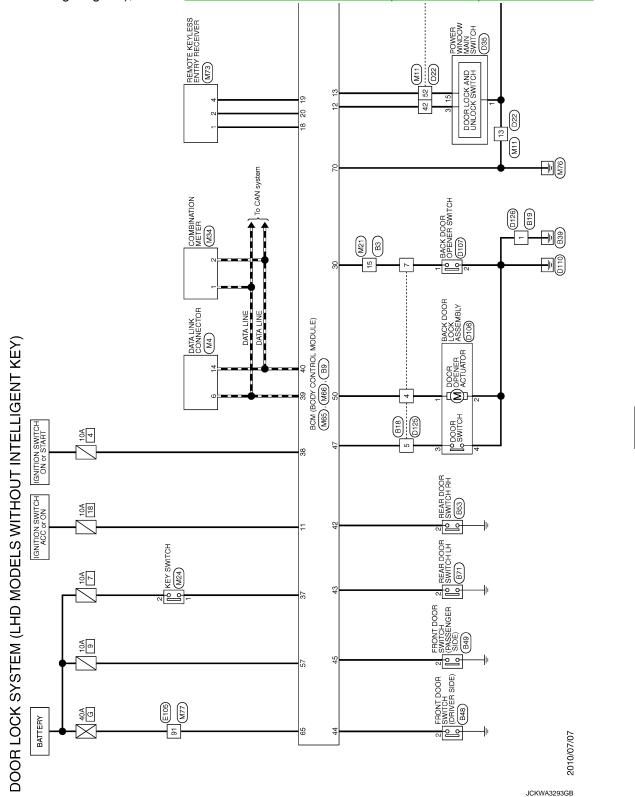
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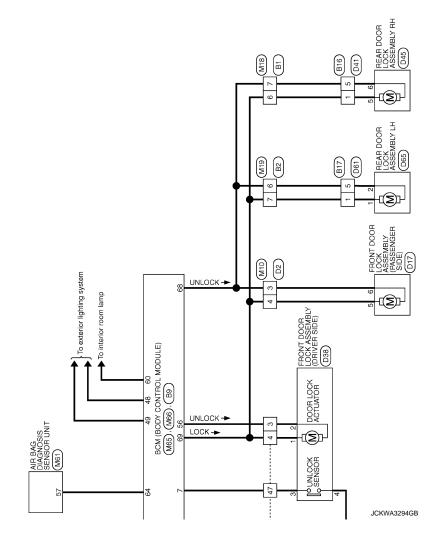
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WIRING DIAGRAM DOOR & LOCK SYSTEM

Wiring Diagram

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to <u>GI-12</u>, "<u>Connector Information/Explanation of Option Abbreviation</u>".



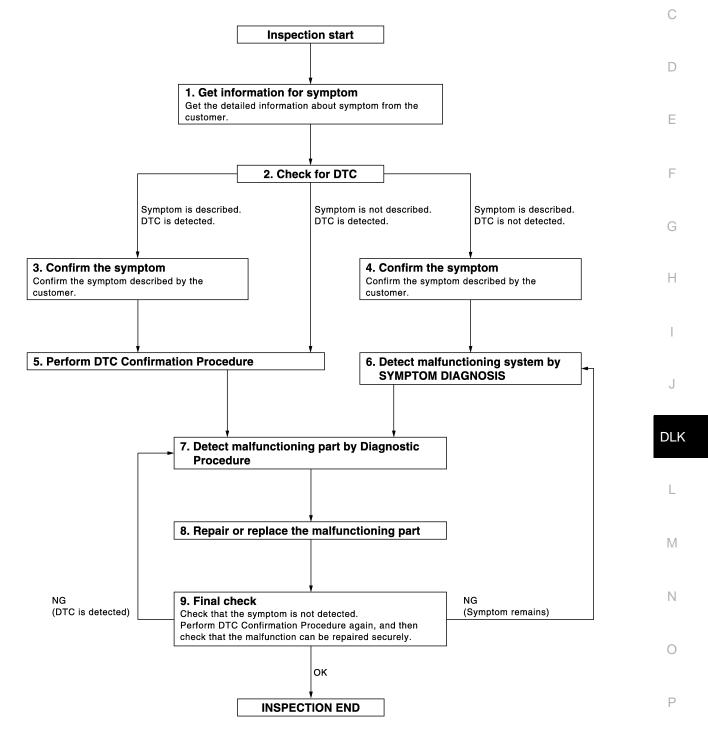


< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK FOR DTC

- 1. Check DTC for BCM.
- 2. Perform the following procedure if DTC is displayed.
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR " mode and check real-time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. If two or more DTCs are detected, refer to <u>BCS-140, "DTC Inspection Priority Chart"</u> (BCM) and determine trouble diagnosis order.

Is DTC detected?

YES >> GO TO 7.

NO >> Refer 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.

>> GO TO 7.

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

>> GO TO 8.

 $\mathbf{8}$. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.

2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.

DLK-508

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

3. Check DTC. If DTC is displayed, erase it.

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>> GO TO 9.	A
9.FINAL CHECK	В
When DTC was detected in step 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.	
When symptom was described by the customer, refer to the confirmed symptom in step 3 or 4, and check that the symptom is not detected.	С
Are all malfunctions corrected?	
NO (DTC is detected)>>GO TO 7. NO (Symptom remains)>>GO TO 6. YES >> INSPECTION END	D
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KEYFOB ID REGISTRATION

< BASIC INSPECTION >

KEYFOB ID REGISTRATION

Description

Perform the following procedure after BCM is replaced or when new keyfob ID is registered **NOTE:**

When registering the keyfob ID, perform only one procedure to simultaneously register both ID (IMMOBI-LIZER ID and keyfob ID).

Work Procedure

INFOID:000000006303156

INFOID:00000006303155

1.STEP 1

Close all doors.

>> GO TO 2.

2.STEP 2

Operate lock using the driver side door lock and unlock switch.

>> GO TO 3.

3.STEP 3

- 1. Remove and insert the key into the ignition key 6 times within 10seconds (turning the key switch from OFF to ON counts as 1 time).
- 2. Hazard warning lamp blinks(2 times).

NOTE:

On the sixth key insertion, keep the key in the cylinder with the key switch ON.

Does the hazard lamp blink?

YES >> GO TO 4. NO >> GO TO 1.

4.STEP 4

Within 3 seconds after the hazard lamp blinks, turn ignition switch to the ACC position and operate lock using the driver side door lock and unlock switch.

>> GO TO 5.

5.STEP 5

- 1. Press the lock or unlock button of the keyfob to be added.
- 2. All doors unlock simultaneously.
- 3. Hazard warning lamp blinks(2 times).
- 4. Key ID is registered.

Is key ID registered?

YES-1 >> When adding a keyfob: GO TO 6.

YES-2 >> When ending registration: GO TO 8.

```
NO >> GO TO 1.
```

6.STEP 6

Operate lock using the driver side door lock and unlock switch.

>> GO TO 7.

7.STEP 7

- 1. Press the lock or unlock button of the keyfob to be added.
- 2. All doors unlock simultaneously.
- 3. Hazard warning lamp blinks(2 times).
- 4. Key ID is registered.

DLK-510

KEYFOB ID REGISTRATION

< BASIC INSPECTION >	[TYPE 4]
Is key ID registered?	
YES-1 >> When adding a keyfob: GO TO 6. YES-2 >> When ending registration: GO TO 8. NO >> GO TO 6.	A
8.STEP 8	В
Open the front door driver side.	
>> REGISTRATION END	C
	D

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DTC/CIRCUIT DIAGNOSIS BACK DOOR OPENER ACTUATOR

Diagnosis Procedure

INFOID:000000006616455

1.CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect back door opener assembly connector.

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

((+) Back door opener assembly				
Back door op			(–) Condition		Voltage (Approx.)
Connector	Terminal				
D106	1	Ground	Back opener switch	ON	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK BACK DOOR OPENER ACTUATOR CIRCUIT

1. Disconnect BCM connector.

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

BCM		Back door op	ener assembly	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	50	D106	1	Existed

3. Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Terminal	Ground	Continuity
M65	50		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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

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

Back door op	ener assembly		Continuity	
Connector	Terminal	Ground	Continuity	
D106	2		Existed	

Is the inspection normal?

YES >> Replace back door opener assembly.

NO >> Repair or replace harness.

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INFOID:000000006616457

Diagnosis Procedure

1.

2.

3.

1. CHECK BACK DOOR OPEN INPUT SIGNAL

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

(+)			- · ·	
Back door opener switch		(-)	Signal (Reference value)	
Connector	Terminal			
D107	1	Ground	(V) 15 10 5 0 10 ms JPMIA0012GB	D

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check back door opener switch circuit

Disconnect BCM connector. 1.

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

					- N
BC	CM	Back door o	ppener switch	Continuity	
 Connector	Terminal	Connector	Terminal	Continuity	
 M65	30	D107	1	Existed	0

Check continuity between BCM harness connector and ground. 3.

	B	CM		Continuity	Ρ
(Connector Terminal		Ground	Continuity	
	M65	30		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-161, "Removal and Installation".

NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door o	ppener switch		Continuity	
Connector	Terminal Ground		Continuity	
D107	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-514, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch.

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 connector.
- 3. Check continuity between back door opener switch terminals.

Back door o	Back door opener switch Terminal		Condition	
Terr				
1	2	Back door opener	Pressed	Existed
Ι	2	switch	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch.

< DTC/CIRCUIT [DIAGNOSI		R LOCK		OR	[TYPE 4]
DOOR LOCK DRIVER SIDE		ATOR				
DRIVER SIDE	: Compo	onent Fund	tion Che	eck		INFOID:00000006616462
1.CHECK FUNCT	ΓΙΟΝ					
 Select "DOOR Select "DOOR Select "DOOR Check that the 	LOCK" in '	ACTIVE TES	T" mode.		wing condition	S.
	Monitor	item			Stat	US
		ALL LO	CK			LOCK
DOOR LOCK		ALL UN	ILK	Door lock actu	lators	UNLOCK
NO >> Refer t	ock actuato to <u>DLK-515</u>	r is OK. , "DRIVER SI	-	osis Procedu	<u>re"</u> .	
DRIVER SIDE	: Diagno	sis Proced	ure			INFOID:00000006616463
1.CHECK DOOR	LOCK ACT		JT SIGNAL			
 Turn ignition so Disconnect fro Check voltage 	nt door locl				arness connec	ctor and ground.
(+)						
Front door lock (driver si		()	(–) Condition	Voltage (Approx.)		
Connector	Terminal				1	
D38 —	2	Ground	Door lock ar	nd unlock switch	Unlock Lock	— 12 V
s the inspection re	sult norma	?				
YES >> Replace NO >> GO TO		or lock assemb	oly (driver s	ide).		
2.CHECK DOOR	LOCK ACT	UATOR CIRC	UIT			
 Disconnect BC Check continu connector. 						embly (driver side) harness
	BCM		Front	door lock asser	mbly (driver side)	
Connector		Terminal	Coni	nector	Terminal	Continuity
M66		56		38	2	Existed
	ity botwoor	69			1	
 Check continu 	-			anu ground.		
	BCI					Continuity
Connecto	or	Termir 56	nal	Gro	ound	
M66	-	56 69				Not existed
ls the inspection re						

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

	+) CM	()	Condition	Condition	
Connector	Terminal				(Approx.)
M66	56	Ground	Door lock and unlock switch	Unlock	12 V
WIOO	69	Ground	Door lock and unlock switch	Lock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-161</u>, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monite	or item	Sta	tus
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
DOOR LOOK	ALL UNLK		UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-515</u>, "DRIVER 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 (Approx.)
Connector	Terminal			
D17	6	Ground	Door lock and unlock switch	12 V
D17	3	Ground	Lock	12 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 connector and all door lock assembly connector.

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

INFOID:000000006616465

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

	BCM		Front do	oor lock assembly	(passenger sid	le)	ntinuity		
Connector		Terminal	Con	nector	Terminal				
		68)17	6	F	xisted		
		69		5			LOCK UNLOCK		
Connector Terminal Connector Terminal Continuity M66 68 017 6 Existed Check continuity between BCM harness connector and ground. BCM Continuity Continuity M66 68 Ground Continuity Continuity M66 68 Ground Continuity M66 68 Ground Not existed the inspection result normal? FES So GO TO 3. Connector Continuity Connector replace harness. Condition Contract Not existed Connect BCM connector. Check Notage between BCM harness connector and ground. Condition Voitage (Approx.) Connector Terminal (-) Condition Voitage (Approx.) Connector Terminal (-) Condition Voitage (Approx.) Connector internal short of each door lock and unlock switch Look 12 V the inspection result normal? ES > Check for internal short of each door lock actuator. Voitage (Approx.) O >> Replace BCM. Refer to BCS-161, "R									
	BC	CM							
Connect	or	Termin	nal		I	Contin	uity		
		68		Grou	na	Nat	interd		
MQQ	-	69				NOT EXI	sieu		
the inspection re	esult norma	al?		·					
	•								
			onnostor o	and around					
Check voltage	Dermeen		onnector a	na grouna.					
(-	+)								
BC	CM	(-)		Condition	I		0		
Connector	Termina	al				(* *P			
M66	68	Ground	Doorloc	k and unlock switch	Inlock switch 12 V				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $									
O >> Repla EAR LH EAR LH : Co	ce BCM. R mponen	efer to <u>BCS-16</u>	<u>81, "Remov</u>		ion".		INFOID:00000006		
Select "DOOR	LOCK" in	"ACTIVE TES	T" mode.		ing conditior	ns.			
	Monito				Sta				
DOOR LOCK	ŀ			Door lock actuat	ors				
			ILK			UNLC	CK		
ES >> Door I O >> Refer	ock actuat to <u>DLK-51</u>	or is OK. <u>5, "DRIVER SII</u>	DE : Diagno	osis Procedure	<u>"</u> .		INF01D:000000006		
.CHECK DOOR	LOCK AC	TUATOR INPU	IT SIGNAL						
		k assembly LH	connector.		 				

Check voltage between rear door lock assembly LH harness connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

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(·	+)		(-) Condition Voltage (Approx.)			
Rear door loc	k assembly LH	(—)			Voltage (Approx.)	
Connector	Terminal					
D65	2	Ground	Ind Door lock and unlock switch			12 V
005	1	DOUT TOOK ATTO UTITOOK SWITCH	Lock	12 V		

Is the inspection result normal?

YES >> Replace rear door lock assembly LH.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock assembly connector.

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

В	СМ	Rear door loc	k assembly LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	68	D65	2	Existed
Wide	69	000	1	LAISted

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M66	68	Ground	Not existed
Мбб	69		NOT EXISTEN

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.

	+) CM	()	Condition		Voltage (Approx.)
Connector	Terminal				()
M66	68	Ground	Door lock and unlock switch	Unlock	12 V
WOO	69	Ground	Door lock and unlock Switch	Lock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>. REAR RH

REAR RH : Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monite	or item	Sta	atus
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
DOOR LOOK	ALL UNLK		UNLOCK

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Door lock actuator is OK.
- NO >> Refer to <u>DLK-515</u>, "DRIVER SIDE : Diagnosis Procedure".

REAR RH : Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect rear door lock assembly RH connector.

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

_	(-	+)					D
	Rear door lock assembly RH		(—)	Condition		Voltage (Approx.)	
	Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	E
	D45	6	Ground	Door lock and unlock switch	Unlock	12 V	
	D45	5	Lock		12 V		
e th	a inspection	result norma	12				F

Is the inspection result normal?

YES >> Replace rear door lock assembly RH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock assembly connector.

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

BCM		Rear door locl	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
M66	68	D45	6	Existed	
IVIOO	69		5	LAISteu	

3. Check continuity between BCM harness connector and ground.

-	B	CM		Continuity	
-	Connector	Terminal	Ground	Continuity	DLK
-	M66	68	Ground	Not existed	-
	MOO	69		NOI EXISIEU	L

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.

_		+) CM	()	Condition		Voltage (Approx.)	0
_	Connector	Terminal				(//pp/0/.)	
_	M66	68	Ground	Door lock and unlock switch	Unlock	12 V	Р
	IVIOO	69	Ground	DODITION AND UNIOCK SWITCH	Lock	IZ V	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

[TYPE 4]

INFOID:00000006616469

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK AND UNLOCK SWITCH

Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 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	Condition		Status
CDL LOCK SW		Lock	ON
CDL LOCK SW	Door lock and unlock switch	Unlock	OFF
CDL UNLOCK SW	Door lock and unlock switch	Lock	OFF
		Unlock	ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-520, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000006616471

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

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

(+) Power window		()	Signal (Reference value)	
Connector Terminal				
	3			
D35	15	Ground	(V) 10 0 10 ms JPMIA0012GB 1.0 - 1.5 V	

Is the inspection result normal?

YES >> GO TO 3.

2. Check door lock and unlock switch circuit

1. Disconnect BCM connector and front power window switch (passenger side) connector.

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

E	BCM		Power window main switch		
Connector	Terminal	Connector	Terminal	Continuity	
M65	12	D35	3	Existed	
IVIO5	13	035	15	Existed	

3. Check continuity between BCM harness connector and ground.

DLK-520

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

	BCM			Continuity
Connector	Termi	inal	Crowned	Continuity
M65	12	2	Ground	Not existed
MOS	13	3		NUL EXISIEU
the inspection result r				
		3. "Removal and Insta	allation".	
NO >> Repair or re	•			
CHECK DOOR LOC				
heck continuity betwee	n power window m	nain switch harness co	onnector and gro	ound.
Power	window main switch			
Connector	Termi	inal	Ground	Continuity
D35	1			Existed
the inspection result r	ormal?			1
YES >> GO TO 4.				
NO >> Repair or re	•			
CHECK DOOR LOC	K AND UNLOCK S	WITCH		
efer to <u>DLK-521, "Con</u>	ponent Inspection	-		
the inspection result r	ormal?			
YES >> GO TO 5. NO >> Replace po		witch Defer to DWC		d Installation"
		witch. Refer to <u>PWC-</u>	44, Removal an	
.CHECK INTERMITT				
efer to <u>GI-42, "Intermit</u>	tent Incident".			
>> INSPECTIO				
>> INSPECTIC omponent Inspec				INFOID:000000066
omponent Inspec	tion	WITCH		INF01D:0000000066
omponent Inspec	tion K AND UNLOCK S	WITCH		INFOID:000000066
omponent Inspec	tion K AND UNLOCK S OFF.			INFOID:000000066
OMPONENT INSPEC	tion K AND UNLOCK S OFF. vindow main switch	connector.	als.	INFOID:000000066
OMPONENT INSPEC .CHECK DOOR LOC Turn ignition switch Disconnect power v Check continuity be	tion K AND UNLOCK S OFF. vindow main switch tween power windo	connector.	als.	INFOID:000000066
OMPONENT INSPECT CHECK DOOR LOC Turn ignition switch Disconnect power v Check continuity be Power window	ction K AND UNLOCK S OFF. vindow main switch tween power windo	i connector. ow main switch termin	als.	INFOID:000000006
OMPONENT INSPEC .CHECK DOOR LOC Turn ignition switch Disconnect power v Check continuity be	ction K AND UNLOCK S OFF. vindow main switch tween power windo	i connector. ow main switch termin	ndition	Continuity
OMPONENT INSPECT CHECK DOOR LOC Turn ignition switch Disconnect power v Check continuity be Power window	tion K AND UNLOCK S OFF. vindow main switch tween power windo v main switch ninal	o connector. bw main switch termin		
OMPONENT INSPEC	ction K AND UNLOCK S OFF. vindow main switch tween power windo	i connector. ow main switch termin	ndition LOCK	Continuity Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch.

UNLOCK

Existed

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< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Component Function Check

INFOID:000000006616459

[TYPE 4]

1. CHECK FUNCTION

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

Monitor item		Condition	Status
DOOR SW-DR Driver side door	Driver eide deer	Open	On
	Driver side door	Closed	Off
	DOOR SW-AS Passenger side door	Open	On
DOOR SW-AS		Closed	Off
DOOR SW-RL		Open	On
DOOR SW-RL	Rear door LH	Closed	Off
	Boor door PH	Open	On
DOOR SW-RR Rear door RH	Closed	Off	
DOOR SW-BK Back door	Paals door	Open	On
		Closed	Off

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Refer to <u>DLK-522</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006616460

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 Connector Terminal				
		()	Signal (Reference value)	
B48				
B49	2		(V) 15	
B71				
B53		Ground		
D106	3		++10ms PKIB4960J 7.0 - 8.0 V	
	Door switch or B48 B49 B71 B53	Door switch or Terminal B48 B49 B71 B53	Door switch(-)orTerminalB482B492B71B53Ground	

Is the inspection result normal?

YES-1 >> Back door: GO TO 3. YES-2 >> other door: GO TO 4.

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.

DLK-522

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Door switch				B	СМ	Continuitu
Con	nector	Ţ	erminal	Conne	ctor	Terminal	Continuity
Driver side	B48					44	
Passenger side	B49		2		45		
Rear LH	B71		2	B10)	43	Existed
Rear RH	B53				42		
Back door	D106		3	-		47	
3. Check continui	ty between doo	or switch h	arness cor	nnector and	d groun	d.	
	Door	switch					Continuity
	Connector		Teri	minal			Continuity
Driver side	В	48					
Passenger side	В	49	1	2		Ground	
Rear LH	В	71		2			Not existed
Rear RH	В	53					
Back door	Dí	106		3			
	Back door lock ass	-	.1	-	0		Continuity
Connecto	r	Termin	al	-	Ground		-
D106		4					Existed
Is the inspection re YES >> GO TC NO >> Repair 4.CHECK DOOR Refer to <u>DLK-523</u> ,	94. or replace har SWITCH						
ls the inspection re YES >> GO TC NO >> Replac	sult normal? 5. e malfunctionii	ng door sw	vitch.				
5.CHECK INTERN		DENT					
Refer to <u>GI-42, "Int</u>	ermittent Incide	ent".					
>> INSPE	CTION END						
Component Ins	pection						INFOID:00000006616461
1. CHECK DOOR	SWITCH						
 Turn ignition sv Disconnect matrix 		or switch	connector.				

Disconnect malfunctioning door switch connector.
 Check continuity between door switch terminals.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Door switch		Cons	Continuity		
	Terminal			- Condition		
Driver side				Pressed	Existed	
Driver side			-	Released	Not existed	
December eide	2	Ground part of door switch	-	Pressed	Existed	
Passenger side			Door switch	Released	Not existed	
Rear LH				Pressed	Existed	
				Released	Not existed	
Rear RH				Pressed	Existed	
Rear RH			-	Released	Not existed	
Back door 3 4 Back door lock as- sembly	2	4	Back door lock as-	Lock	Existed	
	Unlock	Not existed				

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

HAZARD FUN	CTION			
Component Fun	ction Check		INFOID:00000006616478	3
1.CHECK FUNCTIO	N			I
2. Select "FLASHE	EMOTE ENT" of "BCM" R" in "ACTIVE TEST" mo Inction operates normall			(
	Monitor item	Status	6	
	LH	Front turn signal lamp LH	Turns ON	[
FLASHER	RH	Front turn signal lamp RH	Turns ON	
	OFF	Front turn signal lamp	Turns OFF	
Diagnosis Proce 1.CHECK HAZARD	SWITCH CIRCUIT		INFOID:000000006616475	9
Is the inspection resu YES >> GO TO 2				
2. CHECK INTERMI	•			_
Refer to <u>GI-42, "Inter</u>				
>> INSPEC	TION END			
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DLK-525

< DTC/CIRCUIT DIAGNOSIS >

KEY SWITCH

Component Function Check

1.CHECK FUNCTION

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

Monitor item	Condition		Status
KEY ON SW K	Kevfob	Inserted in key cylinder	ON
	Reylob	Removed from key cylinder	OFF

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Refer to <u>DLK-526</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006616481

1.CHECK FUSE

1. Turn ignition switch OFF.

2. Check 10 A fuse, [No.7, located in fuse block (J/B)].

Is fuse fusing?

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

NO >> GO TO 2.

2.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

- 1. Disconnect key switch connector.
- 2. Check voltage between key switch harness connector and ground.

Key switch			Voltage
Connector	Terminal	Ground	(Approx.)
M24	2		Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK KEY SWITCH CIRCUIT

1. Disconnect BCM connector.

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

Key switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M24	1	M65	37	Existed

3. Check continuity between key switch connector and ground.

Keys	switch		Continuity
Connector	Terminal	Ground	Continuity
M24	1		Not existed

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

KEY SWITCH

KET SWITCH	
< DTC/CIRCUIT DIAGNOSIS > [TYPE 4]	
4.CHECK KEY SWITCH	Δ
Refer to DLK-527. "Component Inspection".	A
Is the inspection result normal?	
YES >> GO TO 5.	В
NO >> Replace key switch.	
5. CHECK INTERMITTENT INCIDENT	C
Refer to <u>GI-42, "Intermittent Incident"</u> .	C
>> INSPECTION END	D
Component Inspection	
COMPONENT INSPECTION	Е
1.CHECK KEY SWITCH	
1. Turn ignition switch OFF.	F

Disconnect key switch connector.
 Check continuity between key switch terminals.

Key switch		Condition		Continuity	G
Tern	ninal			Continuity	
1	2	Keyfob	Inserted in key cylinder	Existed	Н
	2	Reylob	Removed from key cylinder	Not existed	-

Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace key switch.

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< DTC/CIRCUIT DIAGNOSIS >

KEYFOB BATTERY

Component Function Check

1.CHECK FUNCTION

Check door lock and unlock operation with keyfob button.

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Refer to <u>DLK-528</u>, "Diagnosis Procedure".

Diagnosis Procedure

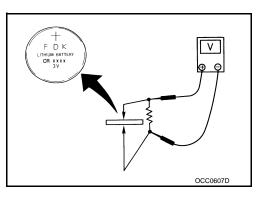
1.CHECK KEYFOB BATTERY

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

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

- YES >> Replace keyfob.
- NO >> Replace keyfob battery. Refer to <u>DLK-603, "Removal</u> and Installation".



INFOID:000000006616483

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

1.CHECK FUNCTION

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

Monitor item	Condition		Status	
KEYLESS LOCK		LOCK	On	D
KETLESS LUCK	Kayfah huttan	UNLOCK	Off	
KEYLESS UNLOCK	Keyfob button	LOCK	Off	F
		UNLOCK	On	

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

>> Refer to DLK-529, "Diagnosis Procedure". NO

Diagnosis Procedure

1.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect BCM connector and remote keyless entry receiver connector. 2.
- Check continuity between BCM harness connector and remote keyless entry receiver harness connector. 3.

B	BCM Remote		Remote keyless entry receiver	
Connector	Terminal	Connector	Terminal	Continuity
M65	18	M73	1	Existed

4 Check continuity between BCM harness connector and ground.

BCM			Continuity	DLk
Connector	Terminal	Ground	Continuity	DLF
M65	18		Not existed	_

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

1. Reconnect BCM connector.

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

	(+)			
Remot	e keyless entry receiver	()	Voltage (Approx.)	\cap
Connector	Terminal			0
M73	4	Ground	5 V	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

1. **Disconnect BCM connector**

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

DLK-529

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

B	BCM		Remote keyless entry receiver	
Connector	Terminal	Connector	Terminal	Continuity
M65	19	M73	4	Existed

3. Check continuity between BCM harness connector and ground.

_	BC	CM		Continuity	
_	Connector Terminal		Ground	Continuity	
_	M65	19		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

NO >> Repair or replace harness.

4.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

1. Reconnect remote keyless entry receiver connector.

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

Remote keyles	+) s entry receiver	()	Condition	Signal (Reference value)
Connector	Terminal			(V) 15 10
М73	2	Ground	Waiting	500 ms JMKIA3838GB
			Press the Intelligent Key lock or unlock button	(V) 15 10 5 0 1 ms JMKIA3841GB

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace remote keyless entry receiver.

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

1. Disconnect BCM connector and remote keyless entry receiver connector.

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

В	СМ	Remote keyles	s entry receiver	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	20	M73	2	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M65	20		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

DLK-530

REMOTE KEYLESS ENTRY RECEIVER [TYPE 4] < DTC/CIRCUIT DIAGNOSIS > >> Repair or replace harness. NO А В С D Е F G Н J DLK L

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< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Component Function Check

1.CHECK FUNCTION

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

Monitor item	Cor	ndition	Status
LOCK STATUS	Driver side door	Lock	OFF
LOOK STATUS	Driver side door	Unlock	ON

Is the inspection result normal?

- YES >> Unlock sensor is OK.
- NO >> Refer to <u>DLK-532</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000006616496

1.CHECK BCM OUTPUT SIGNAL

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

(+ Front door lock ass Connector	•	(-)	Signal (Reference value)
D13	3	Ground	(V) 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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.

B	BCM Front door lock assembly (driver side)		Front door lock assembly (driver side)	
Connector	Terminal	Connector	Terminal	Continuity
M65	7	D13	3	Existed

3. Check continuity between BCM harness connector and ground.

BC	CM		Continuity
Connector	Terminal	Ground	Continuity
M65	7		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.

UNLOCK SENSOR

	UNLOOK		
< DTC/CIRCUIT DIAGNOSIS	>		[TYPE 4]
NO >> Repair or replace h	arness.		
3.CHECK UNLOCK SENSOR	GROUND CIRCUIT		
Check continuity between front	door lock assembly (dr	iver side) harness connect	tor and ground.
Front door lock asser	ably (driver side)		<u> </u>
Connector	Terminal	Ground	Continuity
D13	4	_	Existed
Is the inspection result normal?		1	
YES >> GO TO 4. NO >> Repair or replace h			
4. CHECK UNLOCK SENSOR			
Refer to DLK-533, "Component	Inspection"		
Is the inspection result normal?			
YES >> GO TO 5. NO >> Replace front door	lock assembly (driver s	ide)	
5.CHECK INTERMITTENT IN	• •		
Refer to <u>GI-42</u> , "Intermittent Inc			
>> INSPECTION END)		
Component Inspection			INFOID:00000006616497
1.CHECK UNLOCK SENSOR			
1. Turn ignition switch OFF.			
2 Disconnect front door lock	assembly (driver side) (connector	

Turn ignition switch OFF.
 Disconnect front door lock assembly (driver side) connector.

3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock assembly (driver side) Terminal		Condition		Continuity
4	Lock	Not existed		

Is the inspection result normal?

YES >> INSPECTION END

>> Replace front lock assembly (driver side). NO

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [TYPE 4] < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH ALL DOOR ALL DOOR : Description INFOID:000000006619157 All doors do not lock/unlock using door lock and unlock switch. ALL DOOR : Diagnosis Procedure INFOID:000000006619158 1. CHECK DOOR LOCK AND UNLOCK SWITCH Check door lock and unlock switch. Refer to DLK-520, "Component Function Check". 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-515, "DRIVER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. ${f 3}$. Check door switch Check door switch. Refer to DLK-397, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. **4.**CHECK KEY SWITCH Check key switch. Refer to DLK-401, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5.REPLACE BCM Replace BCM. Refer to BCS-161, "Removal and Installation". 1. Confirm the operation after replacement. 2. Is the result normal? >> INSPECTION END YFS NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". DRIVER SIDE DRIVER SIDE : Description INFOID:00000006619159 Driver side door does not lock/unlock using door lock and unlock switch. **DRIVER SIDE** : Diagnosis Procedure INFOID:00000006619160

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side). Refer to <u>DLK-515, "DRIVER SIDE : Component Function Check"</u>.

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

< SYMPTOM DIAGNOSIS >	[TYPE 4]
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. REPLACE BCM	
 Replace BCM. Refer to <u>BCS-161, "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> . PASSENGER SIDE	
PASSENGER SIDE : Description	INFOID:00000006619161
Passenger side door does not lock/unlock using door lock and unlock switch.	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000006619162
1. CHECK DOOR LOCK ACTUATOR	
Check front door lock assembly (passenger side). Refer to <u>DLK-516. "PASSENGER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. REPLACE BCM	
 Replace BCM. Refer to <u>BCS-161, "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> . REAR LH	
REAR LH : Description	INFOID:00000006619163
Rear LH side door does not lock/unlock using door lock and unlock switch.	
REAR LH : Diagnosis Procedure	INFOID:00000006619164
1.CHECK DOOR LOCK ACTUATOR	
Check rear door lock assembly LH. Refer to DLK-517, "REAR LH : Component Function Check".	
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-161, "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> . REAR RH	
REAR RH : Description	INFOID:00000006619165

Rear RH side door does not lock/unlock using door lock and unlock switch.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [TYPE 4]

< SYMPTOM DIAGNOSIS >

REAR RH : Diagnosis Procedure

INFOID:000000006619166

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock assembly RH

Refer to DLK-518, "REAR RH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

Replace BCM. Refer to BCS-161, "Removal and Installation". 1.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

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

DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

DOOR KEY CYLINDER	
< SYMPTOM DIAGNOSIS > [TYPE 4]	
DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK	
KNOB OR DOOR KEY CYLINDER	A
Diagnosis Procedure	° 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 >> Go to <u>DLK-534, "ALL DOOR : Diagnosis Procedure"</u> .	D
2.CHECK UNLOCK SENSOR	_
Check unlock sensor.	E
Refer to <u>DLK-532, "Component Function Check"</u> .	
Is the inspection result normal? YES >> GO TO 3.	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	F
3. REPLACE BCM	
	-
 Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>. Confirm the operation after replacement. 	G
Is the result normal?	
YES >> INSPECTION END	Н
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	

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DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

Diagnosis Procedure

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Go to <u>DLK-534</u>, "ALL DOOR : Diagnosis Procedure".

2. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to DLK-529, "Component Function Check".

Is the inspection result normal?

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

3.CHECK KEYFOB BATTERY

Check keyfob battery. Refer to <u>DLK-528, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

1. Replace BCM. Refer to <u>BCS-161, "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>.

BACK DOOR DOES NOT OPENED

BACK DOOR DOES NOT OPENED	
< SYMPTOM DIAGNOSIS >	[TYPE 4]
BACK DOOR DOES NOT OPENED	
Diagnosis Procedure	INFOID:000000006619155
1. CHECK BACK DOOR OPENER SWITCH	
Check back door opener switch. Refer to <u>DLK-513, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts. 2.CHECK BACK DOOR OPENER ACTUATOR	
Check back door opener actuator. Refer to <u>DLK-512, "Diagnosis Procedure"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK VEHICLE SPEED SIGNAL	
Check vehicle speed signal. Refer to <u>MWI-46, "DTC Logic"</u> . Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-161, "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".	

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ANTI-HIJACK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ANTI-HIJACK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006619153

[TYPE 4]

1.CHECK "DOOR LOCK–UNLOCK SET" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- 2. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode.
- 3. Check "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT"

Refer to <u>DLK-501, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)"</u>.

Is the inspection result normal?

- YES >> GO TO 2
- NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT"

2.REPLACE BCM

- 1. Replace BCM. Refer to BCS-161, "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>.

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE [TYPE 4]

< SYMPTOM DIAGNOSIS >

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPER-ATE

Diagnosis Procedure	19180 B
1. CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"	
 Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-501</u>, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)" 	C
Is the inspection result normal?	D
YES >> GO TO 2. NO >> Set "Lock Only" or "Lock/Unlock" in "WORK SUPPORT". 2. CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"	E
 Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-501</u>, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)" 	F
Is the inspection result normal? YES >> GO TO 3. NO >> Set "VH SPD" in "AUTOMATIC DOOR LOCK SELECT". 3. REPLACE BCM	G
Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u> .	H
Confirm the operation after replacement.	
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	J

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IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE [TYPE 4]

< SYMPTOM DIAGNOSIS >

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006619170

1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. 2.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". 3.

Refer to DLK-501, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT".

2.CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode. 2.
- Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT". 3.

Refer to DLK-501, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)".

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Set "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".

3.REPLACE BCM

- Replace BCM. Refer to BCS-161, "Removal and Installation". 1.
- Confirm the operation after replacement. 2.

Is the result normal?

YES >> INSPECTION END

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

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

ATE	
< SYMPTOM DIAGNOSIS > [TYPE 4]	
P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OP-	
ERATE	А
Diagnosis Procedure	В
1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"	
 Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-501</u>, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)". 	С
Is the inspection result normal? YES >> GO TO 2.	D
NO >> Set "Unlock Only", "Lock Only" or "Lock/Unlock" in "AUTOMATIC LOCK/UNLOCK SELECT". 2.CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"	Е
 Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-501, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)"</u>. 	F
Is the inspection result normal?	G
YES >> GO TO 3. NO >> Set "P RANGE" in "AUTOMATIC DOOR LOCK SELECT".	
3. CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"	Н
 Select "DOOR LOCK" of "BCM" using CONSULT-III. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC DOOR UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-501, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)"</u>. 	I
Is the inspection result normal?	
YES >> GO TO 4. NO >> Set "MODE 2" or "MODE 4" in "AUTOMATIC DOOR UNLOCK SELECT".	J
4.снеск тсм	DLk
Check TCM for DTC. Refer to <u>TM-171. "DTC Index"</u> (RE0F10B models) or <u>TM-366. "DTC Index"</u> (RE0F11A models). Is the inspection result normal?	JLr L
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	
5.REPLACE BCM	M
 Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>. Confirm the operation after replacement. 	
Is the result normal?	Ν
YES >> INSPECTION END NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
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AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006619154

[TYPE 4]

1.CHECK "AUTO LOCK SET" SETTING WITH CONSULT-III

- 1. Select "MULTI REMOTE ENT" of "BCM" using CONSULT-III.
- 2. Select "AUTO LOCK SET" in "WORK SUPPORT" mode.
- Check "AUTO LOCK SET" in "WORK SUPPORT". Refer to <u>DLK-502</u>, "<u>MULTI REMOTE ENT</u> : <u>CONSULT-III Function (BCM - MULTI REMOTE ENT) (With-out Super Lock)</u>".

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Set "AUTO LOCK SET" in "WORK SUPPORT".

2.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-161, "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>.

UNLOCK LINK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 4] UNLOCK LINK FUNCTION DOES NOT OPERATE

Diagnosis Procedure INFOID:000000006619179 **1.**REPLACE BCM • Replace BCM. Refer to BCS-161, "Removal and Installation". • Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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KEY OUT INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE [TYPE 4]

< SYMPTOM DIAGNOSIS >

KEY OUT INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006619171

1.CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. 2.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". 3.

Refer to DLK-501, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT".

2.CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT-III.
- Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode. 2.
- Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT". 3.

Refer to DLK-501, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK) (Without Super Lock)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".

3.CHECK KEY SWITCH

Check key switch.

Is the inspection result normal?

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

4.REPLACE BCM

- Replace BCM. Refer to BCS-161, "Removal and Installation". 1.
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

KEY REMINDER FUNCTION DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	[TYPE 4]
KEY REMINDER FUNCTION DOES NOT OPERATE	
Diagnosis Procedure	INFOID:000000006619172
1. CHECK DOOR LOCK AND UNLOCK SWITCH	
Check door lock and unlock switch. Refer to <u>DLK-520, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CHECK KEY SWITCH	
Check key switch. Refer to <u>DLK-526, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3. CHECK DRIVER SIDE DOOR SWITCH	
Check driver side door switch. Refer to <u>DLK-522</u> , "Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
NO >> Repair or replace the malfunctioning parts. 4. REPLACE BCM	
1. Replace BCM. Refer to <u>BCS-161, "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> ".	

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HAZARD REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HAZARD REMINDER OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000006619169

[TYPE 4]

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-141, "DTC Index"</u>. (BCM)

NO-2 >> Refer to <u>MWI-36. "DTC Index"</u>. (Combination meter)

2.CHECK "HAZARD LAMP SET" SETTING IN "WORK SUPPORT"

1. Select "MULTI REMOTE ENT" of "BCM" using CONSULT-III.

2. Select "HAZARD LAMP SET" in "WORK SUPPORT" mode.

 Check "HAZARD LAMP SET" in "WORK SUPPORT". Refer to <u>DLK-502, "MULTI REMOTE ENT : CONSULT-III Function (BCM - MULTI REMOTE ENT) (With-out Super Lock)"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "HAZARD LAMP SET" in "WORK SUPPORT".

3.CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to DLK-525, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

- 1. Replace BCM. Refer to <u>BCS-161, "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

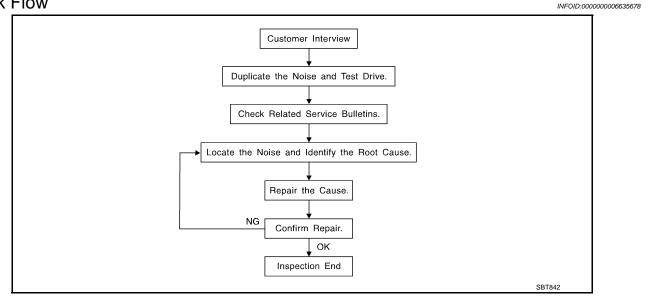
Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to GI-42. "Intermittent Incident".

< 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-553</u>, "<u>Diagnostic Worksheet</u>". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics J are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
 higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle) Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)
 Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand)
 Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise) Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumblebee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that you 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 you confirm the repair.

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< SYMPTOM DIAGNOSIS >

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that you suspect the noise is coming from. 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 you suspect is causing 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 with your hand by touching the component(s) that you suspect is (are) causing the noise.
- Placing a piece of paper between components that you suspect are causing the noise.
- Looking for loose components and contact marks. Refer to <u>DLK-551</u>, "Inspection Procedure".

REPAIR THE CAUSE

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

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged. NOTE:

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 \times 135 mm (3.94 \times 5.31 in)/76884-71L01: 60 \times 85 mm (2.36 \times 3.35 in)/76884-71L02:15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50 \times 50 mm (1.97 \times 1.97 in)/73982-

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: $15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad}/68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$ The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE

SQUEAK AND RATTLE TROUBLE DIAGNOSES	
< SYMPTOM DIAGNOSIS > [TYPE 4]	
Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE	А
Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY	
Use when grease cannot be applied.	В
DUCT TAPE Use 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	С
conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.	
Inspection Procedure	D
Refer to Table of Contents for specific component removal and installationinformation.	
	_
INSTRUMENT PANEL Most incidents are caused by contact and movement between:	Е
1. The cluster lid A and instrument panel	
 Acrylic lens and combination meter housing 	F
3. Instrument panel to front pillar garnish	
4. Instrument panel to windshield	
5. Instrument panel mounting pins	G
6. Wiring harnesses behind the combination meter	
7. A/C defroster duct and duct joint	Н
These incidents can usually be located by tapping or moving the components to duplicate the noise or by	
pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate	
wiring harness.	
CAUTION:	
Do not use silicone spray to isolate a squeak or rattle. If you saturatethe area with silicone, you will not be able to recheck the repair.	J
CENTER CONSOLE	
Components to pay attention to include:	DLK
	DLK
2. A/C control unit and cluster lid C	
3. Wiring harnesses behind audio and A/C control unit	L
The instrument panel repair and isolation procedures also apply to thecenter console.	
DOORS	
Pay attention to the:	M
 Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher 	
3. Wiring harnesses tapping	Ν
 4. Door striker out of alignment causing a popping noise on startsand stops 	
Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate	
many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.	0
TRUNK	
Trunk noises are often caused by a loose jack or loose items put intothe trunk by the owner. In addition look for:	Ρ
1. Trunk lid dumpers out of adjustment	
2. Trunk lid striker out of adjustment	
2. The trunk lid tension have long align to get an	

- 3. The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

[TYPE 4]

< SYMPTOM DIAGNOSIS >

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- 1. Sunroof lid, rail, linkage or seals making a rattle or light knockingnoise
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seatis in and the load placed on the seat when the noise is present. These conditions hould be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- 1. Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component orapplying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

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

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



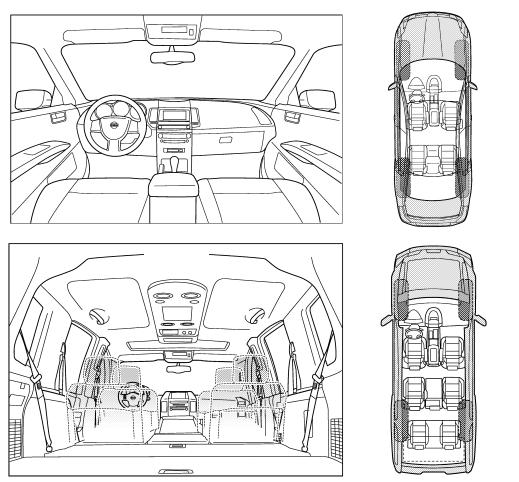
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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[TYPE 4]

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< SYMPTOM DIAGNOSIS >

[TYPE 4]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)							
 anytime 1st time in the morning only when it is cold outside only when it is hot outside 	 after sitting out in the rain when it is raining or wet dry or dusty conditions other: 						
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE						
 through driveways over rough roads over speed bumps only about mph on acceleration coming to a stop on turns: left, right or either (circle) with passengers or cargo other: after driving miles or minu 	 squeak (like tennis shoes on a clean floor) creak (like walking on an old wooden floor) rattle (like shaking a baby rattle) knock (like a knock at the door) tick (like a clock second hand) thump (heavy, muffled knock noise) buzz (like a bumble bee) 						

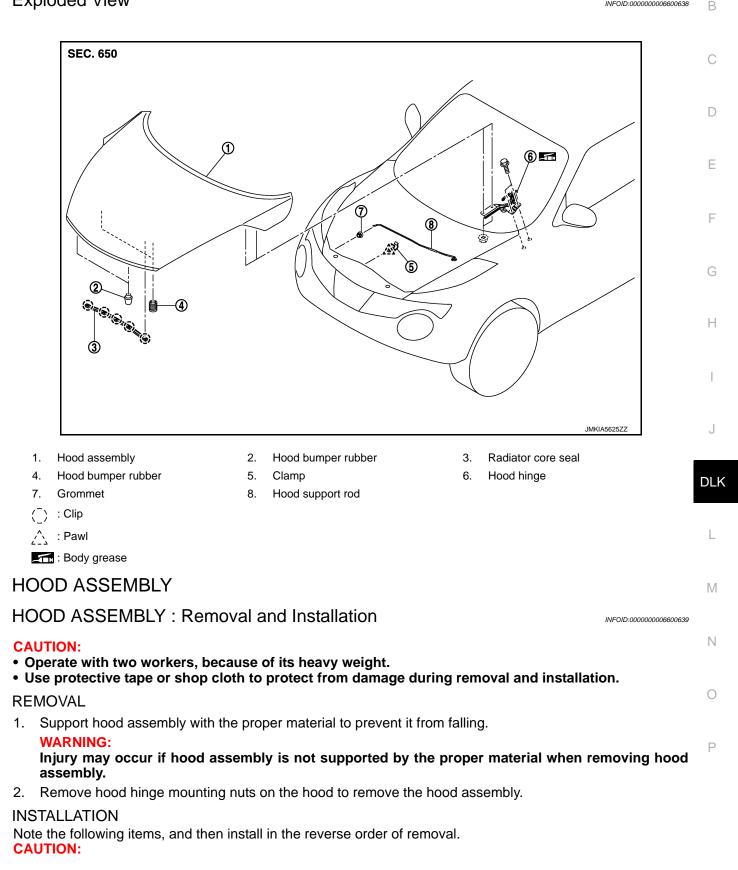
TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair			
	stomer Na		

< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION** HOOD

Exploded View



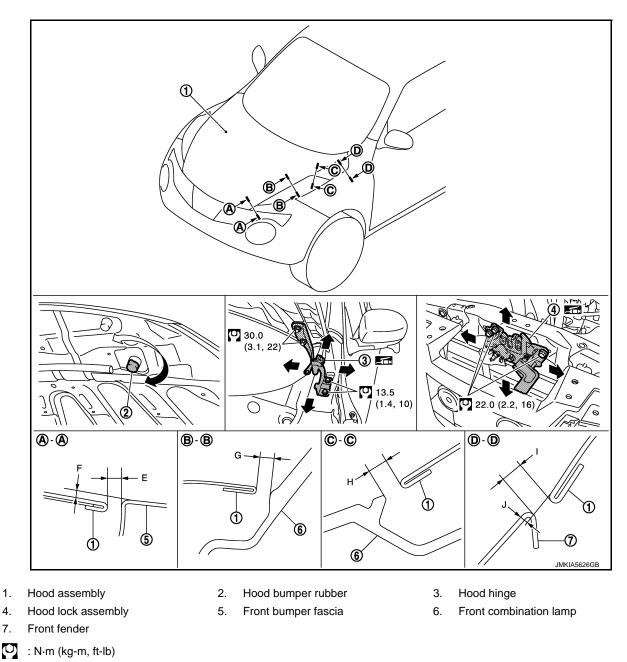
INFOID:000000006600638

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- After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.
- After installing, perform hood fitting adjustment. Refer to <u>DLK-556, "HOOD ASSEMBLY : Adjust-ment"</u>.

HOOD ASSEMBLY : Adjustment

INFOID:000000006600640



: Body grease

Check the clearance and the surface height between hood and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

HOOD

< REMOVAL AND INSTALLATION >

[TYPE 4]

					Unit: mm (in)	
Portion				Standard	Difference (RH/LH, MAX)	ļ
Hood – Front	۸ ۸	Ε	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	E
bumper fascia	A – A	F	Surface height	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	< 2.5 (0.098)	
Hood – Front combi- nation lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	(
Hood – Front combi- nation lamp	C – C	H	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)	[
Hood – Front fender		I	Clearance	2.5 - 4.5 (0.098 - 0.177)	< 1.5 (0.059)	
noou – riont lender	D – D	J	Surface height	(-2.0) – (0.0) [(-0.079) – (0.000)]	< 1.5 (0.059)	E

FITTING ADJUSTMENT PROCEDURE

- 1. Remove front center grille. Refer to EXT-18. "Removal and Installation".
- 2. Remove hood lock assembly, 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.
- Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for looseness.
- 4. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 5. After adjustment, tighten lock bolts to the specified torque.
- 6. Open hood. Rotate bumper rubber counterclockwise between half a turn and three-quarters of a turn.
- 7. Check that secondary latch is securely engaged with secondary hood striker from the dead load of the hood assembly.
- Check that primary latch is securely engaged with primary hood 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.

9. Install front center grille. Refer to EXT-18, "Removal and Installation".

HOOD HINGE

HOOD HINGE : Removal and Installation

REMOVAL

- 1. Remove hood assembly. Refer to <u>DLK-555, "HOOD ASSEMBLY : Removal and Installation"</u>.
- 2. Remove front fender. Refer to <u>DLK-566, "Removal and Installation"</u>.
- 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 hinge fitting adjustment. Refer to <u>DLK-558</u>, <u>"HOOD HINGE : Adjust-</u> (<u>ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.

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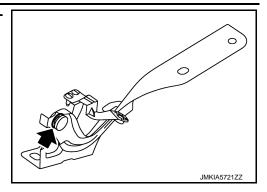
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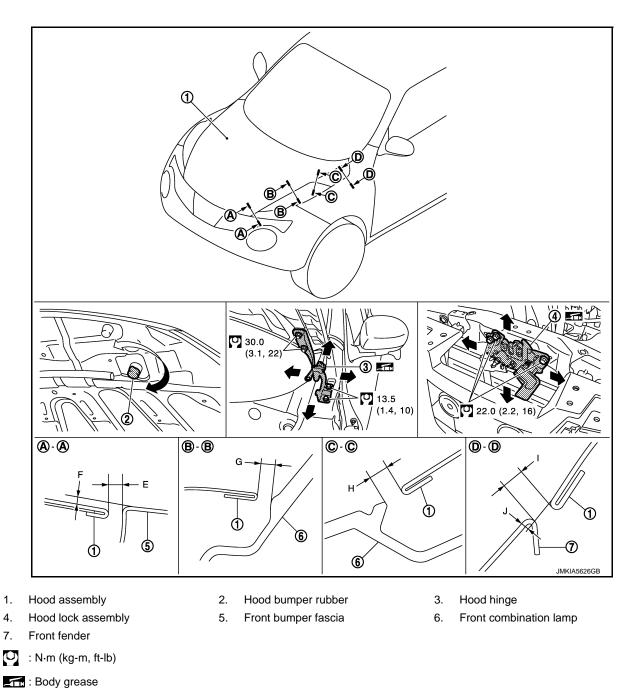
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HOOD HINGE : Adjustment

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Check the clearance and the surface height between hood and each part by visually and touching.

HOOD

< REMOVAL AND INSTALLATION >

					Unit: mm (in)
Portion				Standard	Difference (RH/LH, MAX)
Hood – Front		Ε	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
bumper fascia			Surface height	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	< 2.5 (0.098)
Hood – Front combi- nation lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front combi- nation lamp	C – C	Η	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
			Clearance	2.5 - 4.5 (0.098 - 0.177)	< 1.5 (0.059)
Hood – Front fender D – D –		J	Surface height	(-2.0) – (0.0) [(-0.079) – (0.000)]	< 1.5 (0.059)

1. Remove front center grille. Refer to EXT-18. "Removal and Installation".

2. Remove hood lock assembly.

3. Remove front bumper fascia. Refer to EXT-13. "Removal and Installation".

- 4. Remove front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 5. Remove front fender assembly (LH and RH). Refer to DLK-566, "Removal and Installation".
- 6. Loosen hood hinge mounting bolts.
- 7. Temporarily install front fender assembly (LH and RH), front combination lamp (LH and RH) and front bumper fascia.
- 8. Adjust the clearance of hood assembly, front fender assembly (LH and RH), front combination lamp (LH and RH) and front bumper fascia according to the specified value, by moving hood hinge (body side).
- 9. Temporarily tighten hood hinge (LH and RH).
- 10. Remove front bumper fascia, front combination lamp (LH and RH) and front fender assembly (LH and J RH).
- 11. Tighten hood hinge (LH and RH) to the specified torque.
- 12. Install front fender assembly (LH and RH). Refer to DLK-566. "Removal and Installation".
- 13. Install front combination lamp (LH and RH). Refer to EXL-91, "Removal and Installation".
- 14. Install front bumper fascia. Refer to EXT-13, "Removal and Installation".
- 15. Adjust the surface height of hood assembly, front fender assembly, and front combination lamp according to the specified value, by rotating hood bumper rubber.
- 16. Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for looseness.
- 17. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 18. After adjustment, tighten lock bolts to the specified torque.
- 19. Open hood. Rotate bumper rubber counterclockwise between half a turn and three-quarters of a turn.
- 20. Check that secondary latch is securely engaged with secondary hood striker from the dead load of the hood assembly.
- Check that primary latch is securely engaged with primary hood 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.

 Install front center grille. Refer to <u>EXT-18, "Removal and Installation"</u>. CAUTION:

After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.

HOOD SUPPORT ROD

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HOOD SUPPORT ROD : Removal and Installation

REMOVAL

CAUTION:

Two workers are required to support the hood.

1. Support hood assembly with a suitable material to prevent it from falling.

WARNING: Injury may occur if hood assembly is not supported by the proper material when removing hood assembly.

2. Pull hood support rod from grommet and remove.

INSTALLATION

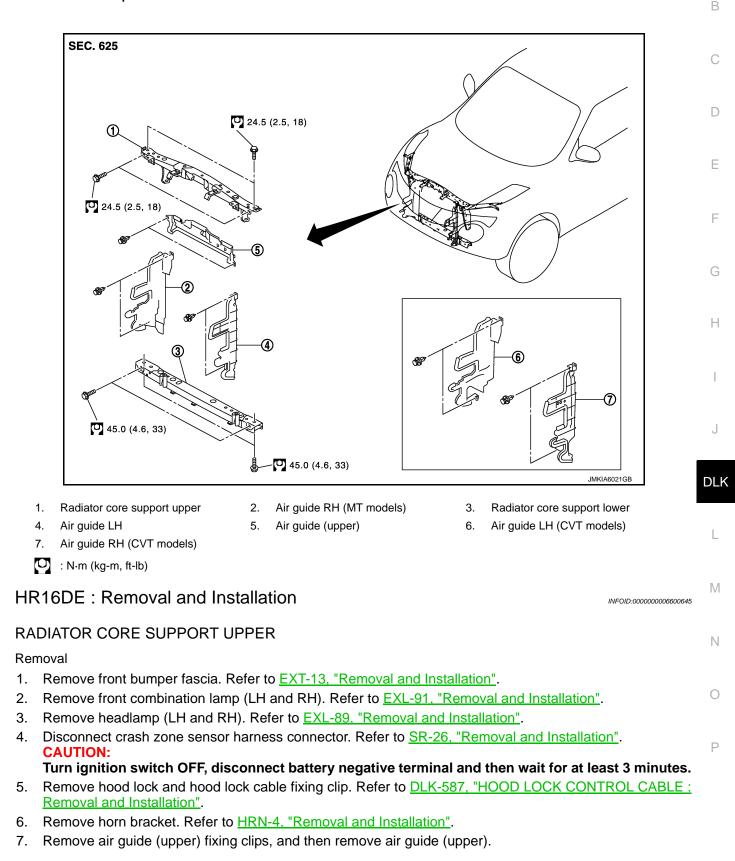
Install in the reverse order of removal.

< REMOVAL AND INSTALLATION > RADIATOR CORE SUPPORT

HR16DE

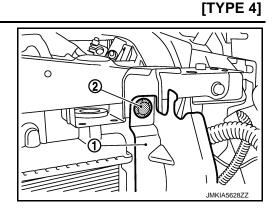
HR16DE : Exploded View

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< REMOVAL AND INSTALLATION >

8. Remove upper fixing clips (2) of air guide (LH and RH) (1).



- 9. Remove hood support rod. Refer to DLK-560, "HOOD SUPPORT ROD : Removal and Installation".
- 10. Remove mounting bolts, and then remove radiator core support upper.

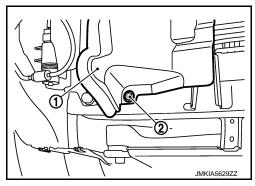
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

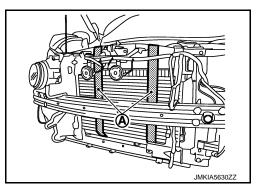
Removal

- 1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".
- Remove lower fixing clips (2) of radiator side seal (LH and RH) (1).



 Use belts (A) to suspend radiator and condenser to prevent them from falling. CAUTION:

Never damage radiator and condenser.



4. Remove mounting bolts, and then remove radiator core support lower.

Installation Install in the reverse order of removal. MR16DDT

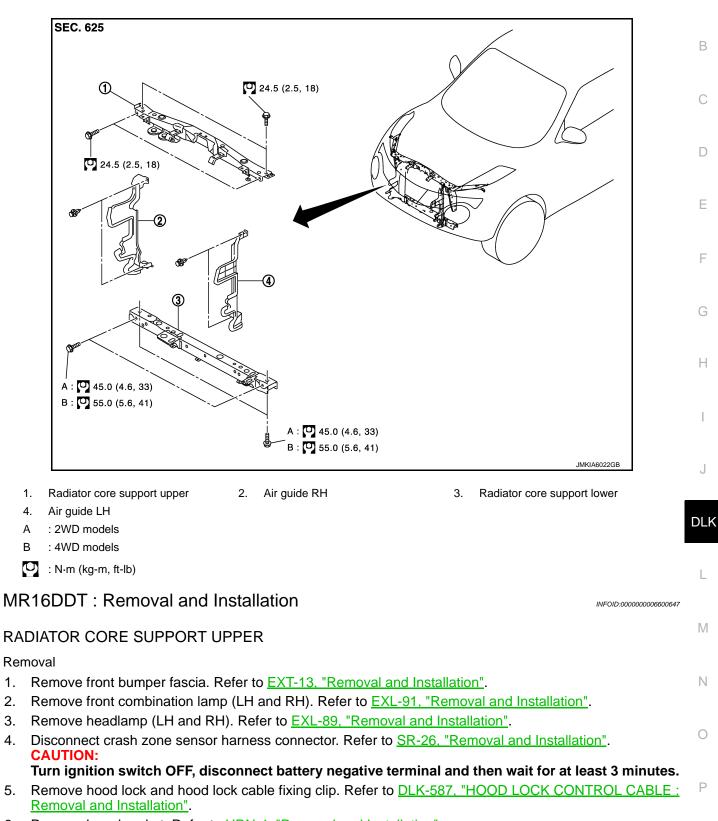
< REMOVAL AND INSTALLATION >

MR16DDT : Exploded View

[TYPE 4]

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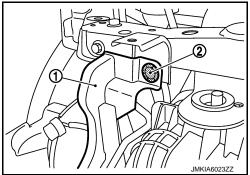
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6. Remove horn bracket. Refer to HRN-4, "Removal and Installation".

< REMOVAL AND INSTALLATION >

7. Remove upper fixing clips (2) of air guide (LH and RH) (1).



- 8. Remove hood support rod. Refer to DLK-560, "HOOD SUPPORT ROD : Removal and Installation".
- 9. Remove mounting bolts, and then remove radiator core support upper.

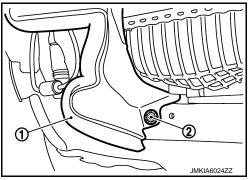
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

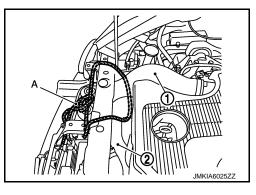
Removal

- 1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".
- Remove lower fixing clips (2) of radiator side seal (LH and RH) (1).

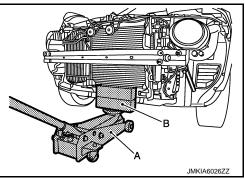


 Using strings (A), hang inlet hose (1) and inlet hose (2) together with charge air cooler.
 CAUTION:

Never damage inlet hoses with charge air cooler.



 Support lower side radiator using wooden blocks (B) and a floor jack (A).
 CAUTION: Never damage radiator.



5. Remove mounting bolts, and then remove radiator core support lower.

Installation

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

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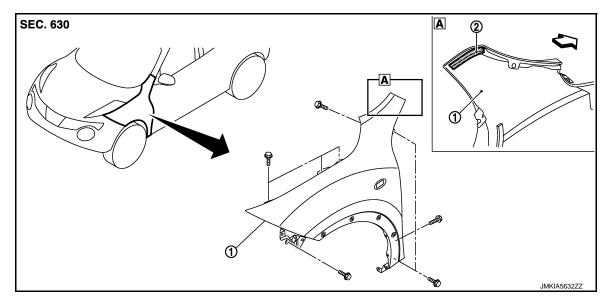
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< REMOVAL AND INSTALLATION >

FRONT FENDER

Exploded View

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1. Front fender assembly

2. Front fender stiffener

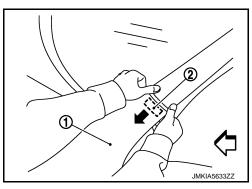
 $\triangleleft : \mathsf{Vehicle front} \\$

Removal and Installation

INFOID:000000006600649

REMOVAL

- 1. Remove front fillet molding. Refer to EXT-26, "FRONT FILLET MOLDING : Removal and Installation".
- 2. Remove front bumper fascia assembly. Refer to EXT-13, "Removal and Installation".
- 3. Remove sill cover. Refer to EXT-23, "Removal and Installation".
- 4. Remove fender protector. Refer to EXT-22, "Removal and Installation".
- 5. Remove front fender cover. Refer to EXT-20, "Exploded View".
- 6. Remove front combination lamp. Refer to EXL-91, "Removal and Installation".
- 7. Remove side turn signal lamp. Refer to EXL-98, "Removal and Installation".
- 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.



10. Remove front fender assembly.

CAUTION:

An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Note the following items, and install in the reverse order of removal.

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CAUTION:

• After installation, apply the touch-up	aint (the body color) onto the head of front fender mounting A
bolts.	

• After installation, adjust the following part.

Hood assembly: Refer to) <u>DLK-556,</u>	"HOOD ASSEMBLY	<u>: Adjustment".</u>
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- Front door: Refer to DLK-570, "DOOR ASSEMBLY : Adjustment".

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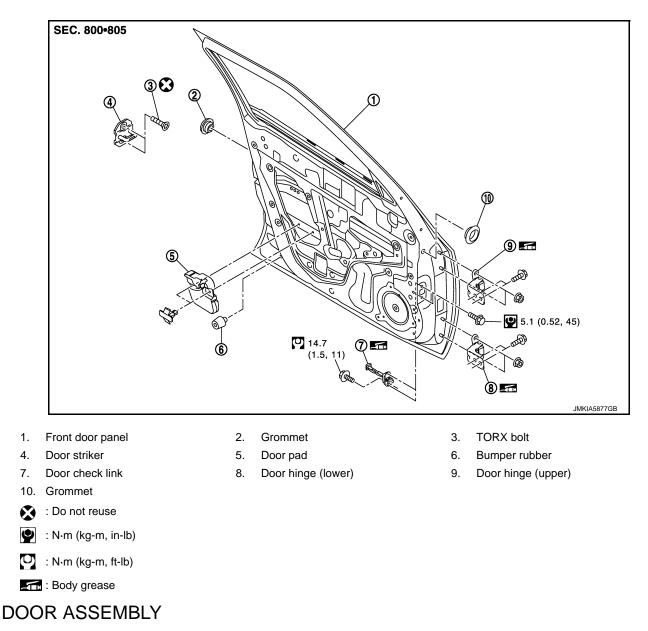
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< REMOVAL AND INSTALLATION >

FRONT DOOR

Exploded View

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DOOR ASSEMBLY : Removal and Installation

CAUTION:

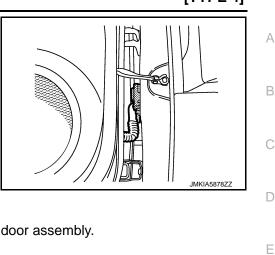
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

INFOID:000000006628063

< REMOVAL AND INSTALLATION >

1. Disconnect front door harness connector.



- 2. Remove mounting bolt of door check link on the vehicle.
- 3. Remove door hinge mounting bolts (door side), and then remove door assembly.

INSTALLATION

Note the following items, and 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.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-570, "DOOR ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.



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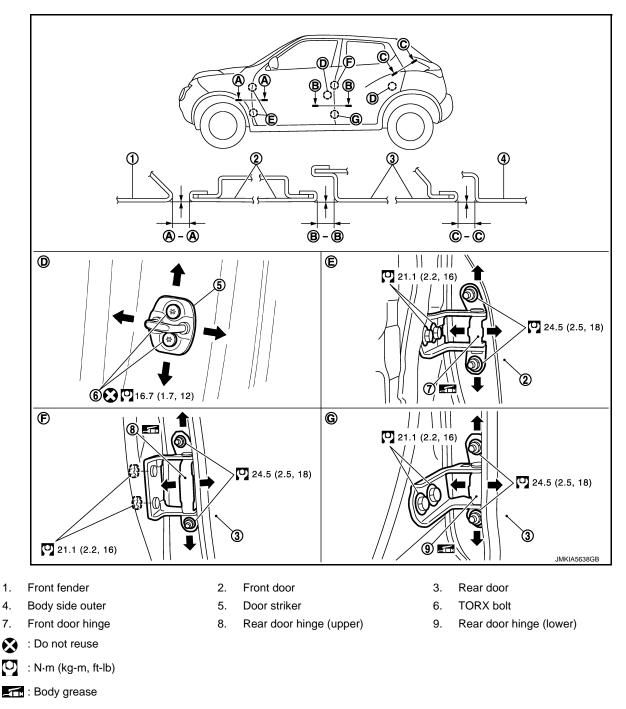
[TYPE 4]

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

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I Init: mm (in)



Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

			Office finite (in)
Portion		Clearance	Surface height
Front fender – Front door	A – A	3.0 – 5.0 (0.118 – 0.197)	(-1.0) – (+1.0) [(-0.039) – (+0.039)]
Front door – Rear door	B – B	3.3 – 5.3 (0.130 – 0.209)	(-1.0) – (+1.0) [(-0.039) – (+0.039)]

FITTING ADJUSTMENT PROCEDURE

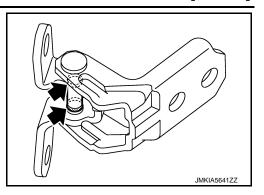
- 1. Remove front fender. Refer to <u>DLK-566, "Removal and Installation"</u>.
- 2. Loosen door hinge mounting nuts on door side.

TRONT BOOK	
< REMOVAL AND INSTALLATION > [TYPE	4]
3. Adjust the surface height of front door according to the fitting standard dimension.	
4. Temporarily tighten door hinge mounting nuts on door side.	
5. Loosen door hinge mounting bolts on body side.	
6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dime sion.	n-
 After adjustment tighten bolts and nuts to the specified torque. CAUTION: 	14 -
 After installation, apply touch-up paint (the body color) onto the head of hinge mounting bo and nuts. Check door hinge rotating part for poor lubrication. If necessary, apply body grease. 	Its
8. Install front fender. Refer to refer to <u>DLK-566</u> , "Removal and Installation".	
DOOR STRIKER ADJUSTMENT	
Adjust door striker so that it becomes parallel with door lock insertion direction.	
DOOR STRIKER : Removal and Installation)0653
REMOVAL	
Remove TORX bolts, and then remove door striker.	
INSTALLATION Note the following items, and install in the reverse order of removal.	
CAUTION:	
 Check front door open/close, lock/unlock operation after installation. After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-570, "DOOR ASSEMBL'</u> <u>Adjustment"</u>. 	<u>Y :</u>
DOOR HINGE	
DOOR HINGE : Removal and Installation)0654
REMOVAL	
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 pretect door and body. 	ro-
1. Remove front fender. Refer to <u>DLK-566, "Removal and Installation"</u> .	
2. Remove front door assembly. Refer to <u>DLK-568, "DOOR ASSEMBLY : Removal and Installation"</u> .	
3. Remove front door hinge mounting bolts (body side), and then remove front door hinge.	
INSTALLATION	
Note the following items, and 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. 	-1
 After installation, perform the fitting adjustment. Refer to <u>DLK-570, "DOOR ASSEMBLY : Adjustment"</u>. 	<u>51-</u>
 After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts 	5.

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< REMOVAL AND INSTALLATION >

- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - : Grease up point

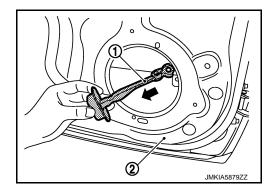


DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

REMOVAL

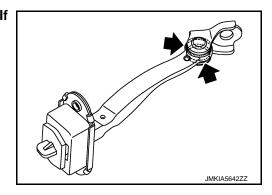
- 1. Fully close the front door window.
- 2. Remove front door finisher. Refer to INT-13, "Removal and Installation".
- 3. Disconnect harness connector of front door speaker.
- 4. Remove mounting bolts of front door speaker, and then remove front door speaker.
- 5. Remove mounting bolt of door check link on the vehicle.
- 6. Remove mounting bolts 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 item, 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



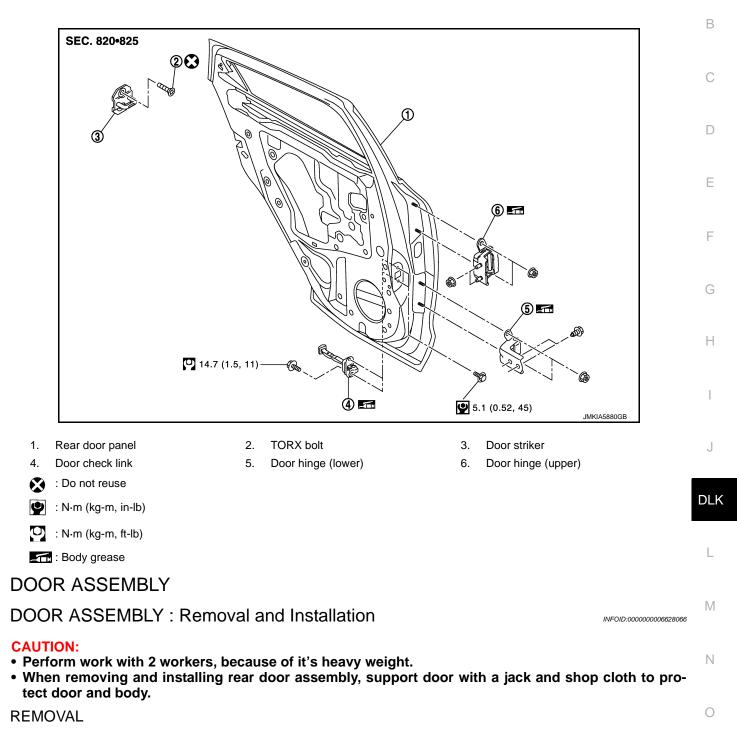
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< REMOVAL AND INSTALLATION >

REAR DOOR

Exploded View

INFOID:000000006628065



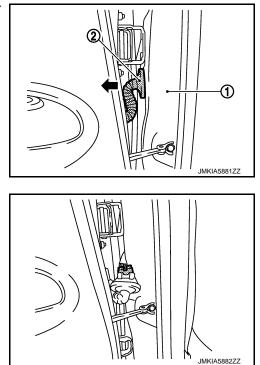
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REAR DOOR

< REMOVAL AND INSTALLATION >

 Remove rear door harness grommet (2) from body side outer (1), and then pull out rear door harness.



[TYPE 4]

Disconnect rear door harness connector.

- 3. Remove mounting bolt of door check link on the vehicle.
- 4. Remove door hinge mounting bolts (door side), and then remove rear door assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

2.

- Apply anticorrosive agent onto the mounting surface.
- Check rear door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-575, "DOOR ASSEMBLY : Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

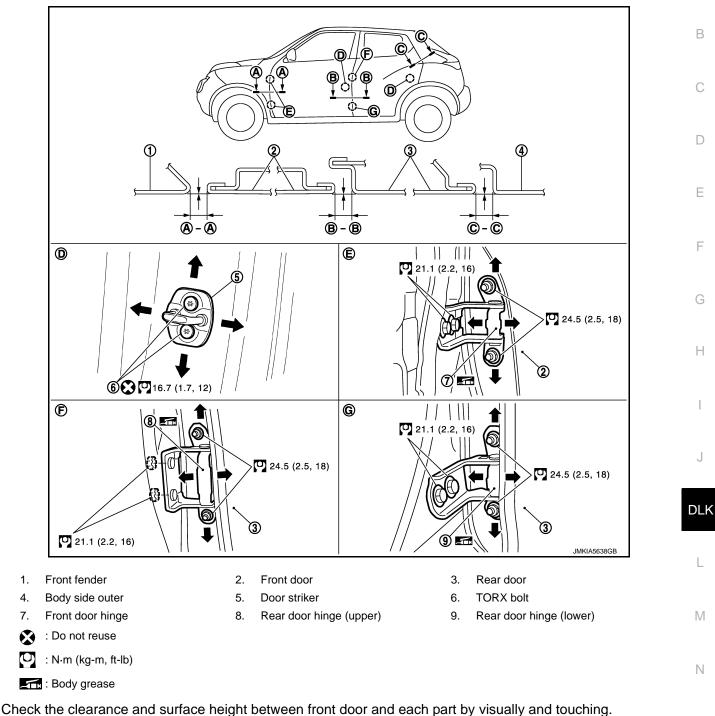
REAR DOOR

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

INFOID:000000006600658





0 If the clearance and the surface height are out of specification, adjust them according to the procedures shown below. | Init: mm (in)

Portion		Clearance	Surface height
Front door – Rear door	B – B		(-1.0) – (+1.0) [(-0.039) – (+0.039)]
Rear door – Body side outer	C – C	2.6 - 4.6 (0.102 - 0.181)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]

FITTING ADJUSTMENT PROCEDURE

Remove center pillar lower garnish. Refer to INT-20. "CENTER PILLAR LOWER GARNISH : Removal 1. and Installation".

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REAR DOOR

< REMOVAL AND INSTALLATION >

- 2. Loosen door hinge mounting nuts on door side.
- 3. Adjust the surface height of rear door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting nuts and bolts on body side.
- 6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
- 7. After adjustment tighten bolts and nuts to the specified torque. CAUTION:
 - After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
 - Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- 8. Install center pillar lower garnish. Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH : Removal and</u> <u>Installation"</u>.

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction. $\ensuremath{\mathsf{DOOR}}$ STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000006600659

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REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Check rear door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-575, "DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

DOOR HINGE

DOOR HINGE : Removal and Installation

CAUTION:

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

- 1. Remove rear door assembly. Refer to <u>DLK-573, "DOOR ASSEMBLY : Removal and Installation"</u>.
- 2. Remove center pillar lower garnish. Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH : Removal</u> <u>and Installation"</u>.
- 3. Remove rear door hinge mounting bolts and nuts (body side), and then remove door hinge.

INSTALLATION

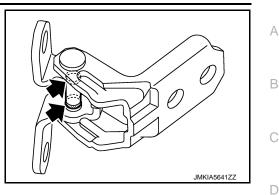
Note the following items, and install in the reverse order of removal. **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check rear door open/close operation after installation.
- When removing and installing rear door assembly, perform the fitting adjustment. Refer to <u>DLK-575</u>, <u>"DOOR ASSEMBLY : Adjustment"</u>.
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

REAR DOOR

< REMOVAL AND INSTALLATION >

- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - Grease up point

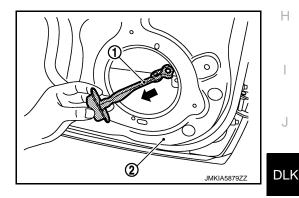


DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

REMOVAL

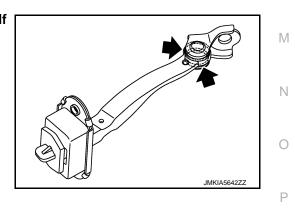
- 1. Fully close the rear door window.
- 2. Remove rear door finisher. Refer to INT-16, "Removal and Installation".
- 3. Remove mounting bolts of rear door speaker, and then remove rear door speaker.
- 4. Disconnect harness connector of rear door speaker.
- 5. Remove mounting bolt of the check link on the vehicle.
- 6. Remove mounting bolts of the 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 rear door open/close operation after installation.
- Check door check link rotating part for poor lubrication. If necessary, apply grease.
 - : Grease up point



[TYPE 4]

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< REMOVAL AND INSTALLATION > **BACK DOOR**

Exploded View

REMOVAL

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[TYPE 4]

- Back door weather-strip 1.
- 4. Bumper rubber
- 7. Back door hinge
- : Center mark А
- : Seam В
- : Do not reuse
- : Body grease

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

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CAUTION:

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

REMOVAL

Remove luggage side upper finisher (LH and RH). Refer to INT-32, "LUGGAGE SIDE UPPER FINISHER 1. : Removal and Installation".

5. Back door striker 6. Back door panel 8. Hole cover

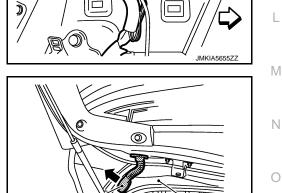
2. Disconnect harness connector.

 \triangleleft : Vehicle front

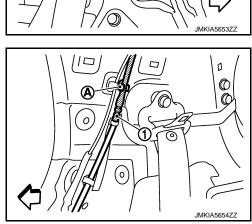
- 3. Remove rear washer hose (1) from hose mounting clip (A), and then disengage hose.
 - \triangleleft : Vehicle front

- 4. Remove center pillar upper garnish. Refer to <u>INT-21, "CENTER PILLAR UPPER GARNISH : Removal</u> and Installation".
- 5. Remove upper side of back door weather-strip. Refer to <u>DLK-584, "BACK DOOR WEATHER-STRIP :</u> <u>Removal and Installation"</u>.
- Remove rear assist grip (LH and RH) and mounting clips for rear portion of headlining, and then remove rear portion of headlining. Refer to <u>INT-26, "Exploded View"</u>.
- 7. Remove ground harness mounting bolt (A) and harness fixing clip (B).

Remove grommet (1), and then pull out harness from roof panel (2).



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[TYPE 4]

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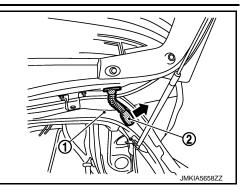
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< REMOVAL AND INSTALLATION >

9. Remove grommet (2), and then pull out harness and washer tube from roof panel (1).



10. Support back door with the proper material to prevent it from falling. WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

- 11. Remove back door stay (back door side). Refer to <u>DLK-583</u>, "<u>BACK DOOR STAY</u> : <u>Removal and Installa-</u> <u>tion</u>".
- 12. Remove back door hinge mounting nuts on back door and remove back door assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-581, "BACK DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

< REMOVAL AND INSTALLATION >

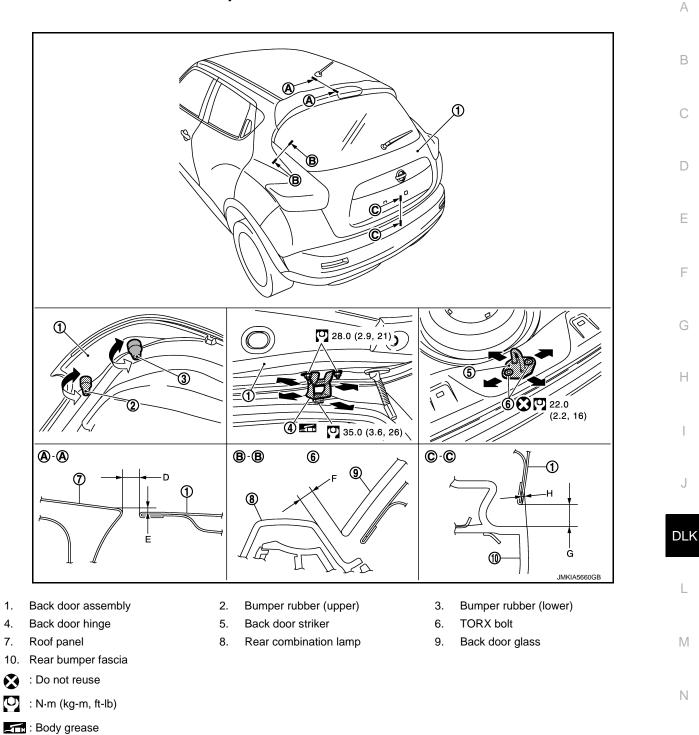
BACK DOOR ASSEMBLY : Adjustment

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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.

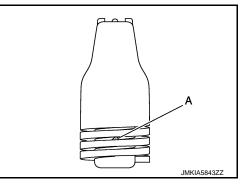
					Unit: mm (in)
Portion				Standard	Difference (LH/RH, MAX)
Roof panel – Back door	A – A	D	Clearance	5.0 – 7.0 (0.197 – 0.276)	_
		Ε	Surface height	0.9 – 2.9 (0.035 – 0.114)	_

< REMOVAL AND INSTALLATION >

Portion				Standard	Difference (LH/RH, MAX)
Rear combination lamp – Back door glass	B – B	F	Clearance	2.8 – 7.2 (0.110 – 0.283)	<2.0 (0.079)
Rear bumper fas- cia – Back door	C – C	G	Clearance	6.0 - 10.0 (0.236 - 0.394)	_
		н	Surface height	(-2.5) – (+1.0) [(-0.098) – (+0.039)]	_

FITTING ADJUSTMENT PROCEDURE

- 1. Loosen back door striker mounting bolts.
- 2. Loosen back door hinge mounting nuts (back door side).
- 3. 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. Screw bumper rubber (upper) into the stopper position (A), and then loosen by a half turn.
- 6. Screw bumper rubber (lower) into the end position of threads.



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CAUTION:

After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.

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 luggage rear plate. Refer to INT-30, "LUGGAGE REAR PLATE : Removal and Installation".
- 2. Remove TORX bolts, and then remove back door striker.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-581, "BACK DOOR ASSEMBLY :</u> <u>Adjustment"</u>.

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

REMOVAL

- 1. Remove back door assembly. Refer to <u>DLK-578, "BACK DOOR ASSEMBLY : Removal and Installation"</u>.
- 2. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

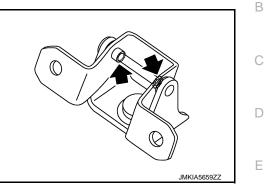
INSTALLATION

DLK-582

< REMOVAL AND INSTALLATION >

Note the following items, and install in the reverse order of removal. CAUTION:

- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to DLK-581, "BACK DOOR ASSEMBLY : Adjustment".
- · 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

REMOVAL

- Remove luggage side upper finisher and rear pillar cap. Refer to INT-32, "LUGGAGE SIDE UPPER FIN-1. ISHER : Removal and Installation".
- 2. Support the back door with the suitable material to prevent it from falling.

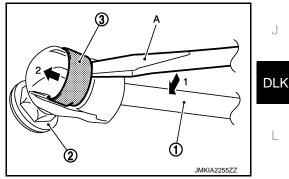
WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

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

Be careful not to damage painted surface.

5. Remove back door stay (back door side).



6. Remove mounting bolts, and then remove back door stay lower bracket.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- After installation, check back door open/close, lock/unlock operation.

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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.
 - A: 20 mm (0.787 in)
 - **B:** Cut at the groove.



BACK DOOR WEATHER-STRIP : Removal and Installation

REMOVAL

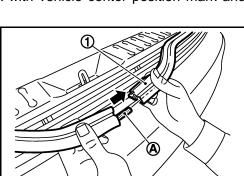
Pull up and remove engagement with body from weather-strip joint.

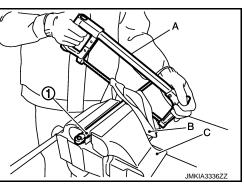
CAUTION:

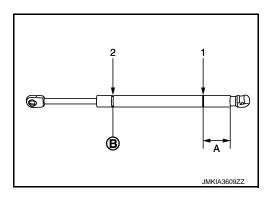
Never pull strongly on weather-strip.

INSTALLATION

- 1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.
- 2. For the lower section, insert pad (A) into weather-strip (1), and then fix the connection point.







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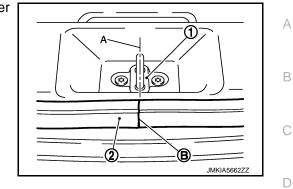
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< REMOVAL AND INSTALLATION >

[TYPE 4]

3. 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 fits tightly in each corner and luggage rear plate.

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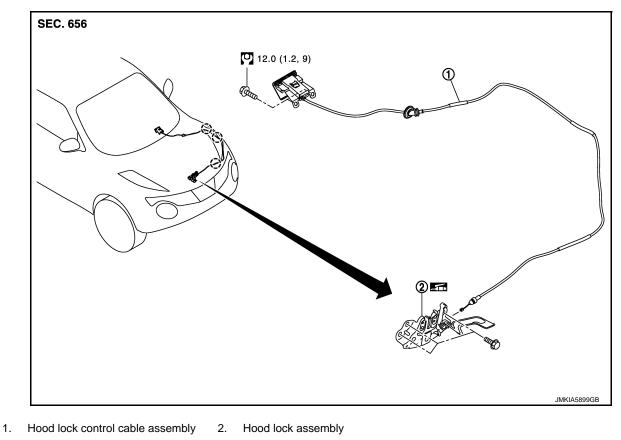
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< REMOVAL AND INSTALLATION > HOOD LOCK

Exploded View

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- ([^]) : Clip
- : N·m (kg-m, ft-lb)

: Body grease

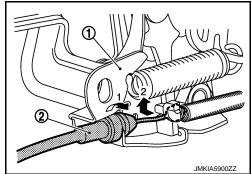
HOOD LOCK

HOOD LOCK : Removal and Installation

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REMOVAL

- 1. Remove front center grille. Refer to EXT-18. "Removal and Installation".
- 2. Remove crash zone sensor. Refer to SR-26, "Removal and Installation".
- 3. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
- 4. Disconnect hood lock control cable assembly (2) from hood lock assembly (1).



HOOD LOCK

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- Check that hood lock control cable is properly engaged with hood lock.
 After installation, perform hood fitting adjustment. Refer to <u>DLK-556, "HOOD ASSEMBLY : Adjustment"</u>.
- After installation, perform hood lock control inspection. Refer to <u>DLK-587, "Inspection"</u>.
 HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Removal and Installation

Note the following items, and install in the reverse order of removal.

REMOVAL

CAUTION:

- 1. Disconnect hood lock control cable assembly from hood lock assembly.
- 2. Remove fender protector (LH). Refer to EXT-22, "Removal and Installation".
- 3. Remove hood lock cable clip.
- Remove hood lock control cable assembly of instrument lower panel (LH), and then remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).

5. Remove grommet on the lower dash, and pull the hood lock control cable toward the passenger compartment.

CAUTION:

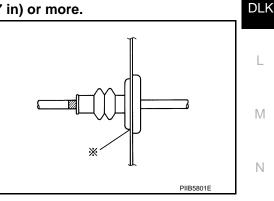
While pulling, never to damage (peeling) the outside of hood lock control cable.

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-556, "HOOD ASSEMBLY : Adjust-ment"</u>.
- After installation, perform hood lock control inspection. Refer to <u>DLK-587, "Inspection"</u>.

Inspection

NOTE:

If the hood lock cable is bent or deformed, replace it.

- 1. Check that secondary latch is securely engaged with securely striker from the dead load of the hood assembly.
 - **DLK-587**

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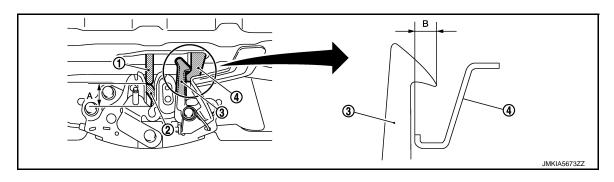
HOOD LOCK

< REMOVAL AND INSTALLATION >

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].

Never free-fall hood assembly from a height of 300 (11.811 in) mm or more.

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.

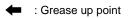


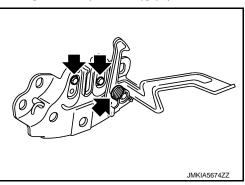
Primary striker
 Secondary striker

2.

2. Primary latch

- 3. Secondary latch
- 4. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).
- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

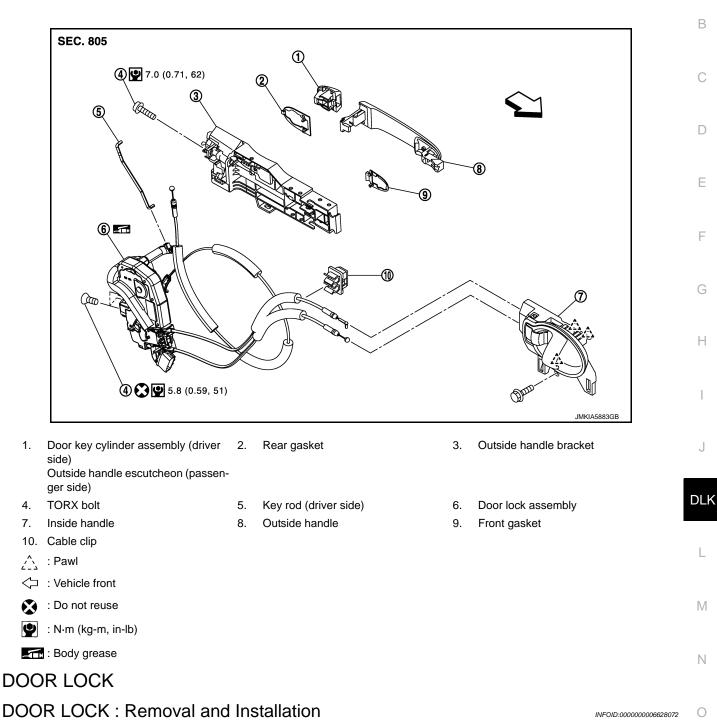




FRONT DOOR LOCK

Exploded View

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REMOVAL

- 1. Remove front door glass and front door lower sash (rear). Refer to <u>GW-17, "Removal and Installation"</u>.
- 2. Remove inside handle. Refer to <u>DLK-590, "INSIDE HANDLE : Removal and Installation"</u>.
- 3. Disengage inside handle cable and lock knob cable from cable clip.
- 4. Remove outside handle bracket. Refer to DLK-590, "OUTSIDE HANDLE : Removal and Installation".
- 5. Remove door lock assembly TORX bolts.
- 6. Disconnect door lock actuator connector, and then remove door lock assembly.

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DLK-589

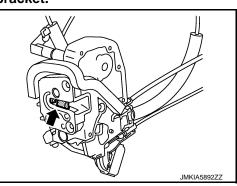
FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

INSTALLATION

Note the following items, and install in the reverse order of removal.

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- 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



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INSIDE HANDLE

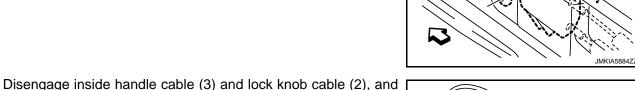
INSIDE HANDLE : Removal and Installation

REMOVAL

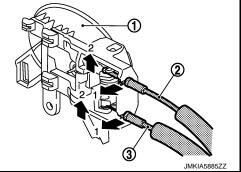
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- 1. Remove front door finisher. Refer to INT-13, "Removal and Installation".
- 2. Remove inside handle mounting bolt (A).
- 3. Disengage inside handle (1) from door panel (2) while sliding inside handle toward vehicle rear, and then separate inside handle.
 - <□ : Vehicle front

then remove inside handle (1).



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INSTALLATION Note the following item, and install in the reverse order of removal. CAUTION: Check door open/close, lock/unlock operation after installation. OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

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REMOVAL

- 1. Fully close the front door glass.
- 2. Remove front door finisher. Refer to INT-13. "Removal and Installation".

DLK-590

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(2)

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

3. Remove sealing screen. NOTE:

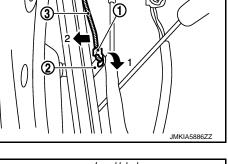
Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

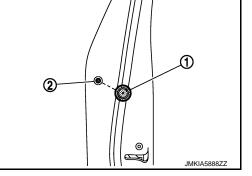
4. Disengage lock holder (1), and then separate key rod (3) from door lock assembly (2).(Driver side)

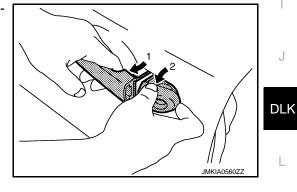
Remove grommet (1) of door side. Loosen, through grommet 5. hole, TORX bolt (2) that fixes door lock cylinder. (For passenger side, TORX bolt fixes outside handle escutcheon.)

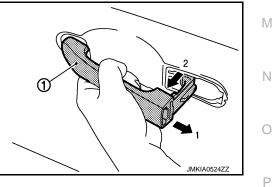
6. While pulling outside handle, remove door key cylinder assembly (diver side) or outside handle escutcheon (passenger side).

7. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.









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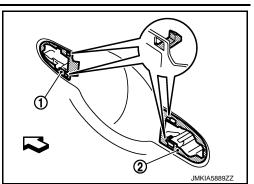
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FRONT DOOR LOCK

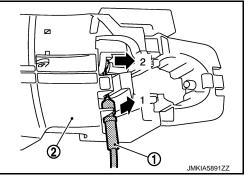
< REMOVAL AND INSTALLATION >

- 8. Remove front gasket (1) and rear gasket (2).



- 10. Disconnect outside handle cable (1) from outside handle bracket (2).

9. Slide outside handle bracket toward rear of vehicle to remove.



INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

- When installing key rod, rotate key rod holder until a click is felt.
- Check that door lock cables are normally engaged with inside handle and outside handle.
- After installation, check door open/close, and lock/unlock operation.

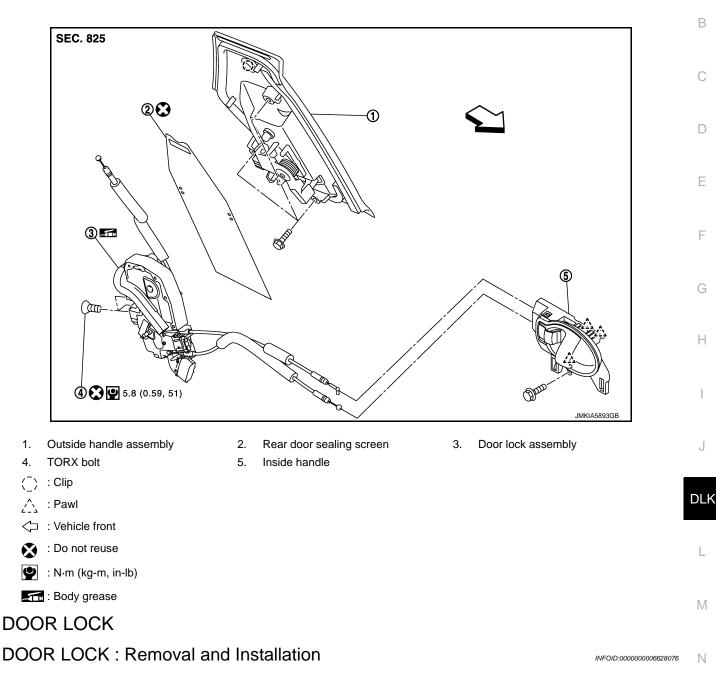
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

REAR DOOR LOCK

Exploded View

INFOID:000000006628075



REMOVAL

- 1. Remove rear door glass and rear door lower sash (rear). Refer to <u>GW-21, "Removal and Installation"</u>.
- 2. Remove inside handle. Refer to <u>DLK-594, "INSIDE HANDLE : Removal and Installation"</u>.
- Remove outside handle. Refer to <u>DLK-594</u>, "OUTSIDE HANDLE : Removal and Installation".
- 4. Remove door lock assembly TORX bolts.
- 5. Disconnect door lock actuator connector, and then remove door lock assembly.

INSTALLATION

Note the following items, and install in the reverse order of removal. **CAUTION:**

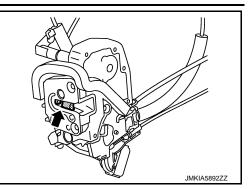
- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- Check door open/close, lock/unlock operation after installation.

DLK-593

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- Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.
 - : Grease up point



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INSIDE HANDLE

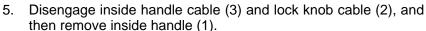
INSIDE HANDLE : Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-16, "Removal and Installation".
- 2. Remove upper 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. Remove inside handle mounting bolt (A).
- 4. Disengage inside handle (1) from door panel (2) while sliding inside handle toward vehicle rear, and then separate inside handle.



cable (2), and

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INSTALLATION Note the following item, and install in the reverse order of removal. CAUTION: Check door open/close, lock/unlock operation after installation. OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

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REMOVAL

- 1. Remove rear door finisher and rear door corner cover inner. Refer to INT-16, "Removal and Installation".
- 2. Remove rear door sealing screen.

DLK-594

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REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

- 3. Rotate stopper (1) upward.
- 4. Disengage outside handle cable (2), and then remove outside handle cable from outside handle assembly (3).

Remove outside handle assembly mounting bolts (A). 5.

6. Disengage mounting clips using a remover tool (A), and then remove outside handle assembly. CAUTION:

Apply protective tape (B) on the door panel to protect the painted surface from damage.

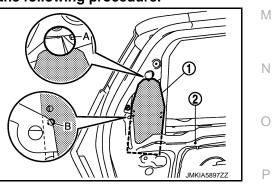
() : Clip

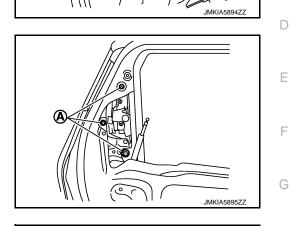
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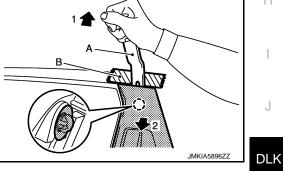
INSTALLATION

Note the following items, and install in the reverse order of removal. CAUTION:

- Never reuse rear door sealing screen. Always replace it with a new one when it is removed. When installing rear door sealing screen, install it according to the following procedure.
- Put lower portion of rear door sealing screen (1) into inside of door panel (2).
- Perform positioning according to the following procedure, and then install rear door sealing screen.
- Align upper portion of rear door sealing screen to hole (A) of door panel as shown in the figure.
- Align hole of rear door sealing screen to edge (B) of door panel as shown in the figure.
- Be careful to position outside handle cable normally when installing it. For details, refer to <u>DLK-593</u>. "Exploded View".
- Check door open/close, lock/unlock operation after installation.







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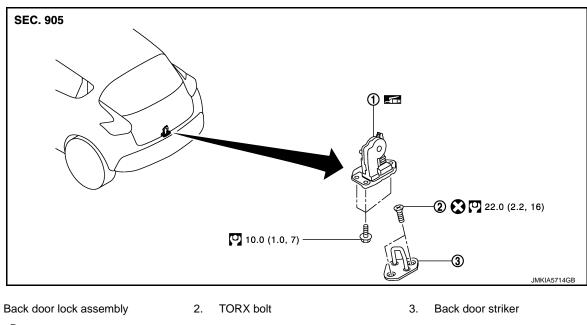
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BACK DOOR LOCK

< REMOVAL AND INSTALLATION > BACK DOOR LOCK

Exploded View

INFOID:000000006600682



- : Do not reuse
- : N·m (kg-m, ft-lb)
- : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000006600683

REMOVAL

1.

- 1. Remove the back door lower finisher. Refer to <u>INT-35, "BACK DOOR LOWER FINISHER : Removal and Installation"</u>.
- 2. Remove back door lock assembly mounting bolts.
- 3. Disconnect back door lock connector, and then remove back door lock assembly.

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, check back door open/close, and lock/unlock operation. EMERGENCY LEVER

EMERGENCY LEVER : Unlock procedures

INFOID:000000006600684

UNLOCK PROCEDURES

NOTE:

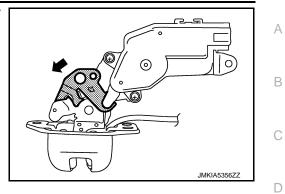
If back door lock cannot be unlocked due to a malfunction or battery discharge, follow the procedures to unlock back door.

1. Remove emergency lid. Refer to INT-36, "EMERGENCY LID : Removal and Installation".

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

2. From inside the vehicle, rotate emergency lever toward lower direction and unlock.





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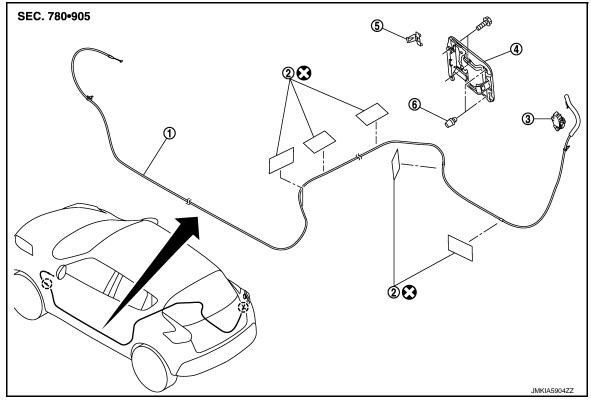
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DLK-597

[TYPE 4]

FUEL FILLER LID OPENER

Exploded View



- Fuel filler lid opener cable 1. Fuel filler lid assembly
- 2. Cable protector 5. Spring

- Fuel filler lid lock assembly 3.
- 6. Bumper rubber

 $(\overline{})$: Clip

4.

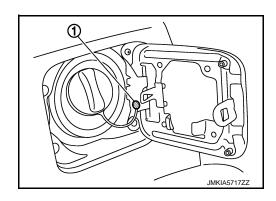
- : Do not reuse
- FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000006600686

REMOVAL

- 1. Fully open fuel filler lid.
- Remove fuel mounting pin (1). 2.



Remove mounting screws, and then remove fuel filler lid. 3.

INSTALLATION

Note the following items, and install in the reverse order of removal.

DLK-598

INFOID:000000006628079

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

• After installation, apply the touch-up paint (the body color) onto the head of the mounting screws. NOTE:

- The following table shows the specifide values for checking nomal installation status.
- Fitting adjustment cannot be perfored.

Unit: mm (in)

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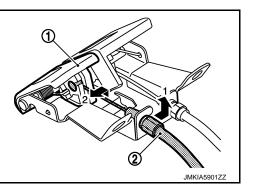
	Clearance	Evenness
Fuel filler lid – Body side outer	2.0 - 4.0 (0.079 - 0.157)	(-1.0) - (+1.0) [(-0.039) - (+0.039)]

FUEL FILLER OPENER CABLE

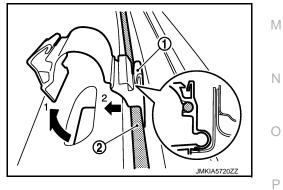
FUEL FILLER OPENER CABLE : Removal and Installation

REMOVAL

- 1. Remove hood lock control cable assembly from instrument lower panel (LH). Refer to <u>DLK-587, "HOOD</u> <u>LOCK CONTROL CABLE : Removal and Installation"</u>.
- 2. Remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).



- Remove front kicking plate inner (LH) and rear kicking plate inner (LH and RH). Refer to <u>INT-19, "KICK-ING PLATE INNER : Removal and Installation"</u>.
- 4. Remove dash side finisher (LH). Refer to INT-20, "DASH SIDE FINISHER : Removal and Installation".
- 5. Remove center pillar lower garnish (LH). Refer to <u>INT-20, "CENTER PILLAR LOWER GARNISH Removal and Installation"</u>.
- Remove luggage side lower finisher (RH). Refer to <u>INT-31, "LUGGAGE SIDE LOWER FINISHER</u> <u>Removal and Installation"</u>.
- Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to <u>DLK-600, "FUEL FILLER LID</u> <u>LOCK : Removal and Installation"</u>.
- 8. Disengage each harness protector (1), and then remove fuel filler lid opener cable (2).



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.

After installation, check fuel filler lid assembly open/close, lock/unlock operation. FUEL FILLER LID LOCK

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FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

FUEL FILLER LID LOCK : Removal and Installation

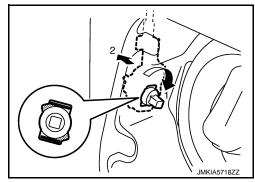
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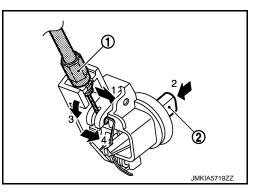
REMOVAL

- 1. Fully open fuel filler lid.
- 2. Remove luggage side lower finisher (RH). Refer to <u>INT-31, "LUGGAGE SIDE LOWER FINISHER :</u> <u>Removal and Installation"</u>.
- 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.



4. Disengage fuel filler lid opener cable (1). Remove fuel filler lid opener cable while pressing stopper pin (2).



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.

DOOR SWITCH

< REMOVAL AND INSTALLATION > DOOR SWITCH

Exploded View

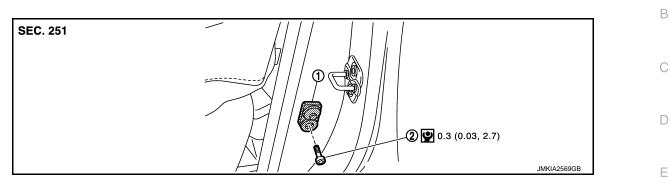
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[TYPE 4]

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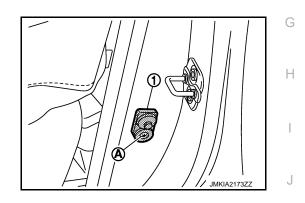
1. Door switch

2. TORX bolt

Removal and Installation

REMOVAL

Remove the TORX bolt (A), and then remove door switch (1).



INSTALLATION Install in the reverse order of removal.

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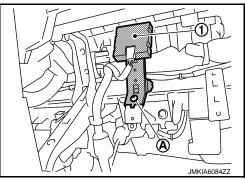
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REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

REMOVAL

- 1. Remove the glove box assembly. Refer to IP-13. "Removal and Installation".
- 2. Remove the remote keyless entry receiver (1) mounting bolt (A), and then remove remote keyless entry receiver.



INSTALLATION Install in the reverse order of removal. INFOID:000000006620636

KEYFOB BATTERY

< REMOVAL AND INSTALLATION >

KEYFOB BATTERY

Exploded View							
SEC. 998				В			
	2			С			
3				D			
				E			
5				F			
1. Upper case	2. Key	3. Switch cover	JMKIA1442ZZ	G			
 Switch rubber plate 	 Board surface Lower case 	6. Battery 9. Screw		Н			
Removal and Installation	Removal and Installation						
REMOVAL							
 Remove screw (9) on the rear of keyfob. Place the key with the lower case (8) facing up. Set a screw-driver wrapped with tape between upper case (1) and lower case (8) and then separate the lower case (8) from the upper case (1). CAUTION: 							
 Do not touch the circuit board or battery terminal. The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry. When replacing the circuit board assembly, remove circuit board assembly from the upper case (1). [Circuit board assembly: Switch rubber (4) + Board surface (5)] CAUTION: 							
 Do not touch the printed circuits directly. 4. Remove the battery (6) from the lower case (8) and replace it. 							
	n-type lithium bat 620)	tery		\mathbb{M}			
CAUTION: When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact							
 area. 5. After replacement, fit the lower and upper cases together, part (4), (7) and tighten with the screw. CAUTION: 							
After replacing the battery, Be sure to check that door locking operates normally using the keyfob. Refer to <u>DLK-528, "Component Function Check"</u> .							
INSTALLATION							

INSTALLATION

Install in the reverse order of removal.

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