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PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

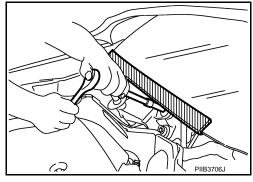
WARNING:

Always observe the following items for preventing accidental activation.

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

Precaution for Procedure without Cowl Top Cover

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



Work

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

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PREPARATION

PREPARATION

Special Service Tools

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

To (Ken To	Description	
(J-39570) Chassis ear	SIIAO993E	Locates the noise
(J-43980) NISSAN Squeak and Rat- tle Kit	SIIA0994E	Repairs the cause of noise

Commercial Service Tools

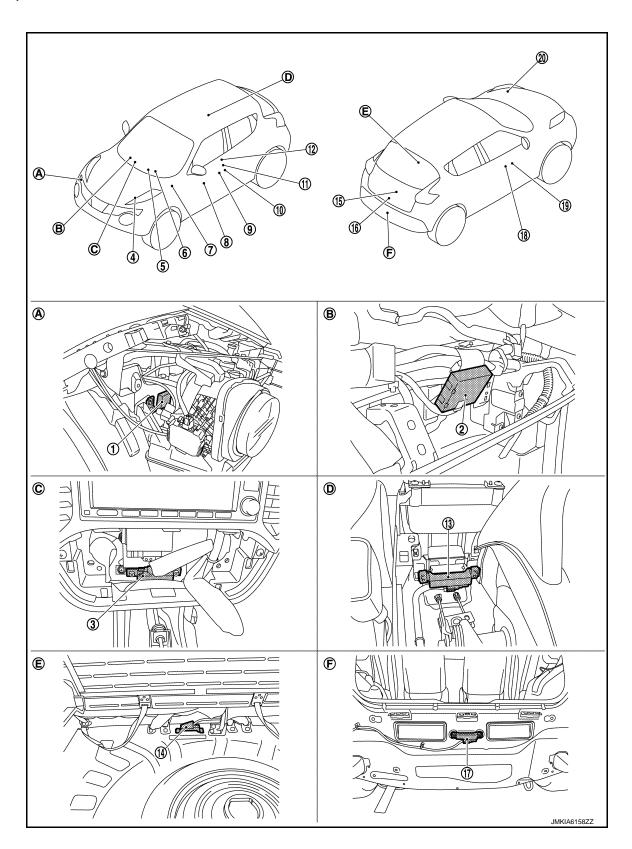
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	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	JMKIA3050ZZ	Removes the clips, pawls, and metal clips
Power tool		
	PIIB1407E	

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

1.	Intelligent Key warning buzzer	2.	Remote keyless entry receiver	3.	Inside key antenna (instrument center)
4.	TCM Refer to TM-69, "CVT CONTROL SYSTEM: Component Parts Location"	5.	Push-button ignition switch	6.	Combination meter
7.	BCM Refer to BCS-6, "BODY CONTROL SYSTEM: Component Parts Location"	8.	Power window main switch	9.	Outside key antenna (driver side)
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
16.	Back door lock assembly	17.	Outside antenna (rear bumper)	18.	Front door request switch (passenger side)
19.	Outside key antenna (passenger side)	20.	IPDM E/R Refer to PCS-5, "Component Parts Location"		
A.	View with front bumper removed	B.	View with instrument panel assembly removed	C.	View with multi display unit removed
D.	View with center console assembly removed	E.	View with luggage room finisher removed	F.	View with rear bumper removed

Component Description

NFOID:0000000008275489

Item	Function						
ВСМ	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 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 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.						
IPDM E/R	Sounds horn via CAN communication between BCM.						
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.						
TCM	Transmits shift position signal to BCM via CAN communication line						

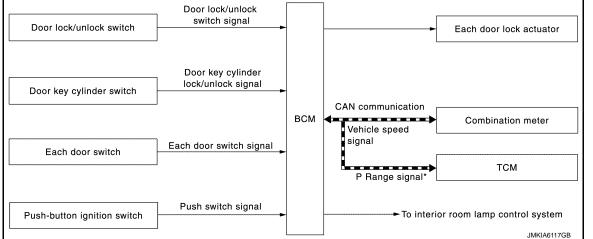
SYSTEM (POWER DOOR LOCK SYSTEM)

System Diagram

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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.
- 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.

Door Key Cylinder Switch

- With the mechanical key inserted in the door key cylinder on driver side, turning it to lock position, locks door lock actuator of all doors.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to unlock position once unlocks the driver side door, turning it to unlock position again within 5 seconds after the first unlock operation unlocks all of the other doors actuator. (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using CONSULT.

Refer to DLK-28, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

IGNITION POSITION WARNING FUNCTION

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

INTERIOR ROOM LAMP CONTROL FUNCTION

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

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

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

Vehicle Speed Sensing Auto Door Lock

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

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

P Range Interlock Door Lock*

All doors are locked when shifting the selector lever from the P position to any position other than P.

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

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SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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.

(P) With CONSULT

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

W Without CONSULT

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

- 1. Close all doors (door switch OFF)
- Ignition switch: OFF→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.

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

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

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

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.

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.

(P) With CONSULT

The ON/OFF switching of the automatic door lock/unlock function and the type selection of the automatic door lock/unlock function can be performed at the WORK SUPPORT setting of CONSULT. Refer to <u>DLK-28</u>, <u>"DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)"</u>.

Without CONSULT

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

- 1. Close all doors below (door switch OFF)
- 2. Ignition switch: OFF→ON
- 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.

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

^{*:} This function does not operate on M/T models.

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

^{*2:} This function does not operate on M/T models.

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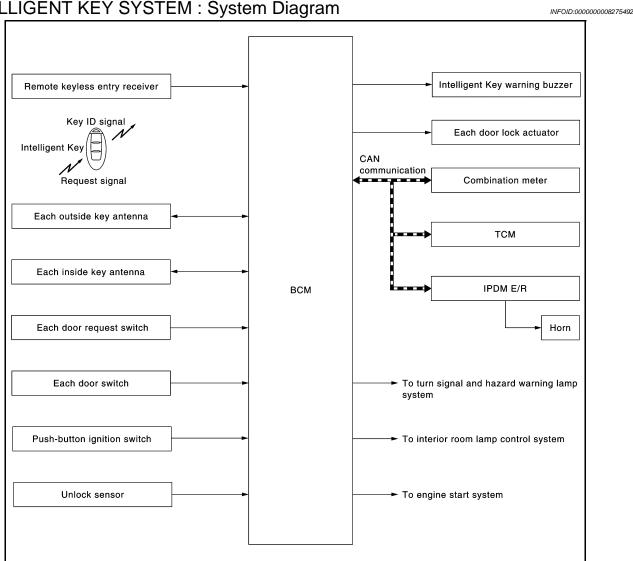
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SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

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).

The driver should always carry the Intelligent Key

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

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the request switch	DLK-16
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key	DLK-20
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle	DLK-22

< SYSTEM DESCRIPTION >

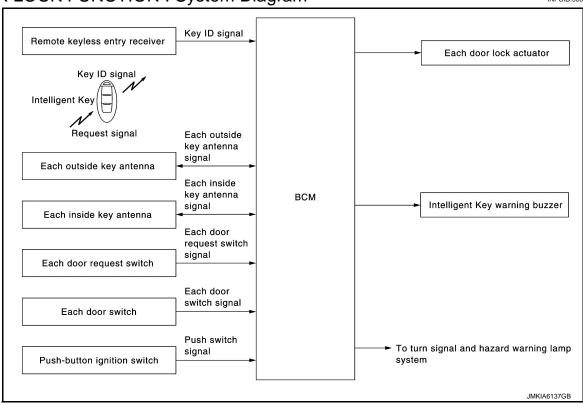
[WITH INTELLIGENT KEY SYSTEM]

Function	Description	Refer
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-23
Engine start	The engine can be turned on while carrying the Intelligent Key	SEC-12
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state	INL-6
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds	SEC-18

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION: System Diagram

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DOOR LOCK FUNCTION: System Description

INFOID:0000000008275495

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 transmits door lock/unlock signal and operates each door lock actuator. At the same time, BCM blinks hazard warning lamp (lock: 2 times, unlock: 1 time) and sounds Intelligent Key buzzer (lock: 2 times, unlock: 1 time) as a reminder.

OPERATION CONDITION

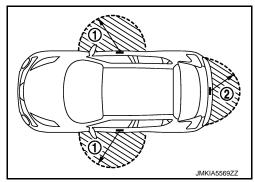
If the following conditions are satisfied, door lock/unlock operation is performed if the door request switch is operated.

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

^{*:} Even with a registered Intelligent Key remaining inside the vehicle, door locks can be 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.



SELECTIVE UNLOCK 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 60 seconds, all door unlocks.
- When an UNLOCK signal from front door request switch (passenger side) is transmitted, passenger side door unlocks. When another UNLOCK signal is transmitted within 60 seconds, all door unlocks.
- When an UNLOCK signal from back door request switch is transmitted, back door unlocks. When another UNLOCK signal is transmitted within 60 seconds, all door unlocks.

How to Change Selective Unlock Operation Mode

Selective unlock operation mode can be changed using CONSULT.

Refer to DLK-30, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

HAZARD AND BUZZER REMINDER FUNCTION

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

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

Operating Function of Hazard and Buzzer Reminder

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

Hazard and buzzer reminder does not operate if ignition switch ON position.

How to Change Hazard and Buzzer Reminder Operation Mode

Hazard and buzzer reminder operation mode can be changed using CONSULT.

Refer to DLK-30, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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

How To Change Auto Door Lock Operation Mode

Auto door lock operation mode can be changed using CONSULT.

Refer to DLK-30, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

LIST OF OPERATION RELATED PARTS

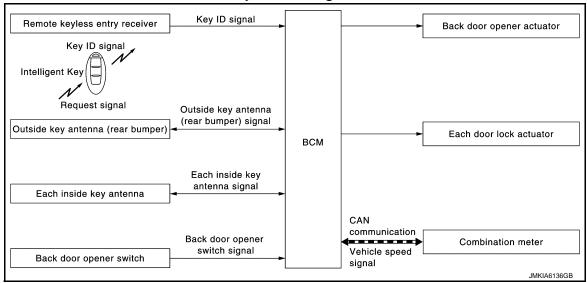
Parts marked with \times are the parts related to operation.

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

BACK DOOR OPEN FUNCTION

BACK DOOR OPEN FUNCTION: System Diagram

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BACK DOOR OPEN FUNCTION: System Description

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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

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- 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 selective unlock mode, only back door opens. All doors do not unlock.

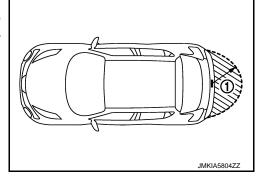
OPERATION CONDITION

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.

Door lock function	Intelligent Key	Remote keyless entry receiver	Back door opener actuator	Door lock actuator	Inside key antenna	Outside key antenna	CAN communication system	BCM	Back door opener switch	Combination meter
Back door open function	×	×	×	×	×	×	×	×	×	×

REMOTE KEYLESS ENTRY FUNCTION

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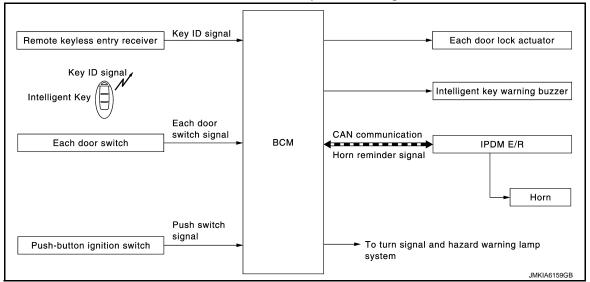
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REMOTE KEYLESS ENTRY FUNCTION: System Diagram

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REMOTE KEYLESS ENTRY FUNCTION: System Description

INFOID:0000000008275499

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
- Selective unlock 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.
- When BCM receives the door lock/unlock signal, it operates all door lock actuators and the hazard lamp (lock: 2 times, unlock: 1 time) and horn chirp signal to IPDM E/R at the same time as a reminder.
- IPDM E/R honks horn (lock: 1 times) as a reminder

OPERATION CONDITION

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

Remote controller operation	Operation condition					
Lock	Panic alarm is not activatedP position warning is not activated					
Unlock	Panic alarm is not activated					

SELECTIVE UNLOCK 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 60 seconds, all other doors are unlocked.

How To Change Selective Unlock Operation Mode

Selective unlock operation mode can be changed using CONSULT.

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Refer to DLK-28, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

HAZARD AND HORN REMINDER FUNCTION

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

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

Operating Function of Hazard and Horn Reminder

		C mode		S mode				
Intelligent Key operation	Lock	Unlock	Back door open	Lock	Unlock	Back door open		
Hazard warning lamp blinks	Twice	Once	_	Twice	_	_		
Horn sound	Once	_	_	_	_	_		

Hazard and horn reminder does not operate if ignition switch ON position.

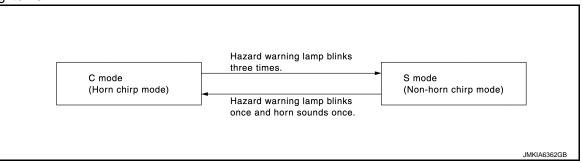
How to change hazard and horn reminder mode

(II) With CONSULT

Refer to DLK-30, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

Without CONSULT

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



AUTO DOOR LOCK FUNCTION

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

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

How To Change Auto Door Lock Operation Mode

Auto door lock operation mode can be changed using CONSULT.

Refer to DLK-30, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

LIST OF OPERATION RELATED PARTS

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

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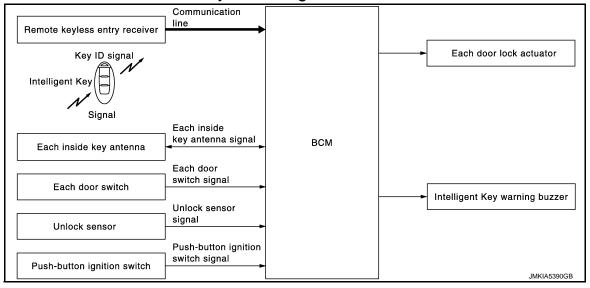
[WITH INTELLIGENT KEY SYSTEM]

Remote keyless entry functions	Intelligent Key	Door switch	Door lock actuator	Push-button ignition switch	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Hazard warning lamp	Horn	IPDM E/R
Door lock/unlock function	×	×	×			×	×				
Hazard and horn reminder function	×				×	×	×	×	×	×	×
Selective unlock function	×	×	×			×	×				
Auto door lock function	×	×		×		×	×				

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION: System Diagram

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KEY REMINDER FUNCTION : System Description

INFOID:0000000008275501

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

Key remainder func- tion	Operation condition				
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			
Door is open to closed	Right after all doors are closed under the following conditions Intelligent Key is inside the vehicle Any door is opened All doors are locked.	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 warning buzzer			

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

*: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:0000000008275502

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/Info	rmation functions	Operation procedure
Intelligent Key system n	nalfunction	A malfunction is detected on BCM and key warning lamp turns ON
OFF position warning	For internal	When condition A, B or condition C is satisfied Condition A Ignition switch: ACC position Door switch (driver side): ON (Door is open) Condition B Turn ignition switch from ON to OFF while door is open Condition C Intelligent Key backside is contacted to ignition switch while brake pedal is depressed and ignition switch is LOCK or OFF (When the Intelligent Key battery is discharged) Door switch (driver side): ON (Door is open)
	For external*	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

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning/Inform	nation functions	Operation procedure				
	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 warn	ing	When door lock operation is requested while door lock operating condition of door request switch not satisfied				
Engine start information	Ignition switch is ON position	 Ignition switch: ON position Shift position: P position* Engine is stopped 				
Ignition switch is except ON position		 Ignition switch: Except ON position Shift position: P position* Intelligent Key can be detected inside the vehicle 				
Intelligent Key low batter	y warning	BCM detects that Intelligent Key is low battery, after ignition switch is turned ON				
Key ID warning		Push-button ignition switch is pressedRegistered 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	g chime	Engine start	
Warning/Information functions		"KEY" warn- ing lamp	warning lamp	Combination meter buzzer	Intelligent Key warning buzzer	operation indicator lamp	
Intelligent Key system ma	alfunction	Indicate	_	_	_		
OFF position warning	For internal	_	_	Activate	_	_	
Of F position warning	For external*	_	_	_	Activate	_	
P position warning*	For internal	Blink (yellow)	Indicate	Activate	_		
P position warning	For external	billik (yellow)	_	_	Active	_	
ACC warning*		_	_	Activate	_	_	
	Door is open to close		_	Activate	Activate	_	
Take away warning	Door is open	Blink (yellow)	_	_	_	_	
Push-ignition switch operation			_	Activate	_	_	
Door lock operation warning		_	_	_	Activate	_	
Key ID warning		Blink (yellow)	_	_	_	_	
Engine start information		_	_	_	_	Indicate	
Intelligent Key low batter	y warning	Blink (green)	_	_	_	_	

^{*:} M/T models do not apply.

LIST OF OPERATION RELATED PARTS

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

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning function Intelligent Key system malfunction		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	Intelligent Key system malfunction									×	×			×
OFF position warning	For internal			×					×	×	×			
Of a position warning	For external			×				×			×			
P position warning	P position warning		×						×	×	×	×		×
ACC warning			×						×	×	×			
	Door is open or close	×		×		×		×	×	×	×			×
Take away warning	Door is open	×		×		×				×	×			×
rane and manning	Push-button ignition switch operation	×	×			×			×	×	×			×
Door lock operation warning		×		×	×	×	×	×			×			
Key ID warning			×			×				×	×			×
Engine start information		×	×			×				×	×		×	
Steering lock information			×							×	×			
Intelligent Key low batte	ery warning	×				×				×	×			×

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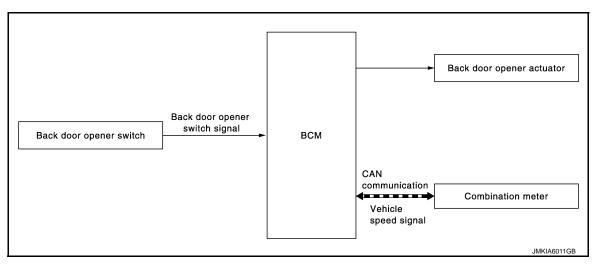
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BACK DOOR OPENER SYSTEM

System Diagram



System Description

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

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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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

NOTE:

FREEZE FRAME DATA (FFD)

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

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^{*:} For models with automatic A/C, this diagnosis mode is not used.

[WITH INTELLIGENT KEY SYSTEM]

CONSULT screen item	Indication/Unit	Description				
Vehicle Speed	km/h	Vehicle speed of the mo	ment a particular DTC is detected			
Odo/Trip Meter	km	Total mileage (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 position is "LOCK"*.)			
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power position is "OFF".)			
	LOCK>ACC		While turning power position from "LOCK"* *to "ACC"			
	ACC>ON		While turning power position from "ACC" to "IGN"			
	RUN>ACC		While turning power position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)			
	CRANK>RUN	Power position status of the moment a particular DTC is detected	While turning power position from "CRANKING" to "RUN" (From cranking up the engine to run it)			
	RUN>URGENT		While turning power position from "RUN" to "ACC" (Emergency stop operation)			
	ACC>OFF		While turning power position from "ACC" to "OFF"			
Vehicle Condition	OFF>LOCK		While turning power position from "OFF" to "LOCK"*			
	OFF>ACC		While turning power position from "OFF" to "ACC"			
	ON>CRANK		While turning power position from "IGN" to "CRANKING"			
	OFF>SLEEP		While turning BCM status from normal mode (Power position is "OFF".) to low power consumption mode			
	LOCK>SLEEP		While turning BCM status from normal mode (Power position is "LOCK"*.) to low power consumption mode			
	LOCK		Power position is "LOCK"*			
	OFF		Power position is "OFF" (Ignition switch OFF)			
	ACC		Power position is "ACC" (Ignition switch ACC)			
	ON		Power position is "IGN" (Ignition switch ON with engine stopped)			
	ENGINE RUN		Power position is "RUN" (Ignition switch ON with engine running)			
	CRANKING		Power 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 switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 				

NOTE:

- *: Power position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models and CVT models), and any of the following conditions are met.
- Closing door
- · Opening door
- · Door is locked using door request switch
- Door is locked using Intelligent Key

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

DOOR LOCK

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000008275506

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

WORK SUPPORT

[WITH INTELLIGENT KEY SYSTEM]

Monitor item	Description
DOOR LOCK-UNLOCK SET	Anti-hijack function mode can be changed to operation with this mode On: Operate Off: 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 24km/h (15MPH) • P RANGE*: All doors are locked when shifting the selector lever from P position to other than the P position
AUTOMATIC DOOR UNLOCK SELECT	 Automatic door unlock function mode can be selected from the following in the mode MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2*: All doors are unlocked when shifting the selector lever from any position other than the P to P position MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 4*: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position 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

NOTE:

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

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

ACTIVE TEST

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 screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT screen is touched The door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT screen is touched The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT screen is touched

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DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000008275507

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 mode On: Operate Off: Non-operation	
TRUNK/GLASS HATCH OPEN	NOTE: This item is displayed, but cannot be monitored	
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode On: Operate Off: Non-operation	
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode • MODE 1: 0.5 sec • MODE 2: Non-operation • MODE 3: 1.5 sec	
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	
SHORT CRANKING OUTPUT	Starter motor can operate during the times below	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor item	Description	
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode	
AUTO LOCK SET	Auto door lock operation time can be changed in this mode • MODE 1: OFF • MODE 2: 30 sec • MODE 3: 1 minute • MODE 4: 2 minutes • MODE 5: 3 minutes • MODE 6: 4 minutes • MODE 7: 5 minutes	

SELF-DIAG RESULT

Refer to BCS-59, "DTC Index".

DATA MONITOR

NOTE:

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

Monitor Item	Condition	
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)	
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)	
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch	
PUSH SW	Indicates [On/Off] condition of push-button ignition switch	
CLUTCH SW*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	
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	NOTE: This item is displayed, but cannot be monitored	
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored	
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored	
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h]	
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [Km/h]	
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of 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	

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[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored	
RKE-LOCK	ndicates [On/Off] condition of LOCK signal from Intelligent Key	
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key	
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored	
RKE-PANIC	Indicates [On/Off] condition of PANIC button of Intelligent Key	
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key	
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent 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.

ACTIVE TEST

Test item	Description	
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation On: Operate Off: Non-operation	
INSIDE BUZZER	This test is able to check warning chime in combination meter operation Take Out: Take away warning chime sounds when CONSULT screen is touched Key: Key warning chime sounds when CONSULT screen is touched Knob: OFF position warning chime sounds when CONSULT screen is touched Off: Non-operation	
INDICATOR	This test is able to check warning lamp operation KEY ON: "KEY" Warning lamp illuminates when CONSULT screen is touched KEY IND: "KEY" Warning lamp blinks when CONSULT screen is touched Off: Non-operation	
INT LAMP	This test is able to check interior room lamp operation On: Operate Off: Non-operation	
LCD	This test is able to check meter display information BP N: Engine start operation indicator lamp indicate when CONSULT screen is touched BP I: Engine start operation indicator lamp indicate when CONSULT 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 screen is touched INSRT: This item is displayed, but cannot be monitored BATT: Key warning lamp indicator when CONSULT screen is touched NO KY: Key warning lamp indicator when CONSULT screen is touched OUTKEY: Engine start operation indicator lamp indicate when CONSULT screen is touched LK WN: Engine start operation indicator lamp indicate when CONSULT 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 screen is touched	
HORN	This test is able to check horn operation The horn is activated after "ON" on CONSULT 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 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 screen is touched	

 $^{^{\}star 2}$: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT 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 screen is touched.

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000008275508

DATA MONITOR

NOTE:

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

Monitor Item	Contents	
PUSH SW	Indicates [On/Off] condition of push switch	
UNLK SEN -DR	ndicates [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	

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ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

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ECU	Reference
	BCS-36, "Reference Value"
BCM	BCS-57, "Fail-safe"
BOW	BCS-58, "DTC Inspection Priority Chart"
	BCS-59, "DTC Index"

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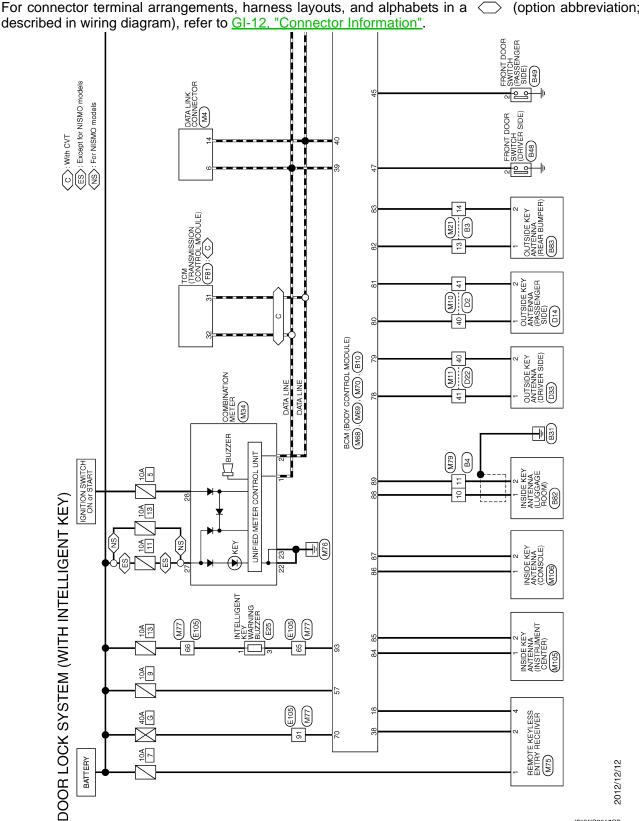
JRKWC2817GB

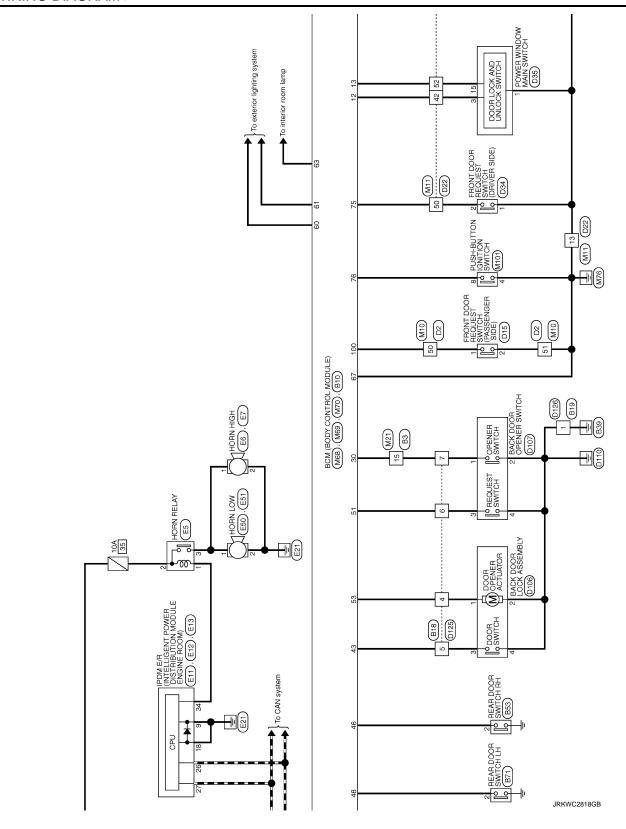
WIRING DIAGRAM

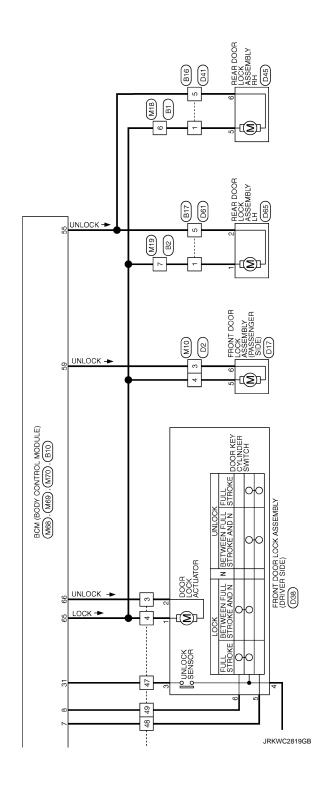
DOOR & LOCK SYSTEM

Wiring Diagram INFOID:0000000008275510

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not







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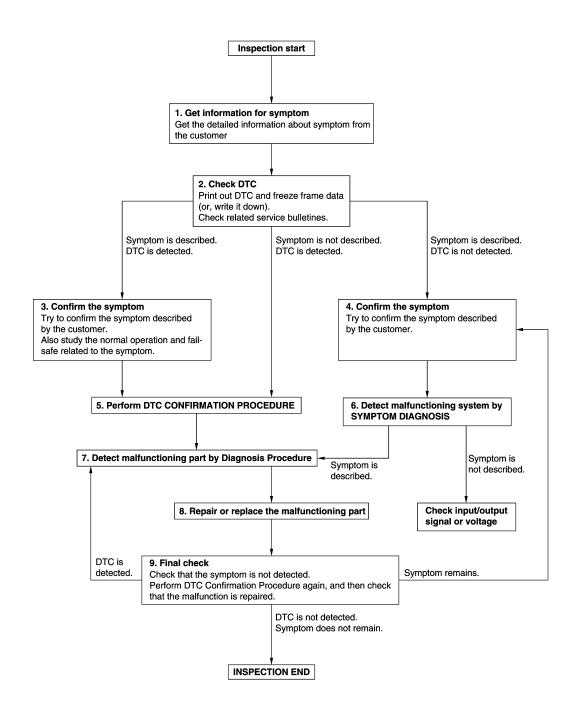
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow (INFOID:000000008275511

OVERALL SEQUENCE



JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2. CHECK DTC

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

Are any symptoms described and any DTC detected?

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

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

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

${f 3.}$ CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

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

>> GO TO 5.

f 4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to BCS-58, "DTC Inspection Priority Chart" (BCM), and determine trouble diagnosis order.

NOTE:

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

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

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-43, "Intermittent Incident".

$oldsymbol{6}$.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-

.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-43, "Intermittent Incident".

8.repair or replace the malfunctioning part

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

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

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

[WITH INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

B2621 INSIDE ANTENNA

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

YES >> Refer to <u>DLK-41</u>, "<u>Diagnosis Procedure</u>".

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

Diagnosis Procedure

INFOID:0000000008275513

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal
Connector	Terminal		Condition	(Reference value)
M70	84	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB
WITO	85	Glound	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 BCM. Refer to BCS-81, "Removal and Installation".

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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B2621 INSIDE ANTENNA

- 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	Inside key antenna (instrument center)	
Connector	Terminal	Connector	Terminal	Continuity
M70	84	M105	1	Existed
IVI7U	85	- WITOS	2	LXISIEU

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M70	84	Ground	Not existed
IVI7 U	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 JMKIA3839GB
wie	85	Clound	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1

Is the inspection result normal?

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

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

[WITH INTELLIGENT KEY SYSTEM]

B2622 INSIDE ANTENNA

DTC Logic INFOID:0000000008275514

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 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?

>> Refer to <u>DLK-43, "Diagnosis Procedure"</u>.

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

Diagnosis Procedure

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			(ivelerence value)
M70	86	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
W/O	87	Clound	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 BCM. Refer to BCS-81, "Removal and Installation".

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

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B2622 INSIDE ANTENNA

[WITH INTELLIGENT KEY SYSTEM]

E	BCM	Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M70	86	M106	1	Existed
IVI7 O	87	IVITOO	2	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M70	86	Ground	Not existed	
W// O	87		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 (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			(Notoronioo value)
M70	86	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
M/O	87	Giodria	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 (console).

NO >> Replace BCM. Refer to BCS-81. "Removal and Installation".

B2623 INSIDE ANTENNA

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 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-45</u>, "<u>Diagnosis Procedure</u>".

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	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB	
Wi / O	89	Cround	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

- 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 >

[WITH INTELLIGENT KEY SYSTEM]

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

ВСМ		Inside key antenna (luggage room)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M70	88	B82	1	Existed
IVI7O	89	D02	2	LXISIEU

4. Check continuity between BCM harness connector and ground.

В	СМ		Continuity	
Connector	Connector Terminal		Continuity	
M70	88	Ground	Not existed	
IVI7 U	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 (Reference value)
Connector	Terminal			(Notoronoe value)
M70	88	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
IVITO	89	Giodila	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB

Is the inspection result normal?

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

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2626 OUTSIDE ANTENNA

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. 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-47</u>, "<u>Diagnosis Procedure</u>".

NO >> Outside key antenna (passenger 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	(-)	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 JMKIA5955GB
10170	81	Giouna	ated with ignition switch OFF	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

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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B2626 OUTSIDE ANTENNA

В	СМ	Outside key antenna (passenger side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M70	80	D14	1	Existed
IVI / U	81	D14	2	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M70	80	Ground	Not existed	
IVI7 U	81		NOI EXISIEU	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${\it 3.}$ CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

	+) CM Terminal	(–)	Condition		Condition Signal (Reference value)		
M70	80 81	Ground	When the driver door request switch is operated with ignition	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 MKIAS9S5GB		
			switch OFF	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 1111111111111111111111111111		

Is the inspection result normal?

YES >> Replace outside key antenna (passenger side).

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2627 OUTSIDE ANTENNA

DTC Logic

DTC DETECTION LOGIC

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

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-49</u>, "<u>Diagnosis Procedure</u>".

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.

BC Connector	Terminal	(–)	Condition		Signal (Reference value)
MZO	78	Canada	When the driver door request switch is oper-	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 500 ms
M70	79	Ground	ated with ignition switch OFF	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 500 ms JMKIA5954GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

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.

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B2627 OUTSIDE ANTENNA

В	СМ	Outside key antenna (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M70	78	D33	1	Existed
WITO	79		2	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M70	78	Ground	Not existed	
WITO	79		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$3. \mathsf{CHECK}$ 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.

	+) CM	(–)	Condition		Signal (Reference value)
Connector	Terminal				
M70	78 79	Ground	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less) When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 JMKIA5955GB (V) 15 10 5 0 JMKIA5954GB

Is the inspection result normal?

YES >> Replace outside key antenna (driver side).

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2628 OUTSIDE ANTENNA

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. 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-51</u>, "<u>Diagnosis Procedure</u>".

NO >> Outside key antenna (rear bumper) is OK.

Diagnosis Procedure

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

	+) CM Terminal	(-)	Condition		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 JMKIA5955GB
WITO	83	Giounu	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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

- 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.

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B2628 OUTSIDE ANTENNA

[WITH INTELLIGENT KEY SYSTEM]

ВСМ		Outside key antenna (rear bumper)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M70	82	B83	1	Existed	
IVI7O	83	B03	2	Existed	

3. Check continuity between BCM harness connector and ground.

В	CM		
Connector	Connector Terminal		Continuity
M70	82	Ground Not existed	Not existed
IVI7O	83		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$3. \mathsf{CHECK}$ 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.

	+) CM	(–)	Condition		Signal (Reference value)
Connector	Terminal				, ,
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
W/O	83	Giound	ated with ignition switch OFF	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: 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 BCS-81, "Removal and Installation".

BACK DOOR OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER ACTUATOR

Component Function Check

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1. CHECK FUNCTION

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

Moni	tor 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-53</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275525

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.

(+) Back door lock assembly		(–)	Con	dition	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

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

В	СМ	Back door lo	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B10	53	D106	1	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
B10	53		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER ACTUATOR GROUND CIRCUIT

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

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BACK DOOR OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection normal?

YES >> Replace back door lock assembly.

NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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BACK DOOR OPENER SWITCH

Component Function Check

1.CHECK FUNCTION

- 1. Select "TRUNK" of "BCM" using CONSULT.
- 2. Select "TR/BD OPEN SW" in "DATA 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
	back door opener switch	Released	OFF

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to <u>DLK-55</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

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 Terminal	(-)	Signal (Reference value)
D107	1	Ground	(V) 15 10 5 0 10 ms

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.

ВСМ		Back door opener switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
M68	30	D107	1	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector Terminal		Ground	Continuity
M68	30		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-81, "Removal and Installation"</u>.

NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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 normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR OPENER SWITCH

Refer to DLK-56, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275528

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 opener switch		Condition		Continuity		
Terminal						
1	2	Back door opener	Pressed	Existed		
'	2	switch	switch	switch	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch.

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR REQUEST SWITCH

Component Function Check

1. CHECK FUNCTION

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- Select "REQ SW-BD/TR" in "DATA MONITOR" mode.
- 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
	Back door request switch	Released	Off

Is the inspection result normal?

YES >> Back door request switch is OK.

NO >> Refer to DLK-57, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK BACK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+) Back door opener switch		(–)	Voltage (Approx.)	
Connector	Terminal		(, 45, 2,)	
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

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

В	ВСМ		Back door opener switch	
Connector	Terminal	Connector Terminal		Continuity
M68	51	D107	3	Existed

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector Terminal		Ground	Continuity
M68	51		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

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 opener switch			Continuity
Connector Terminal		Ground	Continuity
D107	4		Existed

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BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR REQUEST SWITCH

Refer to DLK-58, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275531

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				Continuity
2	4	Back door request switch	Pressed	Existed
3	4	Dack door request switch	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch.

BUZZER (COMBINATION METER)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BUZZER (COMBINATION METER)

Component Function Check

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1. CHECK FUNCTION

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

Monitor item			Status	
INSIDE BUZZER	Take Out	ON	Take away warning	Buzzer sounds
		OFF	Take away warning	Buzzer does not sound
	Key	ON	OFF position warning	Buzzer sounds
		OFF		Buzzer does not sound

Is the inspection result normal?

Yes >> Buzzer (combination meter) is OK.

No >> Refer to <u>DLK-59</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275533

1. CHECK METER BUZZER CIRCUIT

Refer to WCS-36, "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-43, "Intermittent Incident".

>> INSPECTION END

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DOOR KEY CYLINDER SWITCH

Component Function Check

INFOID:0000000008275534

1. CHECK FUNCTION

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

Monitor item	Col	Status	
KEY CYL LK-SW		Lock	ON
KET CTL LK-SW	- Driver side door key cylinder	Neutral / Unlock	OFF
KEY CYL UN-SW		Unlock	ON
		Neutral / Lock	OFF

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Refer to <u>DLK-60</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275535

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

	(+) Front door lock assembly (driver side)		Voltage (V) (Approx.)	
Connector	Terminal		(дриох.)	
D38	5	Ground	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	
	6		Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

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

ВСМ		Front door lock assembly (driver side)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M68	7	D38	5	Existed	
IVIOO	8		6	LAISIEU	

3. Check continuity between BCM harness connector and ground.

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Existed

ВС	M		Continuity	
Connector	Terminal	,		
M68	7	Ground	Not existed	
IVIOO	8		Not existed	
YES >> Replace BCM. Ro NO >> Repair or replace CHECK DOOR KEY CYLI heck continuity between from	NDER SWITCH GROUNI	O CIRCUIT	or and ground	
		ver side) namess connect	or and ground.	_
Front door lock ass	embly (driver side)		Continuity	
Connector	Terminal	Ground		

D38 Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-61, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

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

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275536

1. CHECK DOOR KEY CYLINDER SWITCH

- Turn ignition switch OFF.
- Disconnect front door lock assembly (driver side) terminal.
- Check continuity between front door lock assembly (driver side) terminals.

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Front door lock assembly (driver side) Terminal		Condition		Continuity
				Continuity
F			Unlock	Existed
5	4	Daines elide de en les cadindes	Neutral / Lock	Not existed
6	Driver side door key cylinder	Lock	Existed	
			Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

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

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< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE: Component Function Check

INFOID:0000000008275537

1. CHECK FUNCTION

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

Monitor item		Status	
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
DOOK LOCK	ALL UNLK	Door lock actuators	UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-62</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000008275538

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		Condition		
	ock assembly er side)	(–)			Voltage (Approx.)
Connector	Terminal				
D38	2	Ground	Door lock and unlock switch		12 V
1		Giouria	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.
- 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	
M69	65	D38	1	Existed	
14109	66	530	2	LAISIEU	

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M69	65	Ground	Not existed	
MOS	66		INOL EXISTED	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM harness connector and ground.

(+)		Condition		Voltogo
В	CM	(-)			Voltage (Approx.)
Connector	Terminal				
M69	66	Ground	Door lock and unlock switch	Unlock	12 V
WOS	65	Ground	Door lock and diffock 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-81, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Component Function Check

,

1. CHECK FUNCTION

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

Monitor item		Status	
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
	ALL UNLK	DOOI TOOK ACTUATORS	UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-62</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

PASSENGER SIDE : Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

Turn ignition switch OFF.

2. Disconnect front door lock assembly (passenger side) connector.

Check voltage between front door lock assembly (passenger side) harness connector and ground.

(+)				
Front door lock assembly (passenger side)		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
D17	6	Ground	Door lock and unlock switch	Unlock	12 V
DIT	5	Giouna	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.

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

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[WITH INTELLIGENT KEY SYSTEM]

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BCM		Front door lock assembly (passenger side)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M69	59	D17	6	Existed	
14109	65		5	Existed	

Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M69	59	Ground	Not existed	
IVIOS	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.

(+) BCM			Condition		Voltage (Approx.)	
		(-)				
Connector	Terminal					
M69	59	Ground	Ground Door lock and unlock switch	Unlock	12 V	
WOS	65	Oround	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-81, "Removal and Installation".

REAR LH

REAR LH: Component Function Check

INFOID:0000000008275541

1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 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
	ALL UNLK	Door lock actuators	UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-62</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

REAR LH: Diagnosis Procedure

INFOID:0000000008275542

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

[WITH INTELLIGENT KEY SYSTEM]

(+)			Condition		Voltage (Approx.)
Rear door lock assembly LH		(–)			
Connector	Terminal				(11 - /
D65	2	Ground	Door lock and unlock switch	Unlock	12 V
D03	1 Ground		Door lock and unlock switch	Lock	12 V

Is the inspection result normal?

YES >> Replace rear door lock assembly LH.

NO >> GO TO 2.

2.check door lock actuator circuit

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	BCM		Rear door lock assembly LH	
Connector	Terminal	Connector	Terminal	Continuity
B10	55	D65	2	Existed
M69	65	D00	1	LAISIGU

3. Check continuity between BCM harness connector and ground.

BCM			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

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

<u> </u>	+) CM	(–) Condition Voltage (Approx.)		Voltage (Approx.)	
Connector	Terminal				, , ,
B10	55	Ground	und Door lock and unlock switch	Unlock	12 V
M69	65	Giouna	Door lock and unlock switch	Lock	12 V

Is the inspection result normal?

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

>> Replace BCM. Refer to BCS-81, "Removal and Installation". NO

REAR RH

REAR RH: Component Function Check

1. CHECK FUNCTION

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

Monitor item		Status	
DOORLOCK	ALL LOCK	- Door lock actuators	LOCK
DOOR LOCK	ALL UNLK	- Door lock actuators	UNLOCK

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< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-62</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

REAR RH: Diagnosis Procedure

INFOID:0000000008275544

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 lock assembly RH			Condition		Voltage (Approx.)
		(–)			
Connector	Terminal				, , ,
D45	6	Ground	Door lock and unlock switch	Unlock	12 V
D43	5	Giodila	Door lock and unlock switch	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.

ВСМ		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B10	55	D45	6	Existed
M69	65	D43	5	LXISIEU

3. Check continuity between BCM harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

(-	+)				Vi li e e e		
ВС	СМ	(–)	Condition		Condition Voltage (Approx.)		voitage (Approx.)
Connector	Terminal			,			
B10	55	Ground Door lock and unlock swit		Unlock	12 V		
M69	65	Ground	Ground Door lock and unlock switch —		1		

Is the inspection result normal?

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

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK AND UNLOCK SWITCH

Component Function Check

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1. CHECK FUNCTION

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

Monitor item	Con	Status	
CDL LOCK SW		Lock	ON
	- 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-67</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275546

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

Turn ignition switch OFF.

2. Disconnect power window main switch connector.

Check signal between power window main switch harness connector and ground using oscilloscope.

	(+) Power window main switch		Signal	
Connector	Terminal	(-)	(Reference value)	
	3			
D35	15	Ground	(V) 15 10 10 ms 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

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

В	всм		Power window main switch	
Connector	Terminal	Connector	Terminal	Continuity
M68	12	D35	3	Existed
IVIOO	13	D33	15	Existed

3. Check continuity between BCM harness connector and ground.

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	ВСМ		Continuity
Connector	Terminal	Ground	Continuity
M68	12	Ground	Not existed
IVIOO	13		INOL EXISTED

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

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
D35	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-68, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to PWC-50, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275547

1. CHECK DOOR LOCK AND UNLOCK SWITCH

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

Power window main switch Terminal		Condition		Continuity
3	1	Door lock and unlock switch	UNLOCK	Not existed
15	'		LOCK	Not existed
15			UNLOCK	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch.

DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000008275548

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1. CHECK FUNCTION

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

Monitor item	Condition		Status
REQ SW -DR	Driver side door request switch	Pressed	ON
INEQ 3W -DIN	Driver side door request switch	Released	OFF
REQ SW -AS	Passenger side door request switch	Pressed	ON
NEQ 3W -A3	rassenger side door request switch	Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to <u>DLK-69</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275549

1. CHECK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+) Front door request switch			(–)	Voltage (Approx.)
Connector To		Terminal		(/ (pp.cx.)
Driver side	D34	2	Ground	12 V
Passenger side	D15	1	Ground	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR REQUEST SWITCH CIRCUIT

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

F	Front door request switch BCM Continuity		Continuity		
Con	nector	Terminal	Connector Terminal		Continuity
Driver side	D34	2	M70	75	Existed
Passenger side	D15	1	IVI7O	100	LXISIEU

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

Front door request switch				Continuity	
Con	nector	Terminal	Ground	Continuity	
Driver side	D34	2	Giouria	Not existed	
Passenger side	D15	1		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-81</u>, "Removal and Installation".

NO >> Repair or replace harness.

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DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

${f 3.}$ check door request switch ground circuit

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

Front door request switch				Continuity
Connector		Terminal	Ground	Continuity
Driver side	D34	1	Ground	Existed
Passenger side	D15	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR REQUEST SWITCH

Refer to DLK-70, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front door request switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275550

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 request switch		Condition		Continuity
Terminal				Continuity
1	2	Door request switch	Pressed	Existed
	2		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunctioning front door request switch.

[WITH INTELLIGENT KEY SYSTEM]

DOOR SWITCH

Component Function Check

INFOID:0000000008275551

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1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR", "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
	Driver side door	Closed	Off
DOOR SW-AS	Passenger side door	Open	On
		Closed	Off
DOOR SW-RL	Rear door LH	Open	On
DOOR SW-RL	Real door Ln	Closed Off	Off
DOOR SW-RR	Rear door RH	Open	On
DOOK SW-KK		Closed	Off
DOOR SW-BK	Back door	Open	On
DOOK SW-BK	Back door	Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-71</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275552

1. CHECK DOOR SWITCH INPUT SIGNAL

- 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)	
Connector		Terminal		(133333100 14100)	
Driver side	B48	_ 2			
Passenger side	B49			(V) 15	
Rear LH	B71		2		10 5
Rear RH	B53		Ground	0	
Back door	D106	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.
- Check continuity between door switch harness connector and BCM harness connector.

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Door switch			ВСМ		Continuity
Connector		Terminal	Connector Terminal		Continuity
Driver side	B48	2		47	
Passenger side	B49			45	
Rear LH	B71		B10	48	Existed
Rear RH	B53			46	
Back door	D106			43	

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

Door switch				Continuity
Connector		Terminal		Continuity
Driver side	B48			
Passenger side	B49	2	Ground	
Rear LH	B71			Not existed
Rear RH	B53			
Back door	D106	3	7	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-81</u>, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

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

Back door switch			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-72, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning door switch.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275553

1. CHECK DOOR SWITCH

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

DOOR SWITCH

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[WITH INTELLIGENT KEY SYSTEM]

Door switch Terminal		Condition		Continuity	
					Driver side
Driver side				Released	Not existed
Daggararaida	2	2 Ground part of door switch	Door switch	Pressed	Existed
Passenger side				Released	Not existed
Rear LH				Pressed	Existed
				Released	Not existed
Door DII				Pressed	Existed
Rear RH			Released	Not existed	
Dools door		4	Back door lock as- sembly	Lock	Existed
Back door 3	3	4		Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

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HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HAZARD FUNCTION

Component Function Check

INFOID:0000000008275554

1. CHECK FUNCTION

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

Monitor item		Status	
	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.
>> Refer to <u>DLK-74, "Diagnosis Procedure"</u>. NO

Diagnosis Procedure

INFOID:0000000008275555

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1. CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-69, "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-43, "Intermittent Incident".

>> INSPECTION END

INTELLIGENT KEY BATTERY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY BATTERY

Component Inspection

1. CHECK INTELLIGENT KEY BATTERY

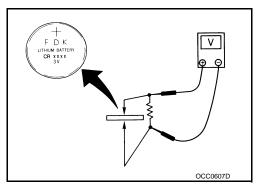
Check by connecting a resistance (approximately 300 $\Omega)$ so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

YES >> INSPECTION END

NO >> Replace Intelligent Key battery.



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INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY WARNING BUZZER

Component Function Check

INFOID:0000000008275558

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 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	Outside warning buzzer	Buzzer does not sound

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.

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

Diagnosis Procedure

INFOID:0000000008275559

1. CHECK FUSE

- Turn ignition switch OFF.
- 2. Check 10 A fuse, [No. 13, 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.

(4	-)	(-)	V/ //	
Intelligent Key	warning buzzer		Voltage (Approx.)	
Connector	Terminal		(11. 3)	
E25	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check intelligent key warning buzzer circuit

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

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

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M70	93		Not existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

4. CHECK INTELLIGENT KEY WARNING BUZZER

Refer to DLK-77, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Replace Intelligent Key warning buzzer.

Component Inspection

INFOID:0000000008275560

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		
Teri	Operation	
(+)	(-)	
1	3	Buzzer sounds

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace Intelligent Key warning buzzer.

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KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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KEY WARNING LAMP

Component Function Check

1. CHECK FUNCTION

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

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

Is the inspection result normal?

YES

>> Key warning lamp is OK.
>> Refer to <u>DLK-78, "Diagnosis Procedure"</u>. NO

Diagnosis Procedure

1. CHECK KEY WARNING LAMP

Refer to MWI-19, "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-43, "Intermittent Incident".

>> INSPECTION END

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

INFOID:0000000008275563

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1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 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-79</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275564

1. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect remote keyless entry receiver connector.
- 3. Check voltage between remote keyless entry receiver harness connector and ground.

(+)			
Remote keyless entry receiver		(–)	Voltage
Connector	Terminal		
M75	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. DETECT MALFUNCTIONING PART

Check the following.

- 10 A fuse (No. 7)
- Harness for open or short between remote keyless entry receiver and battery

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

3. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

В	ВСМ		Remote keyless entry receiver	
Connector	Terminal	Connector	Terminal	Continuity
M68	18	M75	4	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M68	18		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

4. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

	(+) Remote keyless entry receiver		(–) Condition	Signal (Reference value)	
Connector	Terminal			(1313131331331)	
		Waiting	Waiting	12 V	
M75	2	Ground	Press the Intelligent Key lock or unlock button	(V) 15 10 5 0 200 ms JMMIA0572GB	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace remote keyless entry receiver.

CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

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

В	CM	Remote keyless entry receiver		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M68	38	M75	2	Existed	

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M68	38		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

SHIFT P WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SHIFT P WARNING LAMP

Component Function Check

INFOID:0000000008275565

1. CHECK FUNCTION

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

Monit	or item	Sta	atus
LCD	SFT P	Shift P warning lamp	Turns ON

Is the inspection result normal?

YES >> Shift P warning lamp is OK.

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

Diagnosis Procedure

INFOID:0000000008275566

1. CHECK SHIFT P WARNING LAMP

Refer to MWI-19, "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-43, "Intermittent Incident".

>> INSPECTION END

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DLK-81 Revision: 2014 February 2013 JUKE

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< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Component Function Check

INFOID:0000000008275567

1. CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Unlock sensor is OK.

NO >> Refer to <u>DLK-82. "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000008275568

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)		Front door lock assembly (driver side) (-)		Signal (Reference value)
Commoder	Tomma		(V) 15 10		
D38	3	Ground	10ms PKIB4960J		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK UNLOCK SENSOR CIRCUIT

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

В	СМ	Front door lock assembly (driver side)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M68	31	D38	3	Existed	

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector Terminal		Ground	Continuity	
M68	31		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Repair or replace harness.

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

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

Front door lock as:	sembly (driver side)		Continuity
Connector	Terminal	Ground	Continuity
D38	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK UNLOCK SENSOR

Refer to DLK-83, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

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

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK UNLOCK SENSOR

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

Front door lock assembly (driver side)		Condition		Continuity	
Terr	ninal	Condition		Continuity	
ď	4 Dr	Driver side door	Unlock	Existed	
	4	Driver side door	Lock	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

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

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INFOID:0000000008275569

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

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

ALL DOOR

ALL DOOR: Description

INFOID:0000000008275570

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

ALL DOOR: Diagnosis Procedure

INFOID:0000000008275571

CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to <u>DLK-67</u>, "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-62, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

- Replace BCM. Refer to BCS-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000008275572

Driver side door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000008275573

1. CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side).

Refer to DLK-62, "DRIVER SIDE: 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-81</u>, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YFS >> INSPECTION END

>> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

PASSENGER SIDE

DLK-84 Revision: 2014 February 2013 JUKE

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

< SYMPTOM DIAGNOSIS > [WITH IN]	ELLIGENT KEY SYSTEM
PASSENGER SIDE : Description	INFOID:000000008275574
Passenger side door does not lock/unlock using door lock and unlock switch.	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000008275575
1. CHECK DOOR LOCK ACTUATOR	
Check front door lock assembly (passenger side). Refer to DLK-63, "PASSENGER SIDE: 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-81, "Removal and Installation"</u>. Confirm the operation after replacement. 	
Is the result normal?	
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". REAR LH	
REAR LH: Description	INFOID:000000008275576
Rear LH side door does not lock/unlock using door lock and unlock switch.	
REAR LH : Diagnosis Procedure	INFOID:000000008275577
1. CHECK DOOR LOCK ACTUATOR	
Check rear door lock assembly LH. Refer to DLK-64, "REAR LH: 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-81, "Removal and Installation".	
Confirm the operation after replacement.	
Is the result normal? YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
REAR RH	
REAR RH: Description	INFOID:000000008275578
Rear RH side door does not lock/unlock using door lock and unlock switch.	
REAR RH : Diagnosis Procedure	INFOID:000000008275579
_	#WF-JID:UUUUUUUUUUZ275575
1.CHECK DOOR LOCK ACTUATOR	
Check rear door lock assembly RH. Refer to DLK-65, "REAR RH: Component Function Check".	
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Is the inspection result normal?	
YES >> GO TO 2.	
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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

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

< SYMPTOM DIAGNOSIS > DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH Α ALL DOOR REQUEST SWITCHES ALL DOOR REQUEST SWITCHES: Description INFOID:0000000008275580 В All doors do not lock/unlock using all door request switches. ALL DOOR REQUEST SWITCHES: Diagnosis Procedure INFOID:0000000008275581 1. CHECK REMOTE KEYLESS ENTRY FUNCTION Check remote keyless entry function. D Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to DLK-20, "REMOTE KEYLESS ENTRY FUNCTION: System Description". Е 2.check "Lock/unlock by I-key" setting in "work support" Select "INTELLIGENT KEY" of "BCM" using CONSULT. F Select "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT" mode. Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT". Refer to DLK-30, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 3. NO >> Set "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT". 3.check door switch Н Check door switch. Refer to DLK-71, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK INSIDE KEY ANTENNA Check inside key antenna. Instrument center: Refer to DLK-41. "DTC Logic". DLK Console: Refer to <u>DLK-43, "DTC Logic"</u>. Luggage room: Refer to <u>DLK-45</u>, "<u>DTC Logic</u>". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. CHECK OUTSIDE KEY ANTENNA M Check outside key antenna. Driver side: Refer to <u>DLK-49</u>, "<u>DTC Logic</u>". Passenger side: Refer to <u>DLK-47</u>, "<u>DTC Logic</u>". N Rear bumper: Refer to DLK-51, "DTC Logic". Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. **6.**REPLACE BCM Replace BCM. Refer to BCS-81, "Removal and Installation". Confirm the operation after replacement. Is the result normal? >> INSPECTION END YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

DRIVER SIDE DOOR REQUEST SWITCH

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

DRIVER SIDE DOOR REQUEST SWITCH: Description

INFOID:0000000008275582

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

DRIVER SIDE DOOR REQUEST SWITCH: Diagnosis Procedure

1. CHECK DRIVER SIDE DOOR REQUEST SWITCH

Check driver side door request switch.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver side).

Refer to DLK-49, "DTC Logic".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

- Replace BCM. Refer to BCS-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

>> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO

PASSENGER SIDE DOOR REQUEST SWITCH

PASSENGER SIDE DOOR REQUEST SWITCH: Description

INFOID:0000000008275584

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

PASSENGER SIDE DOOR REQUEST SWITCH: Diagnosis Procedure

INFOID:0000000008275585

1. CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check passenger side door request switch.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger side).

Refer to DLK-47, "DTC Logic".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

- Replace BCM. Refer to BCS-81, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

>> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO

BACK DOOR REQUEST SWITCH

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUES < SYMPTOM DIAGNOSIS > [WITH INTELLIG	ST SWITCH GENT KEY SYSTEM]
BACK DOOR REQUEST SWITCH : Description	INFOID:000000000827558
All doors do not lock/unlock using back door request switch.	
BACK DOOR REQUEST SWITCH : Diagnosis Procedure	INFOID:000000000827558
1. CHECK BACK DOOR REQUEST SWITCH	
Check back door request switch. Refer to DLK-57, "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 DLK-51, "DTC Logic".	
Is the inspection result normal? YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3.REPLACE BCM	
Replace BCM. Refer to BCS-81, "Removal and Installation".	
Confirm the operation after replacement.	
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
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DLK-89 Revision: 2014 February 2013 JUKE

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:0000000008275588

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 >> Refer to DLK-67, "Component Function Check".

2. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to DLK-60, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

>> Repair or replace the malfunctioning parts. NO

3. REPLACE BCM

- Replace BCM. Refer to BCS-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

DLK-90 Revision: 2014 February 2013 JUKE

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:0000000008275589

1.CHECK INTELLIGENT KEY

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For Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

Does the Intelligent Key belong to the vehicle to checked?

YES >> GO TO 2.

NO >> Check Intelligent Key button operation with registered Intelligent Key belonging to the vehicle.

2.CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning is operated.

Is the Intelligent Key low battery warning operated?

YES >> GO TO 6.

>> With another registered Intelligent Key: GO TO 3.

NO-2 >> Without another registered Intelligent Key: GO TO 4.

3.CHECK INTELLIGENT KEY BUTTON OPERATION

Check that door lock and unlock can be performed by operating the buttons of another registered Intelligent

Can door lock and unlock be performed with another registered Intelligent Key?

YES >> GO TO 4.

NO >> GO TO 7.

4. CHECK ENGINE START

While depressing the brake pedal, contact the backside of the Intelligent Key that cannot be used to perform door lock and unlock operation to the push-button ignition switch. Operate the push-button ignition switch, and check that the vehicle is in START status.

Is the vehicle in START status?

YES >> GO TO 6.

NO >> GO TO 5.

${f 5}$.CHECK INTELLIGENT KEY

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Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the vehicle in START status?

YES >> GO TO 6.

NO >> Replace Intelligent Key.

6.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Refer to DLK-75, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

>> Replace Intelligent Key battery. NO

7.CHECK POWER DOOR LOCK OPERATION

Check door lock/unlock using door lock and unlock switch.

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

YES >> GO TO 8.

NO >> Refer to DLK-84, "ALL DOOR: Diagnosis Procedure".

8.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to DLK-79, "Component Function Check".

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DLK-91

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace the malfunctioning parts.

9. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-71, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 10.

NO >> Repair or replace the malfunctioning parts.

10. REPLACE INTELLIGENT KEY

- 1. Replace Intelligent Key.
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000008275590 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 BCS-59, "DTC Index". 2.CHECK POWER DOOR LOCK OPERATION D Check power door lock operation. Does door lock/unlock with driver side door lock knob and door key cylinder? Е YES >> GO TO 3. NO >> Refer to <u>DLK-13</u>, "System Description". 3. CHECK DOOR SWITCH Check door switch. Refer to DLK-71, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. REPLACE BCM Н Replace BCM. Refer to BCS-81, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO J

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SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275591

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

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

 Refer to <u>DLK-28</u>, "<u>DOOR LOCK</u>: <u>CONSULT Function</u> (<u>BCM DOOR 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-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

BACK DOOR DOES NOT OPENED

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[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR DOES NOT OPENED	٨
Diagnosis Procedure	Α
1. CHECK BACK DOOR OPENER SWITCH	В
Check back door opener switch. Refer to DLK-53, "Component Function Check".	
Is the inspection result normal? YES >> GO TO 2.	С
NO >> Repair or replace the malfunctioning parts. 2.CHECK BACK DOOR OPENER ACTUATOR	D
Check back door opener actuator. Refer to DLK-53, "Component Function Check".	Е
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK VEHICLE SPEED SIGNAL	F
Check vehicle speed signal. Refer to MWI-31, "DTC Index".	G
Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	Н
4. REPLACE BCM	
 Replace BCM. Refer to <u>BCS-81, "Removal and Installation"</u>. Confirm the operation after replacement. 	I
Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	J

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AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275593

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

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "AUTO LOCK SET" in "WORK SUPPORT" mode.
- Check "AUTO LOCK SET" in "WORK SUPPORT".
 Refer to <u>DLK-30</u>, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.

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

2. REPLACE BCM

- 1. Replace BCM. Refer to BCS-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPER-**ATE**

Diagnosis Procedure

INFOID:0000000008275594

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1. CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- Select "DOOR LOCK" of "BCM" using CONSULT.
- Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". Refer to DLK-28, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

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"

- Select "DOOR LOCK" of "BCM" using CONSULT.
- Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT". Refer to DLK-28, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.

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

3. REPLACE BCM

- Replace BCM. Refer to BCS-81, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

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DLK-97 Revision: 2014 February 2013 JUKE

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IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275595

1. CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

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

 Refer to DLK-28, "DOOR LOCK: CONSULT Function (BCM DOOR 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.
- 2. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".
 Refer to <u>DLK-28</u>, "<u>DOOR LOCK</u>: <u>CONSULT Function</u> (<u>BCM DOOR LOCK</u>)".

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-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
P RANGE INTERLOCK DOOR LOCK/UNLO	OCK FUNCTION DOES NOT OP-
ERATE	,
Diagnosis Procedure	INFOID:000000008275596
1. CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING	
 Select "DOOR LOCK" of "BCM" using CONSULT. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK Refer to DLK-28, "DOOR LOCK: CONSULT Function (BC 	(SUPPORT".
Is the inspection result normal?	ı
YES >> GO TO 2. NO >> Set "AUTOMATIC LOCK/UNLOCK SELECT" in "W	
2.CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN	I "WORK SUPPORT"
 Select "DOOR LOCK" of "BCM" using CONSULT. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK S Check "AUTOMATIC DOOR LOCK SELECT" in "WORK S Refer to <u>DLK-28</u>, "<u>DOOR LOCK</u>: <u>CONSULT Function</u> (<u>BC</u>) 	UPPORT".
Is the inspection result normal?	
YES >> GO TO 3. NO >> Set "AUTOMATIC DOOR LOCK SELECT" in "WO	RK SUPPORT".
3.CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING	G IN "WORK SUPPORT"
 Select "DOOR LOCK" of "BCM" using CONSULT. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WOR! Check "AUTOMATIC DOOR UNLOCK SELECT" in "WOR! Refer to DLK-28, "DOOR LOCK: CONSULT Function (BC) 	K SUPPORT".
Is the inspection result normal?	·
YES >> GO TO 4. NO >> Set "AUTOMATIC DOOR UNLOCK SELECT" in "V	WORK SUPPORT".
4.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-81</u>, "Removal and Installation Confirm the operation after replacement. 	<u>D</u> ".
Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-43, "Interm	nittent Incident".
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HAZARD AND BUZZER REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275597

${f 1}$.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-59</u>, "DTC Index". (BCM)

NO-2 >> Refer to MWI-31, "DTC Index". (Combination meter)

2.check "hazard answer back" setting in "work support"

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "HAZARD ANSWER BACK" in "WORK SUPPORT" mode.
- Check the "HAZARD ANSWER BACK" in "WORK SUPPORT".
 Refer to <u>DLK-30</u>, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 3.

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

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

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "ANS BACK I-KEY LOCK" in "WORK SUPPORT" mode.
- Check the "ANS BACK I-KEY LOCK" in "WORK SUPPORT".
 Refer to <u>DLK-30</u>, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)".

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.
- Select "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT" mode.
- Check the "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT".
 Refer to <u>DLK-30, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)"</u>.

Is the inspection result normal?

YES >> GO TO 5.

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

CHECK HAZARD FUNCTION

Check hazard function.

Refer to DLK-74, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

$\mathbf{6}.$ CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to DLK-76, "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-81, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

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HAZARD AND BUZZER REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". Α В С D Е F G Н J DLK L M Ν

Revision: 2014 February DLK-101 2013 JUKE

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275598

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 BCS-59, "DTC Index".

2.CHECK "ANTI KEY LOCK IN FUNCTI" SETTING IN "WORK SUPPORT"

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT" mode.
- 3. Check "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT".

 Refer to DLK-30, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT".

3. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-71, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to <u>DLK-41</u>, "<u>DTC Logic</u>".
- Console: Refer to DLK-43, "DTC Logic".
- Luggage room: Refer to <u>DLK-45, "DTC Logic"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to DLK-82, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

- 1. Replace BCM. Refer to BCS-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OFF POSITION WARNING DOES NOT OPERATE	Δ.
Diagnosis Procedure	A NFOID:0000000008275599
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?	С
YES >> GO TO 2. NO-1 >> Refer to <u>BCS-59, "DTC_Index"</u> . (BCM)	
NO-2 >> Refer to MWI-31, "DTC Index". (Combination meter)	
2.CHECK DOOR SWITCH	D
Check front door switch (driver side). Refer to DLK-71, "Component Function Check".	
Is the inspection result normal?	Е
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3.CHECK COMBINATION METER BUZZER	F
Check combination meter buzzer.	
Refer to WCS-36, "Component Function Check".	G
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	Н
4.CHECK INTELLIGENT KEY WARNING BUZZER	
Check Intelligent Key warning buzzer.	
Refer to DLK-76, "Component Function Check".	1
Is the inspection result normal? YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	J
5.REPLACE BCM	
Replace BCM. Refer to <u>BCS-81, "Removal and Installation"</u> .	DLK
 Confirm the operation after replacement. Is the result normal? 	
YES >> INSPECTION END	L
NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
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P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275600

${f 1.}$ 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-59</u>, "DTC Index". (BCM)

NO-2 >> Refer to TM-116, "DTC Index". (TCM)

NO-3 >> Refer to MWI-31. "DTC Index". (Combination meter)

2.CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to WCS-36, "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-76, "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-71, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to DLK-41, "DTC Logic".
- Console: Refer to DLK-43, "DTC Logic".
- Luggage room: Refer to <u>DLK-45</u>, "<u>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 DLK-78, "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-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

ACC WARNING DOES NOT OPERATE

[WITH INTELLIGENT KEY SYSTEM]

SYMPTOM DIAGNOSIS > [V	VITH INTELLIGENT KEY SYSTEM]
CC WARNING DOES NOT OPERATE	
iagnosis Procedure	INFOID:00000000827560
.CHECK COMBINATION METER BUZZER	
heck combination meter buzzer.	
efer to WCS-36, "Component Function Check". the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
REPLACE BCM	
Replace BCM. Refer to BCS-81, "Removal and Installation". Confirm the operation after replacement.	
the result normal?	
'ES >> INSPECTION ENDIO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident."	<u>cident"</u> .

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TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TAKE AWAY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275602

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-59</u>, "DTC Index". (BCM)

NO-2 >> Refer to MWI-31, "DTC Index". (Combination meter)

2. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to WCS-36, "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 DLK-78, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-71, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.check intelligent key warning buzzer

Check Intelligent Key warning buzzer.

Refer to DLK-76, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to DLK-41, "DTC Logic".
- Console: Refer to <u>DLK-43</u>, "<u>DTC Logic"</u>.
- Luggage room: Refer to <u>DLK-45, "DTC Logic"</u>.

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-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000008275603 $oldsymbol{1}$.CHECK DTC WITH BCM AND COMBINATION METER В Check that DTC is not detected with BCM and combination meter. Is the inspection result normal? YES >> GO TO 2. NO-1 >> Refer to <u>BCS-59</u>, "DTC Index". (BCM) NO-2 >> Refer to MWI-31, "DTC Index". (Combination meter) 2.check "Lo- batt of key fob warn" setting in "work support" D Select "INTELLIGENT KEY" of "BCM". Select "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT" mode. Е Check "LO-BATT OF KEY FOB WARN" in "WORK SUPPORT". Refer to DLK-30, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)". Is the inspection result normal? F YES >> GO TO 3. NO >> Set "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT". f 3.CHECK KEY WARNING LAMP Check key warning lamp. Refer to DLK-78, "Component Function Check". Is the inspection result normal? Н YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. f 4.CHECK INTELLIGENT KEY BATTERY Check Intelligent Key battery. Refer to DLK-75, "Component Inspection". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. DLK ${f 5.}$ CHECK INSIDE KEY ANTENNA Check inside key antenna. Instrument center: Refer to <u>DLK-41</u>, "<u>DTC Logic</u>". Console: Refer to DLK-43, "DTC Logic". Luggage room: Refer to <u>DLK-45, "DTC Logic"</u>. Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. **6.**REPLACE BCM Ν Replace BCM. Refer to BCS-81, "Removal and Installation". Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO Р

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275604

1. CHECK DOOR LOCK FUNCTION

Check door lock function.

Does door lock/unlock using door request switch?

YES >> GO TO 2.

NO >> Refer to <u>DLK-69</u>, "Component Function Check".

2. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to DLK-76, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

- 1. Replace BCM. Refer to BCS-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

KEY ID WARNING DOES NOT OPERATE

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[WITH INTELLIGENT KEY SYSTEM]

KEY ID WARNING DOES NOT OPERATE	_
Diagnosis Procedure	A 5
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? YES >> GO TO 2.	С
NO-1 >> Refer to <u>BCS-59, "DTC_Index"</u> . (BCM) NO-2 >> Refer to <u>MWI-31, "DTC_Index"</u> . (Combination meter)	
2. CHECK INTELLIGENT KEY BATTERY	D
Check Intelligent Key battery. Refer to DLK-75, "Component Inspection".	E
Is the inspection result normal?	_
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	F
3. CHECK INSIDE KEY ANTENNA	_
Check inside key antenna. • Instrument center: Refer to DLK-41 , "DTC Logic".	G
 Console: Refer to <u>DLK-43, "DTC Logic"</u>. Luggage room: Refer to <u>DLK-45, "DTC Logic"</u>. 	
Is the inspection result normal?	Н
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4.CHECK KEY WARNING LAMP	1
Check key warning lamp. Refer to DLK-78, "Component Function Check".	-
Is the inspection result normal?	J
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	
5. REPLACE BCM	DLK
1. Replace BCM. Refer to BCS-81, "Removal and Installation".	-
Confirm the operation after replacement.Is the result normal?	L
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	M
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KEY WARNING LAMP DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY WARNING LAMP DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:0000000008275606

1. CHECK KEY WARNING LAMP

Check key warning lamp.

Refer to DLK-78, "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-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

UNLOCK LINK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

UNLOCK LINK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275607

1.REPLACE BCM

В

- 1. Replace BCM. Refer to BCS-81, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

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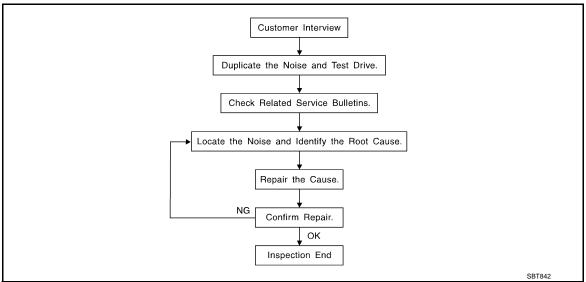
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SQUEAK AND RATTLE TROUBLE DIAGNOSES

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 DLK-116, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
 are provided so the customer, service adviser and technician are all speaking the same language when
 defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
 higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle)
 Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)

 Knock characteristics include hollow sound
 - Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand)
 Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise)
 Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumblebee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician
 may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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

SQUEAK AND RATTLE TROUBL	
< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
If the noise can be duplicated easily during the test drive, to help i cate the noise with the vehicle stopped by doing one or all of the form. 1) Close a door.	
2) Tap or push/pull around the area where the noise appears to be3) Rev the engine.	e coming from.
4) Use a floor jack to recreate vehicle "twist".	E
5) At idle, apply engine load (electrical load, half-clutch on M/T mo 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 cust If it is difficult to duplicate the noise, drive the vehicle slowly on vehicle body. 	tomer states exist when the noise occurs.
CHECK RELATED SERVICE BULLETINS After verifying the customer concern or symptom, check ASIST for to that concern or symptom. If a TSB relates to the symptom, follow the procedure to repair the	
LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE	
1. Narrow down the noise to a general area. To help pinpoint the (Chassis ear: J-39570, Engine ear and mechanics stethoscope	
2. Narrow down the noise to a more specific area and identify the	e cause of the noise by:
 Removing the components in the area that is are suspected to be Do not use too much force when removing clips and fasteners, or lost during the repair, resulting in the creation of new noise. 	
 Tapping or pushing/pulling the component that is are suspected to Do not tap or push/pull the component with excessive force, other porarily. 	
 Feeling for a vibration by hand by touching the component(s) the noise. 	nat is are suspected to be the cause of the

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-114</u>, "Inspection Procedure".

REPAIR THE CAUSE

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

CAUTION:

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

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

71L02:15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97 \times 1.97 in)/73982-

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

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

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

UHMW (TEFLON) TAPE

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

SILICONE GREASE

Used in place of UHMW tape that is be visible or does not fit. Will only last a few months.

SILICONE SPRAY

Used when grease cannot be applied.

DUCT TAPE

Used to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000008275609

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

- Shifter assembly cover to finisher
- A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the following:

- 1. Finisher and inner panel making a slapping noise
- Inside handle escutcheon to door finisher
- Wiring harnesses tapping
- 4. Door striker out of alignment causing a popping noise on starts and stops

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

TRUNK

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

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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 knocking noise
- Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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Revision: 2014 February DLK-115 2013 JUKE

Diagnostic Worksheet

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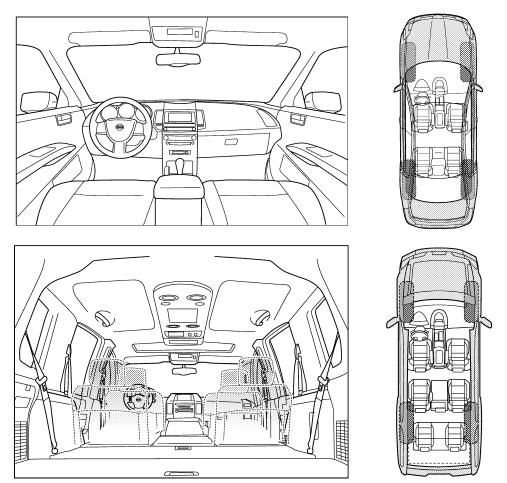
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

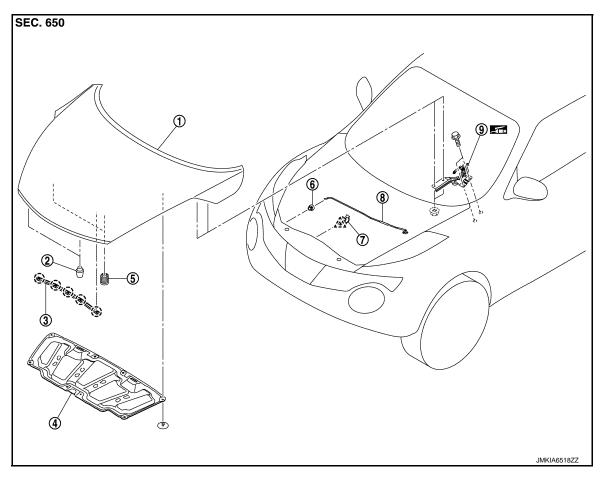
II. WHEN DOES IT OCCUR? (pleas	check the boxes that apply)	
anytime	after sitting out in the rain	
1st time in the morning	when it is raining or wet	
only when it is cold outside	dry or dusty conditions	
only when it is hot outside	other:	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
through driveways	squeak (like tennis shoes on a clean floor)
over rough roads	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 ☐ on turns: left, right or either (circle)	☐ thump (heavy, muffled knock noise)☐ buzz (like a bumble bee)	
\square with passengers or cargo	Duzz (like a bullible bee)	
r r will begaseliuela ul cellu		
other: miles or		
other: miles or	minutes	
other: miles or TO BE COMPLETED BY DEALERS	minutes	
other: miles or TO BE COMPLETED BY DEALERS	minutes	
other: miles or TO BE COMPLETED BY DEALERS	minutes	
other: miles or TO BE COMPLETED BY DEALERS	minutes HIP PERSONNEL YES NO Initials of personnels	son
☐ other: ☐ after driving miles or TO BE COMPLETED BY DEALERS Test Drive Notes:	minutes HIP PERSONNEL	son
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REMOVAL AND INSTALLATION

HOOD

Exploded View



- 1. Hood assembly
- 4. Hood insulator
- 7. Clamp
- () : Clip
- : Body grease

- 2. Hood bumper rubber
- 5. Hood bumper rubber
- 8. Hood support rod
- 3. Radiator core seal

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- 6. Grommet
- 9. Hood hinge

HOOD ASSEMBLY

HOOD ASSEMBLY: Removal and Installation

CAUTION:

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

REMOVAL

1. Support hood assembly with the proper material to prevent it from falling.

WARNING:

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

2. Remove hood hinge mounting nuts on the hood to remove the hood assembly.

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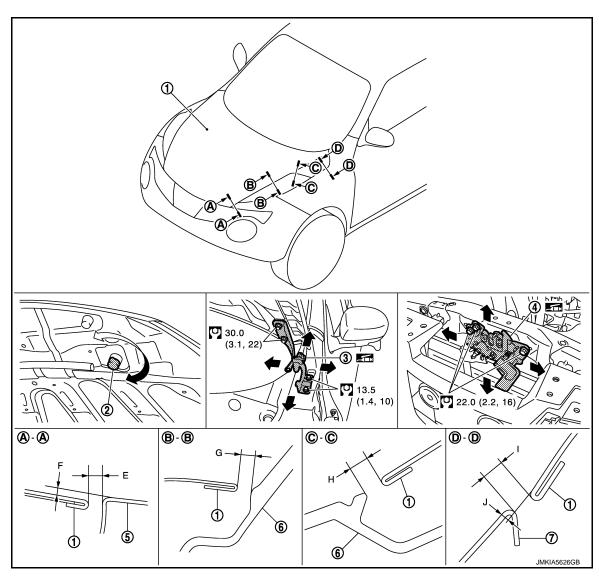
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INSTALLATION

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

- 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-119</u>, "HOOD ASSEMBLY: <u>Adjust-ment"</u>.

HOOD ASSEMBLY: Adjustment



- 1. Hood assembly
- 4. Hood lock assembly
- 7. Front fender
- : N·m (kg-m, ft-lb)
- : Body grease

- Hood bumper rubber 3. Hood hinge
 - 6. Front combination lamp

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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.

Front bumper fascia

2.

					Unit: mm (in)
F	ortion			Standard	Difference (RH/LH, MAX)
Hood – Front	A – A	E	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
bumper fascia		F	Surface height	(-2.0) - (+2.0) [(-0.079) - (+0.079)]	< 2.5 (0.098)
Hood – Front combination lamp	B-B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front combination lamp	C – C	н	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front fender	$r D-D \frac{1}{J}$	1	Clearance	2.5 – 4.5 (0.098 – 0.177)	< 1.5 (0.059)
Hood - Front lender		J	Surface height	(-2.0) - (0.0) [(-0.079) - (0.000)]	< 1.5 (0.059)

FITTING ADJUSTMENT PROCEDURE

- Remove front center grille. Refer to <u>EXT-22</u>, "Removal and Installation".
- 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.
- 8. 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].

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

9. Install front center grille. Refer to EXT-22, "Removal and Installation".

HOOD HINGE

HOOD HINGE: Removal and Installation

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REMOVAL

- Remove hood assembly. Refer to <u>DLK-118</u>, "<u>HOOD ASSEMBLY</u>: <u>Removal and Installation</u>".
- 2. Remove front fender. Refer to <u>DLK-127</u>, "Removal and Installation".
- 3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

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

CAUTION:

- After installation, perform hood hinge fitting adjustment. Refer to <u>DLK-121, "HOOD HINGE: Adjust-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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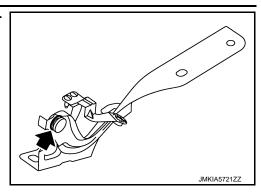
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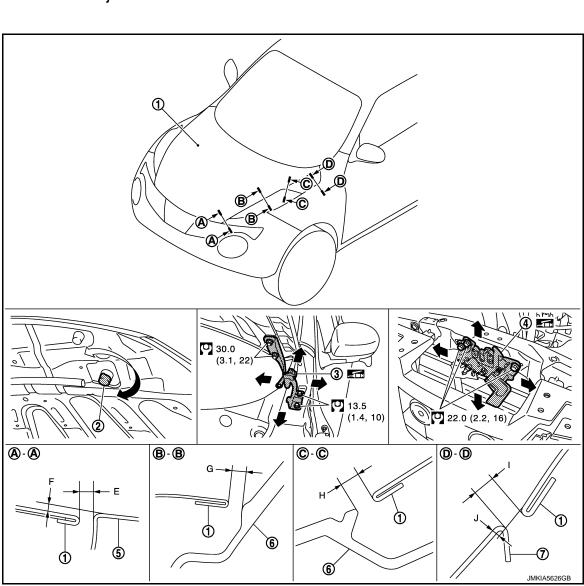
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Check hood hinge rotating part for poor lubrication. If necessary, apply grease.



HOOD HINGE: Adjustment



- 1. Hood assembly
- 4. Hood lock assembly
- Front fender
- : N·m (kg-m, ft-lb)
- : Body grease

2. Hood bumper rubber

Front bumper fascia

- 3. Hood hinge
- 6. Front combination lamp

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.

Unit: mm (in)

P	ortion			Standard	Difference (RH/LH, MAX)
Hood – Front	A – A	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 combination lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front combination 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	ט-ט	J	Surface height	(-2.0) – (0.0) [(-0.079) – (0.000)]	< 1.5 (0.059)

- Remove front center grille. Refer to <u>EXT-22</u>, "Removal and Installation".
- Remove hood lock assembly.
- 3. Remove front bumper fascia. Refer to EXT-14, "Removal and Installation".
- 4. Remove front combination lamp (LH and RH). Refer to EXL-88, "Removal and Installation".
- 5. Remove front fender assembly (LH and RH). Refer to <u>DLK-127, "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).
- 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-127, "Removal and Installation".
- 13. Install front combination lamp (LH and RH). Refer to EXL-88, "Removal and Installation".
- 14. Install front bumper fascia. Refer to EXT-14, "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.
- 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].

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

Install front center grille. Refer to <u>EXT-22</u>, "Removal and Installation".
 CAUTION:

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

HOOD SUPPORT ROD

HOOD

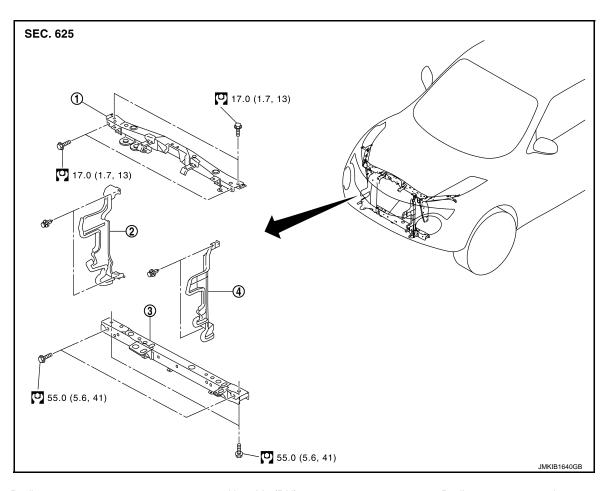
REMOVAL AND INSTALLATION >

IWITH INTELLIGENT KEY SYSTEM

< REMOVAL AND INSTALLATION >	[MINIMATELLIOLINI INC. OTOTLINI]
HOOD SUPPORT ROD : Removal and Installation	INFOID:000000008275616
REMOVAL	
CAUTION:	
Two workers are required to support the hood. 1. Support hood assembly with a suitable material to prevent it fron	m falling
WARNING:	-
Injury may occur if hood assembly is not supported by the assembly.	proper material when removing hood
 Pull hood support rod from grommet and remove. 	
INSTALLATION	
Install in the reverse order of removal.	
	1

RADIATOR CORE SUPPORT

Exploded View



- 1. Radiator core support upper
- 2. Air guide (RH)

3. Radiator core support lower

Air guide (LH)

: N·m (kg-m, ft-lb)

Removal and Installation

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RADIATOR CORE SUPPORT UPPER

Removal

- 1. Remove front bumper fascia. Refer to EXT-14, "Removal and Installation".
- Remove front combination lamp (LH and RH). Refer to <u>EXL-88</u>, "Removal and Installation".
- 3. Remove headlamp (LH and RH). Refer to EXL-86, "Removal and Installation".
- Disconnect crash zone sensor harness connector. Refer to <u>SR-22, "Removal and Installation"</u>.

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

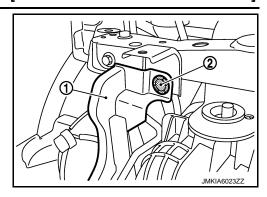
- 5. Remove hood lock and hood lock cable fixing clip. Refer to <u>DLK-148, "HOOD LOCK CONTROL CABLE : Removal and Installation".</u>
- 6. Remove horn bracket. Refer to HRN-4, "Removal and Installation".

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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



- Remove hood support rod. Refer to <u>DLK-123</u>, "HOOD SUPPORT ROD: Removal and Installation".
- Remove mounting bolts, and then remove radiator core support upper.

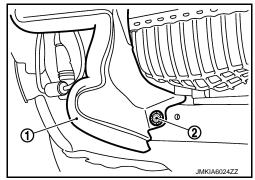
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

Removal

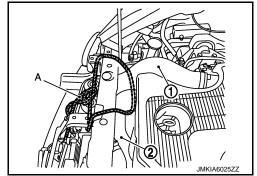
- Remove front bumper fascia. Refer to EXT-14, "Removal and Installation".
- Remove lower fixing clips (2) of radiator side seal (LH and RH)



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

CAUTION:

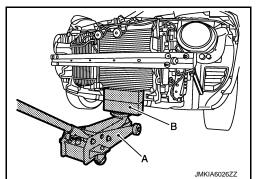
Never damage inlet hoses and charge air cooler.



Support lower side radiator using wooden blocks (A) and a floor jack (B).

CAUTION:

Never damage radiator.



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

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RADIATOR CORE SUPPORT

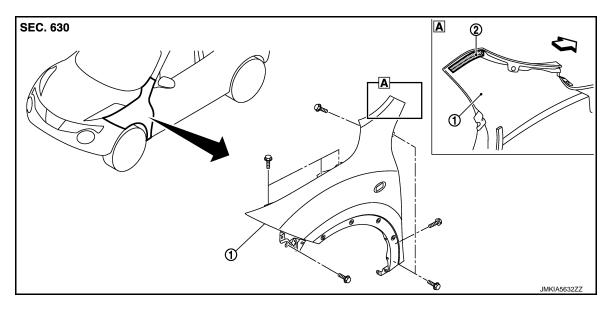
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Install in the reverse order of removal.

FRONT FENDER

Exploded View



1. Front fender assembly

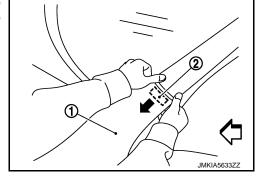
2. Front fender stiffener

Removal and Installation

REMOVAL

- 1. Remove front fillet molding. Refer to EXT-30, "FRONT FILLET MOLDING: Removal and Installation".
- 2. Remove front bumper fascia assembly. Refer to EXT-14, "Removal and Installation".
- 3. Remove sill cover. Refer to EXT-27, "Removal and Installation".
- Remove fender protector. Refer to <u>EXT-26</u>, "Removal and Installation".
- Remove front fender cover. Refer to EXT-26, "Exploded View".
- 6. Remove front combination lamp. Refer to EXL-88, "Removal and Installation".
- 7. Remove side turn signal lamp. Refer to EXL-96, "Removal and Installation".
- 8. Remove mounting bolts of front fender assembly.
- Remove front fender stiffener (2) from the vehicle body while carefully pulling upper portion of front fender (1) toward vehicle outside.

: Vehicle front



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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FRONT FENDER

< REMOVAL AND INSTALLATION >

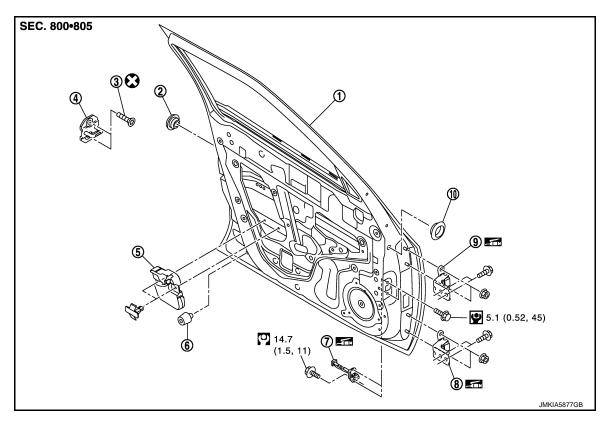
[WITH INTELLIGENT KEY SYSTEM]

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-119</u>, "HOOD ASSEMBLY : Adjustment".
- Front door: Refer to <u>DLK-131, "DOOR ASSEMBLY : Adjustment"</u>.

FRONT DOOR

Exploded View



- 1. Front door panel
- 4. Door striker
- 7. Door check link
- 10. Grommet
- : Do not reuse
- : N·m (kg-m, in-lb)
- : N·m (kg-m, ft-lb)
- : Body grease

- 2. Grommet
- 5. Door pad
- 8. Door hinge (lower)
- 3. TORX bolt
- 6. Bumper rubber
- 9. Door hinge (upper)

DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or electric tools for servicing.

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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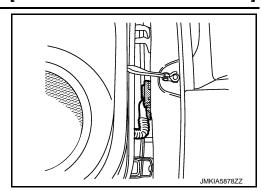
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FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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-131, "DOOR ASSEMBLY: Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

DOOR ASSEMBLY: Adjustment

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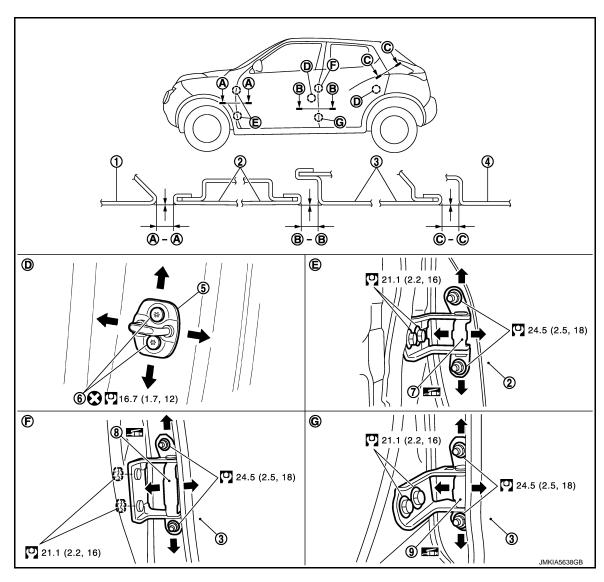
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- Front fender
- Body side outer
- Front door hinge
- : Do not reuse
- : N·m (kg-m, ft-lb)
- : Body grease

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

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.

Unit: mm (in)

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

FITTING ADJUSTMENT PROCEDURE

- Remove front fender. Refer to <u>DLK-127</u>, "Removal and Installation". 1.
- 2. Loosen door hinge mounting nuts on door side.

DLK-131 Revision: 2014 February 2013 JUKE

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FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Adjust the surface height of front door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting bolts on body side.
- Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
- 7. After adjustment tighten bolts and nuts to the specified torque.

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 DLK-127, "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:0000000008275624

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-131, "DOOR ASSEMBLY:</u> <u>Adjustment"</u>.

DOOR HINGE

DOOR HINGE: Removal and Installation

INFOID:0000000008275625

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 DLK-127, "Removal and Installation".
- 2. Remove front door assembly. Refer to DLK-129, "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-131</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjust-ment</u>".
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

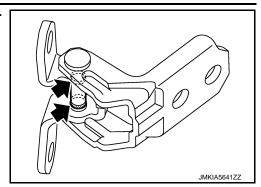
FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

: Grease up point



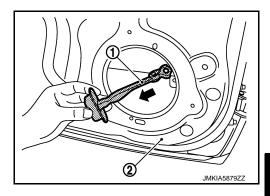
DOOR CHECK LINK

DOOR CHECK LINK: Removal and Installation

INFOID:0000000008275626

REMOVAL

- 1. Fully close the front door window.
- Remove front door finisher. Refer to INT-12, "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).

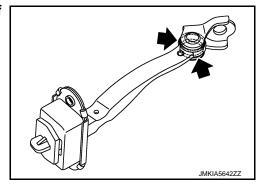


INSTALLATION

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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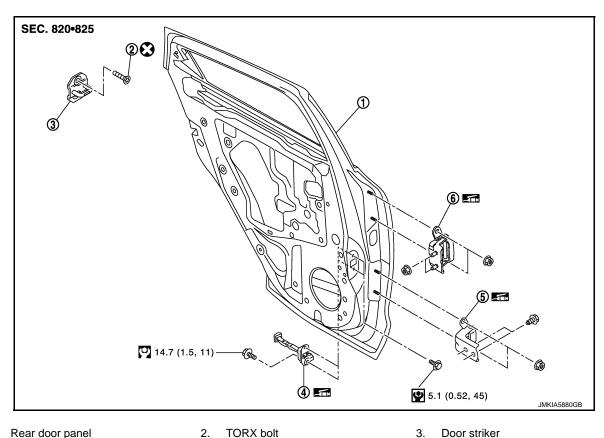
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REAR DOOR

Exploded View INFOID:0000000008275627



3.

6.

Door striker

Door hinge (upper)

- Rear door panel
- Door check link
- : Do not reuse
- : N·m (kg-m, in-lb)
- : N·m (kg-m, ft-lb)
- : Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

INFOID:0000000008275628

CAUTION:

• Perform work with 2 workers, because of it's heavy weight.

2.

5.

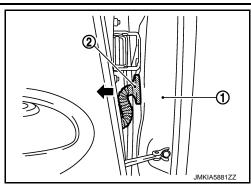
Door hinge (lower)

• When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

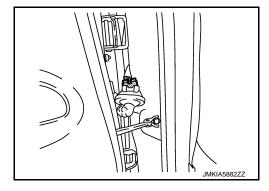
REMOVAL

[WITH INTELLIGENT KEY SYSTEM]

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-136, "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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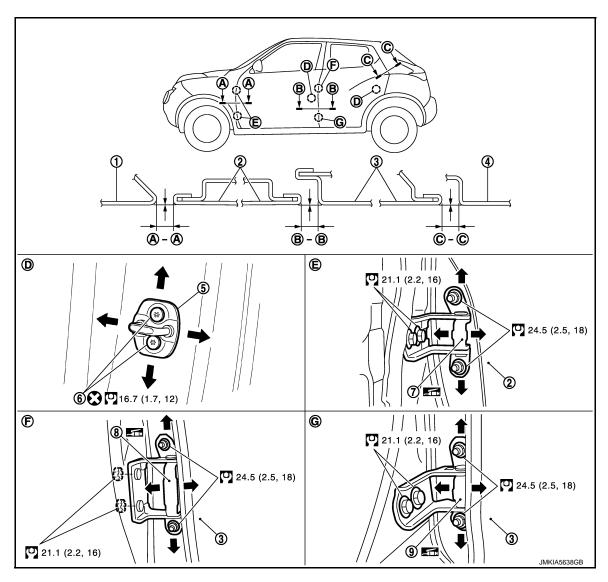
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DOOR ASSEMBLY: Adjustment

INFOID:0000000008275629



- 1. Front fender
- 4. Body side outer
- 7. Front door hinge
- : Do not reuse
- : N·m (kg-m, ft-lb)
- : Body grease

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

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.

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

Remove center pillar lower garnish. Refer to <u>INT-21, "CENTER PILLAR LOWER GARNISH: Removal and Installation"</u>.

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- 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-21, "CENTER PILLAR LOWER GARNISH: 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:00000000008275630

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 DLK-136, "DOOR ASSEMBLY: Adjustment".

DOOR HINGE

DOOR HINGE: Removal and Installation

INFOID:0000000008275631

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

- Remove rear door assembly. Refer to <u>DLK-134</u>, "<u>DOOR ASSEMBLY</u>: <u>Removal and Installation</u>".
- Remove center pillar lower garnish. Refer to INT-21, "CENTER PILLAR LOWER GARNISH: Removal and Installation".
- 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 DLK-136. "DOOR ASSEMBLY : Adjustment".
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

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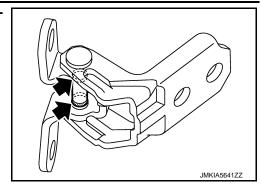
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[WITH INTELLIGENT KEY SYSTEM]

Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

: Grease up point



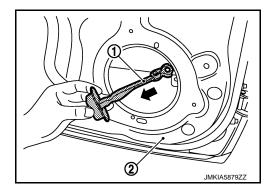
DOOR CHECK LINK

DOOR CHECK LINK: Removal and Installation

INFOID:0000000008275632

REMOVAL

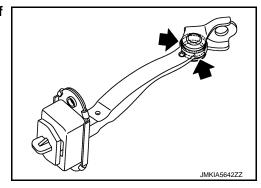
- 1. Fully close the rear door window.
- 2. Remove rear door finisher. Refer to INT-15, "Removal and Installation".
- 3. Remove mounting bolts of rear door speaker, and then remove rear door speaker.
- 4. Disconnect harness connector of rear door speaker.
- 5. Remove mounting bolt of the check link on 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



[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR

Exploded View

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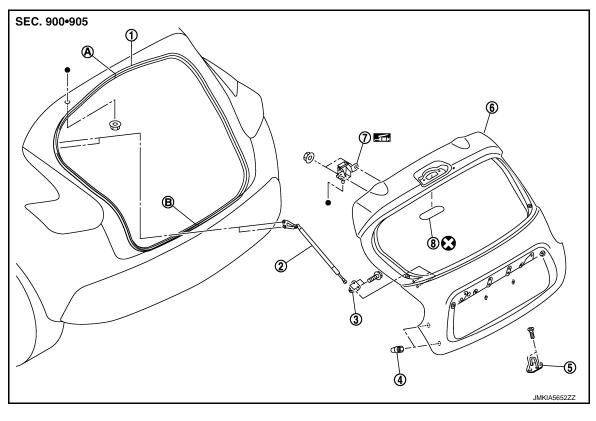
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REMOVAL



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

- 2. Back door stay
- 5. Back door striker
- 8. Hole cover
- B : Seam

- 3. Back door stay lower bracket
- 6. Back door panel

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY: Removal and Installation

INFOID:0000000008275634

CAUTION:

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

REMOVAL

1. Remove luggage side upper finisher (LH and RH). Refer to INT-35, "LUGGAGE SIDE UPPER FINISHER : Removal and Installation".

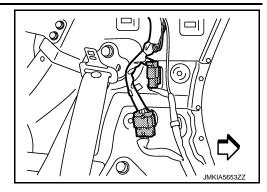
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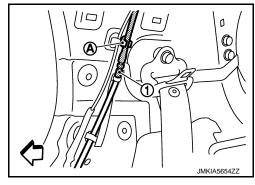
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2. Disconnect harness connector.

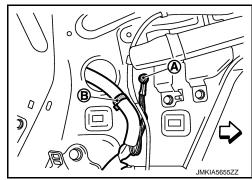


3. Remove rear washer hose (1) from hose mounting clip (A), and then disengage hose.

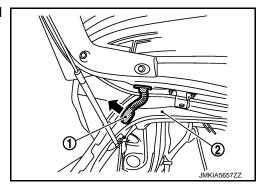


- 4. Remove center pillar upper garnish. Refer to INT-21, "CENTER PILLAR UPPER GARNISH: Removal and Installation".
- 5. Remove upper side of back door weather-strip. Refer to <u>DLK-145, "BACK DOOR WEATHER-STRIP:</u> Removal and Installation".
- 6. Remove rear assist grip (LH and RH) and mounting clips for rear portion of headlining, and then remove rear portion of headlining. Refer to INT-26, "NORMAL ROOF: Exploded View" or INT-29, "SUNROOF: Removal and Installation".
- 7. Remove ground harness mounting bolt (A) and harness fixing clips (B).

< : Vehicle front



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

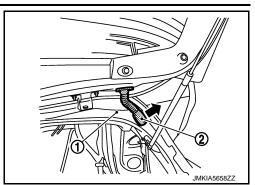


BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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-144, "BACK DOOR STAY: Removal and Installation"</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-142, "BACK DOOR ASSEMBLY: Adjustment"</u>.

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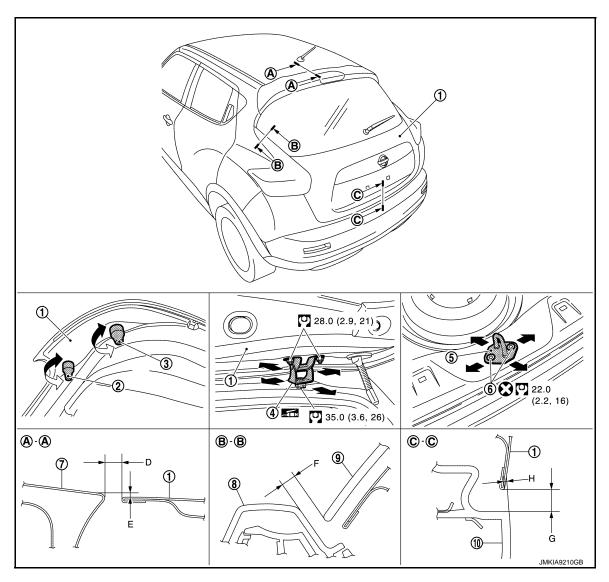
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BACK DOOR ASSEMBLY: Adjustment

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- 1. Back door assembly
- 4. Back door hinge
- 7. Roof panel
- 10. Rear bumper fascia
- : Do not reuse
- : N·m (kg-m, ft-lb)
- : Body grease

- 2. Bumper rubber (upper)
- 5. Back door striker
- 8. Rear combination lamp
- 3. Bumper rubber (lower)
- 6. 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.

Unit: mm (in)

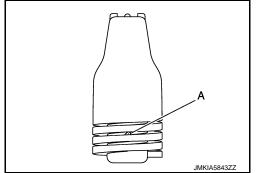
	Portion	1		Standard	Difference (LH/RH, MAX)
Roof panel – Back	Λ _ Λ	D	Clearance	5.0 - 7.0 (0.197 - 0.276)	_
door	A – A	E	Surface height	0.9 – 2.9 (0.035 – 0.114)	_

[WITH INTELLIGENT KEY SYSTEM]

	Portion	1		Standard	Difference (LH/RH, MAX)
Rear combination lamp – Back door B – B F Clearance glass			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	0-0	Н	Surface height	(-2.5) - (+1.0) [(-0.098) - (+0.039)]	_

FITTING ADJUSTMENT PROCEDURE

- Loosen back door striker mounting bolts.
- 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.
- 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-34, "LUGGAGE REAR PLATE: Removal and Installation".
- 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-142, "BACK DOOR ASSEMBLY:</u> <u>Adjustment"</u>.

BACK DOOR HINGE

BACK DOOR HINGE: Removal and Installation

REMOVAL

- Remove back door assembly. Refer to <u>DLK-139</u>, "BACK DOOR ASSEMBLY: Removal and Installation".
- Remove back door hinge mounting nuts (body side), and then remove back door hinge.

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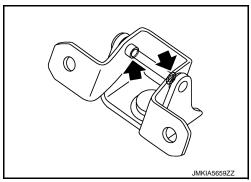
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< REMOVAL AND INSTALLATION >

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 DLK-142, "BACK DOOR ASSEMBLY: Adjustment".
- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.



BACK DOOR STAY

BACK DOOR STAY: Removal and Installation

INFOID:0000000008275638

REMOVAL

- Remove luggage side upper finisher and rear pillar cap. Refer to <u>INT-35</u>, "<u>LUGGAGE SIDE UPPER FIN-ISHER</u>: Removal and Installation".
- 2. Support the back door with the suitable material to prevent it from falling.

WARNING

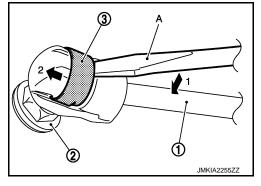
Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

- 3. 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).



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.

[WITH INTELLIGENT KEY SYSTEM]

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BACK DOOR STAY: Disposal

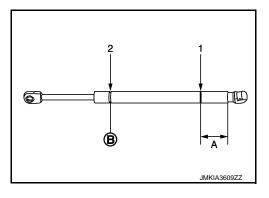
- 1. Fix back door stay (1) using a vise (C).
- 2. Using hacksaw (A) slowly make 2 holes in the back door stay, in numerical order as shown in the figure.

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.

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A: 20 mm (0.787 in)B: Cut at the groove.



BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP: Removal and Installation

INFOID:0000000008275640

REMOVAL

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

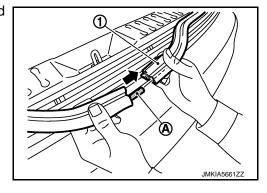
CAUTION

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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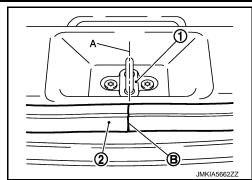
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BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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.



4. 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.

[WITH INTELLIGENT KEY SYSTEM]

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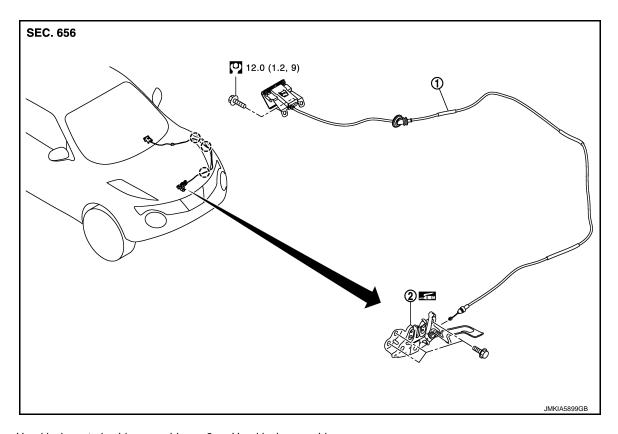
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HOOD LOCK

Exploded View



1. Hood lock control cable assembly

2. Hood lock assembly

() : Clip

: N-m (kg-m, ft-lb)

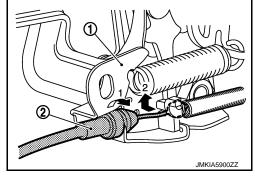
: Body grease

HOOD LOCK

HOOD LOCK: Removal and Installation

REMOVAL

- 1. Remove front center grille. Refer to EXT-22, "Removal and Installation".
- 2. Remove crash zone sensor. Refer to SR-22, "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).



INSTALLATION

< REMOVAL AND INSTALLATION >

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

• Check that hood lock control cable is properly engaged with hood lock.

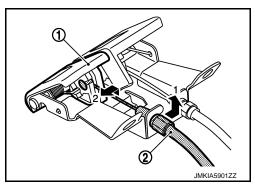
- After installation, perform hood fitting adjustment. Refer to <u>DLK-119, "HOOD ASSEMBLY: Adjustment".</u>
- After installation, perform hood lock control inspection. Refer to <u>DLK-148</u>, "<u>Inspection</u>".
 HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE: Removal and Installation

INFOID:0000000008275643

REMOVAL

- Disconnect hood lock control cable assembly from hood lock assembly.
- 2. Remove fender protector (LH). Refer to EXT-26. "Removal and Installation".
- 3. Remove hood lock cable clip.
- 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 compartment.

CAUTION:

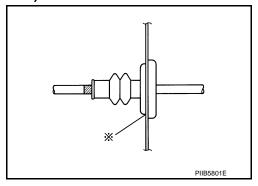
While pulling, never to damage (peeling) the outside of hood lock control cable.

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-119</u>, "<u>HOOD ASSEMBLY</u>: <u>Adjust-ment</u>".
- After installation, perform hood lock control inspection. Refer to <u>DLK-148</u>, "Inspection".

Inspection INFOID:000000008275644

NOTE:

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

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

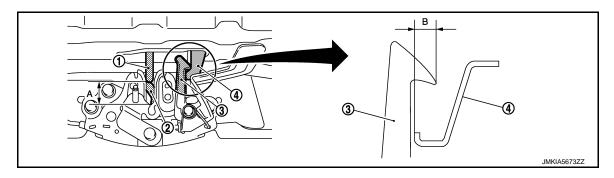
[WITH INTELLIGENT KEY SYSTEM]

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 20 mm (0.787 in) (A). Also, check that the hood opener returns to the original position.

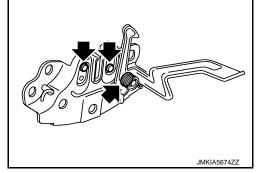


1. Primary striker

2. Primary latch

3. Secondary latch

- 4. Secondary striker
- 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



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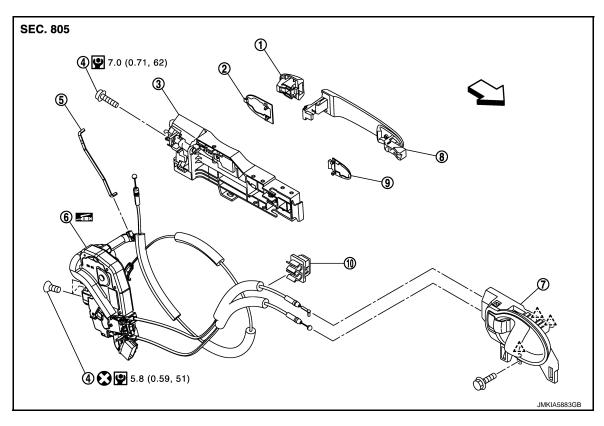
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FRONT DOOR LOCK

Exploded View INFOID:0000000008275645



- 1. Door key cylinder assembly (driver
 - Outside handle escutcheon (passenger side)
- 4. TORX bolt
- Inside handle
- 10. Cable clip
- 六 : Pawl
- : Vehicle front : Do not reuse
- : N·m (kg-m, in-lb)
- : Body grease

- Rear gasket
- Key rod (driver side)
- Outside handle

- Outside handle bracket
- Door lock assembly

INFOID:0000000008275646

Front gasket

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- 1. Remove front door glass and front door lower sash (rear). Refer to GW-16, "Removal and Installation".
- 2. Remove inside handle. Refer to <u>DLK-151</u>, "INSIDE HANDLE: Removal and Installation".
- 3. Disengage inside handle cable and lock knob cable from cable clip.
- 4. Remove outside handle bracket. Refer to DLK-151, "OUTSIDE HANDLE: Removal and Installation".
- 5. Remove door lock assembly TORX bolts.
- 6. Disconnect door lock actuator connector, and then remove door lock assembly.

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

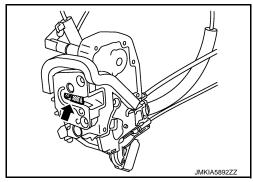
INSTALLATION

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



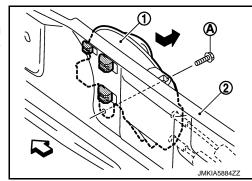
INSIDE HANDLE

INSIDE HANDLE: Removal and Installation

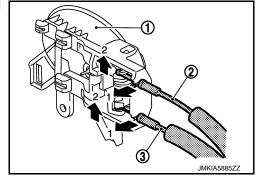
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REMOVAL

- 1. Remove front door finisher. Refer to INT-12, "Removal and Installation".
- 2. Remove inside handle mounting bolt (A).
- Disengage inside handle (1) from door panel (2) while sliding inside handle toward vehicle rear, and then separate inside handle.



4. Disengage inside handle cable (3) and lock knob 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:0000000008275648

REMOVAL

- Fully close the front door glass.
- 2. Remove front door finisher. Refer to INT-12, "Removal and Installation".

Revision: 2014 February DLK-151 2013 JUKE

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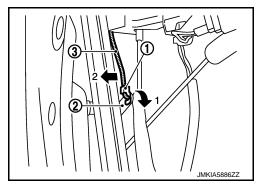
< REMOVAL AND INSTALLATION >

3. Remove sealing screen.

NOTE:

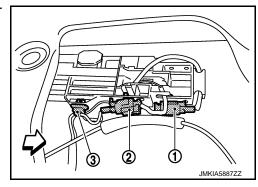
Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

4. Disengage lock holder (1), and then separate key rod (3) from door lock assembly (2).(Driver side)

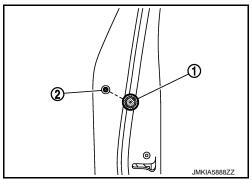


5. Disconnect harness connector of door antenna (1) and door request switch (2) and remove harness clamp (3).

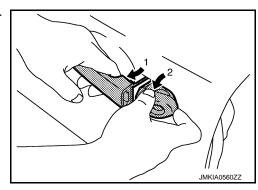




6. Remove grommet (1) of door side. Loosen, through grommet hole, TORX bolt (2) that fixes door lock cylinder. (For passenger side, TORX bolt fixes outside handle escutcheon.)



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

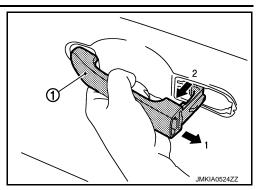


FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

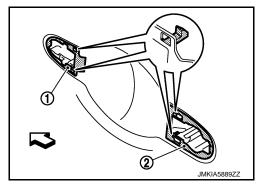
[WITH INTELLIGENT KEY SYSTEM]

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



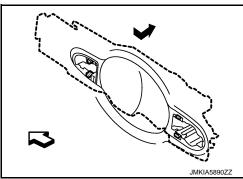
Remove front gasket (1) and rear gasket (2).

⟨⇒ : Vehicle front

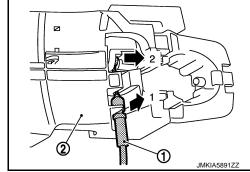


10. Slide outside handle bracket toward rear of vehicle to remove.

⟨ □ : Vehicle front



11. 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.

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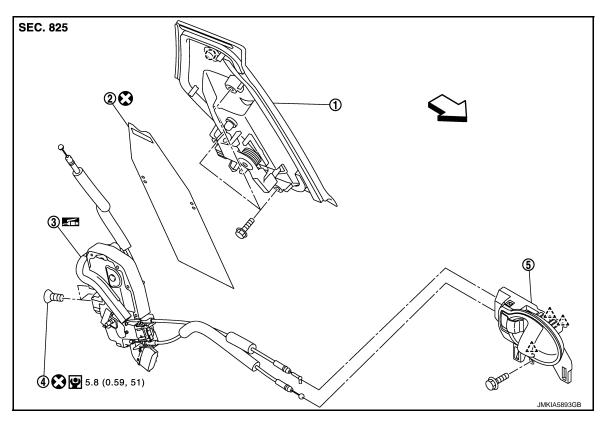
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REAR DOOR LOCK

Exploded View



- 1. Outside handle assembly
- I. TORX bolt
- () : Clip
- ےٰ : Pawl
- : Do not reuse
- : N·m (kg-m, in-lb)
- : Body grease

- 2. Rear door sealing screen
- 5. Inside handle

3. Door lock assembly

INFOID:0000000008275650

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- 1. Remove rear door glass and rear door lower sash (rear). Refer to GW-20, "Removal and Installation".
- 2. Remove inside handle. Refer to DLK-155, "INSIDE HANDLE: Removal and Installation".
- 3. Remove outside handle. Refer to <u>DLK-155</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.

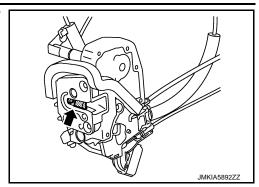
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

 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

INFOID:0000000008275651

REMOVAL

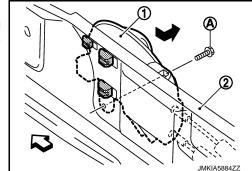
- 1. Remove rear door finisher. Refer to INT-15, "Removal and Installation".
- Remove upper side of sealing screen.

NOTE:

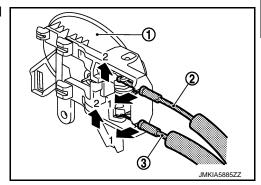
Cut the butyl tape so that some parts of the butyl tape do not remain on the sealing screen, if the sealing screen is reused.

- 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.

: Vehicle front



Disengage inside handle cable (3) and lock knob cable (2), and then remove inside handle (1).



INSTALLATION

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

Check door open/close, lock/unlock operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE: Removal and Installation

INFOID:0000000008275652

REMOVAL

- Remove rear door finisher and rear door corner cover inner. Refer to INT-15, "Removal and Installation".

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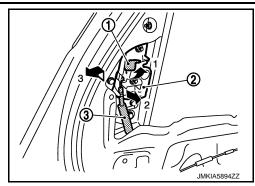
Remove rear door sealing screen.

REAR DOOR LOCK

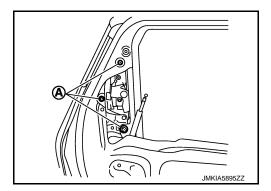
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- 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).

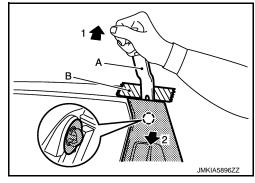


6. Disengage mounting clips using a remover tool (A), and then remove outside handle assembly.

CAUTION:

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



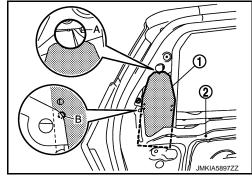


INSTALLATION

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 DLK-154. <a href="Exploded View".
- Check door open/close, lock/unlock operation after installation.

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR LOCK

Exploded View

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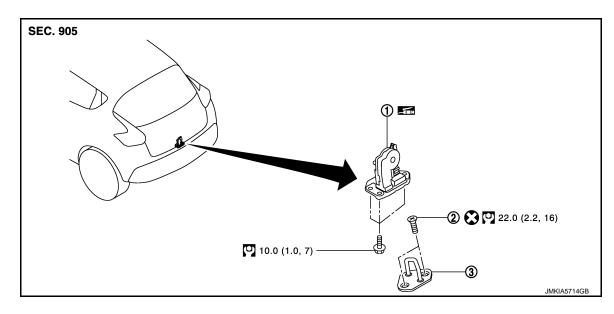
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1. Back door lock assembly

2. TORX bolt

Back door striker

: Do not reuse

: N·m (kg-m, ft-lb)

: Body grease

DOOR LOCK

DOOR LOCK: Removal and Installation

INFOID:0000000008275654

REMOVAL

- Remove the back door lower finisher. Refer to <u>INT-38</u>, "BACK DOOR LOWER FINISHER: Removal and <u>Installation"</u>.
- 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

INFOID:0000000008275655

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.

1. Remove emergency lid. Refer to INT-39, "EMERGENCY LID: Removal and Installation".

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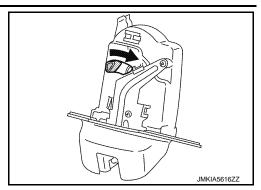
Revision: 2014 February

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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



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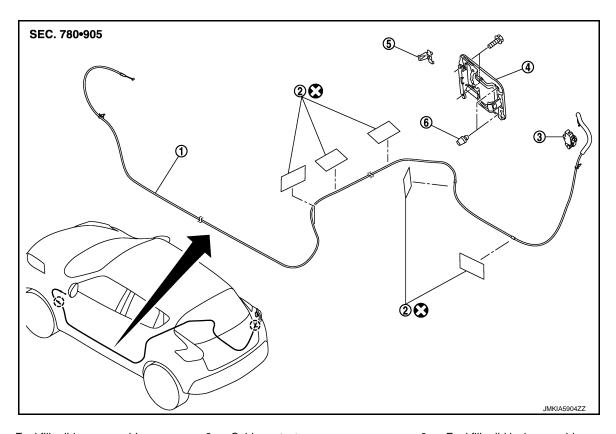
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FUEL FILLER LID OPENER

Exploded View



- 1. Fuel filler lid opener cable
- 4. Fuel filler lid assembly
- 2. Cable protector
- 5. Spring

- 3. Fuel filler lid lock assembly
- 6. Bumper rubber

(]) : Clip

: Do not reuse

FUEL FILLER LID

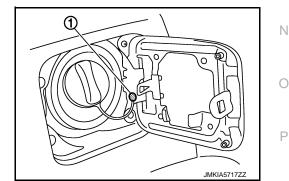
FUEL FILLER LID: Removal and Installation

REMOVAL

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



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

INSTALLATION

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

< 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)

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

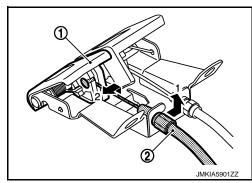
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE: Removal and Installation

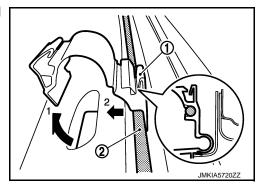
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REMOVAL

- 1. Remove hood lock control cable assembly from instrument lower panel (LH). Refer to DLK-148, "HOOD LOCK CONTROL CABLE: Removal and Installation".
- 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 INT-18, "KICK-ING PLATE INNER: Removal and Installation".
- Remove dash side finisher (LH). Refer to INT-20, "DASH SIDE FINISHER: Removal and Installation".
- Remove center pillar lower garnish (LH). Refer to INT-21, "CENTER PILLAR LOWER GARNISH: Removal and Installation".
- 6. Remove luggage side lower finisher (RH). Refer to INT-34, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
- 7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to DLK-161, "FUEL FILLER LID LOCK: Removal and Installation".
- 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

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FUEL FILLER LID LOCK: Removal and Installation

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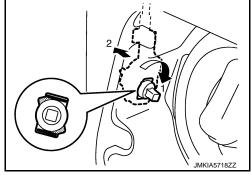
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REMOVAL

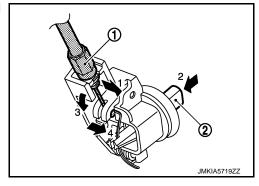
- 1. Fully open fuel filler lid.
- 2. Remove luggage side lower finisher (RH). Refer to INT-34, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".
- 3. Rotate and disengage fuel filler lid lock assembly, and then remove fuel filler lid lock assembly.

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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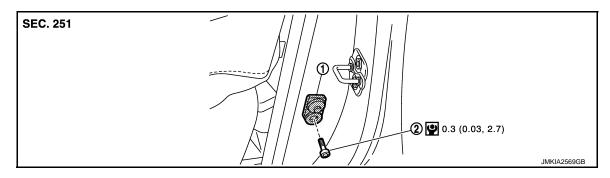
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DOOR SWITCH

Exploded View



1. Door switch

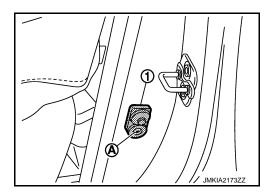
2. TORX bolt

Removal and Installation

INFOID:0000000008275661

REMOVAL

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



INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER: Removal and Installation

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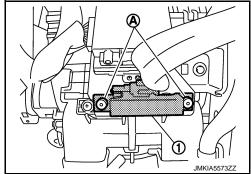
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REMOVAL

- 1. Remove the multi display unit. Refer to AV-163, "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.

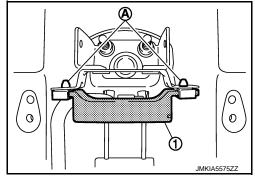
CONSOLE

CONSOLE: Removal and Installation

INFOID:0000000008275663

REMOVAL

- Remove the center console assembly. Refer to <u>IP-22, "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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INSTALLATION

Install in the reverse order of removal.

LUGGAGE ROOM

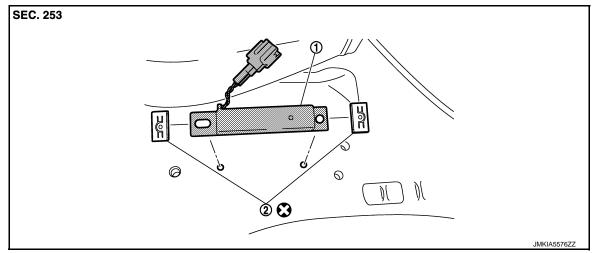
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LUGGAGE ROOM: Exploded View

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1. Inside key antenna (luggage room) 2. Clip

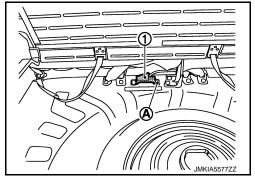
: Do not reuse

LUGGAGE ROOM: Removal and Installation

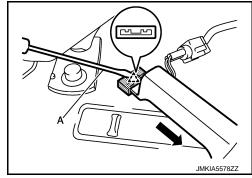
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REMOVAL

- 1. Remove the luggage floor finisher. Refer to INT-32, "Exploded View".
- 2. Remove the inside key antenna (luggage room) (1) mounting clip RH (A).



3. Disengage inside key antenna (luggage room) fixing clip using a flat-bladed screwdriver (A), and then pull out forward the inside key antenna (luggage room).



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.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE: Removal and Installation

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REMOVAL

Remove the driver side outside handle. Refer to <u>DLK-151</u>, "OUTSIDE HANDLE: Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE: Removal and Installation

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REMOVAL

Remove the passenger side outside handle. Refer to <u>DLK-151</u>, "<u>OUTSIDE HANDLE</u>: <u>Removal and Installation</u>".

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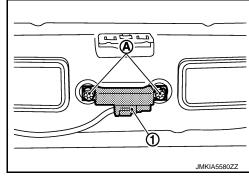
Install in the reverse order of removal.

REAR BUMPER

REAR BUMPER: Removal and Installation

REMOVAL

- Remove the rear bumper fascia. Refer to <u>EXT-19</u>, "Removal and Installation".
- 2. Remove the outside key antenna (rear bumper) (1) mounting clip (A), then remove outside key antenna (rear bumper).



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INSTALLATION

Install in the reverse order of removal.

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INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

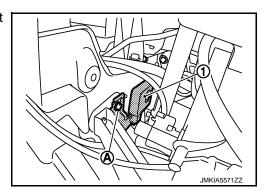
INTELLIGENT KEY WARNING BUZZER

Removal and Installation

INFOID:0000000008275669

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.

REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

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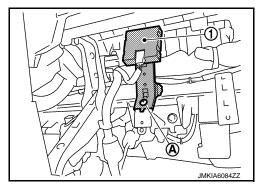
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REMOVAL

- 1. Remove the glove box assembly. Refer to IP-12, "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.

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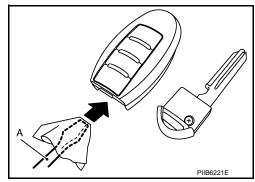
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INTELLIGENT KEY BATTERY

Removal and Installation

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



3. Replace the battery with new one.

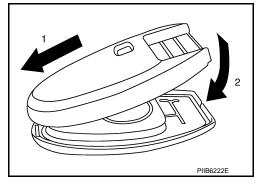
Battery replacement

:Coin-type lithium battery (CR2025)

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

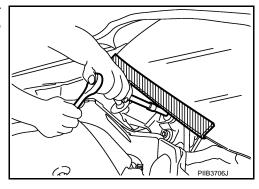
WARNING:

Always observe the following items for preventing accidental activation.

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

Precaution for Procedure without Cowl Top Cover

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



Work

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

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PREPARATION

PREPARATION

Special Service Tools

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

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

Commercial Service Tools

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

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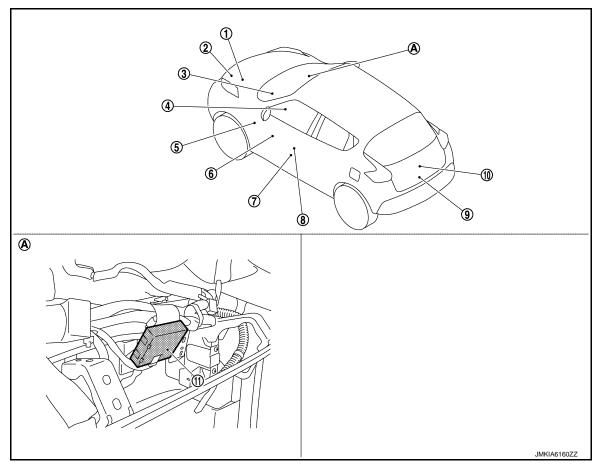
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



IPDM E/R
 Refer to PCS-38, "Component Parts
 Location"

4. Key switch

7. Front door switch (driver side)

10. Back door opener switch

View with the glove box assembly removed

2. TCM

Refer to TM-69, "CVT CONTROL SYSTEM: Component Parts Location"

5. BCM
Refer to BCS-84, "BODY CONTROL
SYSTEM: Component Parts Location"

Front door lock assembly (driver side)

11. Remote keyless entry receiver

3. Combination meter

Power window main switch (door lock/unlock switch)

9. Back door opener assembly

Component Description

INFOID:0000000008275678

Item	Function
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.
BCM	Controls the door lock system.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Item	Function
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 switch	Detects door open/close condition.
IPDM E/R	Sounds horn via CAN communication between BCM.
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.
TCM	Transmits shift position signal to BCM via CAN communication line.

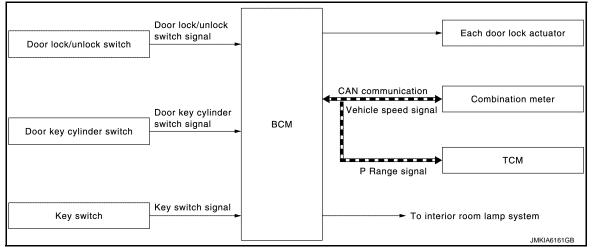
POWER DOOR LOCK SYSTEM

System Diagram

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System Description

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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.

Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to "LOCK", will lock door lock actuator of all doors.
- With the door key inserted in the door key cylinder on driver side, turning it to "UNLOCK" once unlocks the
 driver side door lock actuator; turning it to "UNLOCK" again within 5 seconds after the first unlock operation
 unlocks all of the other doors. (SELECTIVE UNLOCK OPERATION)

KEY REMINDER FUNCTION

When door lock and unlock switch are operated while key is inserted into key switch and any door is open, door locks once but immediately unlocks. This operation prevents keyfob from being left in the vehicle.

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

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

P Range Interlock Door Lock*

All doors are locked when shifting the selector lever from the P position to any position other than P.

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

Setting change of Automatic Door Lock/Unlock Function

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

With CONSULT

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

Without CONSULT

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POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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 seconds after turning the ignition switch ON.
- The switching is completed when the hazard warning lamp blinks.

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

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

The automatic door lock/unlock function is the function that unlocks all doors linked with the key position or shift position. It has 3 types as follows.

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.

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.

P Range Interlock Door Unlock*

All doors are unlocked when shifting the selector lever from any position other than the P to P position.

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

Setting change of Automatic Door Lock/Unlock Function

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

(P) With CONSULT

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

Without CONSULT

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

- 1. Close all doors 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 within 20 seconds after turning the power supply position ON.
- 4. The switching is completed when the hazard warning lamp blinks.

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

^{*:} This function does not operate on M/T models.

REMOTE KEYLESS ENTRY SYSTEM

System Diagram

CAN communication Key ID signal IPDM F/R Horn Remote keyless entry receiver Horn reminder signal Key ID signal Each door lock actuator всм Key switch signal Key switch Each door To turn signal and hazard warning lamp system switch signal Each door switch To interior room lamp control system JMKIA6162GB

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
Lock/unlock	Ignition key is removed from ignition key cylinder

OPERATION AREA

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

SELECTIVE UNLOCK 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 selective unlock mode.

(P) With CONSULT

Selective unlock mode can be set to ON or OFF using CONSULT.

Refer to DLK-178, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Without CONSULT

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

HAZARD AND HORN REMINDER FUNCTION

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

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

Operating Function of Hazard and Horn Reminder

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DLK-175 Revision: 2014 February 2013 JUKE

REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

	C mode			S mode		
Keyfob operation	Lock	Unlock	Back door open	Lock	Unlock	Back door open
Hazard warning lamp blinks	Twice	Once	_	Twice	_	_
Horn sound	Once	_	_	_	_	_

Hazard and horn reminder does not operate if ignition switch ON position.

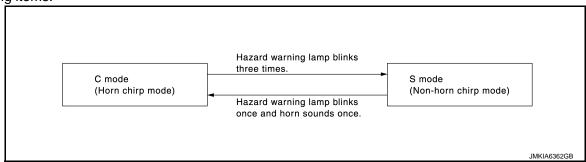
How to change hazard and horn reminder mode

(II) With CONSULT

Refer to DLK-178, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

® Without CONSULT

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



AUTO DOOR LOCK FUNCTION

After door is unlocked by keyfob button operation and if 1 minute 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 lockedKey switch is ON

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-178</u>, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

PANIC ALARM FUNCTION

When key switch in the OFF position, BCM transmits horn reminder signal to IPDM E/R. Then, IPDM E/R turns on and off horn intermittently. Refer to <u>SEC-123</u>, "VEHICLE SECURITY SYSTEM: System Description".

INTERIOR ROOM LAMP CONTROL FUNCTION

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

BACK DOOR OPENER SYSTEM

System Diagram

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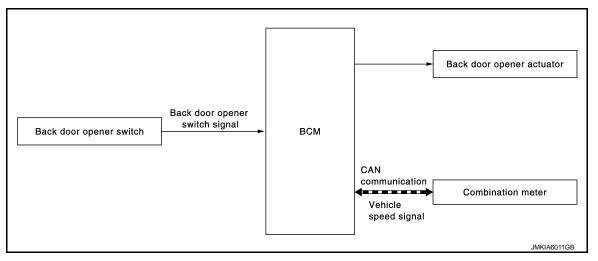
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System Description

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

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 Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item

System	Sub quatem coloction 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 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		×	×
Air conditioning system	AIR CONDITONER		×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NATS	IMMU	×		×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Theft warning alarm	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	×
Signal buffer system	SIGNAL BUFFER		×	×
Panic alarm	PANIC ALARM			×
TPMS	AIR PRESSUE MONITOR	×	×	×

DOOR LOCK

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

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WORK SUPPORT

[WITHOUT INTELLIGENT KEY SYSTEM]

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Monitor item	Description	
DOOR LOCK-UNLOCK SET	Anti-hijack function can be changed to operate with this mode On: Operate Off: 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 24km/h (15MPH) PRANGE*: All doors are locked when shifting the selector lever from P position to other than the P position	
AUTOMATIC DOOR UNLOCK SELECT	 Automatic door unlock function 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

NOTE:

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

Monitor Item	Contents
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
KEY CYL LK-SW	Indicated [On/Off] condition of lock signal from door key cylinder
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder
VEHICLE SPEED	Display the vehicle speed signal received from combination meter by numerical value [Km/h]

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation The all door lock actuators are locked when "ALL LCK" on CONSULT screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT screen is touched The back door lock actuator is unlocked when "BD ULK" on CONSULT screen is touched The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT screen is touched

MULTI REMOTE ENT

MULTI REMOTE ENT: CONSULT Function (BCM - MULTI REMOTE ENT)

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DATA MONITOR

NOTE:

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

Monitor Item	Condition
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	Indicates [On/Off] condition of PANIC button of keyfob

ACTIVE TEST

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]
HORN	This test is able to check horn operation • On: Operate

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

DIAGNOSIS SYSTEM (BCM) [WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Test item	Description
REMO CONT IN CONFIR	It can be checked whether Intelligent Key ID code is registered or not in this mode
HORN CHIRP SET	Hazard and horn reminder function (horn operation) mode can be changed in this mode On: Operate Off: Non-operation
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	Panic alarm button pressing time on keyfob remote control button can be selected from the following with this mode • MODE1: 0.5 sec • MODE2: Non-operation • MODE3: 1.5 sec
TRUNK OPEN SET	NOTE: This item is displayed, but cannot be tested

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

DATA MONITOR

NOTE:

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

Monitor Item	Contents
KEY ON SW	Indicates [On/Off] condition of key switch.
LOCK STATUS	NOTE: This item is displayed, but cannot be monitored.
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.

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[WITHOUT INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

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ECU	Reference
	BCS-109, "Reference Value"
BCM	BCS-122, "Fail-safe"
DCIVI	BCS-123, "DTC Inspection Priority Chart"
	BCS-123, "DTC Index"

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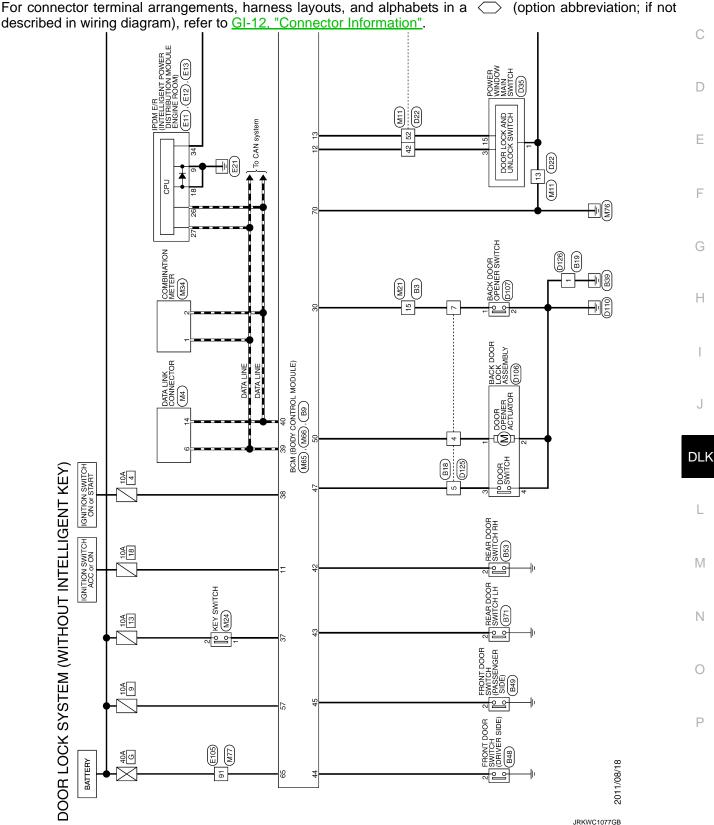
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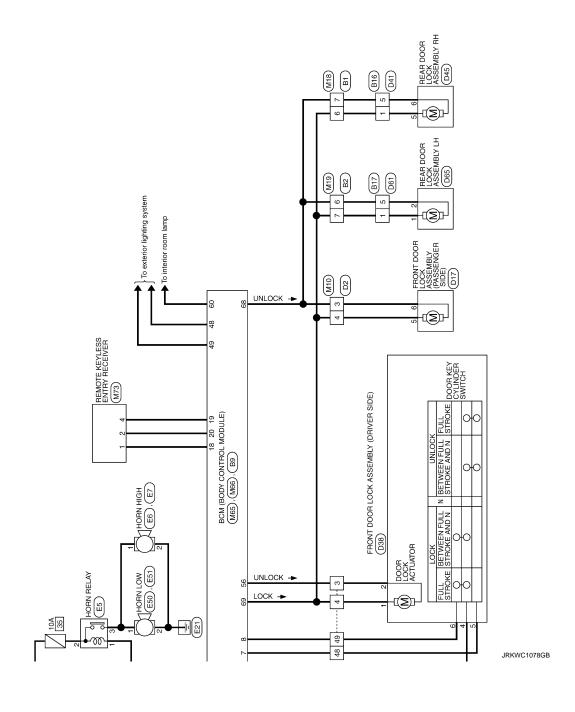
WIRING DIAGRAM

DOOR & LOCK SYSTEM

Wiring Diagram INFOID:0000000008275690

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not





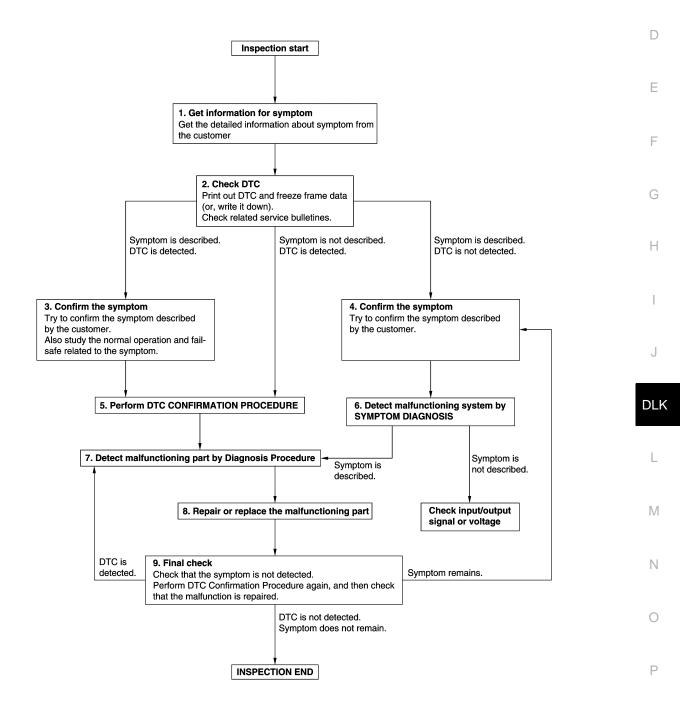
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

[WITHOUT INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2. CHECK DTC

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

Are any symptoms described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

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

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to BCS-123, "DTC Inspection Priority Chart" (BCM), and determine trouble diagnosis order.

NOTE:

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

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

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-43, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-SULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-43, "Intermittent Incident".

8.repair or replace the malfunctioning part

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

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

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

>> Before returning the vehicle to the customer, always erase DTC. NO

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[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB ID REGISTRATION

Description INFOID:000000008275692

Perform the following procedure after BCM is replaced or when new keyfob ID is registered

When registering the keyfob ID, perform only one procedure to simultaneously register both ID (IMMOBI-LIZER ID and keyfob ID).

Work Procedure

INFOID:0000000008275693

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

- 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.
- All doors unlock simultaneously.
- 3. Hazard warning lamp blinks(2 times).
- 4. Key ID is registered.

12.10.0	ELLIGENT KEY SYSTEM]
Is key ID registered?	A
YES-1 >> When adding a keyfob: GO TO 6. YES-2 >> When ending registration: GO TO 8.	/ \
NO >> GO TO 6.	5
8.STEP 8	В
Open the front door driver side.	
>> REGISTRATION END	С
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BACK DOOR OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

BACK DOOR OPENER ACTUATOR

Diagnosis Procedure

INFOID:0000000008275694

1. CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL

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

(+) Back door lock assembly		(–)	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.

BCM		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	50	D106	1	Existed

3. Check continuity between BCM harness connector and ground.

В	BCM		Continuity	
Connector	Connector Terminal		Continuity	
M65	50		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-142, "Removal and Installation".

NO >> Repair or replace harness.

3.check back door opener actuator ground circuit

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

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D106	2		Existed

Is the inspection normal?

YES >> Replace back door lock assembly.

NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER SWITCH

Component Function Check

INFOID:0000000008275695

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1. CHECK FUNCTION

- 1. Select "TRUNK" of "BCM" using CONSULT.
- 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
TICINIC OF THIC OW	DACK door opener switch	Released	OFF

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to <u>DLK-191, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000008275696

1. CHECK BACK DOOR OPEN INPUT SIGNAL

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

-	+) pener switch Terminal	(-)	Signal (Reference value)
D107	1	Ground	(V) 15 10 5 0 10 ms

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	ВСМ		Back door opener switch	
Connector	Terminal	Connector	Terminal	Continuity
M65	30	D107	1	Existed

3. Check continuity between BCM harness connector and ground.

ВСМ			Continuity	
Connector	Connector Terminal		Continuity	
M65	30		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-142, "Removal and Installation".

NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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 normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR OPENER SWITCH

Refer to DLK-192, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275697

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 opener switch		Condition		Continuity
Terminal				
1	1 2		Pressed	Existed
ı	2	switch	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch.

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR KEY CYLINDER SWITCH

Component Function Check

INFOID:0000000008275698

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1. CHECK FUNCTION

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

Monitor item	Cor	Status	
KEY CYL LK-SW		Lock	ON
	- Driver side door key cylinder	Neutral / Unlock	OFF
KEY CYL UN-SW		Unlock	ON
		Neutral / Lock	OFF

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Refer to <u>DLK-193</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275699

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

(+) Front door lock assembly (driver side)		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(дрргох.)	
D38	5	Ground	(V) 15 10 5 0	
	6		Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

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

ВСМ		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	7	D38	5	Existed
WOS	8	D30	6	LAISted

3. Check continuity between BCM harness connector and ground.

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DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

	ВСМ		Continuity	
Connector	Terminal	Ground	Continuity	
M65	7	Giodila	Not existed	
IVIOS	8		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-142, "Removal and Installation".

NO >> Repair or replace harness.

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

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

Front door lock as	sembly (driver side)		Continuity
Connector	Terminal	Ground	Continuity
D38	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-194, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

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

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275700

1. CHECK DOOR KEY CYLINDER SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect front door lock assembly (driver side) terminal.
- 3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock assembly (driver side) Terminal		Condition		Continuity
				Continuity
-		Unlock	Existed	
5	5	Driver eide deer key eylinder	Neutral / Lock	Not existed
6	Driver side door key cylinder	Lock	Existed	
		Neutral / Unlock	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

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

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE: Component Function Check

INFOID:0000000008275701

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1. CHECK FUNCTION

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

Monitor item		Status	
DOOR LOCK	ALL LOCK	Door lock actuators	LOCK
	ALL UNLK	DOOF TOOK actuators	UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-195, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000008275702

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 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 lo	+) ock assembly r side)	(–) Condition Vol. (App.		Condition		
Connector	Terminal					
D38	2	Ground	Door look and uplook switch			12 V
	1	Giodila	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

- Disconnect BCM connector and all door lock assembly connector.
- 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
M66	M66 56		2	Existed
IVIOO	69	D38	1	LXISIEU

3. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M66	56	Giouna	Not existed
IVIOO	69		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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DOOR LOCK ACTUATOR

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK BCM OUTPUT SIGNAL

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

	+) CM	(–)	Condition		(-) Condition Voltage (Approx.)	Voltage (Approx.)
Connector	Terminal				(11 -)	
M66	56	Ground	Door lock and unlock switch	Unlock	12 V	
IVIOO	69		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-142, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Component Function Check

INFOID:0000000008275703

1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 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	DOOI TOOK ACTUATORS	UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-195</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000008275704

${f 1}$.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 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.

(+)		(–) Condition			
Front door lock assembly (passenger side)				Voltage (Approx.)	
Connector	Terminal				
D17	6	Ground	Door lock and unlock switch	Unlock	12 V
DIT	5	Giouna	DOOL LOCK 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.
- Check continuity between BCM harness connector and front door lock assembly (passenger side) harness connector.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

ВСМ		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	68	D17	6	Existed
IVIOO	69	017	5	Existed

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M66	68	Giodila	Not existed
IVIOO	69		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

(+) BCM		(–)	Condition		Voltage (Approx.)	
Connector	Terminal				(. +)	
M66	68	68 Ground F	68 Ground Door lock and unlock swite	Door lock and unlock switch	Unlock	12 V
IVIOO	69	Giodila	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-142, "Removal and Installation".

REAR LH

REAR LH: Component Function Check

1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 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 LOCK	ALL UNLK	DOOI TOCK ACTUATORS	UNLOCK

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-195</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

REAR LH: Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

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(+)				V 16
Rear door loc	k assembly LH	(–)	Condition		Voltage (Approx.)
Connector	Terminal				(11 /
D65	2	Ground Door lock and unlock switch	Unlock	12 V	
D03	1	Ground	Door lock and unlock switch	Lock	12 V

Is the inspection result normal?

YES >> Replace rear door lock assembly LH.

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 LH harness connector.

всм		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	68	D65	2	Existed
MOO	69	D05	1	LXISIGU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M66	68	Ground	Not existed	
IVIOO	69		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

(+) BCM		(–)	Condition		Voltage (Approx.)
Connector	Terminal	•			(7.55107.)
M66	68	Ground	Door lock and unlock switch	Unlock	12 V
IVIOO	69	Giouna	DOOF TOCK AND UNIOCK 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-142, "Removal and Installation".

REAR RH

REAR RH: Component Function Check

1.CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 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	DOOL LOCK ACTUATORS	UNLOCK

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-195</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

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.

(-	+)		(–) Condition		M. Karan
Rear door lock	k assembly RH	(–)			Voltage (Approx.)
Connector	Terminal				
D45	6	Ground	Door lock and unlock switch	Unlock	12 V
D43	5	Giodila	Door lock and unlock Switch	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.

ВСМ		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	68	D45	6	Existed
IVIOO	69	543	5	LAISIEU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M66	68	Giodila	Not existed
IVIOO	69		NOT EXISTER

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

(+) BCM					
		(–)	Condition		Voltage (Approx.)
Connector	Terminal				(11 /
M66	68	Ground	Ground Door lock and unlock switch	Unlock	12 V
WOO	69	Ground		Lock	IZ V

Is the inspection result normal?

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

NO >> Replace BCM. Refer to BCS-142, "Removal and Installation".

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR LOCK AND UNLOCK SWITCH

Component Function Check

INFOID:0000000008275709

1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 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
	- 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-200, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000008275710

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 main switch		Signal (Reference value)	
Connector	Terminal		(Neierence value)	
	3			
D35	15	Ground	(V) 15 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 power window main switch harness connector.

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	12	D35	3	Existed
COIVI	13		15	LAISIEU

Check continuity between BCM harness connector and ground.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

BCM			Continuity
Connector	Terminal	Ground	Continuity
M65	12	Giouna	Not existed
WIOO	13		INOL EXISTED

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harness.

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
D35	1		Existed

Is the inspection result normal?

YES >> GO TO 4.

>> Repair or replace harness. NO

4. CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to DLK-201, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to PWC-50, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275711

1. CHECK DOOR LOCK AND UNLOCK SWITCH

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

Power window main switch		Condition		Continuity
Terminal				
3	2	Door lock and unlock switch	LOCK	Existed
3	4		UNLOCK	Not existed
15			LOCK	Not existed
			UNLOCK	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch.

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DOOR SWITCH

Component Function Check

INFOID:0000000008275712

1. CHECK FUNCTION

- Select "DOOR LOCK" of "BCM" using CONSULT.
- 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	Open	On
DOOR SW-DR	Driver side door	Closed	Off
DOOR SW-AS	December side door	Open	On
	Passenger side door	Closed	Off
DOOR SW-RL	Rear door LH	Open	On
		Closed	Off
DOOR SW-RR	Rear door RH	Open	On
DOOR SW-RR		Closed	Off
DOOR SW-BK	Pack door	Open	On
	Back door	Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-202</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275713

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.

	(+)			<u>.</u>
Door switch Connector Terminal		(–)	Signal (Reference value)	
		Terminal		(1.0.0.0.100 Value)
Driver side	B48			
Passenger side	B49	2		(V) 15
Rear LH	B71	2	2	10 5
Rear RH	B53		Ground	0
Back door	D106	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

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

[WITHOUT INTELLIGENT KEY SYSTEM]

Door switch		всм		Continuity	
Cor	nector	Terminal	Connector	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 continuity between door switch harness connector and ground.

Door switch				Continuity
Connector Terminal			Continuity	
Driver side	B48			
Passenger side	B49		Ground	
Rear LH	B71	- 2		Not existed
Rear RH	B53	-		
Back door	D106	3		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-142, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

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

Back do	or switch		Continuity
Connector	Connector Terminal		Continuity
D106	4		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR SWITCH

Refer to DLK-203, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning door switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK DOOR SWITCH

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

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INFOID:0000000008275714

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DOOR SWITCH

[WITHOUT INTELLIGENT KEY SYSTEM]

	Door switch		Condition		Continuity	
Terminal		Condition		Continuity		
Driver side				Pressed	Existed	
Driver side				Released	Not existed	
Daggaraida		Ground part of door			Pressed	Existed
Passenger side	asseriger side 2		Da an avvitale	Released	Not existed	
Rear LH	2	switch	Door switch	Pressed	Existed	
Rear Ln				Released	Not existed	
Door DII				Pressed	Existed	
Rear RH					Released	Not existed
Back door	2	,	Back door lock as-	Lock	Existed	
SACK GOOT	ck door 3 4	sembly	Unlock	Not existed		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

HAZARD FUNCTION

Component Function Check

INFOID:0000000008275715

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1. CHECK FUNCTION

- 1. Select "MULTI REMOTE ENT" of "BCM" using CONSULT.
- Select "FLASHER" in "ACTIVE TEST" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item		Status	
	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-205, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000008275716

1. CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-69, "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-43, "Intermittent Incident".

>> INSPECTION END

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[WITHOUT INTELLIGENT KEY SYSTEM]

KEY SWITCH

Component Function Check

INFOID:0000000008275717

1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 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	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-206</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275718

1.CHECK FUSE

- 1. Turn ignition switch OFF.
- Check 10 A fuse, [No.13, 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.
- Check voltage between key switch harness connector and ground.

Key	switch		Voltage
Connector Terminal		Ground	vollage
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:	Key switch		BCM		
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

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. CHECK KEY SWITCH

Refer to DLK-207, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace key switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008275719

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COMPONENT INSPECTION

1. CHECK KEY SWITCH

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

Key switch		Condition		Continuity
Term	inal	Condition		Continuity
1	2	Keyfob	Inserted in key cylinder	Existed
	2	Reylob	Removed from key cylinder	Not existed

Is the inspection result normal?

YES >> INSPECTION END NO >> Replace key switch.

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KEYFOB BATTERY

[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB BATTERY

Component Function Check

INFOID:0000000008275720

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-208</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275721

1. CHECK KEYFOB BATTERY

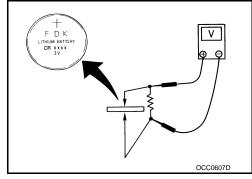
Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

YES >> Replace keyfob.

NO >> Replace keyfob battery.



REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

INFOID:0000000008275722

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1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 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
	Kardah huttan	UNLOCK	Off
KEYLESS UNLOCK	- Keyfob button	LOCK	Off
		UNLOCK	On

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

NO >> Refer to <u>DLK-209</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008275723

1. CHECK BCM SIGNAL 1

1. Turn ignition switch OFF.

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

(+)		Voltage (V) (Approx.)	
Remote keyles	s entry receiver	(–)		
Connector	Connector Terminal		(4.1)	
M73	4	Ground	5	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLYCIRCUIT

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

В	BCM Remote keyles		s entry receiver	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M65	19	M73	4	Existed	

Check continuity between BCM harness connector and ground.

В	ВСМ		Continuity
Connector	Terminal	Ground	Continuity
M65	19		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-142, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

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

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

(+) Remote keyless entry receiver		Sie		
		(–)	Signal (Reference value)	
Connector	Terminal		(relations value)	
			Insert mechanical key into ignition key cylinder	0 V
		Remove mechanical key from ignition key cylinder (Any door opened)	5 V	
M73	4	Ground	Remove mechanical key from ignition key cylinder (Any door closed)	(V) 6 4 2 0 **0.2 s

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace remote keyless entry receiver.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

В	CM	Remote keyless entry receiver		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M65	18	M73	1	Existed	

3. Check continuity between BCM harness connector and ground.

В	BCM		Continuity
Connector	Terminal	Ground	Continuity
M65	18		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK BCM SIGNAL 2

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

(+) Remote keyless entry receiver		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(* * * * * * * * * * * * * * * * * * *	
M73	2	Ground	5	

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

6. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

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

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

BCM Remote k		Remote keyless entry receiver		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M65	20	M73	2	Existed	

3. Check continuity between BCM harness connector and ground.

В	ВСМ		Continuity
Connector	Terminal	Ground	Continuity
M65	20		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-142, "Removal and Installation".

NO >> Repair or replace harness.

7.CHECK REMOTE KEYLESS ENTRY RECEIVER SIGNAL

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

	+) s entry receiver	(–)	Condition	Signal
Connector	Terminal			(Reference value)
M73	2	Ground	Waiting	(V) 15 10 5 0 MKIA3838GB
	_	Sidana	Press the Intelligent Key lock or unlock button	(V) 15 10 5 0 1 ms JMKIA3841GB

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace remote keyless entry receiver.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITHOUT INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

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

ALL DOOR

ALL DOOR: Description

INFOID:0000000008275724

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

ALL DOOR: Diagnosis Procedure

SYMPTOM DIAGNOSIS

INFOID:0000000008275725

CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to DLK-200, "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-195, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

- Replace BCM. Refer to BCS-142, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000008275726

Driver side door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000008275727

1. CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side).

Refer to DLK-195, "DRIVER SIDE: 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-142</u>, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YFS >> INSPECTION END

>> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

PASSENGER SIDE

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH < SYMPTOM DIAGNOSIS > [WITHOUT INTELLIGENT KEY SYSTEM]

PASSENGER SIDE : Description	INFOID:00000000827572
Passenger side door does not lock/unlock using door lock and unlock switch.	
PASSENGER SIDE : Diagnosis Procedure	INFOID:00000000827572
1. CHECK DOOR LOCK ACTUATOR	
Check front door lock assembly (passenger side). Refer to DLK-196, "PASSENGER SIDE: 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-142</u>, "<u>Removal and Installation</u>". Confirm the operation after replacement. 	
ls the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". REAR LH	
REAR LH : Description	INFOID:00000000827573
Rear LH side door does not lock/unlock using door lock and unlock switch.	
REAR LH : Diagnosis Procedure	INFOID:00000000827573
1. CHECK DOOR LOCK ACTUATOR	
Check rear door lock assembly LH. Refer to DLK-197, "REAR LH: 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-142, "Removal and Installation"</u> .	
 Confirm the operation after replacement. 	
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
REAR RH	
REAR RH : Description	INFOID:00000000827573
Rear RH side door does not lock/unlock using door lock and unlock switch.	
REAR RH : Diagnosis Procedure	INFOID:00000000827573
1.check door lock actuator	IIV 012.000000000027070
Check rear door lock assembly RH Refer to DLK-198, "REAR RH: Component Function Check".	
ls the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2. REPLACE BCM	
Replace BCM. Refer to <u>BCS-142, "Removal and Installation"</u> .	

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITHOUT INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION [WITHOUT INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

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

TION 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 DLK-212, "ALL DOOR: Diagnosis Procedure".

2. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to DLK-193, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

- Replace BCM. Refer to BCS-142, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

>> INSPECTION END YES

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

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INFOID:0000000008275734

DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

Diagnosis Procedure

INFOID:0000000008275735

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-212</u>, "ALL <u>DOOR</u>: <u>Diagnosis Procedure"</u>.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to DLK-209, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to DLK-193, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-202, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

CHECK KEYFOB BATTERY

Check keyfob battery.

Refer to DLK-208, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

- 1. Replace BCM. Refer to BCS-142, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

BACK DOOR DOES NOT OPENED

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYNIPTONI DIAGNOSIS >	Willion Wilesian Ker Oloremj
BACK DOOR DOES NOT OPENED	Д
Diagnosis Procedure	INFOID:000000008275736
1. CHECK BACK DOOR OPENER SWITCH	E
Check back door opener switch. Refer to DLK-191, "Component Function Check".	
Is the inspection result normal?	C
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-190</u> , " <u>Diagnosis Procedure</u> ".	F
Is the inspection result normal?	_
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	_
3.CHECK VEHICLE SPEED SIGNAL	F
Check vehicle speed signal. Refer to MWI-31, "DTC Index".	G
Is the inspection result normal?	
YES >> GO TO 4.	H
NO >> Repair or replace the malfunctioning parts.	Г
4.REPLACE BCM	
 Replace BCM. Refer to <u>BCS-142, "Removal and Installation"</u> Confirm the operation after replacement. 	·
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-43, "Intermitt	ent Incident"
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SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275737

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

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode.
- Check "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" Refer to <u>DLK-178</u>, "DOOR LOCK: <u>CONSULT Function</u> (<u>BCM - DOOR 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-142, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE [WITHOUT INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPER-

ATE

Diagnosis Procedure

1. CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

Select "DOOR LOCK" of "BCM" using CONSULT.

- Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to DLK-178, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

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"

- Select "DOOR LOCK" of "BCM" using CONSULT.
- Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT". Refer to DLK-178, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.

>> Set "VH SPD" in "AUTOMATIC DOOR LOCK SELECT". NO

3.REPLACE BCM

- Replace BCM. Refer to BCS-142, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

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INFOID:0000000008275738

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IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275739

1. CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

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

 Refer to DLK-178, "DOOR LOCK: CONSULT Function (BCM DOOR 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.
- Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".
 Refer to <u>DLK-178</u>, "<u>DOOR LOCK</u>: <u>CONSULT Function</u> (<u>BCM DOOR LOCK</u>)".

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-142, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS > [WITHOUT INTELLIGENT RET STSTEM]	
P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE	A
Diagnosis Procedure	ОВ
1. CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"	_
 Select "DOOR LOCK" of "BCM" using CONSULT. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-178</u>, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)". 	С
Is the inspection result normal?	D
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"	Е
 Select "DOOR LOCK" of "BCM" using CONSULT. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-178</u>. "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)". 	F
Is the inspection result normal? YES >> GO TO 3.	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. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode. Check "AUTOMATIC DOOR UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-178</u>, "<u>DOOR LOCK</u>: <u>CONSULT Function</u> (<u>BCM - DOOR LOCK</u>)". 	
Is the inspection result normal? YES >> GO TO 4. NO >> Set "MODE 2" or "MODE 4" in "AUTOMATIC DOOR UNLOCK SELECT". 4.CHECK TCM	J
Check TCM for DTC.	DLK
Refer to TM-116, "DTC Index".	
Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	L
5.REPLACE BCM	M
 Replace BCM. Refer to <u>BCS-142</u>, "<u>Removal and Installation</u>". Confirm the operation after replacement. 	•
Is the result normal?	Ν
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
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AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275741

1. CHECK "AUTO LOCK SET" SETTING WITH CONSULT

- 1. Select "MULTI REMOTE ENT" of "BCM" using CONSULT.
- 2. Select "AUTO LOCK SET" in "WORK SUPPORT" mode.
- 3. Check "AUTO LOCK SET" in "WORK SUPPORT".

 Refer to DLK-180, "MULTI REMOTE ENT: CONSULT Function (BCM MULTI REMOTE ENT)".

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 BCS-142, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

UNLOCK LINK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

UNLOCK LINK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275742

1.REPLACE BCM

В

- 1. Replace BCM. Refer to <u>BCS-142, "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

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KEY OUT INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

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[WITHOUT INTELLIGENT KEY SYSTEM]

KEY OUT INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275743

${f 1.}$ CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT". Refer to DLK-178, "DOOR LOCK: CONSULT Function (BCM - DOOR 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.
- 2. Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT".

 Refer to DLK-178, "DOOR LOCK: CONSULT Function (BCM DOOR 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

- 1. Replace BCM. Refer to BCS-142, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEY REMINDER FUNCTION DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000008275744 1. CHECK DOOR LOCK AND UNLOCK SWITCH В Check door lock and unlock switch. Refer to <u>DLK-200</u>, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. D 2. CHECK KEY SWITCH Check key switch. Refer to DLK-206, "Component Function Check". Е Is the inspection result normal? YES >> GO TO 3. >> Repair or replace the malfunctioning parts. NO F 3.CHECK DRIVER SIDE DOOR SWITCH Check driver side door switch. Refer to DLK-202, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. Н >> Repair or replace the malfunctioning parts. NO 4. REPLACE BCM Replace BCM. Refer to BCS-142, "Removal and Installation". Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

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HAZARD REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

HAZARD REMINDER OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008275745

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-123, "DTC_Index"</u>. (BCM)

NO-2 >> Refer to MWI-31, "DTC Index". (Combination meter)

2.CHECK "HAZARD LAMP SET" SETTING IN "WORK SUPPORT"

- 1. Select "MULTI REMOTE ENT" of "BCM" using CONSULT.
- 2. Select "HAZARD LAMP SET" in "WORK SUPPORT" mode.
- Check "HAZARD LAMP SET" in "WORK SUPPORT".
 Refer to <u>DLK-180</u>, "MULTI REMOTE ENT: CONSULT Function (BCM MULTI REMOTE ENT)".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "HAZARD LAMP SET" in "WORK SUPPORT".

${f 3.}$ CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to DLK-205, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

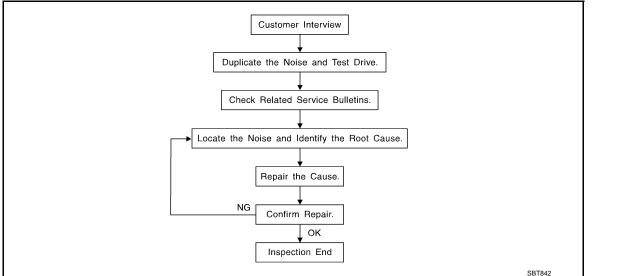
- Replace BCM. Refer to <u>BCS-142</u>, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to DLK-231, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
 are provided so the customer, service adviser and technician are all speaking the same language when
 defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
 higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity
- dent on materials/often brought on by activity.

 Rattle (Like shaking a baby rattle)
- Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.

 Knock (Like a knock on a door)
- Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand)
 Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise)
 Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumblebee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician
 may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

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

REPAIR THE CAUSE

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

CAUTION:

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

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

71L02:15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97 \times 1.97 in)/73982-

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

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

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

UHMW (TEFLON) TAPE

< SYMPTOM DIAGNOSIS >

Trunk lid striker out of adjustment

4. A loose license plate or bracket

The trunk lid torsion bars knocking together

[WITHOUT INTELLIGENT KEY SYSTEM]

Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α Used in place of UHMW tape that is be visible or does not fit. Will only last a few months. SILICONE SPRAY Used when grease cannot be applied. В **DUCT TAPE** Used to eliminate movement. CONFIRM THE REPAIR Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet. Inspection Procedure D INFOID:0000000008275747 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel F Acrylic lens and combination meter housing Instrument panel to front pillar garnish Instrument panel to windshield 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. CAUTION: Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible. CENTER CONSOLE Components to pay attention to include: 1. Shifter assembly cover to finisher A/C control unit and cluster lid C Wiring harnesses behind audio and A/C control unit The instrument panel repair and isolation procedures also apply to the center console. DOORS Pay attention to the following: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher N Wiring harnesses tapping 4. Door striker out of alignment causing a popping noise on starts and stops Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise. TRUNK Р Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer. In addition look for the following: 1. Trunk lid dumpers out of adjustment

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< SYMPTOM DIAGNOSIS >

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Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- 1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:

- Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- The rear seatback lock and bracket

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

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Diagnostic Worksheet

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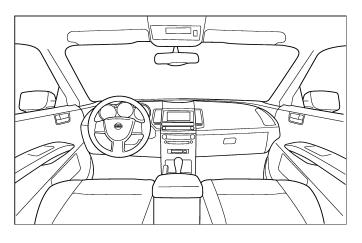


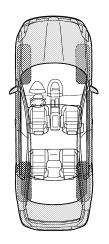
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

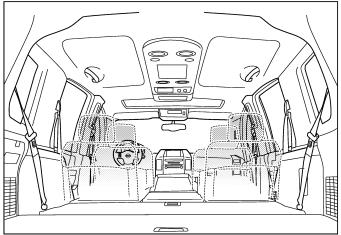
Dear Nissan Customer:

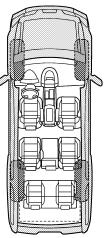
We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be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

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)
The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.









Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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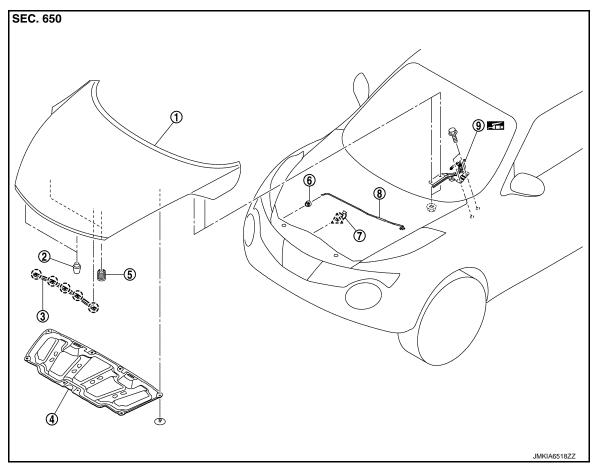
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2 Briefly describe the location where the noise occurs:						
II. WHEN DOES IT OCCUR? (please ch	eck the bo	xes that ap	ply)			
□ anytime□ 1st time in the morning□ only when it is cold outside□ only when it is hot outside	☐ wh	er sitting ou en it is rain or dusty co er:	ing or we			
III. WHEN DRIVING:	IV. WH	IAT TYPE	OF NOIS	E		
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 mi	cre ratt kno tick thu buz	ak (like wa de (like sha ock (like a k de (like a cloo mp (heavy zz (like a bu	lking on a king a ba knock at th ck second , muffled	ne door) I hand) knock noise)		
Test Drive Notes:						
		YES	NO	Initials of person		
		TES	NO	performing		
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confir	m repair					
VIN: W.O.#		stomer Nar te: ———				

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REMOVAL AND INSTALLATION

HOOD

Exploded View



- 1. Hood assembly
- 4. Hood insulator
- 7. Clamp
- () : Clip
- : Body grease

- 2. Hood bumper rubber
- 5. Hood bumper rubber
- 8. Hood support rod
- 3. Radiator core seal
- 6. Grommet
- 9. Hood hinge

HOOD ASSEMBLY

HOOD ASSEMBLY: Removal and Installation

CAUTION:

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

REMOVAL

Support hood assembly with the proper 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. Remove hood hinge mounting nuts on the hood to remove the hood assembly.

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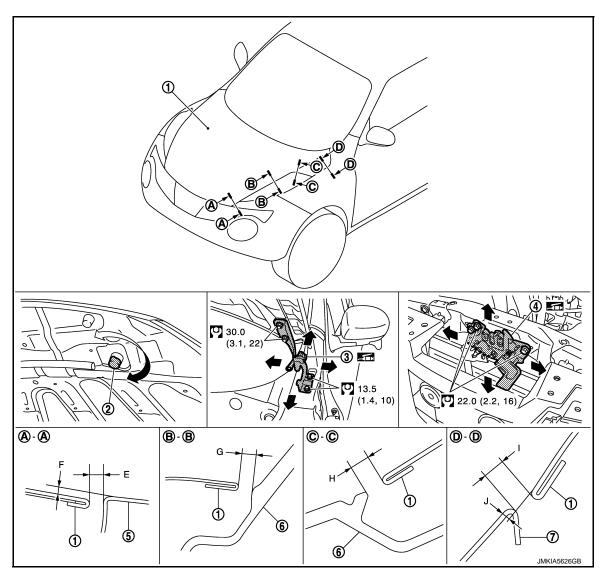
INSTALLATION

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

- 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-234, "HOOD ASSEMBLY: Adjust-ment"</u>.

HOOD ASSEMBLY: Adjustment

INFOID:0000000008275751



- 1. Hood assembly
- 4. Hood lock assembly
- 7. Front fender
- : N·m (kg-m, ft-lb)

: Body grease

- 2. Hood bumper rubber
- 5. Front bumper fascia
- Hood hinge
- 6. Front combination lamp

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.

[WITHOUT INTELLIGENT KEY SYSTEM]

					Unit: mm (in)
P	ortion			Standard	Difference (RH/LH, MAX)
Hood – Front bumper fascia	A A E		Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
	A – A	F	Surface height	(-2.0) - (+2.0) [(-0.079) - (+0.079)]	< 2.5 (0.098)
Hood – Front combination lamp	B – B	G	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front combination lamp	C – C	Н	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 2.5 (0.098)
Hood – Front fender	ont fender $D-D$ $\frac{I}{J}$	I	Clearance	2.5 – 4.5 (0.098 – 0.177)	< 1.5 (0.059)
		J	Surface height	(-2.0) - (0.0) [(-0.079) - (0.000)]	< 1.5 (0.059)

FITTING ADJUSTMENT PROCEDURE

- Remove front center grille. Refer to <u>EXT-22</u>, "Removal and Installation".
- 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.
- 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].

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

9. Install front center grille. Refer to EXT-22, "Removal and Installation".

HOOD HINGE

HOOD HINGE: Removal and Installation

1. Remove hood assembly. Refer to DLK-233, "HOOD ASSEMBLY: Removal and Installation".

- 2. Remove front fender. Refer to <u>DLK-242</u>, "Removal and Installation".
- 3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

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

CAUTION:

REMOVAL

- After installation, perform hood hinge fitting adjustment. Refer to <u>DLK-236, "HOOD HINGE: Adjustment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.

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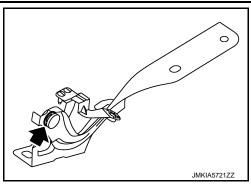
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DLK-235

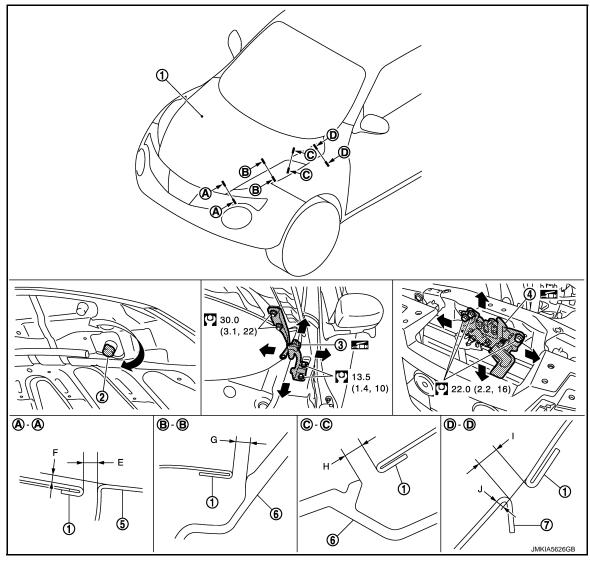
Check hood hinge rotating part for poor lubrication. If necessary, apply grease.



HOOD HINGE: Adjustment

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- 1. Hood assembly
- 4. Hood lock assembly
- 7. Front fender
- : N·m (kg-m, ft-lb)

: Body grease

- 2. Hood bumper rubber
- 5. Front bumper fascia
- 3. Hood hinge
- 6. Front combination lamp

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

[WITHOUT INTELLIGENT KEY SYSTEM]

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

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

- 1. Remove front center grille. Refer to EXT-22, "Removal and Installation".
- Remove hood lock assembly.
- 3. Remove front bumper fascia. Refer to EXT-14, "Removal and Installation".
- Remove front combination lamp (LH and RH). Refer to <u>EXL-88</u>, "Removal and Installation".
- Remove front fender assembly (LH and RH). Refer to <u>DLK-242</u>, "<u>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 RH).
- 11. Tighten hood hinge (LH and RH) to the specified torque.
- 12. Install front fender assembly (LH and RH). Refer to DLK-242, "Removal and Installation".
- Install front combination lamp (LH and RH). Refer to EXL-88. "Removal and Installation".
- 14. Install front bumper fascia. Refer to EXT-14, "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.
- 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.
- 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].

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

Install front center grille. Refer to <u>EXT-22</u>, "Removal and Installation".
 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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Revision: 2014 February DLK-237 2013 JUKE

HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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.

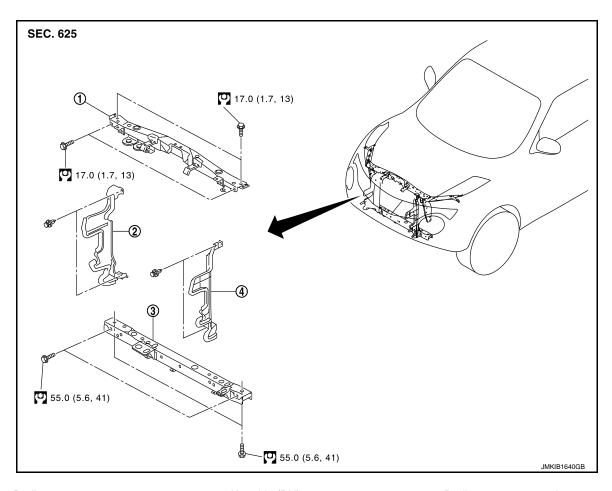
2. Pull hood support rod from grommet and remove.

INSTALLATION

Install in the reverse order of removal.

RADIATOR CORE SUPPORT

Exploded View INFOID:0000000009296914



- Radiator core support upper
- Air guide (RH)

Radiator core support lower

- Air guide (LH)
- : N·m (kg-m, ft-lb)

Removal and Installation

RADIATOR CORE SUPPORT UPPER

Removal

- Remove front bumper fascia. Refer to EXT-14, "Removal and Installation".
- Remove front combination lamp (LH and RH). Refer to EXL-88, "Removal and Installation".
- Remove headlamp (LH and RH). Refer to EXL-86, "Removal and Installation". 3.
- Disconnect crash zone sensor harness connector. Refer to SR-22, "Removal and Installation". 4. **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-263, "HOOD LOCK CONTROL CABLE: Removal and Installation".
- Remove horn bracket. Refer to HRN-4, "Removal and Installation".

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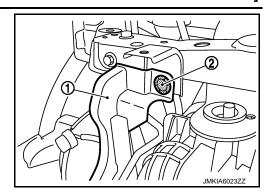
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7. Remove upper fixing clips (2) of air guide (LH and RH) (1).



- 8. Remove hood support rod. Refer to DLK-238, "HOOD SUPPORT ROD: Removal and Installation".
- 9. Remove mounting bolts, and then remove radiator core support upper.

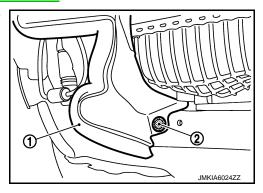
Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

Removal

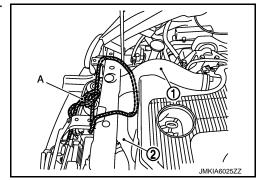
- 1. Remove front bumper fascia. Refer to EXT-14, "Removal and Installation".
- 2. Remove lower fixing clips (2) of radiator side seal (LH and RH) (1).



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

CAUTION:

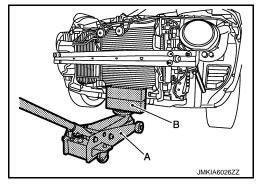
Never damage inlet hoses and charge air cooler.



4. Support lower side radiator using wooden blocks (A) and a floor jack (B).

CAUTION:

Never damage radiator.



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

Installation

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Install in the reverse order of removal.

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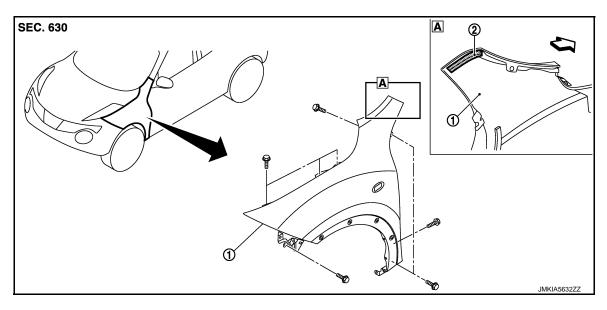
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FRONT FENDER

Exploded View



1. Front fender assembly

2. Front fender stiffener

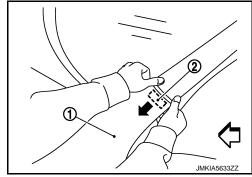
Removal and Installation

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REMOVAL

- 1. Remove front fillet molding. Refer to EXT-30, "FRONT FILLET MOLDING: Removal and Installation".
- 2. Remove front bumper fascia assembly. Refer to EXT-14, "Removal and Installation".
- 3. Remove sill cover. Refer to EXT-27, "Removal and Installation".
- 4. Remove fender protector. Refer to EXT-26, "Removal and Installation".
- 5. Remove front fender cover. Refer to EXT-26, "Exploded View".
- 6. Remove front combination lamp. Refer to EXL-88, "Removal and Installation".
- 7. Remove side turn signal lamp. Refer to EXL-96, "Removal and Installation".
- 8. Remove mounting bolts of front fender assembly.
- Remove front fender stiffener (2) from the vehicle body while carefully pulling upper portion of front fender (1) toward vehicle outside.

: Vehicle front



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.

FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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-234, "HOOD ASSEMBLY: Adjustment"</u>.
- Front door: Refer to <u>DLK-246</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjustment</u>".

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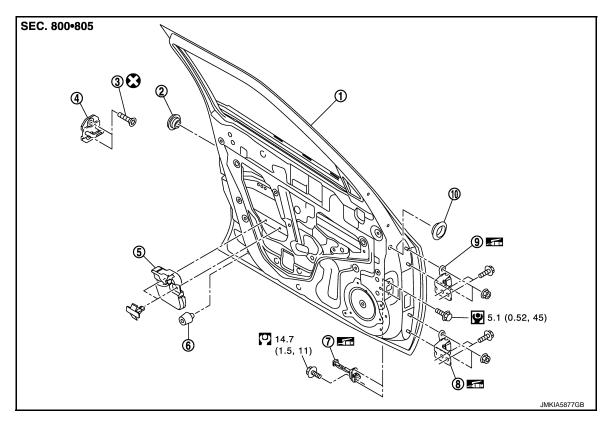
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FRONT DOOR

Exploded View



- 1. Front door panel
- 4. Door striker
- 7. Door check link
- 10. Grommet
- : Do not reuse
- : N⋅m (kg-m, in-lb)
- : N-m (kg-m, ft-lb)
- : Body grease

- 2. Grommet
- 5. Door pad
- 8. Door hinge (lower)
- 3. TORX bolt
- 6. Bumper rubber
- 9. Door hinge (upper)

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DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or electric tools for servicing.

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.

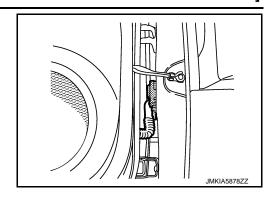
REMOVAL

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

1. Disconnect front door harness connector.



- Remove mounting bolt of door check link on the vehicle.
- 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 DLK-246, "DOOR ASSEMBLY: Adjustment".
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

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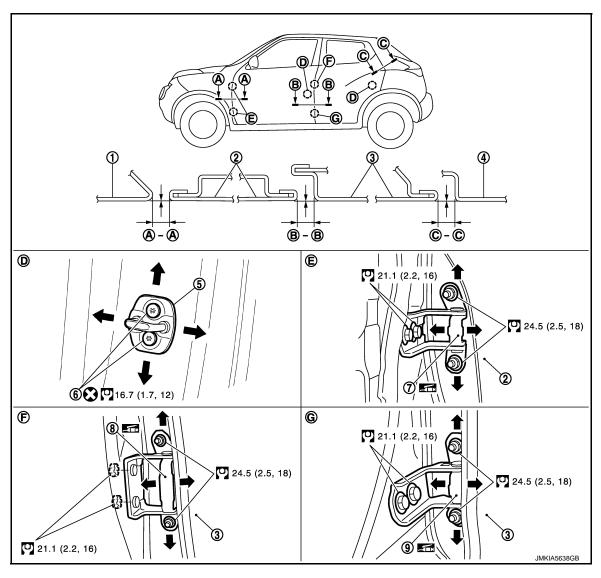
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Revision: 2014 February

DOOR ASSEMBLY: Adjustment

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- 1. Front fender
- 4. Body side outer
- 7. Front door hinge
- : Do not reuse
- : N·m (kg-m, ft-lb)
- : Body grease

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

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.

Unit: mm (in)

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

FITTING ADJUSTMENT PROCEDURE

- 1. Remove front fender. Refer to DLK-242, "Removal and Installation".
- 2. Loosen door hinge mounting nuts on door side.

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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3.	Adjust the surface height of front door according to the fitting standard dimension.	
4.	Temporarily tighten door hinge mounting nuts on door side.	Δ
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.	В
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	С
	and nuts.	
•	Check door hinge rotating part for poor lubrication. If necessary, apply body grease. Second of the poor to provide th	
	Install front fender. Refer to refer to DLK-242, "Removal and Installation".	
_	OR STRIKER ADJUSTMENT	
	ust door striker so that it becomes parallel with door lock insertion direction.	Е
DC	OOR STRIKER	
DC	OOR STRIKER: Removal and Installation	
		F
	MOVAL	
Rei	move TORX bolts, and then remove door striker.	
INS	STALLATION	G
	e the following items, and install in the reverse order of removal.	
• C • A	UTION: heck front door open/close, lock/unlock operation after installation. fter installation, be sure to perform the fitting adjustment. Refer to DLK-246 , "DOOR ASSEMBLY: djustment .	Н
DC	OOR HINGE	
DC	OOR HINGE: Removal and Installation	
RE	MOVAL	J
	UTION:	_
• W	erform work with 2 workers, because of its heavy weight. Ihen removing and installing front door assembly, support door with a jack and shop cloth to proect door and body.	DL
1.	Remove front fender. Refer to <u>DLK-242</u> , "Removal and Installation".	
2.	Remove front door assembly. Refer to <u>DLK-244, "DOOR ASSEMBLY: Removal and Installation"</u> .	
3.	Remove front door hinge mounting bolts (body side), and then remove front door hinge.	
INS	STALLATION	N
	e the following items, and install in the reverse order of removal.	IV
_	UTION:	
	pply anticorrosive agent onto the mounting surface. heck front door open/close, lock/unlock operation after installation.	Ν
	fter installation, perform the fitting adjustment. Refer to <u>DLK-246, "DOOR ASSEMBLY: Adjust-</u>	
<u>m</u>	nent". fter installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.	С

Revision: 2014 February DLK-247 2013 JUKE

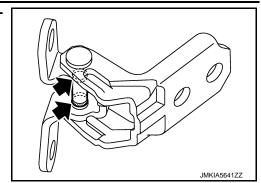
FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

: Grease up point



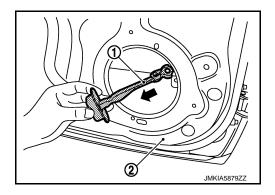
DOOR CHECK LINK

DOOR CHECK LINK: Removal and Installation

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REMOVAL

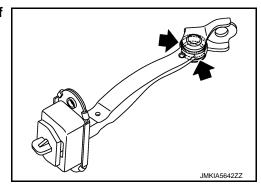
- 1. Fully close the front door window.
- 2. Remove front door finisher. Refer to INT-12, "Removal and Installation".
- 3. Disconnect harness connector of front door speaker.
- 4. Remove mounting bolts of front door speaker, and then remove front door speaker.
- 5. Remove mounting bolt of door check 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

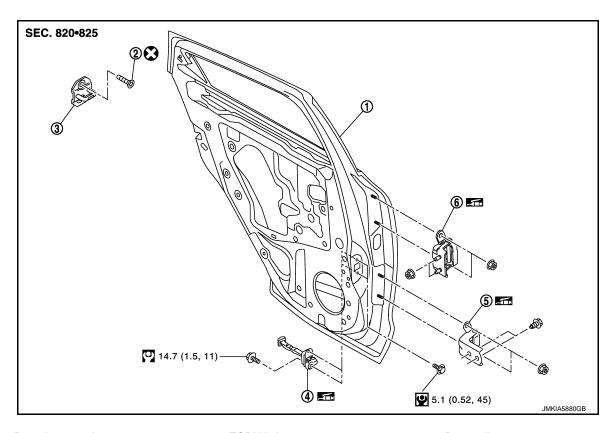
Note the following item, and install in the reverse order of removal. **CAUTION:**

- Check front door open/close operation after installation.
- Check door check link rotating part for poor lubrication. If necessary, apply grease.
 - : Grease up point



REAR DOOR

Exploded View



- Rear door panel
- 4. Door check link
- 2. TORX bolt
- 5. Door hinge (lower)
- 3. Door striker
- 6. Door hinge (upper)

: Do not reuse

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

: Body grease

DOOR ASSEMBLY

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.

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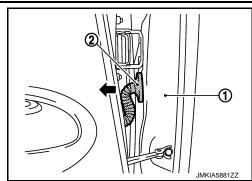
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REAR DOOR

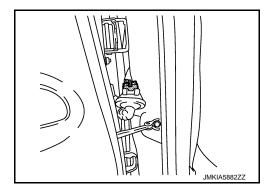
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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-251, "DOOR ASSEMBLY: Adjust-ment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

DOOR ASSEMBLY: Adjustment

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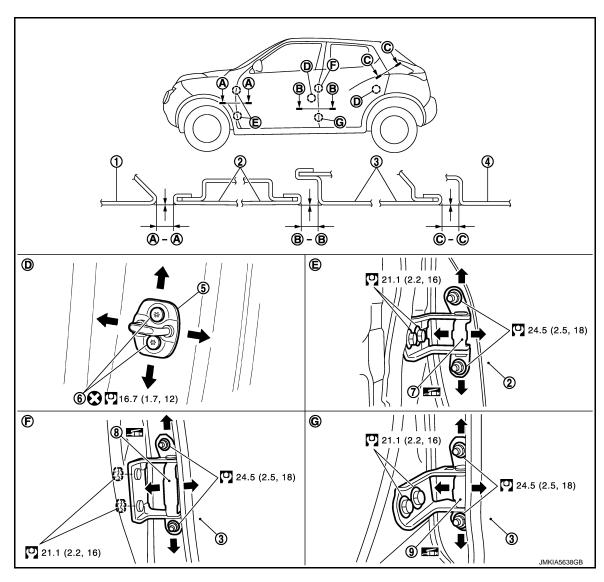
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- 1. Front fender
- 4. Body side outer
- 7. Front door hinge
- : Do not reuse
- . Do not reuse
- : N·m (kg-m, ft-lb)
- : Body grease

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

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.

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. Remove center pillar lower garnish. Refer to INT-21, "CENTER PILLAR LOWER GARNISH: Removal and Installation".

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- 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-21, "CENTER PILLAR LOWER GARNISH: 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:0000000008275768

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-251, "DOOR ASSEMBLY:</u>
 <u>Adjustment".</u>

DOOR HINGE

DOOR HINGE: Removal and Installation

INFOID:0000000008275769

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-249</u>, "DOOR ASSEMBLY: Removal and Installation".
- Remove center pillar lower garnish. Refer to <u>INT-21</u>, "CENTER PILLAR LOWER GARNISH: Removal and Installation".
- 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-251</u>, <u>"DOOR ASSEMBLY: Adjustment"</u>.
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

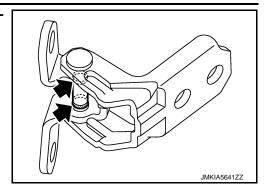
REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

: Grease up point



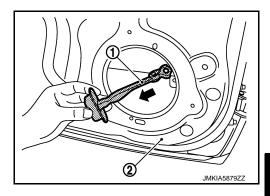
DOOR CHECK LINK

DOOR CHECK LINK: Removal and Installation

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REMOVAL

- 1. Fully close the rear door window.
- Remove rear door finisher. Refer to <u>INT-15</u>, "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).

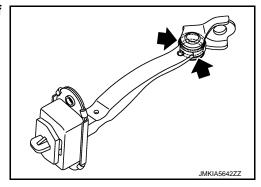


INSTALLATION

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



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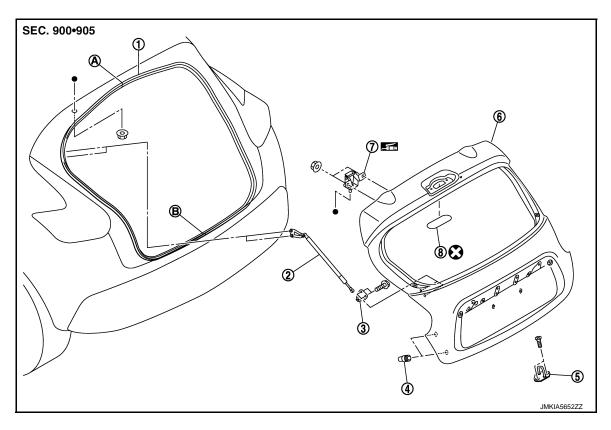
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BACK DOOR

Exploded View INFOID:0000000008275771

REMOVAL



- Back door weather-strip
- Bumper rubber
- Back door hinge
- : Center mark
- : Do not reuse
- : Body grease

- Back door stay 2.
- Back door striker
- Hole cover
- : Seam

- Back door stay lower bracket 3.
- Back door panel

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY: Removal and Installation

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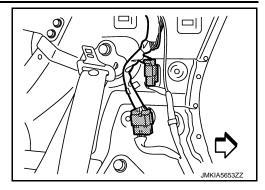
CAUTION:

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

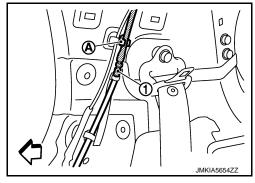
REMOVAL

Remove luggage side upper finisher (LH and RH). Refer to INT-35, "LUGGAGE SIDE UPPER FINISHER : Removal and Installation".

2. Disconnect harness connector.



3. Remove rear washer hose (1) from hose mounting clip (A), and then disengage hose.



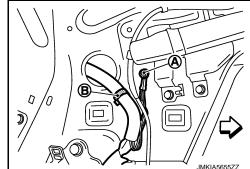
4. Remove center pillar upper garnish. Refer to INT-21, "CENTER PILLAR UPPER GARNISH: Removal and Installation".

5. Remove upper side of back door weather-strip. Refer to <u>DLK-260, "BACK DOOR WEATHER-STRIP: Removal and Installation"</u>.

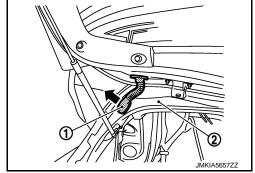
6. Remove rear assist grip (LH and RH) and mounting clips for rear portion of headlining, and then remove rear portion of headlining. Refer to INT-26, "NORMAL ROOF: Exploded View" or INT-29, "SUNROOF: Removal and Installation".

7. Remove ground harness mounting bolt (A) and harness fixing clips (B).

⟨□ : Vehicle front



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



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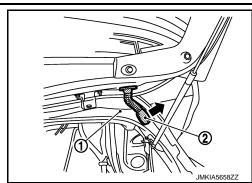
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BACK DOOR

[WITHOUT INTELLIGENT KEY SYSTEM]

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-259</u>, "<u>BACK DOOR STAY</u>: Removal and <u>Installation</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 DLK-257, "BACK DOOR ASSEMBLY: Adjustment".

BACK DOOR ASSEMBLY: Adjustment

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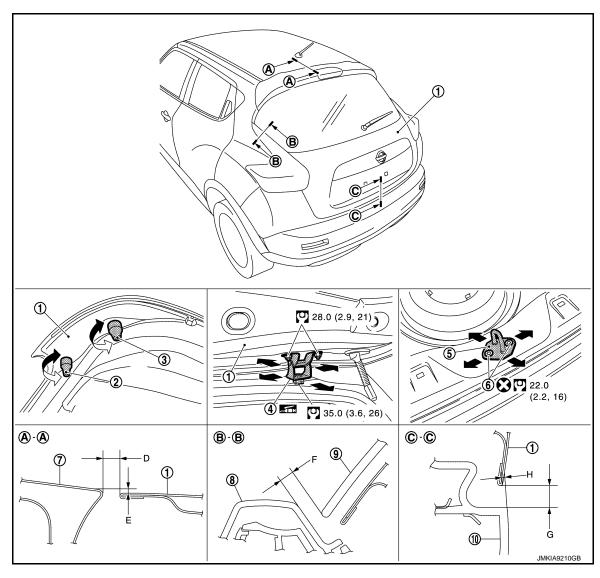
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- 1. Back door assembly
- 4. Back door hinge
- 7. Roof panel
- 10. Rear bumper fascia
- : Do not reuse
- : N·m (kg-m, ft-lb)
- : Body grease

- 2. Bumper rubber (upper)
- 5. Back door striker
- 8. Rear combination lamp
- 3. Bumper rubber (lower)
- 6. 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.

Unit: mm (in)

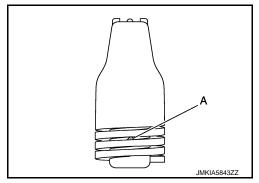
Portion				Standard	Difference (LH/RH, MAX)
Roof panel – Back door	A – A	D	Clearance	5.0 - 7.0 (0.197 - 0.276)	_
		E	Surface height	0.9 - 2.9 (0.035 - 0.114)	_

[WITHOUT INTELLIGENT KEY SYSTEM]

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

- Loosen back door striker mounting bolts.
- 2. Loosen back door hinge mounting nuts (back door side).
- Adjust back door using back door striker and back door hinge to the specified value, as shown in the following table.
- 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-34, "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-257, "BACK DOOR ASSEMBLY : Adjustment"</u>.

BACK DOOR HINGE

BACK DOOR HINGE: Removal and Installation

REMOVAL

- Remove back door assembly. Refer to <u>DLK-254</u>, "BACK <u>DOOR ASSEMBLY</u>: Removal and Installation".
- Remove back door hinge mounting nuts (body side), and then remove back door hinge.

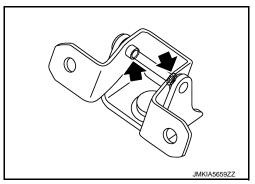
INSTALLATION

< 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-257, "BACK DOOR ASSEMBLY: Adjustment".
- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.



BACK DOOR STAY

BACK DOOR STAY: Removal and Installation

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REMOVAL

- 1. Remove luggage side upper finisher and rear pillar cap. Refer to INT-35, "LUGGAGE SIDE UPPER FIN-ISHER: Removal and Installation".
- 2. Support the back door with the suitable material to prevent it from falling.

WARNING:

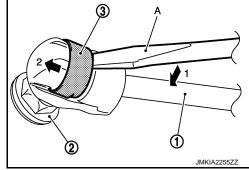
Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

- 3. 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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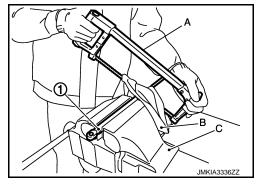
BACK DOOR STAY: Disposal

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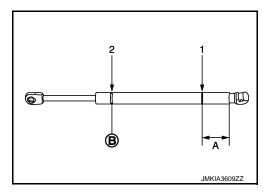
- 1. Fix back door stay (1) using a vise (C).
- 2. Using hacksaw (A) slowly make 2 holes in the back door stay, in numerical order as shown in the figure.

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

BACK DOOR WEATHER-STRIP: Removal and Installation

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REMOVAL

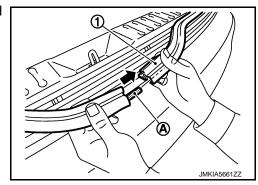
Pull up and remove engagement with body from weather-strip joint.

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.

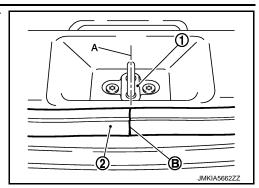


BACK DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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.



4. 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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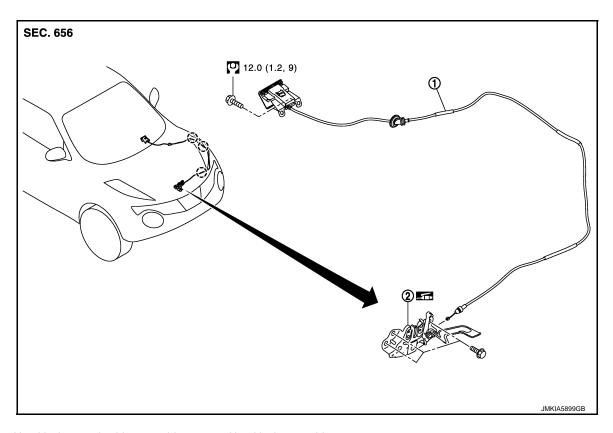
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HOOD LOCK

Exploded View



Hood lock control cable assembly

2. Hood lock assembly

(]) : Clip

: N·m (kg-m, ft-lb)

: Body grease

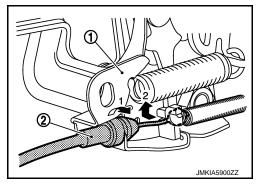
HOOD LOCK

HOOD LOCK: Removal and Installation

INFOID:0000000008275780

REMOVAL

- 1. Remove front center grille. Refer to EXT-22, "Removal and Installation".
- 2. Remove crash zone sensor. Refer to SR-22, "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).



[WITHOUT INTELLIGENT KEY SYSTEM]

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

CAUTION:

- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to DLK-234, "HOOD ASSEMBLY: Adjustment".
- After installation, perform hood lock control inspection. Refer to <u>DLK-263</u>, "Inspection". HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE: Removal and Installation

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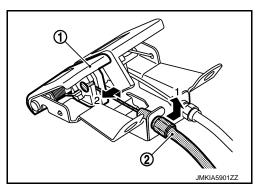
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REMOVAL

- Disconnect hood lock control cable assembly from hood lock assembly.
- 2. Remove fender protector (LH). Refer to EXT-26, "Removal and Installation".
- 3. Remove hood lock cable clip.
- 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 compartment.

CAUTION:

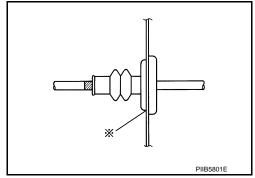
While pulling, never to damage (peeling) the outside of hood lock control cable.

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-234, "HOOD ASSEMBLY: Adjust-</u>
- After installation, perform hood lock control inspection. Refer to <u>DLK-263</u>, "Inspection".

Inspection INFOID:0000000008275782

NOTE:

Revision: 2014 February

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.

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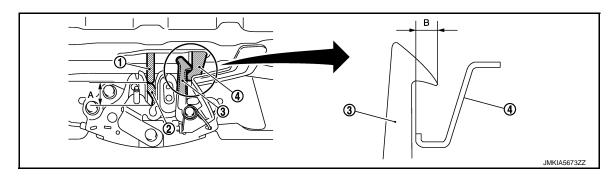
2013 JUKE

[WITHOUT INTELLIGENT KEY SYSTEM]

 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.



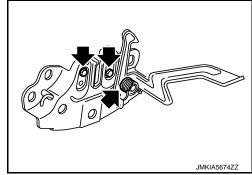
1. Primary striker

2. Primary latch

3. Secondary latch

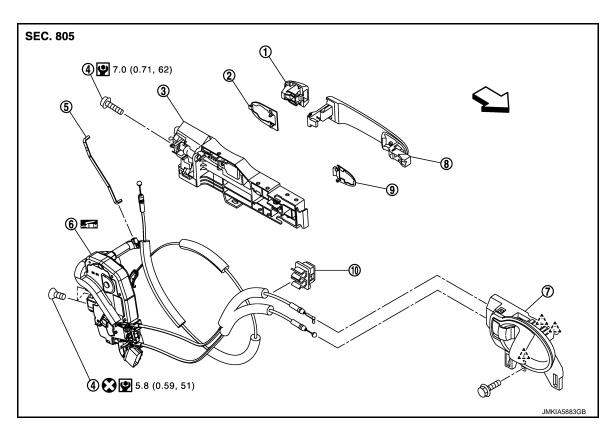
- 4. Secondary striker
- 4. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).
- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

: Grease up point



FRONT DOOR LOCK

Exploded View



- Door key cylinder assembly (driver side)
 Outside headle assemble (driver side)
 - Outside handle escutcheon (passenger side)
- 4. TORX bolt
- 7. Inside handle
- 10. Cable clip
- 八、: Pawl
- : Vehicle front
- : Do not reuse
- : N·m (kg-m, in-lb)
- : Body grease

- . Rear gasket
- 5. Key rod (driver side)
- 8. Outside handle

- Outside handle bracket
- 6. Door lock assembly
- 9. Front gasket

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- Remove front door glass and front door lower sash (rear). Refer to <u>GW-16, "Removal and Installation"</u>.
- Remove inside handle. Refer to <u>DLK-266</u>, "INSIDE HANDLE: Removal and Installation".
- 3. Disengage inside handle cable and lock knob cable from cable clip.
- 4. Remove outside handle bracket. Refer to DLK-266, "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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Revision: 2014 February DLK-265 2013 JUKE

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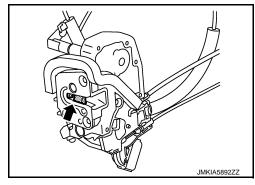
INSTALLATION

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



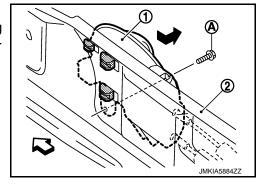
INSIDE HANDLE

INSIDE HANDLE: Removal and Installation

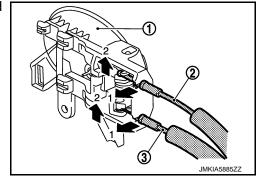
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REMOVAL

- 1. Remove front door finisher. Refer to INT-12, "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.



4. Disengage inside handle cable (3) and lock knob 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:0000000008275786

REMOVAL

- 1. Fully close the front door glass.
- Remove front door finisher. Refer to <u>INT-12</u>, "Removal and Installation".

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

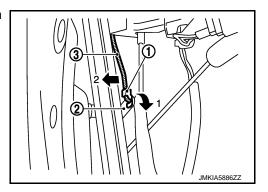
[WITHOUT INTELLIGENT KEY SYSTEM]

3. Remove sealing screen.

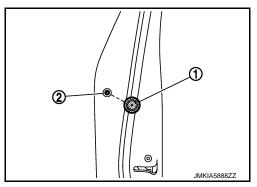
NOTE:

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.

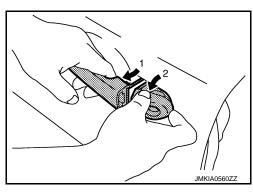
4. Disengage lock holder (1), and then separate key rod (3) from door lock assembly (2).(Driver side)



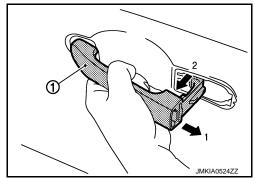
5. Remove grommet (1) of door side. Loosen, through grommet hole, TORX bolt (2) that fixes door lock cylinder. (For passenger side, TORX bolt fixes outside handle escutcheon.)



6. While pulling outside handle, 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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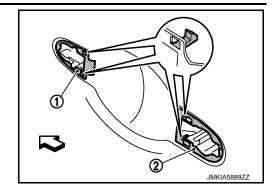
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FRONT DOOR LOCK

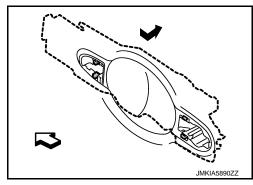
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

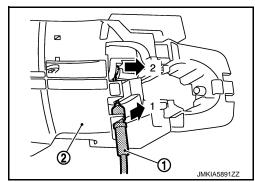
8. Remove front gasket (1) and rear gasket (2).



9. Slide outside handle bracket toward rear of vehicle to remove.



10. Disconnect outside handle cable (1) from outside handle bracket (2).



INSTALLATION

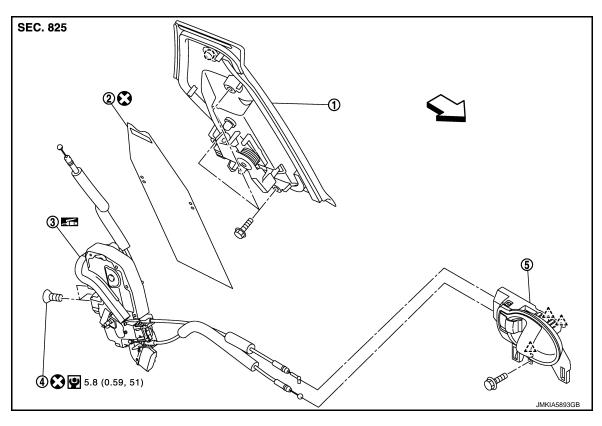
Note the following items, and install in the reverse order of removal. **CAUTION:**

- 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.

Door lock assembly

REAR DOOR LOCK

Exploded View INFOID:0000000008275787



- Outside handle assembly
- Rear door sealing screen Inside handle

2.

TORX bolt : Clip

: Pawl

⟨⇒ : Vehicle front

: Do not reuse

: N·m (kg-m, in-lb)

: Body grease

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- 1. Remove rear door glass and rear door lower sash (rear). Refer to GW-20, "Removal and Installation".
- 2. Remove inside handle. Refer to <u>DLK-270, "INSIDE HANDLE: Removal and Installation"</u>.
- Remove outside handle. Refer to <u>DLK-270, "OUTSIDE HANDLE: Removal and Installation"</u>.
- Remove door lock assembly TORX bolts. 4.
- 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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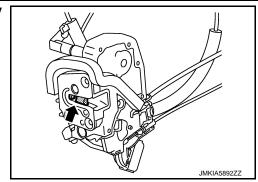
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

 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

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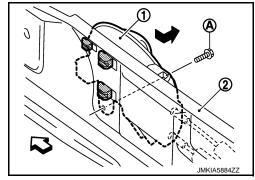
REMOVAL

- 1. Remove rear door finisher. Refer to INT-15, "Removal and Installation".
- 2. Remove upper side of sealing screen.

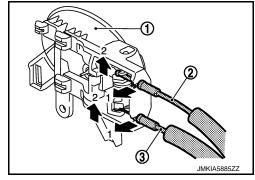
NOTE:

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).
- Disengage inside handle (1) from door panel (2) while sliding inside handle toward vehicle rear, and then separate inside handle.



5. Disengage inside handle cable (3) and lock knob 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

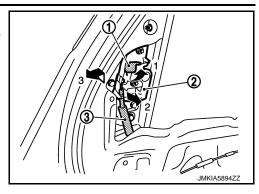
- Remove rear door finisher and rear door corner cover inner. Refer to INT-15, "Removal and Installation".
- Remove rear door sealing screen.

REAR DOOR LOCK

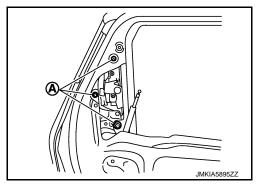
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- 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).

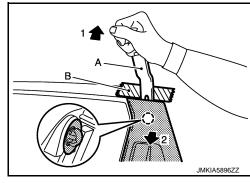


6. Disengage mounting clips using a remover tool (A), and then remove outside handle assembly.

CAUTION:

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



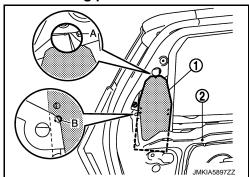


INSTALLATION

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-269</u>, <u>"Exploded View"</u>.
- Check door open/close, lock/unlock operation after installation.

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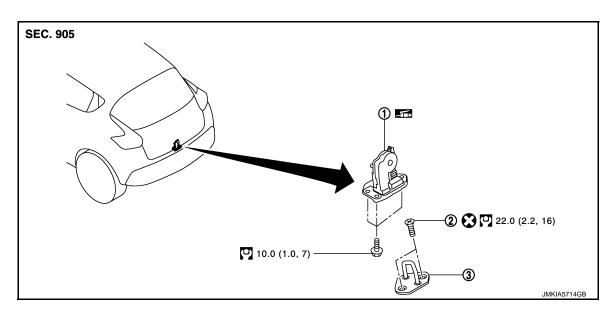
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BACK DOOR LOCK

Exploded View



Back door lock assembly

2. TORX bolt

3. Back door striker

: Do not reuse

: N-m (kg-m, ft-lb)

: Body grease

DOOR LOCK

DOOR LOCK: Removal and Installation

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REMOVAL

- 1. Remove the back door lower finisher. Refer to INT-38, "BACK DOOR LOWER FINISHER: Removal and <a href="Installation".
- 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

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UNLOCK PROCEDURES

NOTE:

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

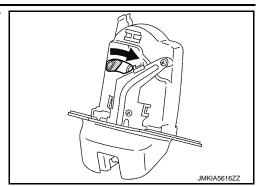
1. Remove emergency lid. Refer to INT-39, "EMERGENCY LID: Removal and Installation".

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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



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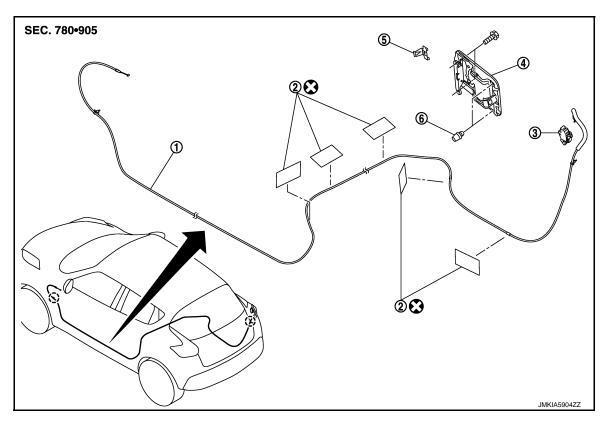
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FUEL FILLER LID OPENER

Exploded View



- 1. Fuel filler lid opener cable
- 4. Fuel filler lid assembly
- () : Clip
- : Do not reuse

- 2. Cable protector
- 5. Spring

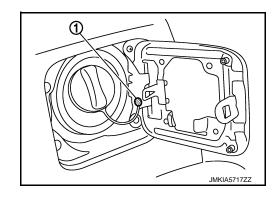
- 3. Fuel filler lid lock assembly
- 6. Bumper rubber

FUEL FILLER LID

FUEL FILLER LID: Removal and Installation

REMOVAL

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



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

INSTALLATION

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

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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)]	

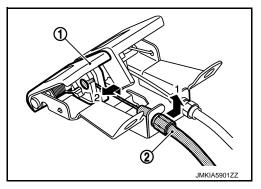
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE: Removal and Installation

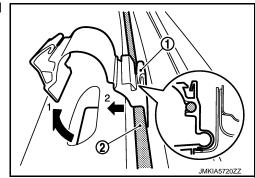
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REMOVAL

- Remove hood lock control cable assembly from instrument lower panel (LH). Refer to <u>DLK-263</u>, "HOOD <u>LOCK CONTROL CABLE</u>: <u>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 INT-18, "KICK-ING PLATE INNER: Removal and Installation".
- 4. Remove dash side finisher (LH). Refer to INT-20, "DASH SIDE FINISHER: Removal and Installation".
- Remove center pillar lower garnish (LH). Refer to INT-21, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
- 6. Remove luggage side lower finisher (RH). Refer to INT-34, "LUGGAGE SIDE LOWER FINISHER Removal and Installation".
- 7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to <u>DLK-276</u>, "FUEL FILLER LID <u>LOCK</u>: Removal and Installation".
- 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

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FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

FUEL FILLER LID LOCK: Removal and Installation

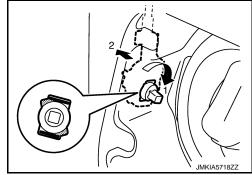
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REMOVAL

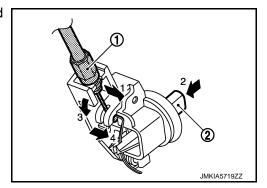
- 1. Fully open fuel filler lid.
- 2. Remove luggage side lower finisher (RH). Refer to INT-34, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".
- 3. Rotate and disengage fuel filler lid lock assembly, and then remove fuel filler lid lock assembly.

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.

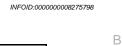
CAUTION:

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

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR SWITCH

Exploded View



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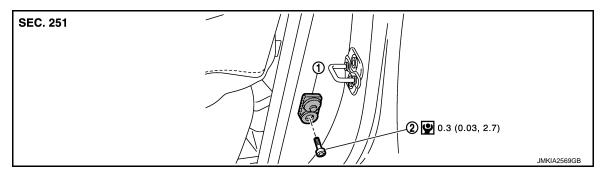
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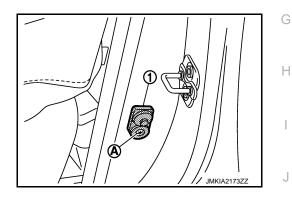
1. Door switch

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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REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

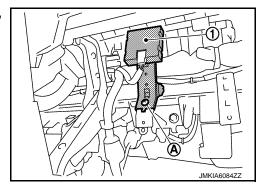
REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

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REMOVAL

- 1. Remove the glove box assembly. Refer to IP-12, "Removal and Installation".
- 2. Remove the remote keyless entry receiver (1) mounting bolt (A), and then remove remote keyless entry receiver.

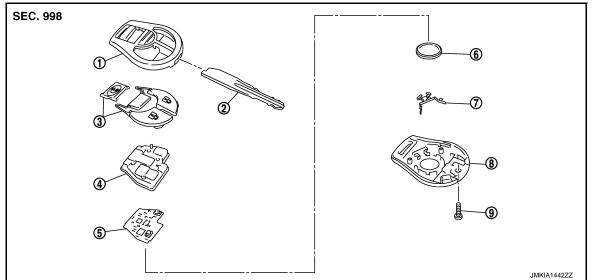


INSTALLATION

Install in the reverse order of removal.

KEYFOB BATTERY

Exploded View



- 1. Upper case
- 4. Switch rubber
- 7. plate

- 2. Key
- Board surface
- 8. Lower case

- Switch cover
- Battery
- 9. Screw

Removal and Installation

REMOVAL

1. 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)]

Do not touch the printed circuits directly.

4. Remove the battery (6) from the lower case (8) and replace it.

Battery replacement : Coin-type lithium battery (CR1620)

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-208</u>, "Component Function Check".

INSTALLATION

Install in the reverse order of removal.

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