SECTION DLK
DOOR & LOCK

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000007733016

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 SR and SB section of this Service Manual.

WARNING:

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

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

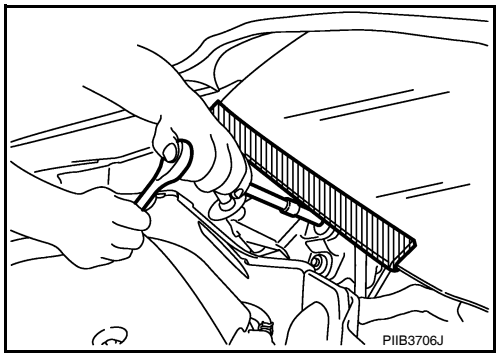
WARNING:

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

Precaution for Procedure without Cowl Top Cover

INFOID:0000000007772704

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



Precaution for Work

INFOID:0000000007733017

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components.

- Water soluble dirt: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the dirty area.
  Then rub with a soft and dry cloth.
- Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the dirty area.
  Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

• Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
• For genuine leather seats, use a genuine leather seat cleaner.

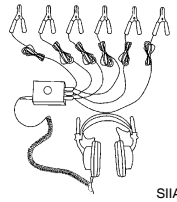
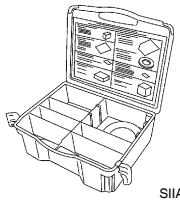
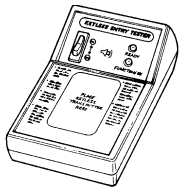
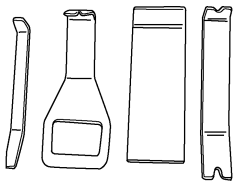
PREPARATION

PREPARATION

Special Service Tools

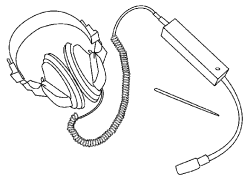
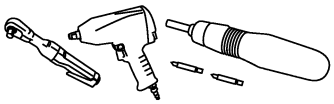
INFOID:0000000007733018

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	 SIIA0993E	Locating the noise
— (J-43980) NISSAN Squeak and Rattle Kit	 SIIA0994E	Repairing the cause of noise
— (J-43241) Remote Keyless Entry Tester	 LEL946A	Used to test keyfobs
— (J-46534) Trim Tool Set	 AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:0000000007733019

Tool name	Description
Engine ear  SIIA0995E	Locating the noise
Power tool  PIIB1407E	Loosening bolts, nuts and screws

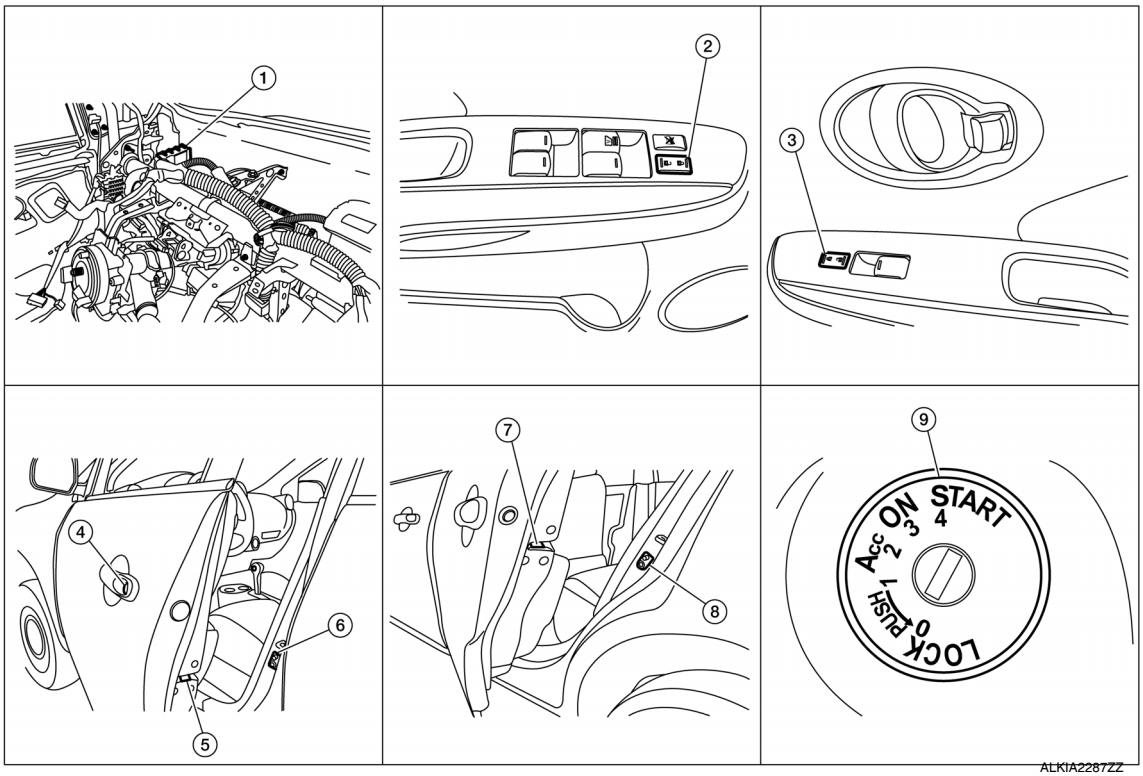
SYSTEM DESCRIPTION

COMPONENT PARTS

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Parts Location

INFOID:0000000007631118



ALKIA2287ZZ

1. BCM (view with instrument panel removed)
2. Main power window and door lock/unlock switch
3. Power window and door lock/unlock switch RH
4. Front door lock key cylinder switch LH
5. Front door lock actuator LH (RH similar)
6. Front door switch LH (RH similar)
7. Rear door lock actuator LH (RH similar)
8. Rear door switch LH (RH similar)
9. Key switch

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Description

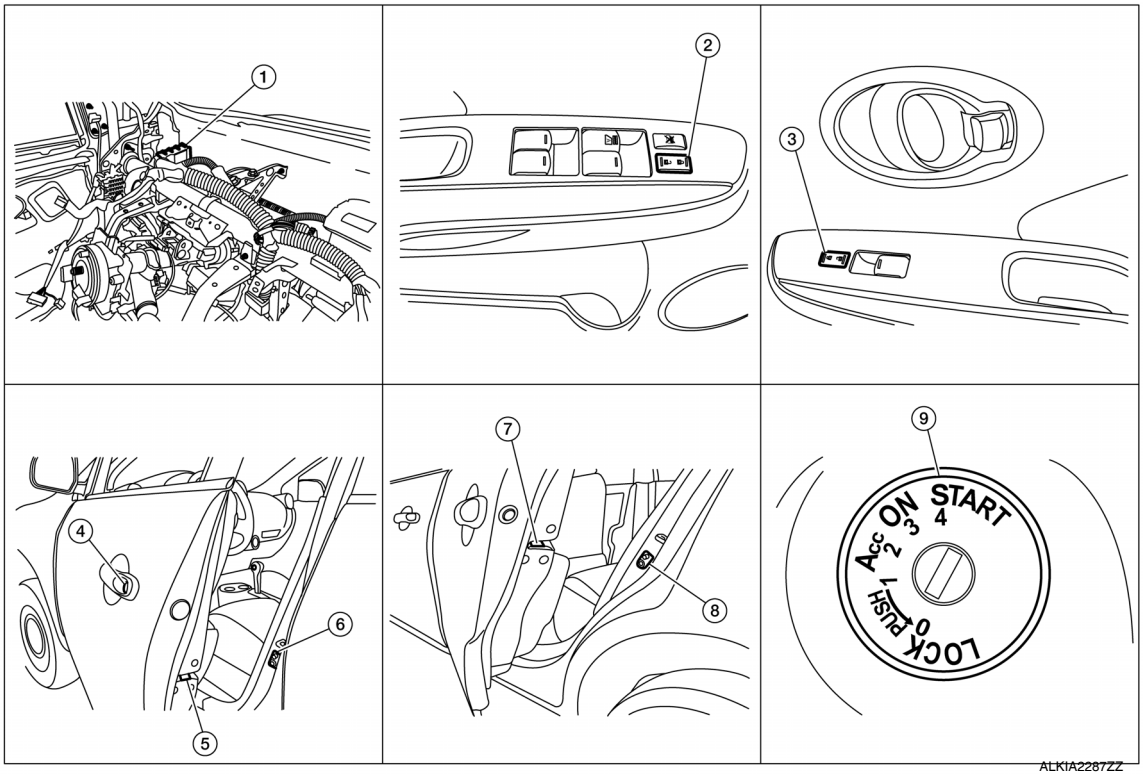
INFOID:0000000007631119

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Key switch	Input key switch condition to BCM.
Front door lock key cylinder switch LH	Input lock or unlock signal to the BCM.
ABS actuator and electric unit (control unit)	Transmits vehicle speed signal to CAN communication line.
Ignition switch	Input ignition switch ON/OFF condition to BCM.

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:0000000007661403



1. BCM (view with instrument panel removed)
2. Main power window and door lock/unlock switch
3. Power window and door lock/unlock switch RH
4. Front door lock key cylinder switch LH
5. Front door lock actuator LH (RH similar)
6. Front door switch LH (RH similar)
7. Rear door lock actuator LH (RH similar)
8. Rear door switch LH (RH similar)
9. Key switch

POWER DOOR LOCK SYSTEM : Component Description

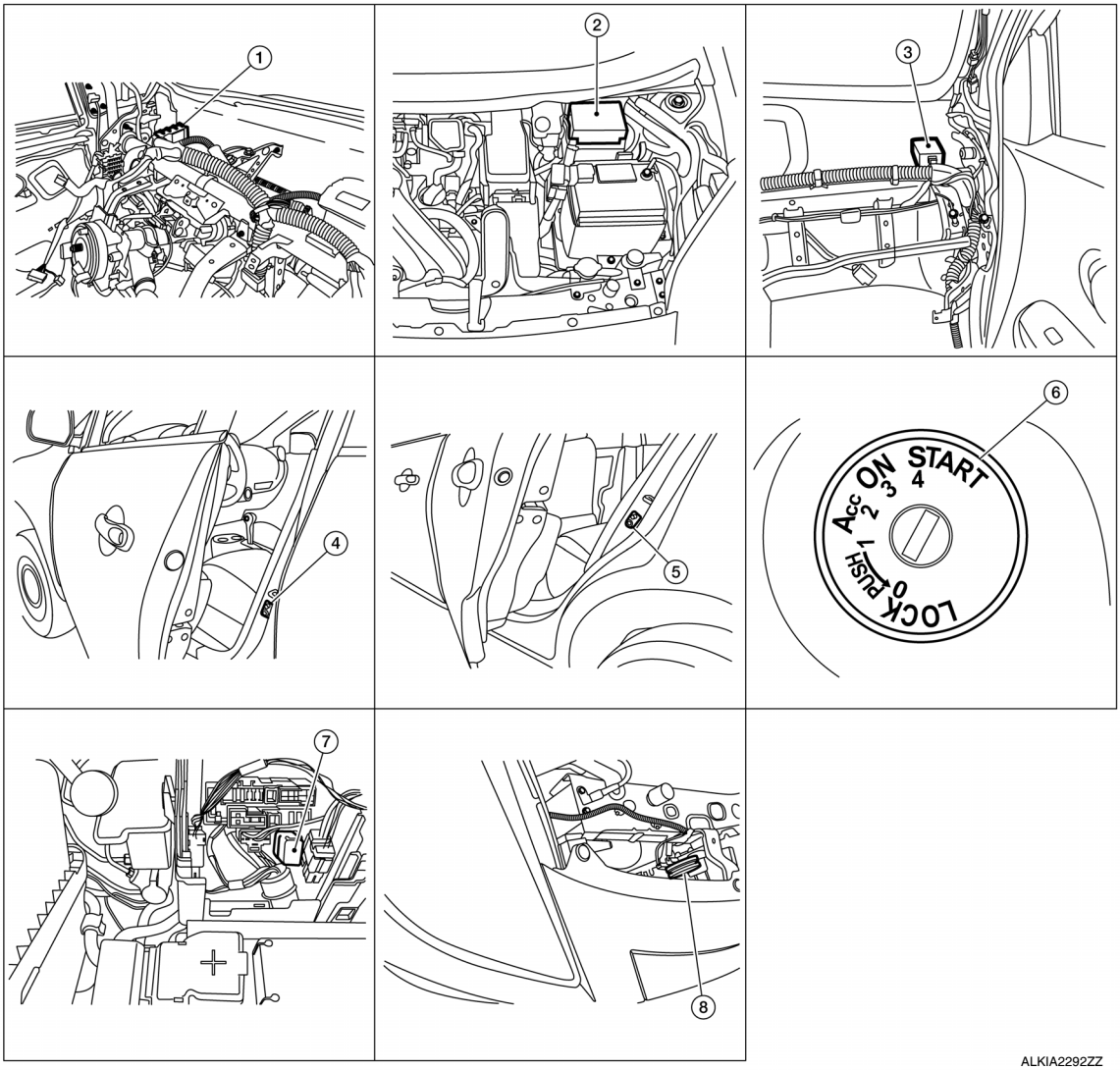
INFOID:0000000007661404

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Key switch	Input key switch condition to BCM.
Front door lock key cylinder switch LH	Input lock or unlock signal to the BCM.
ABS actuator and electric unit (control unit)	Transmits vehicle speed signal to CAN communication line.
Ignition switch	Input ignition switch ON/OFF condition to BCM.

REMOTE KEYLESS ENTRY SYSTEM

REMOTE KEYLESS ENTRY SYSTEM : Component Parts Location

INFOID:0000000007631126



ALKIA2292ZZ

1. BCM (view with instrument panel removed)
2. IPDM E/R
3. Remote keyless entry receiver (view with instrument panel removed)
4. Front door switch LH (RH similar)
5. Rear door switch LH (RH similar)
6. Key switch
7. Horn relay (view with IPDM E/R removed)
8. Horn

REMOTE KEYLESS ENTRY SYSTEM : Component Description

INFOID:0000000007631127

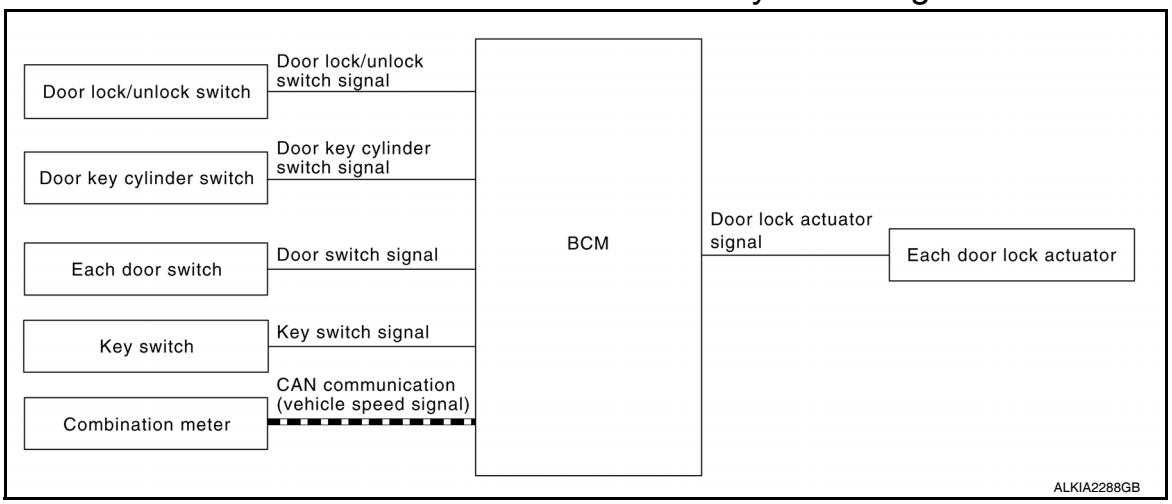
Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door switch	Input door open/close condition to BCM.
Key switch	Input key switch condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the keyfob, and then transmits to BCM.
Key switch	Input key switch ON/OFF condition to BCM.
Horn	Provides audible warning in panic mode.

SYSTEM

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : System Diagram

INFOID:0000000007631116



AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : System Description

INFOID:0000000007631117

Input	Single	Function	Actuator
Door lock/unlock switch	Door lock/unlock signal	Door lock function	• Each door lock actuator
Door key cylinder switch			
Each door switch	Door open/close signal	Key reminder function	
Combination meter.	Warning buzzer signal		
	Vehicle speed signal	Automatic door lock/unlock function	

DOOR LOCK FUNCTION

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

Door Key Cylinder

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

Selective unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to BCS-14, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors linked with the vehicle speed or shift position.

Vehicle Speed Sensing Auto Door Lock*1

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.

If a door is opened and closed at any time during one ignition cycle (OFF → ON), even after initial auto door lock operation has taken place, the BCM will relock all doors when the vehicle speed reaches 24 km/h (15 MPH) or more again.

Setting change of Automatic Door Locks (LOCK) Function

The LOCK operation setting of the automatic door locks function can be changed.

With CONSULT

The ON/OFF switching of the automatic door locks (LOCK) function and the type selection of the automatic door locks (LOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to BCS-14, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

Without CONSULT

The automatic door locks (LOCK) function can be switched ON/OFF by performing the following operation.

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

OFF → ON	: 2 blinks
ON → OFF	: 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

AUTOMATIC DOOR LOCKS (UNLOCK OPERATION)

The automatic door locks (UNLOCK) function is the function that unlocks all doors linked with the key position or shift position.

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.

Setting change of Automatic Door Locks (UNLOCK) Function

The UNLOCK operation setting of the automatic door locks function can be changed.

With CONSULT

The ON/OFF switching of the automatic door locks (UNLOCK) function and the type selection of the automatic door locks (UNLOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to BCS-14, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

Without CONSULT

The automatic door locks (UNLOCK) function can be switched ON/OFF by performing the following operation.

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

OFF → ON	: 2 blinks
ON → OFF	: 1 blink

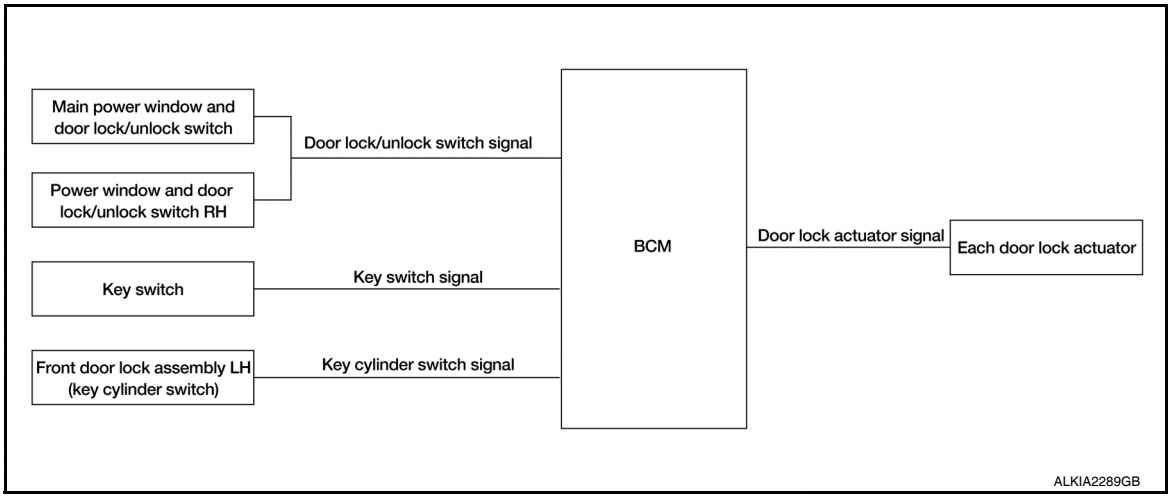
5. The ignition switch must be turned OFF and ON again between each setting change.

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

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : System Diagram

INFOID:0000000007631120



POWER DOOR LOCK SYSTEM : System Description

INFOID:0000000007631121

Switch	Input/output signal to BCM	BCM function	Actuator
Main power window and door lock/unlock switch	Door lock/unlock signal	Door lock/unlock control	Door lock actuator
Power window and door lock/ unlock switch RH			
Front door lock key cylinder switch LH			

DOOR LOCK FUNCTION

Functions Available by Operating the Door Lock and Unlock Switches on Driver Door and Passenger Door

- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all door lock actuators are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all door lock actuators are unlocked.

Functions Available by Operating the Key Cylinder Switch on Driver Door

- Interlocked with the locking operation of door key cylinder, door lock actuators of all door lock actuators are locked.

Selective Unlock Operation

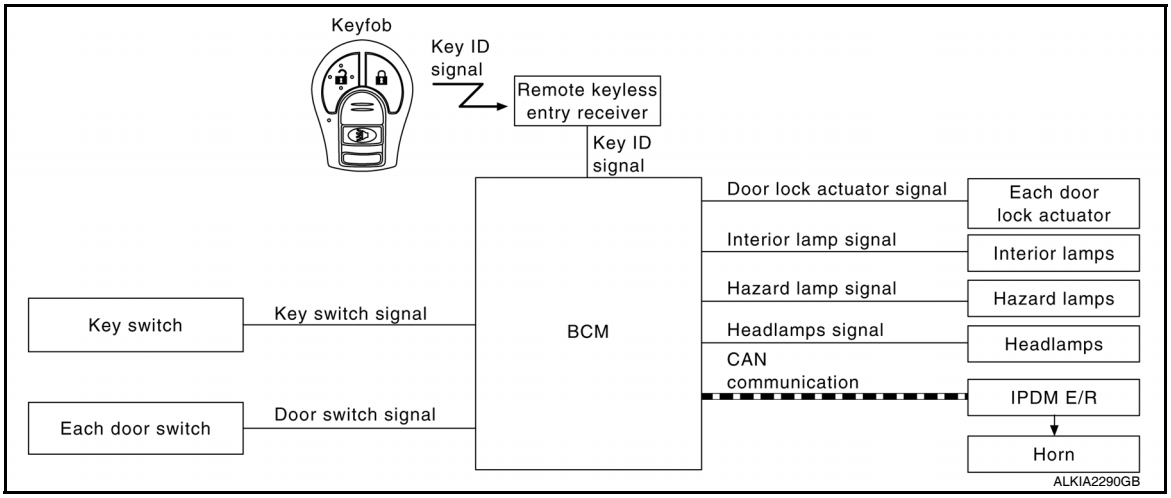
- When door key cylinder is unlocked, door lock actuator driver side is unlocked.
- When door key cylinder is unlocked for the second time within 5 seconds after the first operation, door lock actuators on all doors are unlocked.

Select unlock operation mode can be changed using DOOR LOCK-UNLOCK SET mode in “WORK SUPPORT”. Refer to BCS-14, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

REMOTE KEYLESS ENTRY SYSTEM

REMOTE KEYLESS ENTRY SYSTEM : System Diagram

INFOID:0000000007631124



REMOTE KEYLESS ENTRY SYSTEM : System Description

INFOID:0000000007631125

The remote keyless entry system can be locked and unlocked by pressing door lock and unlock button of keyfob.

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, flashes 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 time) as a reminder.

OPERATION CONDITION

Remote controller operation	Operation condition
Lock/unlock	Key switch is OFF. Mechanical key is removed from the ignition cylinder.

OPERATION AREA

To ensure that the keyfob works effectively, use within 10 m (33ft) range of the vehicle, however the operable range may differ according to surroundings.

SELECTIVE UNLOCK OPERATION

When door lock is unlocked, pressing LOCK button on keyfob once will lock all doors. When door lock is locked, pressing UNLOCK button on keyfob will unlock driver side door. Pressing UNLOCK button on keyfob second time within 5 seconds from the first time will unlock all doors.

HAZARD AND HORN REMINDER

When the doors are locked or unlocked by keyfob, power is supplied to sound horn and flash hazard warning lamps as a reminder

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

How to Change Hazard and Horn Reminder Modes

With CONSULT

Hazard and horn reminders can be changed using "WORK SUPPORT" mode in "MULTI REMOTE ENT".

Hazard reminder setting	Mode 1		Mode 2		Mode 3		Mode 4	
Keyfob operation	Lock	Unlock	Lock	Unlock	Lock	Unlock	Lock	Unlock
Hazard warning lamp blink	—	—	—	Once	Twice	—	Twice	Once

Horn reminder setting	ON		OFF	
Keyfob operation	Lock	Unlock	Lock	Unlock
Horns sound	Once	—	—	—

Hazard and horn reminders do not operate if any door switch is ON (any door is OPEN).
Hazard reminder can be changed using “HAZARD LAMP SET” mode in “WORK SUPPORT”.
Horn reminder can be changed using “HORN CHIRP SET” mode in “WORK SUPPORT”.
Refer to BCS-16, "MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT)".

Without CONSULT
Refer to Owner’s Manual for instructions.

AUTO DOOR LOCK OPERATION

When all doors are locked, ignition switch is OFF and key switch is OFF (mechanical key is removed from the ignition cylinder), doors are unlocked with keyfob button. When BCM does not receive the following signals within 1 minute, all doors are locked.
- Door switch is ON (door is opened)
- Door is locked
- Ignition switch is ON
- Key switch is ON (mechanical key is inserted in the ignition cylinder)

Auto door lock mode can be changed by “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to BCS-16, "MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT)".

PANIC ALARM OPERATION

When key switch is OFF (mechanical key is removed from the ignition cylinder), BCM turns ON and OFF horn and headlamp intermittently with input of PANIC ALARM signal from keyfob.
BCM outputs to headlamps and IPDM E/R for panic alarm signal (horn signal) via CAN communication lines.
The alarm automatically turns OFF after 25 seconds or when BCM receives any signal from keyfob.
Panic alarm operation mode can be changed using “PANIC ALARM SET” mode in “WORK SUPPORT”.
Refer to BCS-16, "MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT)".

INTERIOR LAMP TIMER OPERATION

When the following conditions occur, remote keyless entry system turns on interior lamp for 15 seconds with input of UNLOCK signal from keyfob. For detailed description, refer to INL-8, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description".
- Interior room lamp switch is in the DOOR position
- Door switch OFF (when all the doors are closed).

DIAGNOSIS SYSTEM (BCM)
COMMON ITEM
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000007661405

APPLICATION ITEM
CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing BCM.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION
BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×			
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Remote keyless entry system	MULTI REMOTE ENT			×	×	×		
Exterior lamp	HEAD LAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×	×		
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Trunk open	TRUNK			×				
RAP system	RETAINED PWR			×		×		
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000007661406

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [OTR ULK/DR UNLK/ALL UNLK/ALL LCK].

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	Off	Automatic door locks function OFF.
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of Park (P).
	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
AUTOMATIC DOOR UNLOCK SELECT	MODE6*	Drivers door unlocks automatically when key is removed.
	MODE5	Drivers door unlocks automatically when shifted into Park (P).
	MODE4	Drivers door unlocks automatically when ignition is switched from ON to OFF.
	MODE3	Doors unlock automatically when key is removed.
	MODE2	Doors unlock automatically when shifted into Park (P).
	MODE1	Doors unlock automatically when ignition is switched from ON to OFF.
AUTOMATIC LOCK/UNLOCK SELECT	Lock/Unlock*	Automatic door locks function operates in lock and unlock.
	Lock Only	Automatic door locks function operates in lock only.
	Unlock Only	Automatic door locks function operates in unlock only.
	Off	Automatic door locks function OFF.

* : Initial setting

MULTI REMOTE ENT

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

INFOID:0000000007661407

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEYLESS PANIC [On/Off]	Indicates condition of panic signal from keyfob.

ACTIVE TEST

Test Item	Description
INT LAMP	This test is able to check interior room lamp operation [On/Off].
FLASHER	This test is able to check hazard reminder operation [Off/LH/RH].
HORN	This test is able to check horn operation [On].

WORK SUPPORT

Support Item	Setting		Description
REMO CONT ID REGIST	—		Keyfob ID code can be registered.
REMO CONT ID ERASUR	—		Keyfob ID code can be erased.
REMO CONT ID CONFIR	—		Keyfob ID code registeration is displayed.
HORN CHIRP SET	Off		Horn chirp function can be changed in this mode.
	On*		
HAZARD LAMP SET	MODE4*	Lock and Unlock	Hazard warning lamp function can be changed in this mode.
	MODE3	Lock Only	
	MODE2	Unlock Only	
	MODE1	OFF	
PANIC ALRM SET	MODE3	1.5 sec	Panic alarm operation can be changed in this mode.
	MODE2	OFF	
	MODE1*	0.5 sec	
AUTO LOCK SET	MODE7	5 min	Auto locking function can be changed in this mode.
	MODE6	4 min	
	MODE5	3 min	
	MODE4	2 min	
	MODE3*	1 min	
	MODE2	30 sec	
	MODE1	OFF	

*: Initial setting

ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

INFOID:0000000007714252

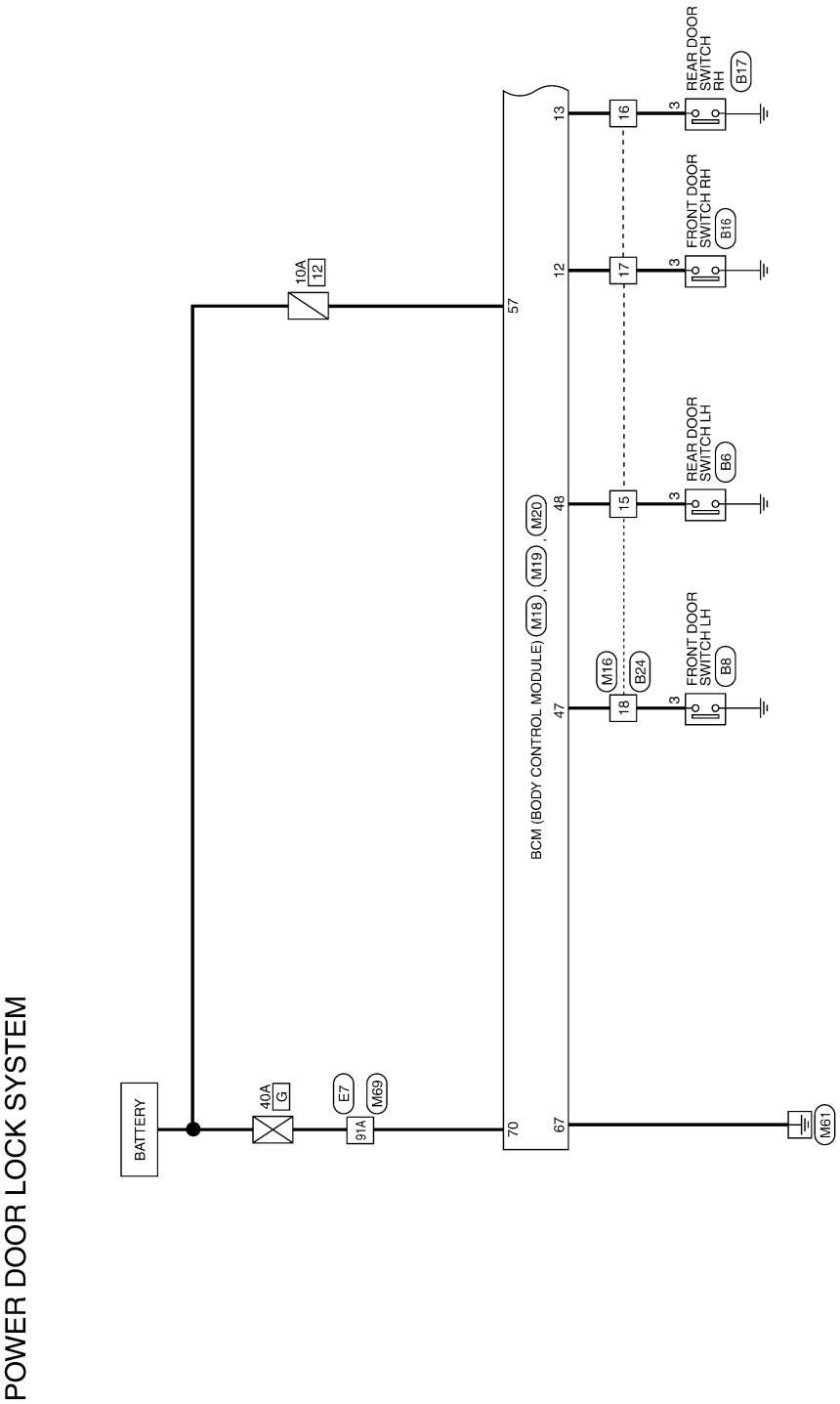
ECU	Reference
BCM	BCS-24, "Reference Value"
	BCS-37, "Wiring Diagram"
	BCS-35, "Fail-safe"
	BCS-35, "DTC Inspection Priority Chart"
	BCS-36, "DTC Index"
IPDM E/R	PCS-10, "Reference Value"
	PCS-16, "Wiring Diagram"
	PCS-14, "Fail-Safe"
	PCS-15, "DTC Index"

WIRING DIAGRAM

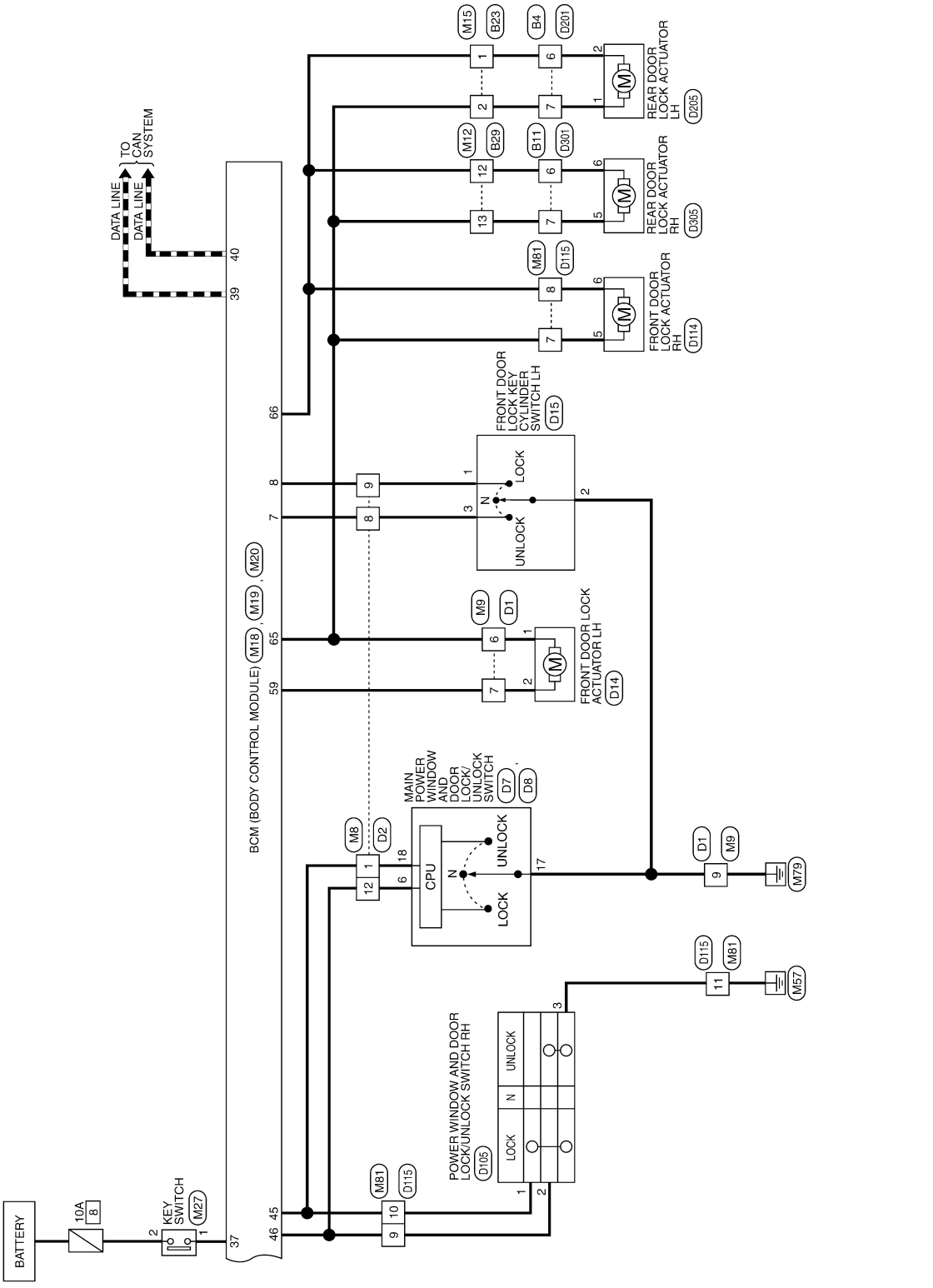
POWER DOOR LOCK SYSTEM

Wiring Diagram

INFOID:0000000007631224

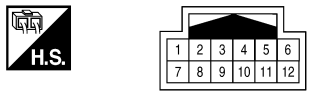


ABKWA1467GB


BATTERY
10A
8
KEY SWITCH
M27
BCM (BODY CONTROL MODULE)
M18
M19
M20
DATA LINE
DATA LINE
TO CAN SYSTEM
FRONT DOOR LOCK KEY CYLINDER SWITCH LH
D15
LOCK
UNLOCK
FRONT DOOR LOCK ACTUATOR LH
D14
MAIN POWER WINDOW AND DOOR LOCK/ UNLOCK SWITCH
D7
D8
CPU
POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
D105
REAR DOOR LOCK ACTUATOR LH
D205
REAR DOOR LOCK ACTUATOR RH
D305
FRONT DOOR LOCK ACTUATOR RH
D114
M57
M79
ABKWA1468GB

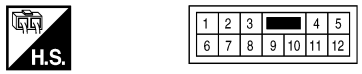
POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



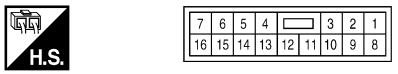
Terminal No.	Color of Wire	Signal Name
1	GR	–
8	W	–
9	GR	–
12	BR	–

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Color	WHITE



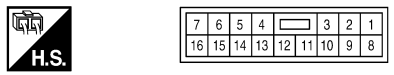
Terminal No.	Color of Wire	Signal Name
6	SB	–
7	G	–
9	B	–

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE



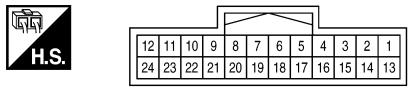
Terminal No.	Color of Wire	Signal Name
12	G	–
13	SB	–

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Color	WHITE



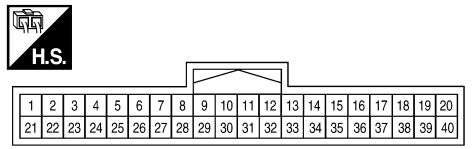
Terminal No.	Color of Wire	Signal Name
1	G	–
2	SB	–

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
15	W	–
16	LG	–
17	P	–
18	SB	–

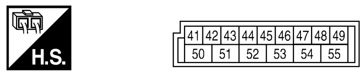
Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	W	KEY CYLINDER UNLOCK SW
8	GR	KEY CYLINDER LOCK SW
12	P	DOOR SW (AS)
13	LG	DOOR SW (RR)
37	Y	KEY SW
39	L	CAN-H
40	P	CAN-L

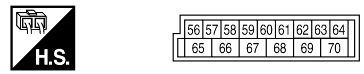
ABKIA3216GB

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
45	GR	CENTRAL DOOR LOCK SW
46	BR	CENTRAL DOOR UNLOCK SW
47	SB	DOOR SW (DR)
48	W	DOOR SW (RL)

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

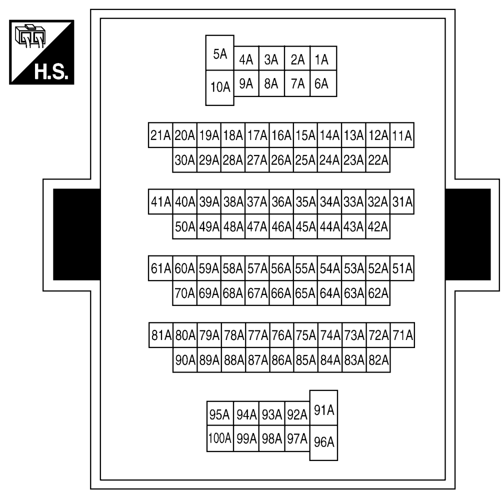


Terminal No.	Color of Wire	Signal Name
57	Y	BATTERY (FUSE)
59	G	DOOR UNLOCK OUTPUT(DR)
65	SB	DOOR LOCK OUTPUT
66	G	DOOR UNLOCK OUTPUT(AS, RR, RL)
67	B	GND
70	G	BATTERY (F/L)

Connector No.	M27
Connector Name	KEY SWITCH
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	LG	–

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
91A	G	–

ABKIA3217GB

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3		4	5
6	7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name
7	SB	–
8	G	–
9	BR	–
10	GR	–
11	B/W	–

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

				5A
1A	2A	3A	4A	10A
6A	7A	8A	9A	

11A	12A	13A	14A	15A	16A	17A	18A	19A	20A	21A										
	22A	23A	24A	25A	26A	27A	28A	29A	30A											
31A	32A	33A	34A	35A	36A	37A	38A	39A	40A	41A										
	42A	43A	44A	45A	46A	47A	48A	49A	50A											
51A	52A	53A	54A	55A	56A	57A	58A	59A	60A	61A										
	62A	63A	64A	65A	66A	67A	68A	69A	70A											
71A	72A	73A	74A	75A	76A	77A	78A	79A	80A	81A										
	82A	83A	84A	85A	86A	87A	88A	89A	90A											
											91A	92A	93A	94A	95A					
											96A	97A	98A	99A	100A					

Terminal No.	Color of Wire	Signal Name
91A	Y	–

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	LG	–

Connector No.	B6
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	V	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

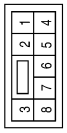
3		2	1
8	7	6	5	4

Terminal No.	Color of Wire	Signal Name
6	G	–
7	SB	–

ABKIA3218GB

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Color	WHITE

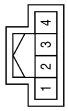
H.S.



Terminal No.	Color of Wire	Signal Name
6	G	–
7	SB	–

Connector No.	B16
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE

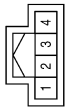
H.S.



Terminal No.	Color of Wire	Signal Name
3	L	–

Connector No.	B17
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
3	R	–

Connector No.	B23
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	–
2	SB	–

Connector No.	B24
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
15	V	–
16	R	–
17	L	–
18	LG	–

Connector No.	B29
Connector Name	WIRE TO WIRE
Connector Color	WHITE

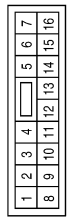
H.S.

Terminal No.	Color of Wire	Signal Name
12	G	–
13	SB	–

ABKIA3219GB

Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE

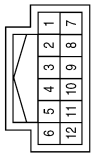
H.S.



Terminal No.	Color of Wire	Signal Name
6	L	UNLOCK SW

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE

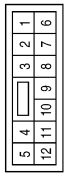
H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	–
8	W	–
9	G	–
12	L	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
6	LG	–
7	R	–
9	B	–

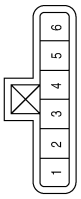
Connector No.	D15
Connector Name	FRONT DOOR LOCK KEY CYLINDER SWITCH LH
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	–
2	B	–
3	W	–

Connector No.	D14
Connector Name	FRONT DOOR LOCK ACTUATOR LH
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	LG	LOCK
2	R	UNLOCK

Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
17	B	GND
18	GR	LOCK SW

ABKIA3220GB

Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE

H.S.

1	2		3	4	5
6	7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name
1	GR	–
2	BR	–
3	B	–

Connector No.	D114
Connector Name	FRONT DOOR LOCK ACTUATOR RH
Connector Color	GRAY

H.S.

1	2	3	4	5	6

Terminal No.	Color of Wire	Signal Name
5	LG	UNLOCK
6	R	LOCK

Connector No.	D115
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

5	4		3	2	1
12	11	10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
7	LG	–
8	R	–
9	BR	–
10	GR	–
11	B	–

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2		3
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
6	G	–
7	SB	–

Connector No.	D205
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Color	GRAY

H.S.

1	2	3	4	5	6

Terminal No.	Color of Wire	Signal Name
1	SB	–
2	G	–

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE

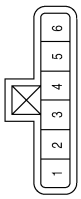
H.S.

1	2		3
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
6	G	–
7	SB	–

ABKIA3221GB

Connector No.	D305
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Color	GRAY



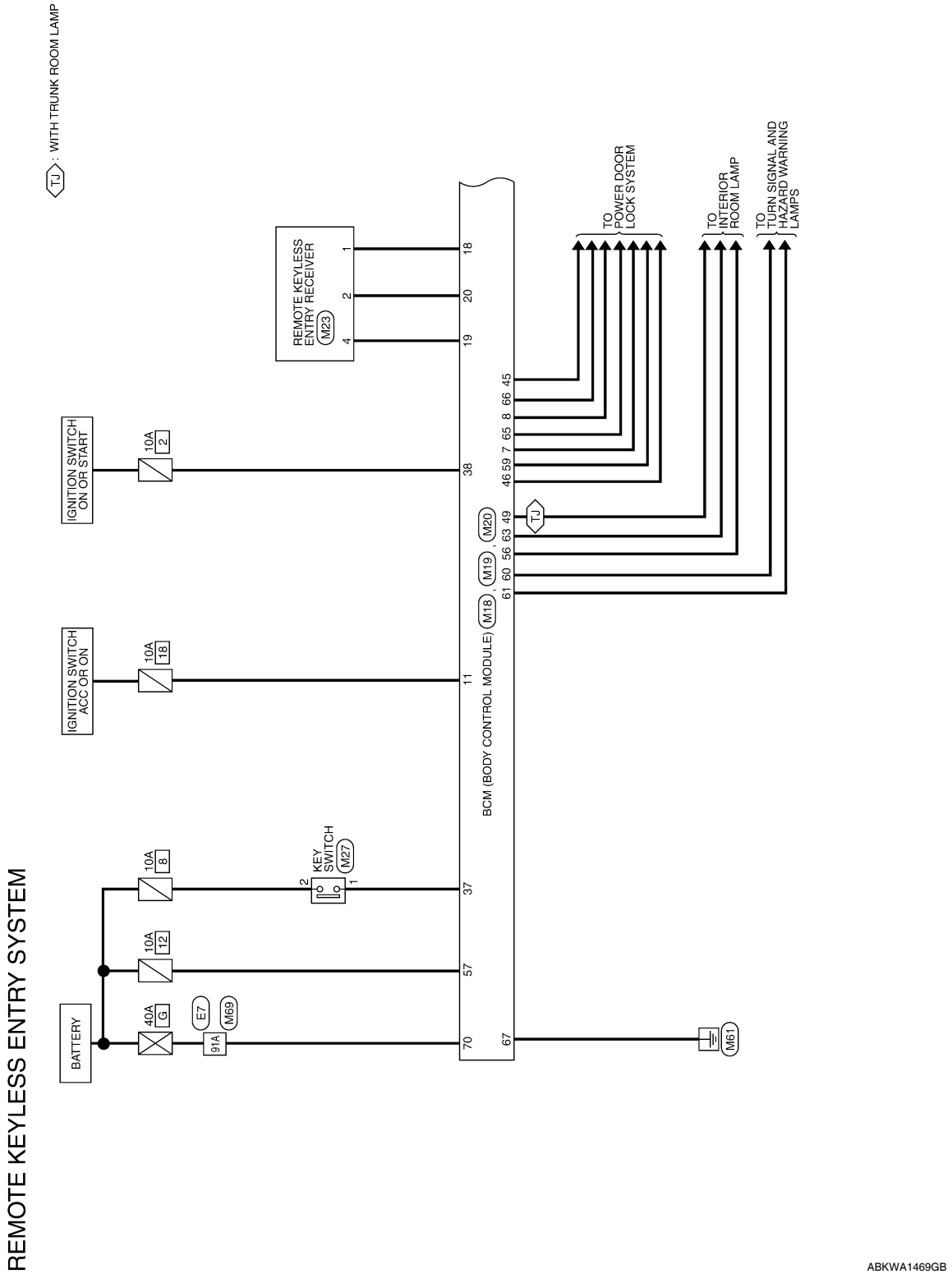
Terminal No.	Color of Wire	Signal Name
5	SB	–
6	G	–

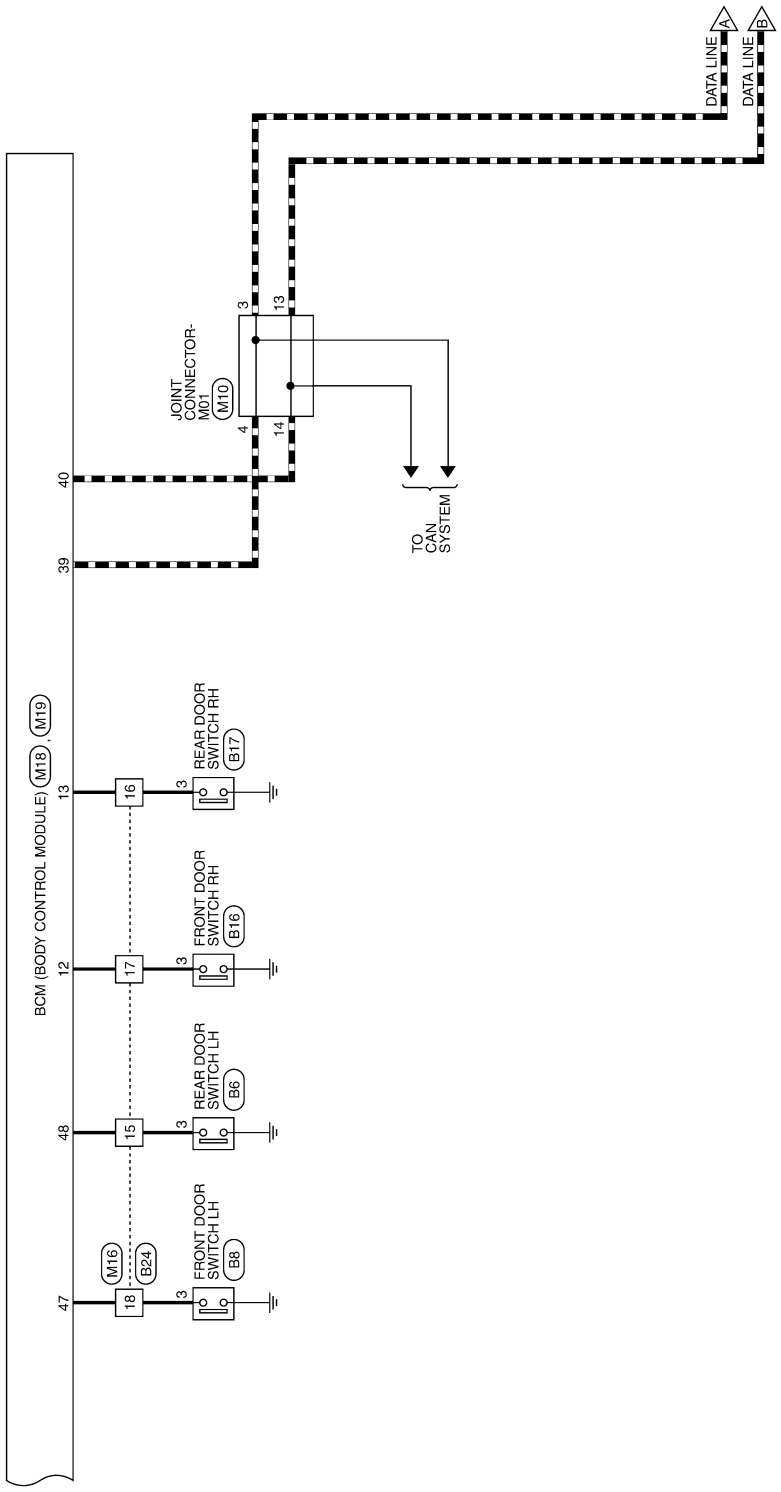
ABKIA3222GB

REMOTE KEYLESS ENTRY SYSTEM

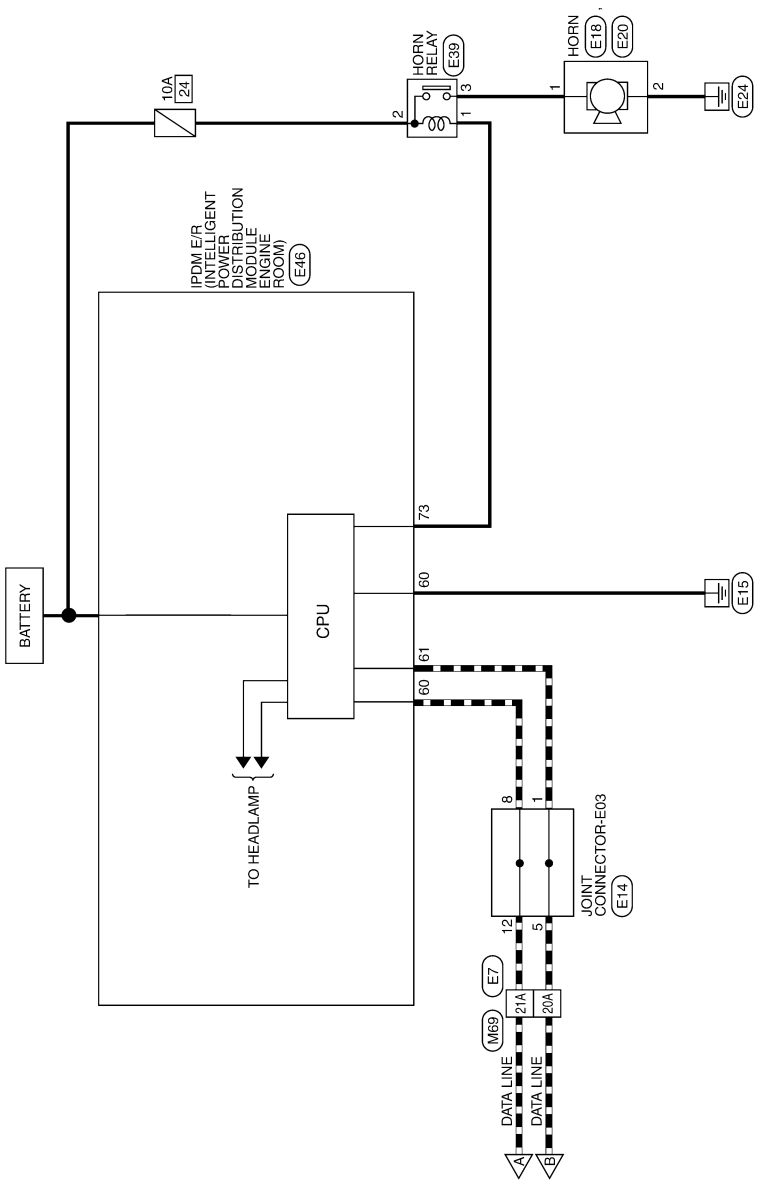
Wiring Diagram

INFOID:0000000007631225





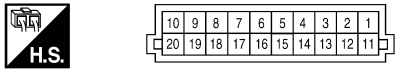
ABKWA1470GB



ABKWA1471GB

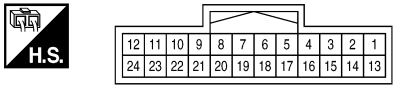
REMOTE KEYLESS ENTRY SYSTEM CONNECTORS

Connector No.	M10
Connector Name	JOINT CONNECTOR-M01
Connector Color	GRAY



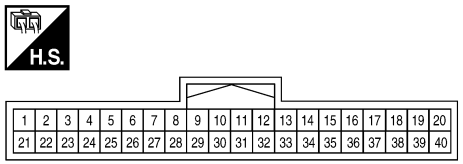
Terminal No.	Color of Wire	Signal Name
3	L	–
4	L	–
13	P	–
14	P	–

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Color	WHITE



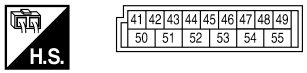
Terminal No.	Color of Wire	Signal Name
15	W	–
16	LG	–
17	P	–
18	SB	–

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	W	KEY CYLINDER UNLOCK SW
8	GR	KEY CYLINDER LOCK SW
11	BR	ACC SW
12	P	DOOR SW (AS)
13	LG	DOOR SW (RR)
18	V	KEYLESS & AUTO LIGHT SENSOR GND
19	LG	KEYLESS TUNER POWER SUPPLY
20	G	KEYLESS TUNER SIGNAL
37	Y	KEY SW
38	O	IGN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
45	GR	CENTRAL DOOR LOCK SW
46	BR	CENTRAL DOOR UNLOCK SW
47	SB	DOOR SW (DR)
48	W	DOOR SW (RL)
49	L	LUGGAGE LAMP OUTPUT

ABKIA3223GB

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

H.S.

56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			

Terminal No.	Color of Wire	Signal Name
56	W	BATTERY SAVER OUTPUT
57	Y	BATTERY (FUSE)
59	G	DOOR UNLOCK OUTPUT (DR)
60	V	FLASHER OUTPUT (LEFT)

Connector No.	M27
Connector Name	KEY SWITCH
Connector Color	BROWN

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	LG	–

Terminal No.	Color of Wire	Signal Name
61	W	FLASHER OUTPUT (RIGHT)
63	R	ROOM LAMP OUTPUT
65	SB	DOOR LOCK OUTPUT
66	G	DOOR UNLOCK OUTPUT (AS,RR,RL)
67	B	GND
70	G	BATTERY (F/L)

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

5A	4A	3A	2A	1A
10A	9A	8A	7A	6A

21A	20A	19A	18A	17A	16A	15A	14A	13A	12A	11A
	30A	29A	28A	27A	26A	25A	24A	23A	22A	

41A	40A	39A	38A	37A	36A	35A	34A	33A	32A	31A
	50A	49A	48A	47A	46A	45A	44A	43A	42A	

61A	60A	59A	58A	57A	56A	55A	54A	53A	52A	51A
	70A	69A	68A	67A	66A	65A	64A	63A	62A	

81A	80A	79A	78A	77A	76A	75A	74A	73A	72A	71A
	90A	89A	88A	87A	86A	85A	84A	83A	82A	

95A	94A	93A	92A	91A
100A	99A	98A	97A	96A

Terminal No.	Color of Wire	Signal Name
20A	P	–
21A	L	–
91A	G	–

Connector No.	M23
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Color	WHITE

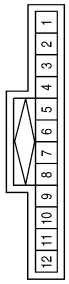
H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
1	V	GND
2	G	SIGNAL
4	LG	POWER

ABKIA3224GB

Connector No.	E14
Connector Name	JOINT CONNECTOR-E03
Connector Color	BLUE

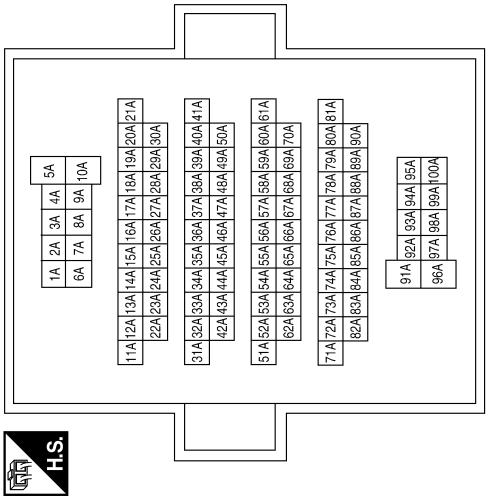


Terminal No.	Color of Wire	Signal Name
1	P	–
5	P	–
8	L	–
12	L	–

Connector No.	E39
Connector Name	HORN RELAY
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	SB	–
2	L	–
3	G	–

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
20A	P	–
21A	L	–
91A	Y	–

Connector No.	E20
Connector Name	HORN
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
2	B	–

Connector No.	E18
Connector Name	HORN
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	G	–

ABKIA3225GB

Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

H.S.

64	63	62	61	60	59	58	57	56	55	54	53
76	75	74	73	72	71	70	69	68	67	66	65

Terminal No.	Color of Wire	Signal Name
60	B	GND (SIGNAL)
61	P	CAN-L
62	L	CAN-H
73	SB	HORN RLY

Connector No.	B6
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	V	–

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	LG	–

Connector No.	B16
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	L	–

Connector No.	B17
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	R	–

Connector No.	B24
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name
15	V	–
16	R	–
17	L	–
18	LG	–

ABKIA3226GB

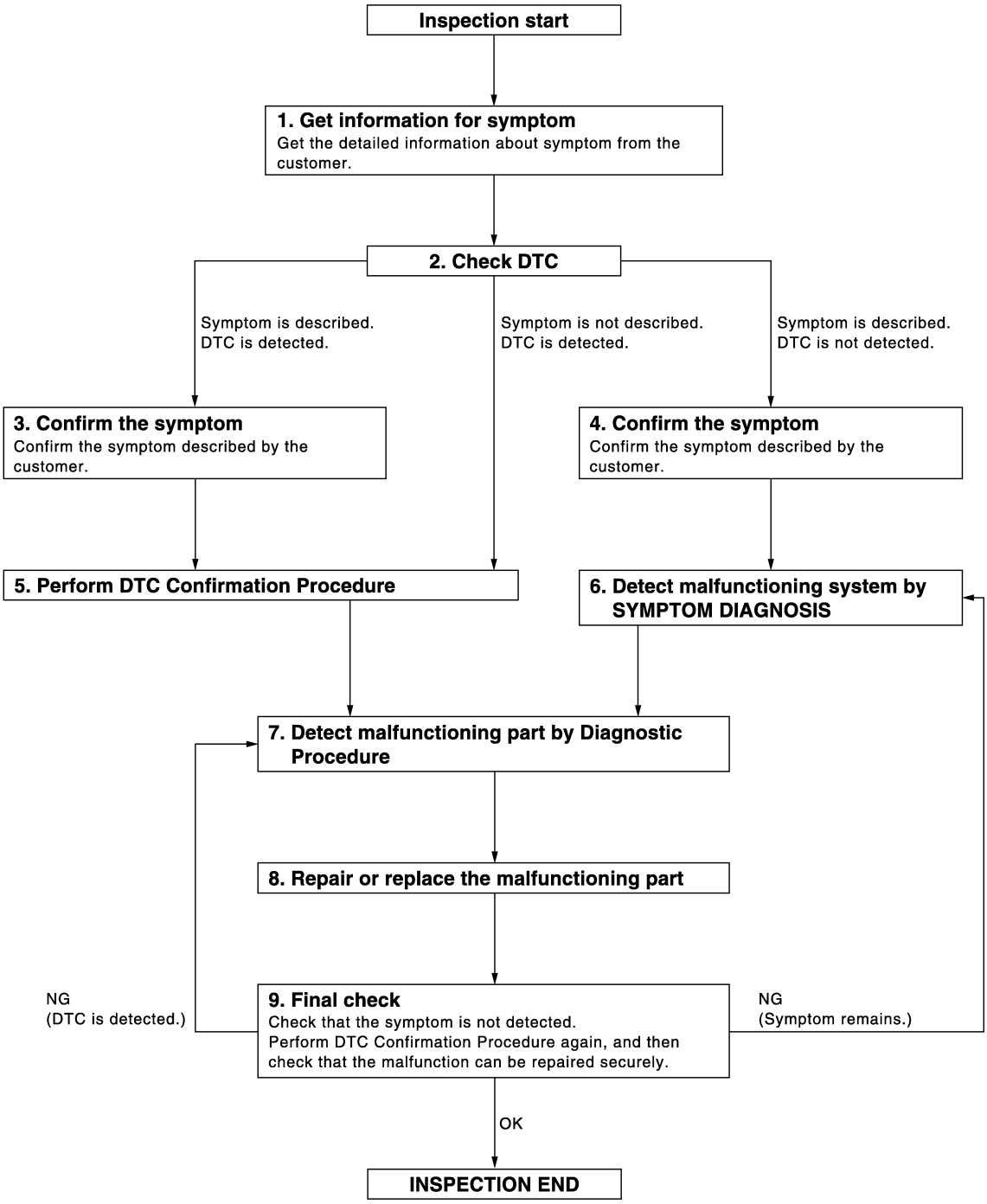
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000007631113

OVERALL SEQUENCE



JMKIA2270GB

DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2

2.CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with 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.

Is any symptom described and any DTC detected?

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT to the vehicle in “DATA MONITOR” mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT to the vehicle in “DATA MONITOR ” mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time.
If two or more DTCs are detected, refer to BCS-35, "DTC Inspection Priority Chart" 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 in Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
  If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

Yes >> GO TO 7
No >> Refer to GI-38, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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

>> GO TO 7

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

Is malfunctioning part detected?

YES >> GO TO 8
NO >> Check voltage of related BCM terminals using CONSULT.

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9

9.FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.
When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is the inspection result normal?

NO (DTC is detected)>>GO TO 7
NO (Symptom remains)>>GO TO 6
YES >> Inspection End.

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000007631114

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000007631115

Refer to the CONSULT Operation Manual for the initialization procedure.

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000007631137

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicles are equipped with many electronic control units, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.
CAN Communication Signal Chart. Refer to LAN-27, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart".

DTC Logic

INFOID:0000000007631138

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. • Receiving (ECM) • Receiving (ABS) • Receiving (METER/M&A) • Receiving (TCM) • Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000007631139

1.PERFORM SELF DIAGNOSTIC

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

Is “CAN COMM CIRCUIT” displayed?

YES >> Refer to LAN-14, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-38, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000007631140

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000007631141

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM. Refer to BCS-52, "Removal and Installation".

Special Repair Requirement

INFOID:0000000007631142

1.REQUIRED WORK WHEN REPLACING BCM

Initialize NVIS by CONSULT. For the details of initialization refer to CONSULT Operation Manual.

>> Work End.

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000007678471

Regarding Wiring Diagram information, refer to BCS-37, "Wiring Diagram".

1.CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
57	Battery power supply	12 (10A)
70		G (40A)
11	Ignition switch ACC or ON	18 (10A)
38	Ignition switch ON or START	2 (10A)

Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM connector and ground.

BCM			Ignition switch position		
Connector	Terminal		OFF	ACC	ON
M20	57	Ground	Battery voltage	Battery voltage	Battery voltage
	70				
M18	11		0 V	Battery voltage	Battery voltage
	38		0 V	0 V	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM connector and ground.

BCM			Continuity
Connector	Terminal		
M20	67	Ground	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair harness or connector.

DOOR SWITCH

Description

INFOID:0000000007631151

Detects door open/close condition.

Component Function Check

INFOID:0000000007631152

1.CHECK FUNCTION

With CONSULT

Check door switches DOOR SW-DR, DOOR SW-AS, DOOR SW-RL, DOOR SW-RR in Data Monitor mode with CONSULT.

Monitor item	Condition
DOOR SW-DR	CLOSE → OPEN: OFF → ON
DOOR SW-AS	
DOOR SW-RL	
DOOR SW-RR	

Is the inspection result normal?

YES >> Door switch is OK.
NO >> Refer to DLK-44, "Diagnosis Procedure".

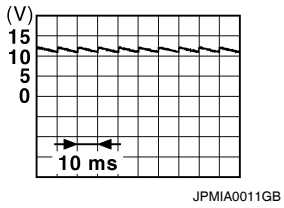
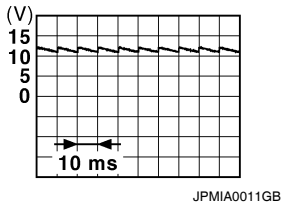
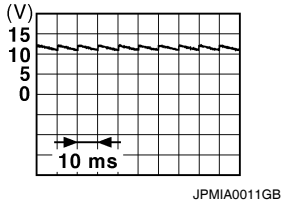
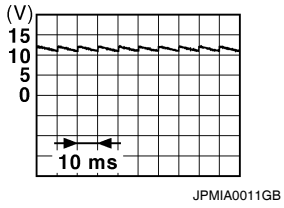
Diagnosis Procedure

INFOID:0000000007631153

Regarding Wiring Diagram information, refer to DLK-21, "Wiring Diagram".

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM connector and ground with oscilloscope.

Terminals (+) BCM connector	Terminals (+) Terminal	Terminals (–)	Door condition		Voltage (V) (Approx.)
M18	12	Ground	Front RH	OPEN	0
				CLOSE	 JPMIA0011GB
	13		Rear RH	OPEN	0
				CLOSE	 JPMIA0011GB
M19	47		Front LH	OPEN	0
				CLOSE	 JPMIA0011GB
	48		Rear LH	OPEN	0
				CLOSE	 JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 4
NO >> GO TO 2

2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM connector and door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M18	12	B16 (Front RH)	3	Yes
	13	B17 (Rear RH)		
M19	47	B8 (Front LH)		
	48	B6 (Rear LH)		

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M18	12	Ground	No
	13		
M19	47		
	48		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Refer to DLK-46, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace malfunctioning door switch.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000007631154

1.CHECK DOOR SWITCH

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

Terminal		Door switch condition	Continuity
Door switch			
3	Ground part of door switch	Pressed	No
		Released	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace malfunctioning door switch.

DOOR LOCK AND UNLOCK SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007631155

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000007631156

1.CHECK FUNCTION

With CONSULT
Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT.

Monitor item	Condition	
CDL LOCK SW	LOCK	: ON
	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 DLK-47, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007631157

Regarding Wiring Diagram information, refer to DLK-21, "Wiring Diagram".

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage at the main power window and door lock/unlock switch connector when the switch (driver side) is turned to “LOCK” or “UNLOCK”.

Connector	Main power window and door lock/unlock switch state	Terminal		Voltage
D7	Neutral → Unlock	6	Ground	Battery voltage → 0
D8	Neutral → Lock	18		

Is the inspection result normal?

YES >> GO TO 5
NO >> GO TO 2

2.CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connector.
3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal		Continuity
D8	17	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3.CHECK POWER WINDOW SWITCH

Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch state	Terminals	Continuity
Lock	17 - 18	Yes
Unlock	6 - 17	
Neutral/Lock	6 - 17	No
Neutral/Unlock	17 - 18	

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace main power window and door lock/unlock switch. Refer to DLK-123, "Removal and Installation".

4.CHECK POWER WINDOW SWITCH CIRCUITS

1. Disconnect BCM connector.
2. Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M19	45	D8	18	Yes
	46	D7	6	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M19	45	Ground	No
	46		

Is the inspection result normal?

YES >> GO TO 5
NO >> Repair or replace harness.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007631158

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000007631159

1.CHECK FUNCTION

With CONSULT

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT.

Monitor item	Condition	
CDL LOCK SW	LOCK	: ON
	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 DLK-49, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007631160

Regarding Wiring Diagram information, refer to DLK-21, "Wiring Diagram".

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage at the power window and door lock/unlock switch RH connector when the switch (passenger side) is turned to “LOCK” or “UNLOCK”.

Connector	Power window and door lock/unlock switch RH state	Terminal		Voltage
D105	Neutral → Lock	1	Ground	Battery voltage → 0
	Neutral → Unlock	2		

Is the inspection result normal?

YES >> GO TO 5
NO >> GO TO 2

2.CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH connector.
3. Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/unlock switch RH connector	Terminal		Continuity
D105	3	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3.CHECK POWER WINDOW SWITCH

Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch RH state	Terminals	Continuity
Lock	1 - 3	Yes
Unlock	2 - 3	
Neutral/Unlock	1 - 3	No
Neutral/Lock	2 - 3	

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace power window and door lock/unlock switch RH.

4.CHECK POWER WINDOW SWITCH CIRCUITS

1. Disconnect BCM connector.
2. Check continuity between BCM connector and power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M19	45	D105	1	Yes
	46		2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M19	45	Ground	No
	46		

Is the inspection result normal?

YES >> GO TO 5
NO >> Repair or replace harness.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

KEY CYLINDER SWITCH

Description

INFOID:0000000007631165

When the mechanical key is inserted and turned into the front door lock key cylinder switch LH, the switch transmits the LOCK or UNLOCK signal directly to the BCM.

Component Function Check

INFOID:0000000007631166

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check KEY CYL UN-SW, KEY CYL UN-SW in “DATA MONITOR” mode for “POWER DOOR LOCK SYSTEM” with CONSULT. Refer to DLK-18, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

Monitor item	Condition	
KEY CYL LK-SW	Lock	: ON
	Neutral / Unlock	: OFF
KEY CYL UN-SW	Unlock	: ON
	Neutral / Lock	: OFF

Is the inspection result normal?

YES >> Key cylinder switch is OK.
NO >> Refer to DLK-51, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007631167

Regarding Wiring Diagram information, refer to DLK-21, "Wiring Diagram".

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between BCM connector and ground.

Terminals			Key position	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M18	8	Ground	Lock	0
			Neutral / Unlock	5
	7		Unlock	0
			Neutral / Lock	5

Is the inspection result normal?

YES >> Front door lock key cylinder switch LH is OK.
NO >> GO TO 2

2.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front door lock key cylinder switch LH connector.
3. Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D15	2		Yes

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Disconnect BCM connector M18.
2. Check continuity between front door lock key cylinder switch LH connector and BCM connector M18.

Front door lock key cylinder switch LH connector	Terminal	BCM connector	Terminal	Continuity
D15	1	M18	8	Yes
	3		7	

3. Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D15	1		No
	3		

Is the inspection result normal?

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

4.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
Refer to DLK-52, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace front door lock key cylinder switch LH.

Component Inspection

INFOID:0000000007631168

COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

Check front door lock key cylinder switch LH.

Terminal		Key position	Continuity
Front door lock key cylinder switch LH connector			
1	2	Lock	Yes
		Neutral / Unlock	No
3		Unlock	Yes
		Neutral / Lock	No

Is the inspection result normal?

YES >> Key cylinder switch is OK.
NO >> Replace front door lock key cylinder switch LH.

KEY SWITCH (BCM INPUT)

Diagnosis Procedure

INFOID:0000000007687635

Regarding Wiring Diagram information, refer to DLK-21, "Wiring Diagram".

1.CHECK KEY SWITCH INPUT SIGNAL

With CONSULT

Check key switch "KEY ON SW" in DATA MONITOR mode with CONSULT. Refer to DLK-18, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

- When key is inserted to ignition key cylinder:

KEY ON SW : ON

- When key is removed from ignition key cylinder:

KEY ON SW : OFF

Without CONSULT

Check voltage between BCM connector M18 terminal 37 and ground.

Connector	Terminal		Condition	Voltage (V)
	(+)	(–)		
M18	37	Ground	Key is inserted.	Battery voltage
			Key is removed.	0

Is the inspection result normal?

YES >> Key switch (insert) circuit is OK.
NO >> GO TO 2

2.CHECK KEY SWITCH (INSERT)

1. Turn ignition switch OFF.
2. Disconnect key switch connector.
3. Check continuity between key switch terminals.

Terminals	Condition	Continuity
1 – 2	Key is inserted.	Yes
	Key is removed.	No

Is the inspection result normal?

YES >> Repair or replace harness or fuse.
NO >> Replace key switch.

DOOR LOCK ACTUATOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007631177

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000007631178

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-54, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007631179

Regarding Wiring Diagram information, refer to DLK-21, "Wiring Diagram".

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals			Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M20	59	Ground	Unlock	0 → Battery voltage → 0
	65		Lock	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator driver side connector.
3. Check continuity between BCM connector and front door lock actuator driver side connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M20	59	D14	2	Yes
	65		1	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M20	59	Ground	No
	65		

Is the inspection result normal?

YES >> Replace front door lock actuator LH.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007631180

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000007631181

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-55, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007631182

Regarding Wiring Diagram information, refer to DLK-21, "Wiring Diagram".

1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals			Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M20	65	Ground	Lock	0 → Battery voltage → 0
	66		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and front door lock actuator RH connectors.
2. Check continuity between BCM connector and front door lock actuator RH.

BCM connector	Terminal	Front door lock actuator RH connector	Terminal	Continuity
M20	65	D114	5	Yes
	66		6	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M20	65	Ground	No
	66		

Is the inspection result normal?

YES >> Replace front door lock actuator RH.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

REAR LH

REAR LH : Description

INFOID:0000000007631183

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:0000000007631184

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-56, "REAR LH : Diagnosis Procedure".

REAR LH : Diagnosis Procedure

INFOID:0000000007631185

Regarding Wiring Diagram information, refer to DLK-21, "Wiring Diagram".

1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals			Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M20	65	Ground	Lock	0 → Battery voltage → 0
	66		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and rear door lock actuator LH connectors.
2. Check continuity between BCM connector and rear door lock actuator LH connectors.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M20	65	D205	1	Yes
	66		2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity

M20	65	Ground	No
	66		

Is the inspection result normal?

YES >> Replace rear door lock actuator LH.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

REAR RH

REAR RH : Description

INFOID:0000000007631186

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:0000000007631187

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-57, "REAR RH : Diagnosis Procedure".

REAR RH : Diagnosis Procedure

INFOID:0000000007631188

Regarding Wiring Diagram information, refer to DLK-21, "Wiring Diagram".

1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals			Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M20	65	Ground	Lock	0 → Battery voltage → 0
	66		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and rear door lock actuator RH connectors.
2. Check continuity between BCM connector and rear door lock actuator RH connectors.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M20	65	D305	5	Yes
	66		6	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
M20	65	Ground	No
	66		

Is the inspection result normal?

YES >> Replace rear door lock actuator RH.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:0000000007631196

Receives keyfob operation and transmits to BCM.

Component Function Check

INFOID:0000000007631197

1.CHECK FUNCTION

With CONSULT

Check remote keyless entry receiver KEYLESS LOCK, KEYLESS UNLOCK, and KEYLESS PANIC in Data Monitor mode with CONSULT.

Monitor item	Condition
KEYLESS LOCK	Checks whether value changes from "Off" to "On" when operating keyfob lock button.
KEYLESS UNLOCK	Checks whether value changes from "Off" to "On" when operating keyfob unlock button.
KEYLESS PANIC	Checks whether value changes from "Off" to "On" when operating keyfob panic button.

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.
NO >> Refer to DLK-59, "Diagnosis Procedure".

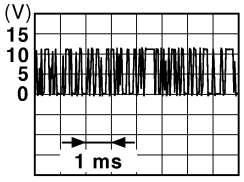
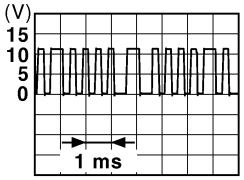
Diagnosis Procedure

INFOID:0000000007631198

Regarding Wiring Diagram information, refer to DLK-30, "Wiring Diagram".

1.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

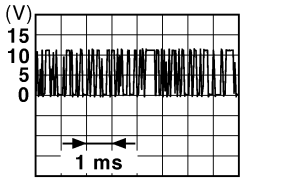
Terminals			Condition	Signal (Reference value)
(+)		(–)		
Remote keyless entry receiver connector	Terminal			
M23	2	Ground	Waiting (All doors closed)	 JMKIA0064GB
			When signal is received (All doors closed)	 JMKIA0065GB

Is the inspection result normal?

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

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

1. Disconnect remote keyless entry receiver connector.
2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.

Terminals			Signal (Reference value)
(+)		(–)	
Remote keyless entry receiver connector	Terminal		
M23	4	Ground	 JMKIA0064GB

Is the inspection result normal?

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

3.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

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

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M18	19	M23	4	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M18	19		No

Is the inspection result normal?

YES >> Reconnect BCM, GO TO 4
NO >> Repair or replace harness between BCM and remote keyless entry receiver.

4.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver connector and ground.

Remote keyless entry receiver connector	Terminal	Ground	Continuity
M23	1		Yes

Is the inspection result normal?

YES >> GO TO 6
NO >> GO TO 5

5.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

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

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M18	18	M23	1	Yes

Is the inspection result normal?

YES >> GO TO 7
NO >> Repair or replace harness between BCM and remote keyless entry receiver.

6. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

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

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M18	20	M23	2	Yes

2. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M18	20		No

Is the inspection result normal?

YES >> GO TO 7
NO >> Repair or replace harness between BCM and remote keyless entry.

7. CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

KEYFOB BATTERY AND FUNCTION

Description

INFOID:0000000007631199

The following functions are available when having and carrying the keyfob.
- Door lock/unlock
- Panic mode (horn and headlamp operation)

Remote control entry function and panic alarm function are available when operating the remote buttons.

Component Function Check

INFOID:0000000007631200

NOTE:
The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.
- Check keyfob relative signal strength
- Confirm vehicle antenna signal strength

1.CHECK FUNCTION

With CONSULT
Check remote keyless entry receiver KEYLESS LOCK, KEYLESS UNLOCK, and KEYLESS PANIC in Data Monitor mode with CONSULT.

Monitor item	Condition
KEYLESS LOCK	Checks whether value changes from "Off" to "On" when operating keyfob lock button.
KEYLESS UNLOCK	Checks whether value changes from "Off" to "On" when operating keyfob unlock button.
KEYLESS PANIC	Checks whether value changes from "Off" to "On" when operating keyfob panic button.

Is the inspection result normal?

YES >> Keyfob is OK.
NO >> Refer to DLK-62, "Diagnosis Procedure".

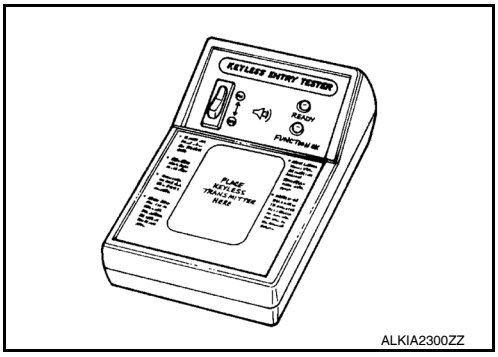
Diagnosis Procedure

INFOID:0000000007631201

NOTE:
The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.
- Check keyfob relative signal strength
- Confirm vehicle antenna signal strength

1.CHECK KEYFOB FUNCTION

Check keyfob function using Signal Tech II Tool J-50190 or Remote Keyless Entry Tester J-43241 (shown).



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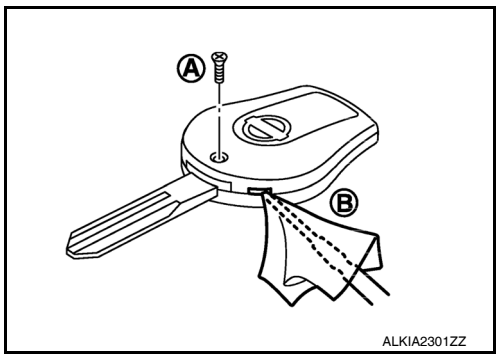
Does the test pass?

YES >> Keyfob is OK.
NO >> GO TO 2

2. CHECK KEYFOB COMPONENTS

1. Remove the screw (A).
2. Insert a small screwdriver into the slit of the corner (B) and twist it to separate the upper part from the power part. Use a cloth to protect the casing.
   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.**
3. Remove the keyfob battery.
   CAUTION:
   - **Keep dirt, grease, and other foreign materials off the electrode contact area.**
4. Visually inspect keyfob internal components.



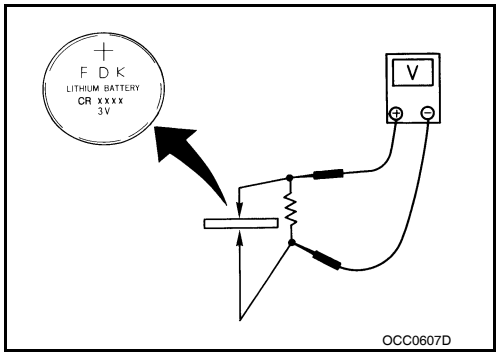
Is the inspection result normal?

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

3. CHECK KEYFOB BATTERY

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

Standard : Approx. 2.5 - 3.0V

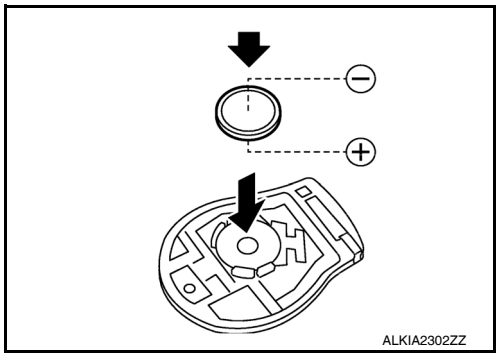


Is the measurement value within specification?

YES >> Keyfob battery is OK. Check remote keyless entry receiver. Refer to DLK-59, "Component Function Check".
NO >> GO TO 4

4. REPLACE KEYFOB BATTERY

1. Replace the keyfob battery with a new one (CR1620 or equivalent).
   CAUTION:
   - **When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.**
   - **Make sure that the + side faces the bottom of the case.**
2. Align the tips of the upper and lower parts, and then push them together until it is securely closed.
3. After replacing the battery, check that all keyfob functions work properly.



Is the inspection result normal?

YES >> Keyfob is OK.
NO >> Check remote keyless entry receiver. Refer to DLK-59, "Component Function Check".

HORN FUNCTION

Description

INFOID:0000000007631205

Perform answer-back for each operation with horn.

Component Function Check

INFOID:0000000007631206

1.CHECK FUNCTION

1. Select HORN in “ACTIVE TEST” mode with CONSULT.
2. Check the horn operation.

Test item		Description	
HORN	ON	Horn relay	ON (for 20 ms)

Is the operation normal?

YES >> Inspection End.
NO >> Refer to DLK-64, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007631207

Regarding Wiring Diagram information, refer to DLK-30, "Wiring Diagram".

1.CHECK HORN FUNCTION

Check horn function with horn switch.

Does the horn sound?

YES >> GO TO 2
NO >> Refer to HRN-3, "Wiring Diagram".

2.CHECK HORN RELAY POWER SUPPLY

1. Turn ignition switch ON.
2. Perform “ACTIVE TEST” (“HORN”) with CONSULT.
3. Using an oscilloscope or analog voltmeter to check voltage between IPDM E/R connector and ground.

IPDM E/R		Ground	Test item		Voltage (V) (Approx.)
Connector	Terminal				
E46	73	Ground	HORN	ON	Battery voltage → 0 → Battery voltage
				Other than above	Battery voltage

Is the inspection result normal?

YES >> Repair or replace open harness between IPDM E/R and horn relay.
NO >> GO TO 3

3.CHECK HORN RELAY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R and horn relay connector.
3. Check continuity between IPDM E/R harness connector and horn relay harness connector.

IPDM E/R		Horn relay		Continuity
Connector	Terminal	Connector	Terminal	
E46	73	E39	1	Yes

4. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E46	73	Ground	No

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-25, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

WARNING CHIME FUNCTION

Description

INFOID:0000000007631211

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:0000000007631212

1.CHECK FUNCTION

With CONSULT

1. Check the operation with “BUZZER” in the Active Test.
2. Touch “IGN KEY WARN ALM”, “SEAT BELT WARN TEST”or “LIGHT WARN ALM”on screen.

Is the inspection result normal?

YES >> Warning buzzer into combination meter is OK.
NO >> Refer to DLK-66, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007631213

1.CHECK METER BUZZER CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

YES >> GO TO 2
NO >> Replace combination meter. Refer to MWI-52, "Removal and Installation" (type A) or MWI-101, "Removal and Installation" (type B).

2.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

HAZARD FUNCTION

Description

INFOID:0000000007631214

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

Component Function Check

INFOID:0000000007631215

1.CHECK FUNCTION

Check hazard warning lamp (“FLASHER”) in Active Test.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.
NO >> Refer to DLK-67, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007631216

1.CHECK HAZARD SWITCH CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

YES >> GO TO 2
NO >> Repair or replace hazard warning switch circuit. Refer to EXL-53, "Work Flow".

2.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> Inspection End.

KEYFOB ID SET UP WITH CONSULT

ID Code Entry Procedure

INFOID:0000000007714267

KEYFOB ID SET UP WITH CONSULT

NOTE:

- **If a keyfob is lost, the ID code of the lost keyfob must be erased to prevent unauthorized use. A specific ID code can be erased with CONSULT. However, when the ID code of a lost keyfob is not known, all controller ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.**
- **When registering an additional keyfob, the existing ID codes in memory may or may not be erased. If five ID codes are stored in memory when an additional code is registered, only the oldest code is erased. If less than five codes are stored in memory when an additional code is registered, the new ID code is added and no ID codes are erased.**
- **Entry of a maximum of five ID codes is allowed. When more than five codes are entered, the oldest ID code will be erased.**
- **Even if the same ID code that is already in memory is input, the same ID code can be entered. The code is counted as an additional code.**

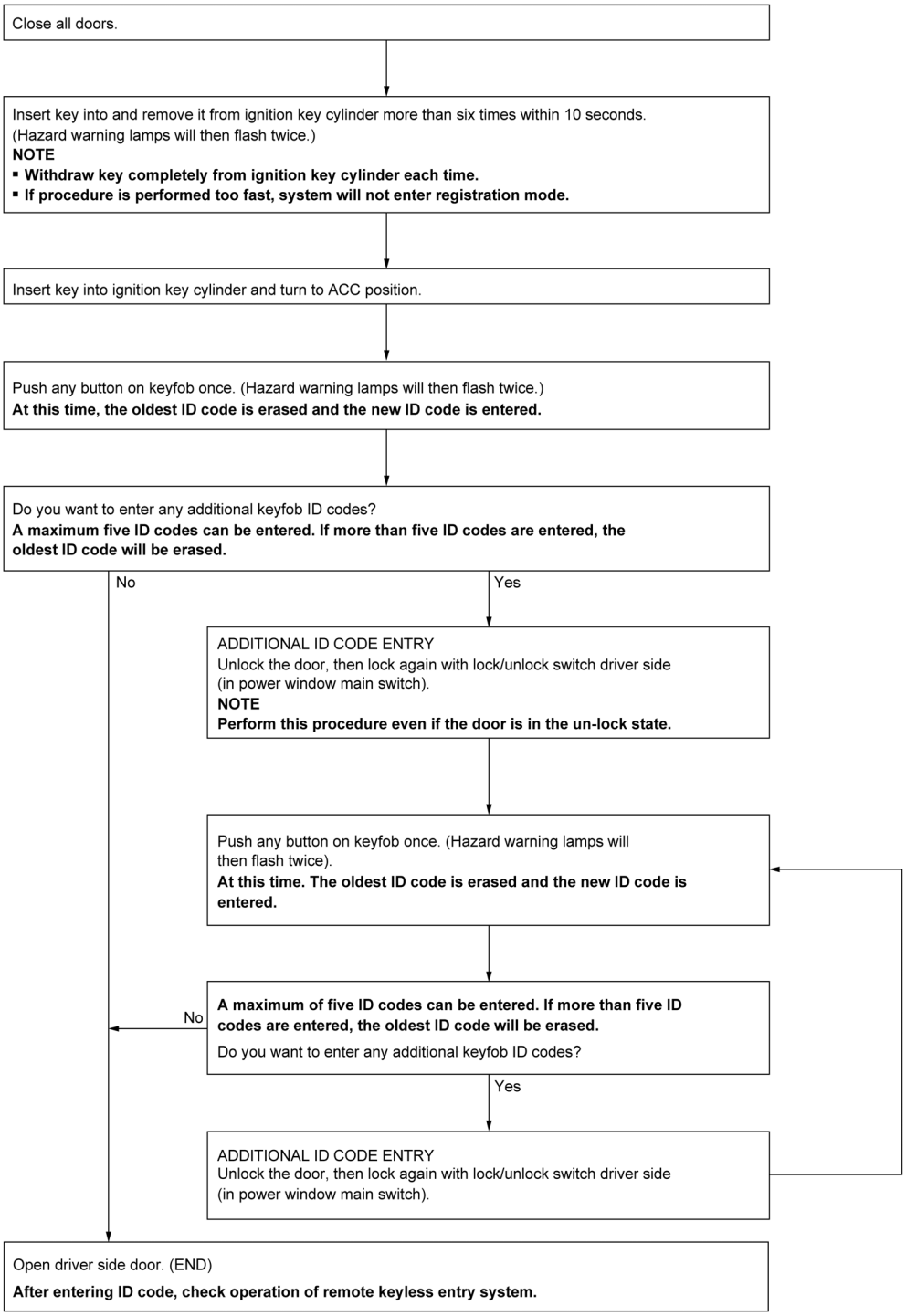
1. Turn ignition switch ON.
2. Select BCM.
3. Select MULTI REMOTE ENT.
4. Select WORK SUPPORT.
5. You can register, erase or confirm a keyfob ID code. To register a new code, select the following option and follow CONSULT instructions:
   - REMO CONT ID REGIST
     Use this mode to register a keyfob ID code.
     NOTE:
     Register the ID code when keyfob or BCM is replaced, or when additional keyfob is required.
   - REMO CONT ID ERASUR
     Use this mode to erase a keyfob ID code.
   - REMO CONT ID CONFIR
     Use this mode to confirm if a keyfob ID code is registered or not.

KEYFOB ID SET UP WITHOUT CONSULT

ID Code Entry Procedure

INFOID:0000000007714268

KEYFOB ID SET UP WITHOUT CONSULT



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NOTE:

- If a keyfob is lost, the ID code of the lost keyfob must be erased to prevent unauthorized use. A specific ID code can be erased with CONSULT. However, when the ID code of a lost keyfob is not known, all controller

ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.
To erase all ID codes in memory, register one ID code (keyfob) five times. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.

- When registering an additional keyfob, the existing ID codes in memory may or may not be erased. If five ID codes are stored in memory, when an additional code is registered, only the oldest code is erased. If less than five ID codes are stored in memory, when an additional ID code is registered, the new ID code is added and no ID codes are erased.
- If you need to activate more than two additional new keyfobs, repeat the procedure “Additional ID code entry” for each new keyfob DLK-68, "ID Code Entry Procedure" (with CONSULT), DLK-69, "ID Code Entry Procedure" (without CONSULT).
- A maximum amount of five ID codes is allowed. When more than five ID codes are entered, the oldest ID code will be erased.
- Even if same ID code that is already in the memory is input, the same ID code can be entered. The code is counted as an additional code.

SYMPTOM DIAGNOSIS

POWER DOOR LOCK SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000007631228

DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to DLK-37, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Symptom	Diagnosis/service procedure		Reference page
Key reminder door function does not operate properly.	1. Check door switch.		DLK-44
	2. Check key switch.		DLK-53
	3. Check Intermittent Incident.		GI-38
Power door lock does not operate with door lock and unlock switch on main power window and door lock/unlock switch or power window and door lock/unlock switch RH.	1. Check BCM Power supply and ground circuit.		DLK-43
	2. Check main power window and door lock and unlock switch.		DLK-47
	3. Check power window and door lock and unlock switch RH.		DLK-48
	4. Check Intermittent Incident.		GI-38
Specific door lock actuator does not operate.	1. Check door lock actuator.	Driver side	DLK-54
		Passenger side	DLK-55
		Rear LH	DLK-56
		Rear RH	DLK-57
	2. Check Intermittent Incident.		GI-38
Power door locks do not operate with front door lock key cylinder switch LH.	1. Check key cylinder switch.		DLK-51
	2. Replace BCM.		BCS-52
Vehicle speed sensing auto door LOCK operation does not operate.	1. Ensure automatic door lock/unlock function (lock operation) is enabled.		DLK-18
	2. Check combination meter vehicle speed signal.		MWI-40 (Type A) MWI-89 (Type B)
	3. Check intermittent incident.		GI-38
Ignition OFF interlock auto door UNLOCK function does not operate.	1. Ensure automatic door lock/unlock function (unlock operation) is enabled.		DLK-18
	2. Check BCM for DTCs.		BCS-35
	3. Check intermittent incident.		GI-38

REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000007631229

REMOTE KEYLESS ENTRY SYSTEM

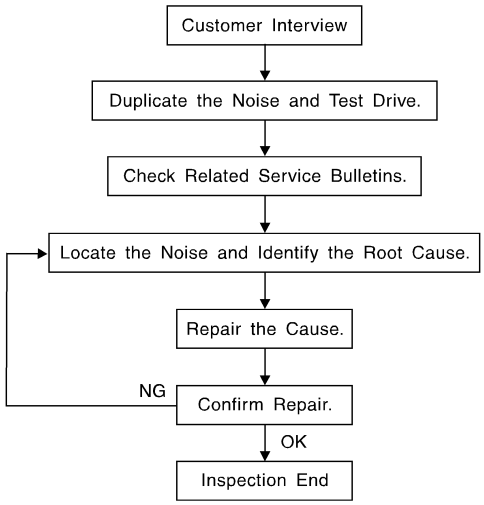
Symptom	Diagnoses/service procedure	Reference page
All functions of remote keyless entry system do not operate.	1. Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) **NOTE:** If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-62
	2. Check BCM and remote keyless entry receiver.	DLK-59
The new ID of keyfob cannot be entered.	1. Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) **NOTE:** If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-62
	2. Door switch check	DLK-44
	3. ACC power check	DLK-43
	4. Replace BCM.	BCS-52
Door lock or unlock does not function. (If the power door lock system does not operate manually, check power door lock system)	1. Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) **NOTE:** If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-62
	2. Replace BCM.	BCS-52
Hazard and horn reminder does not activate properly when pressing lock or unlock button of keyfob.	1. Check hazard and horn reminder mode with CONSULT **NOTE:** Hazard and horn reminder mode can be changed. First check the hazard and horn reminder mode setting.	DLK-19
	2. Door switch check	DLK-44
	3. Replace BCM.	BCS-52
Hazard reminder does not activate properly when pressing lock or unlock button of keyfob. (Horn reminder OK)	1. Check hazard reminder mode with CONSULT **NOTE:** Hazard reminder mode can be changed. First check the hazard reminder mode setting.	DLK-19
	2. Check hazard function with hazard switch	—
	3. Replace BCM.	BCS-52
Horn reminder does not activate properly when pressing lock or unlock button of keyfob. (Hazard reminder OK)	1. Check horn reminder mode with CONSULT **NOTE:** Horn reminder mode can be changed. First check the horn reminder mode setting.	DLK-19
	2. Check horn function with horn switch	—
	3. IPDM E/R operation check	PCS-5
	4. Replace BCM.	BCS-52
Room lamp illumination does not operate properly.	1. Room lamp operation check	INL-8
	2. Door switch check	DLK-44
	3. Replace BCM.	BCS-52

Symptom	Diagnoses/service procedure	Reference page
Panic alarm (horn and headlamp) does not activate when panic alarm button is continuously pressed.	1. Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) **NOTE:** If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-62
	2. ACC power check	DLK-43
	3. Replace BCM.	BCS-52
Auto door lock operation does not activate properly. (All other remote keyless entry functions OK.)	1. Check auto door lock operation mode with CONSULT **NOTE:** Auto door lock operation mode can be changed. First check the auto door lock operation mode setting.	DLK-18
	2. Replace BCM.	BCS-52

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000007733020



SBT842

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 customer's comments; refer to DLK-78, "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, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
  Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)
  Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)
  Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
  Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
  Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
  Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
  Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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

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

1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and 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: J-39565 and mechanic's stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
   - removing the components in the area that you suspect the noise is coming from.
     Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
   - tapping or pushing/pulling the component that you suspect is causing the noise.
     Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
   - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
   - placing a piece of paper between components that you suspect are causing the noise.
   - looking for loose components and contact marks.
     Refer to DLK-76, "Generic Squeak and Rattle Troubleshooting".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:

- separate components by repositioning or loosening and retightening the component, if possible.
- insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A NISSAN Squeak and Rattle Kit (J-43980) is available through your authorized NISSAN Parts Department.

CAUTION:
Do not use excessive force as many components are constructed of plastic and may be damaged.
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 (3.94×5.31 in)/76884-71L01: 60×85 mm (2.36×3.35 in)/76884-71L02: 15×25 mm (0.59×0.98 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 (1.97×1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97×1.97 in)
INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18×1.97 in)
FELT CLOTH TAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15×25 mm (0.59×0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll. The following materials not found in the kit can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE

Used instead of UHMW tape that will be visible or not fit.
Note: Will only last a few months.
SILICONE SPRAY
Use when grease cannot be applied.
DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

INFOID:0000000007733021

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 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 silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:
Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. Shift selector assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

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

DOORS

Pay attention to the:

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

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

TRUNK

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

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

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. Sun visor shaft shaking in the holder
3. Front or rear windshield touching headliner 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.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.
In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.
3. Loose screws at console attachment points.

SEATS

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

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. 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 installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

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

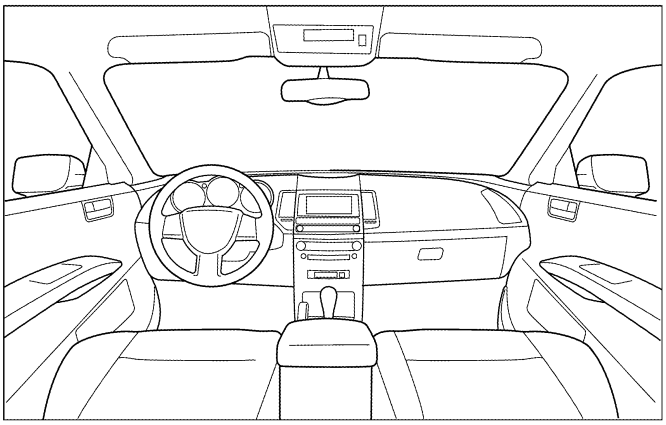
Diagnostic Worksheet

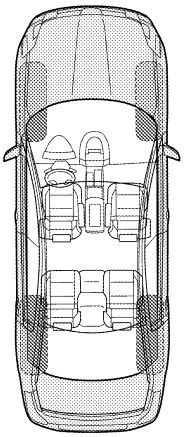
INFOID:0000000007733022

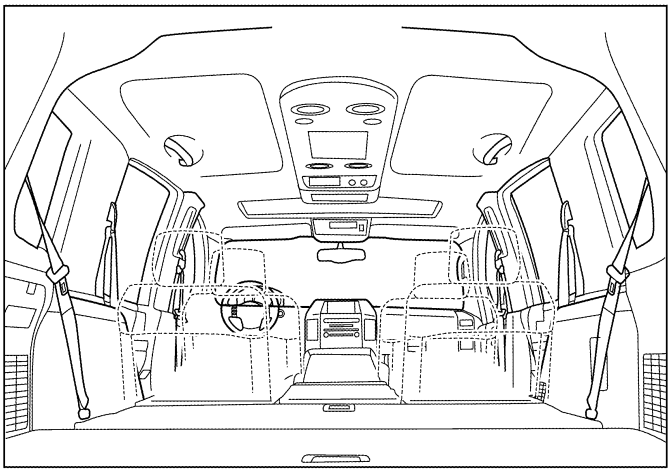
Dear Customer:
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions.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

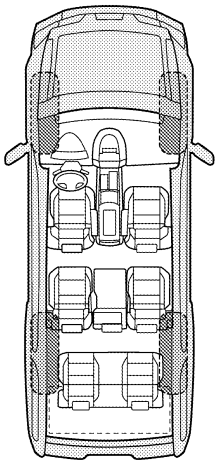
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

LAIA0072E

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- ☐ Anytime
- ☐ 1st time in the morning
- ☐ Only when it is cold outside
- ☐ Only when it is hot outside
- ☐ After sitting out in the rain
- ☐ When it is raining or wet
- ☐ Dry or dusty conditions
- ☐ Other:

III. WHEN DRIVING:

- ☐ Through driveways
- ☐ Over rough roads
- ☐ Over speed bumps
- ☐ Only about ____ mph
- ☐ On acceleration
- ☐ Coming to a stop
- ☐ On turns: left, right or either (circle)
- ☐ With passengers or cargo
- ☐ Other: _____
- ☐ After driving _____ miles or _____ minutes

IV. WHAT TYPE OF NOISE

- ☐ Squeak (like tennis shoes on a clean floor)
- ☐ Creak (like walking on an old wooden floor)
- ☐ Rattle (like shaking a baby rattle)
- ☐ Knock (like a knock at the door)
- ☐ Tick (like a clock second hand)
- ☐ Thump (heavy muffled knock noise)
- ☐ Buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

_____

_____

_____

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

VIN: _____ Customer Name _____

W.O.# _____ Date: _____

This form must be attached to Work Order

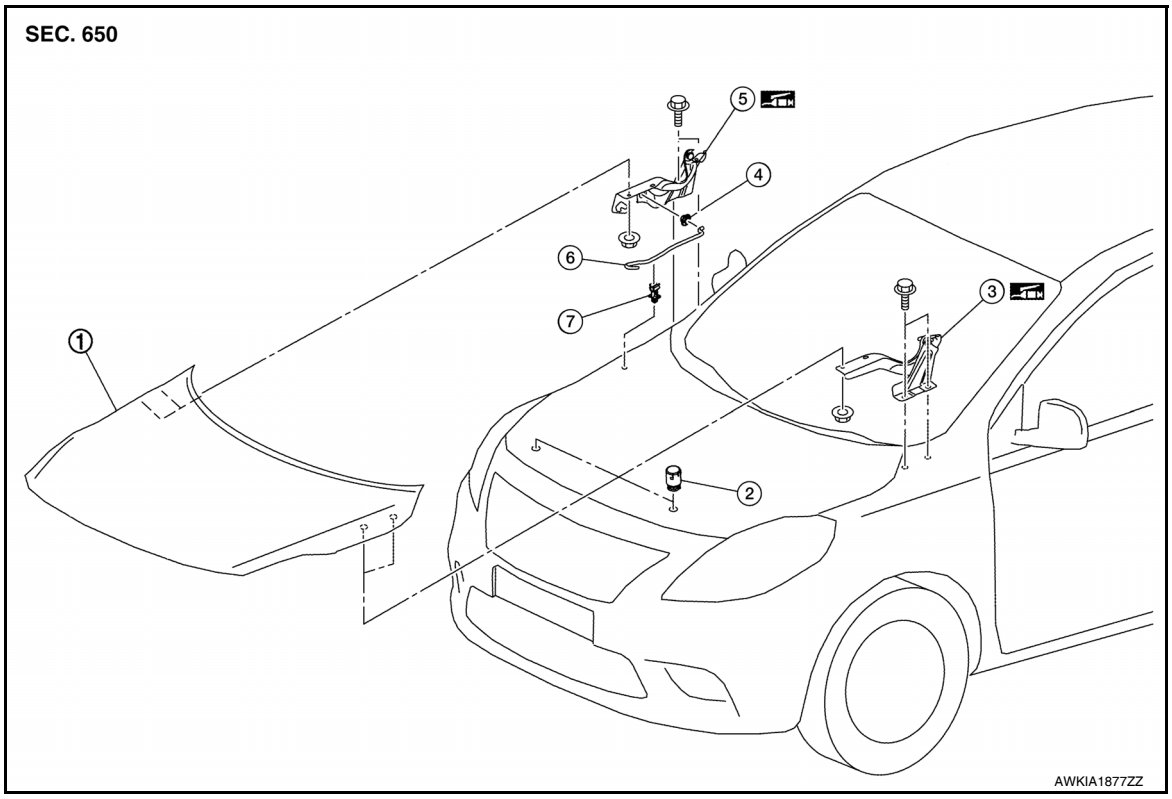
LAIA0071E

REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:0000000007207049



1. Hood assembly
2. Hood bumper rubber
3. Hood hinge LH
4. Grommet
5. Hood hinge RH
6. Hood support rod
7. Clamp

: Body grease

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000007207050

REMOVAL

1. Support hood assembly using a suitable tool.

   WARNING:
   Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.
2. Remove hood hinge to hood nuts and then remove the hood assembly.

   CAUTION:
   Use two people when removing or installing hood assembly due to its heavy weight.

INSTALLATION

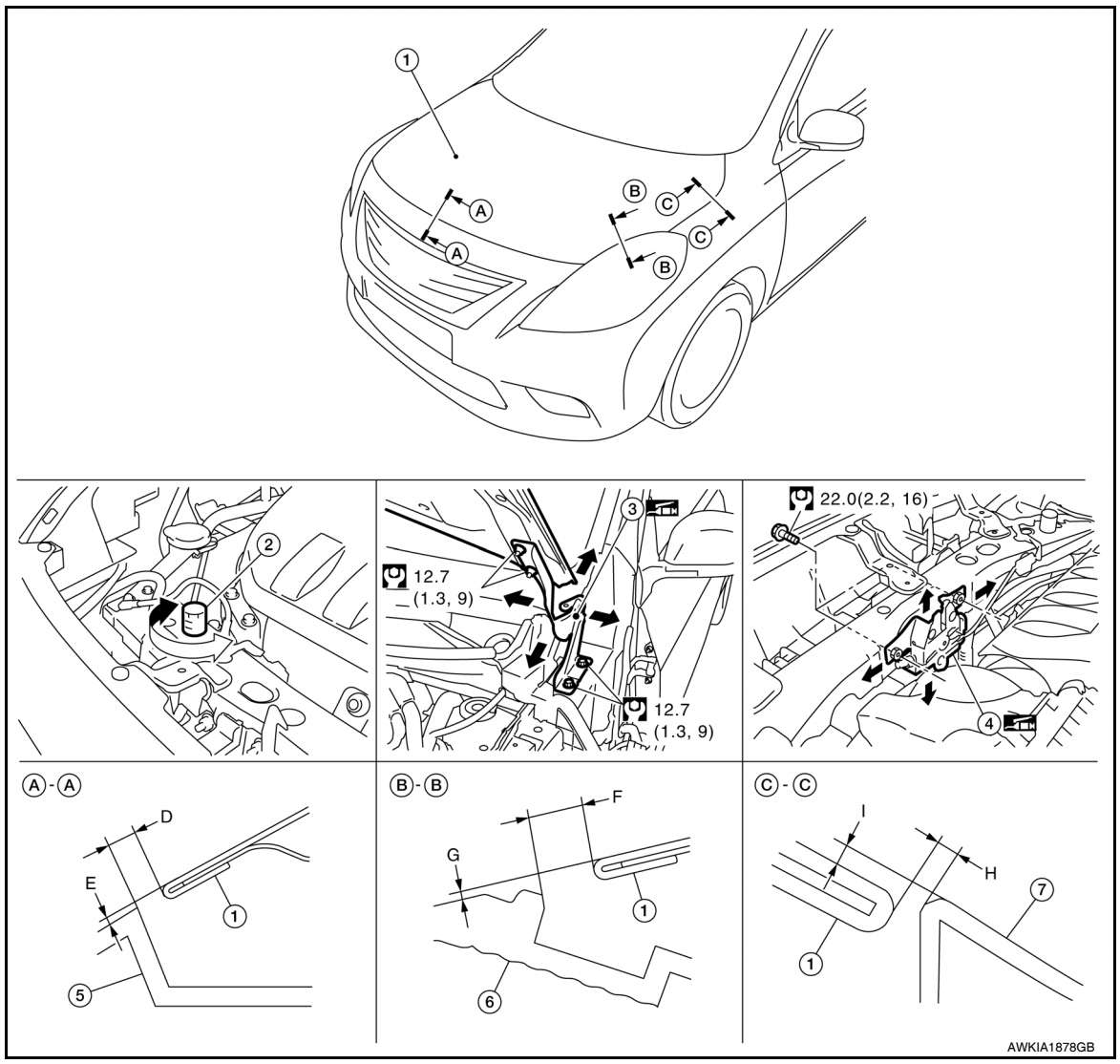
Installation is in the reverse order of removal.

CAUTION:

- **Perform hood fitting adjustment procedure. Refer to DLK-81, "HOOD ASSEMBLY : Adjustment".**
- **After adjusting, apply touch-up paint (the body color) to the head of hood hinge bolts and nuts.**

HOOD ASSEMBLY : Adjustment

INFOID:0000000007207051



1. Hood assembly
2. Hood bumper rubber
3. Hood hinge
4. Hood lock assembly
5. Front bumper fascia
6. Front combination lamp
7. Front fender
: Body grease

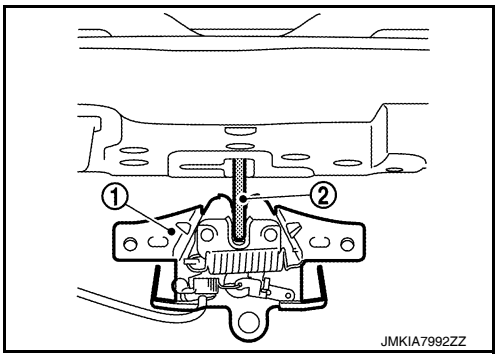
Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

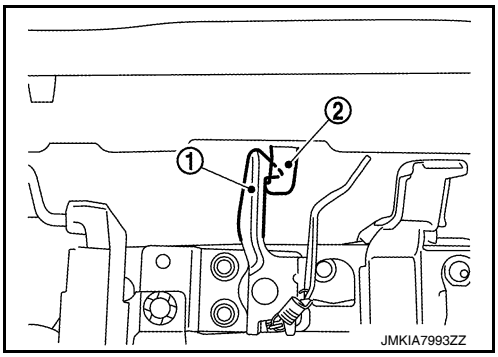
Portion	Section	Item	Measurement	Standard	Difference (RH/LH, MAX)
Hood – Front bumper fascia	A – A	D	Clearance	4.4 ± 2.5 (0.17 ± 0.10)	—
Hood – Front bumper fascia	A – A	E	Surface height	-0.5 ± 2.0 (0.02 ± 0.08)	< 3.0 (0.12)
Front combination lamp – Hood	B – B	F	Clearance	4.0 ± 2.1 (0.16 ± 0.08)	< 2.5 (0.10)
Front combination lamp – Hood	B – B	G	Surface height	0.7 ± 2.0 (0.03 ± 0.08)	< 2.0 (0.08)
Hood – Front fender	C –	H	Clearance	3.5 ± 1.0 (0.14 ± 0.04)	< 1.5 (0.06)
Hood – Front fender	C –	I	Surface height	0.0 ± 1.0 (0.0 ± 0.04)	< 1.5 (0.06)

ADJUSTMENT PROCEDURE

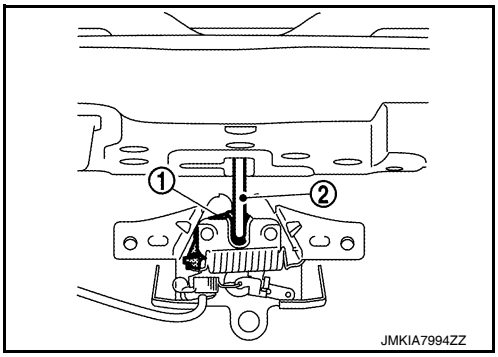
1. Remove hood lock assembly, and then adjust the surface height of hood assembly, front fender assembly, and front combination lamp according to the specified values, by rotating hood bumper rubber.
2. Position hood lock assembly (1) and engage primary striker (2). Check hood lock assembly and primary striker for looseness.



3. Move hood lock assembly laterally until the center of primary striker and hood lock assembly are vertical when viewed from the front.
4. After adjustment, tighten hood lock assembly bolts to the specified torque.
5. Rotate bumper rubber a minimum of 1/8 of a rotation counterclockwise in an upward direction.
   CAUTION:
   If any looseness is felt in hood striker or hood lock assembly, rotate bumper rubber more than 1/8 of a rotation.
6. Check that secondary latch (1) is securely engaged with secondary striker (2) from the dead load of the hood assembly.



7. Check that primary latch (1) is securely engaged with primary striker (2) when hood assembly is closed [free-fall from approximately 200 mm (7.9 in) height].



8. Close hood assembly with a static closing force of 300 – 490 N (30.6 – 50.0 kg, 67.4 – 110 lb).

HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:0000000007207052

REMOVAL

1. Remove hood assembly. Refer to DLK-80, "HOOD ASSEMBLY : Removal and Installation".
2. Remove hood support rod and grommet. Refer to DLK-83, "HOOD SUPPORT ROD : Removal and Installation".
3. Remove front fender. Refer to DLK-87, "FRONT FENDER : Removal and Installation".
4. Remove hood hinge bolts and remove hood hinge.

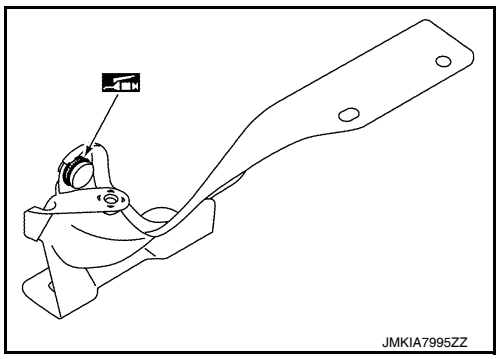
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Check hood hinge rotating point for poor lubrication. If necessary, apply grease.

: **Body grease**



HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation

INFOID:0000000007207053

REMOVAL

1. Support hood assembly with a suitable tool.

   WARNING:

   Bodily injury may occur if hood assembly is not supported properly when removing hood support rod.

2. Rotate and remove hood support rod from grommet.
3. Release tab and remove grommet from hood hinge, if necessary.

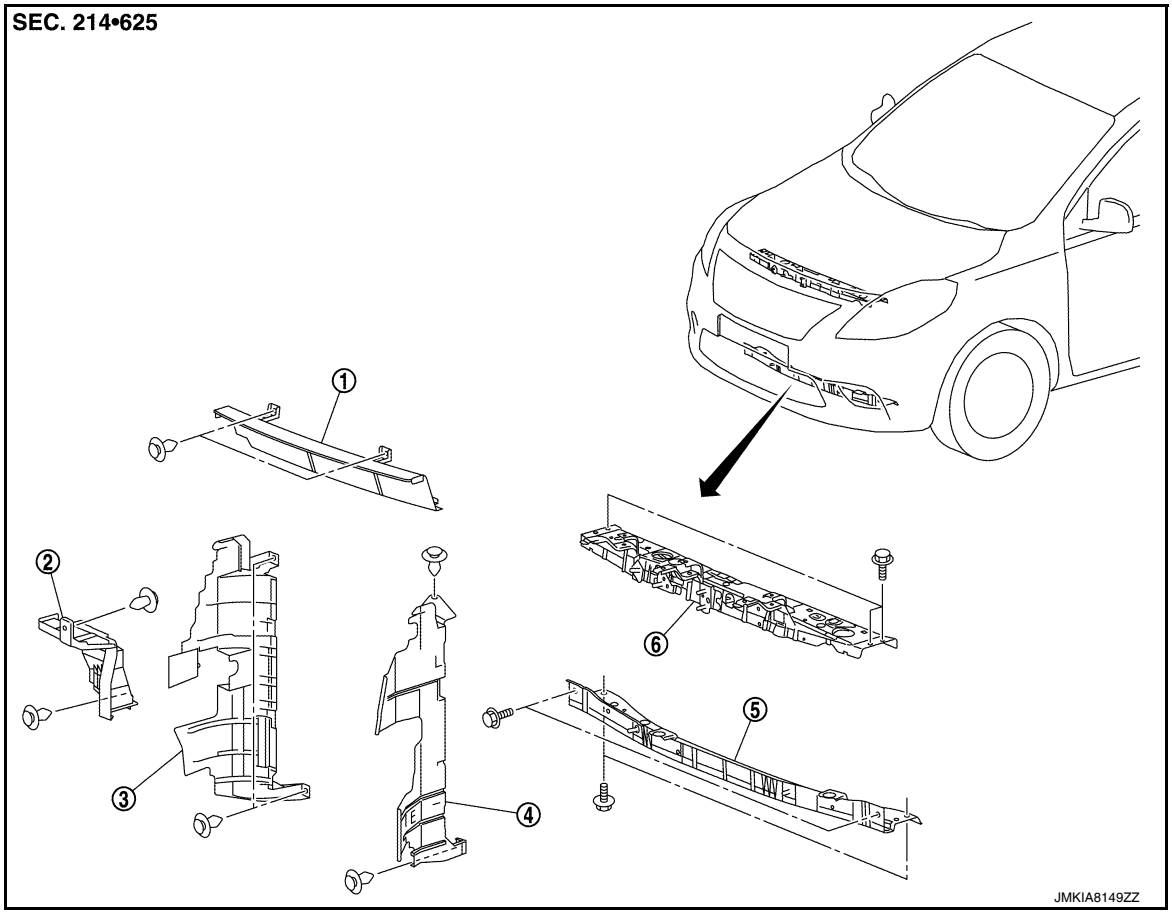
INSTALLATION

Installation is in the reverse order of removal.

RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000007207054



1. Radiator upper seal
2. Condenser side seal
3. Radiator side seal (RH)
4. Radiator side seal (LH)
5. Radiator core support lower
6. Radiator core support upper

RADIATOR CORE SUPPORT UPPER

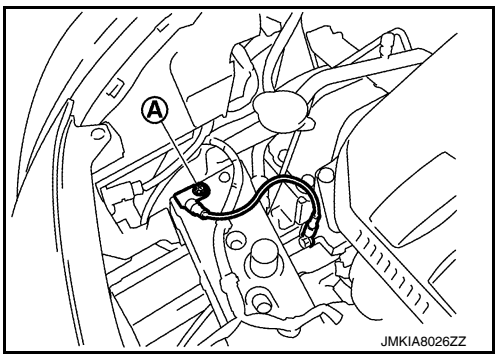
RADIATOR CORE SUPPORT UPPER : Removal and Installation

INFOID:0000000007207055

RADIATOR CORE SUPPORT UPPER

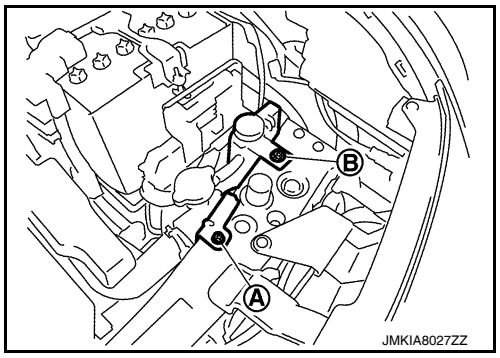
Removal

1. Remove ground harness bolt (A).

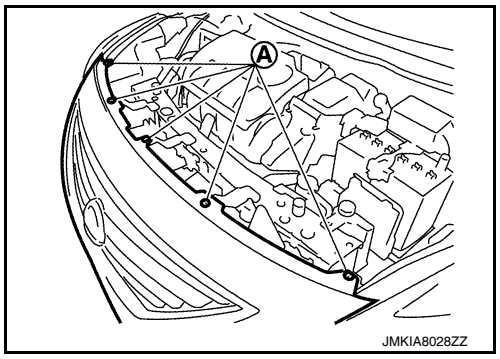


2. Remove horn. Refer to HRN-6, "Removal and Installation".
3. Remove hood lock assembly and hood lock control cable assembly clip. Refer to DLK-105, "HOOD LOCK : Removal and Installation".

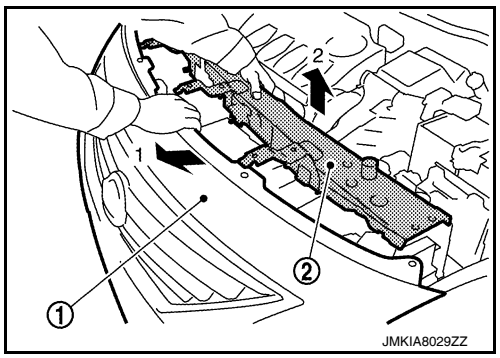
4. Remove crash zone sensor. Refer to SR-15, "Removal and Installation".
5. Remove radiator cap adapter bracket bolt (A) and radiator reservoir tank bolt (B).



6. Remove radiator upper seal clips.
7. Remove upper clips of radiator side seal (LH/RH).
8. Disconnect all harness clips.
9. Remove front bumper fascia upper side clips (A).



10. Remove radiator core support upper bolts.
11. Pull back on upper part of front bumper fascia (1) and then remove radiator core support upper (2) by pulling upward.
12. Remove



13. Rotate hood bumper rubber (LH/RH) counterclockwise to remove from radiator core support upper, if necessary.

Installation

Installation is in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

RADIATOR CORE SUPPORT LOWER : Removal and Installation

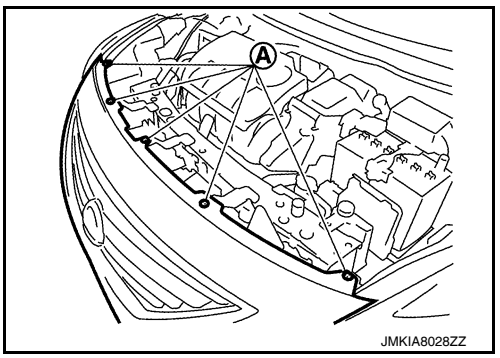
INFOID:0000000007207056

RADIATOR CORE SUPPORT LOWER

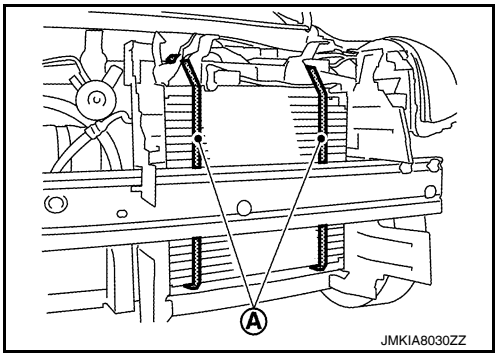
Removal

1. Remove undercover. Refer to EXT-19, "Removal and Installation".
2. Remove radiator upper seal clips.

3. Remove front bumper fascia upper side clips (A).



4. Remove fender protector (LH/RH) clips from radiator core support lower. Refer to EXT-26, "Exploded View".
5. Remove lower clips of radiator side seal (LH/RH).
6. Remove lower clips of condenser side seal.
7. Use suitable tools (A) to suspend components and to prevent them from falling.
   CAUTION:
   Use care to avoid damage to radiator and condenser.



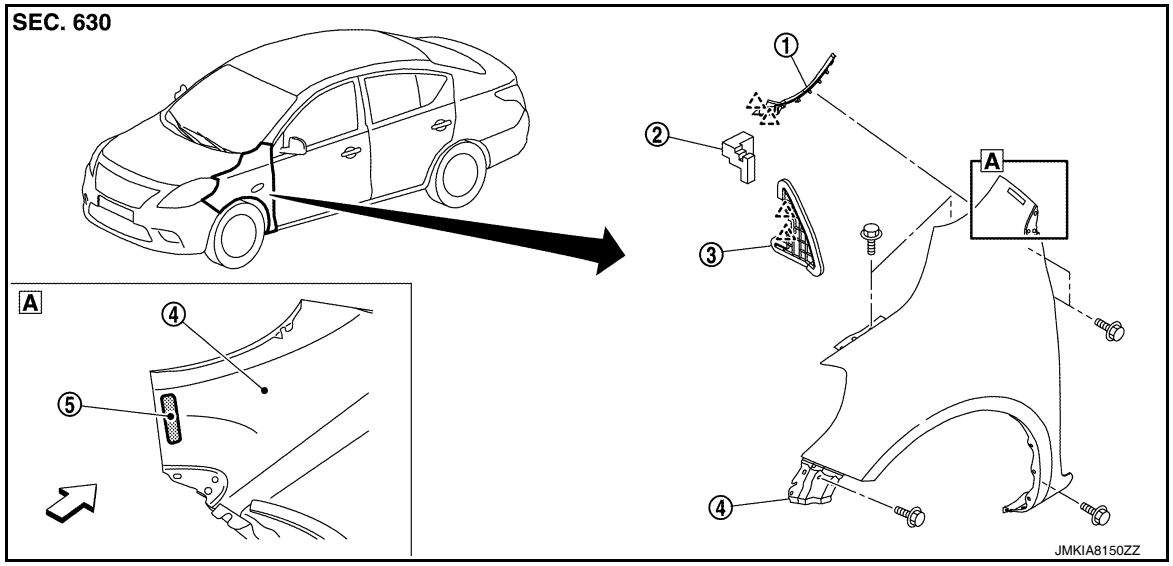
8. Remove radiator core support lower bolts and radiator core support lower.

Installation
Installation is in the reverse order of removal.

FRONT FENDER

Exploded View

INFOID:0000000007207057



1. Front fender cover
2. Front fender seal
3. Front fender upper insulator
4. Front fender
5. Front fender stiffener
⇦ Vehicle front

△ : Pawl

FRONT FENDER

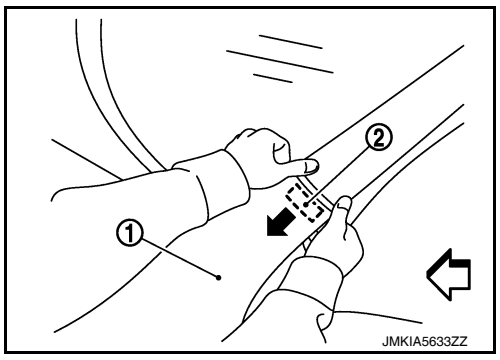
FRONT FENDER : Removal and Installation

INFOID:0000000007207058

CAUTION:
Use a shop cloth to protect the body from being damaged during removal and installation.

REMOVAL

1. Remove fender protector. Refer to EXT-26, "Removal and Installation".
2. Remove front bumper fascia and bumper side bracket. Refer to EXT-16, "Removal and Installation".
3. Remove front combination lamp. Refer to EXL-81, "Removal and Installation".
4. Remove front door corner finisher. Refer to MIR-19, "FRONT DOOR CORNER FINISHER : Removal and Installation".
5. Remove front fender cover. Refer to DLK-88, "FENDER COVER : Removal and Installation".
6. Remove front fender bolts from front fender.
7. Remove front fender stiffener (2) while carefully pulling upper portion of front fender (1) away from body.
   ⇦: Vehicle front



8. Remove front fender.
   CAUTION:

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

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Adjust the following components as necessary.**
- **Hood assembly: Refer to DLK-81, "HOOD ASSEMBLY : Adjustment".**
- **Front door: Refer to DLK-91, "DOOR ASSEMBLY : Adjustment".**
- **After adjusting, apply touch-up paint (the body color) to the head of the front fender bolts.**

FENDER COVER

FENDER COVER : Removal and Installation

INFOID:0000000007207059

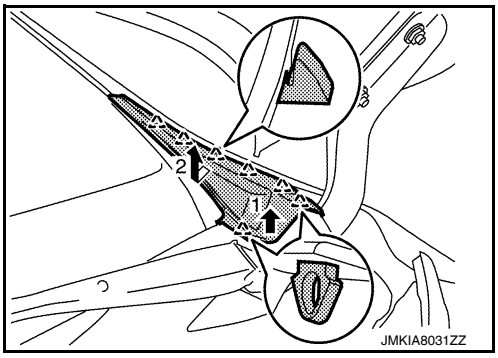
REMOVAL

1. Fully open hood assembly.
2. Disengage pawls beginning at the front of the fender cover and working toward the rear of vehicle and then remove front fender cover.

   : Pawl

   CAUTION:

   When performing the procedure after removing fender cover, protect the lower of windshield glass with urethane etc.

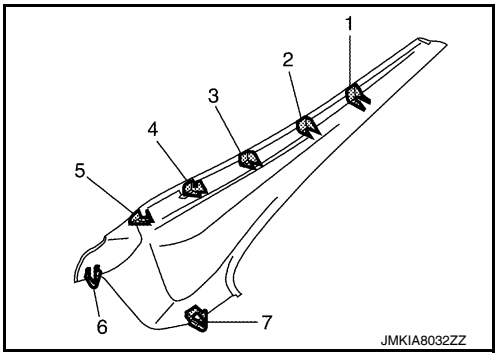


INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

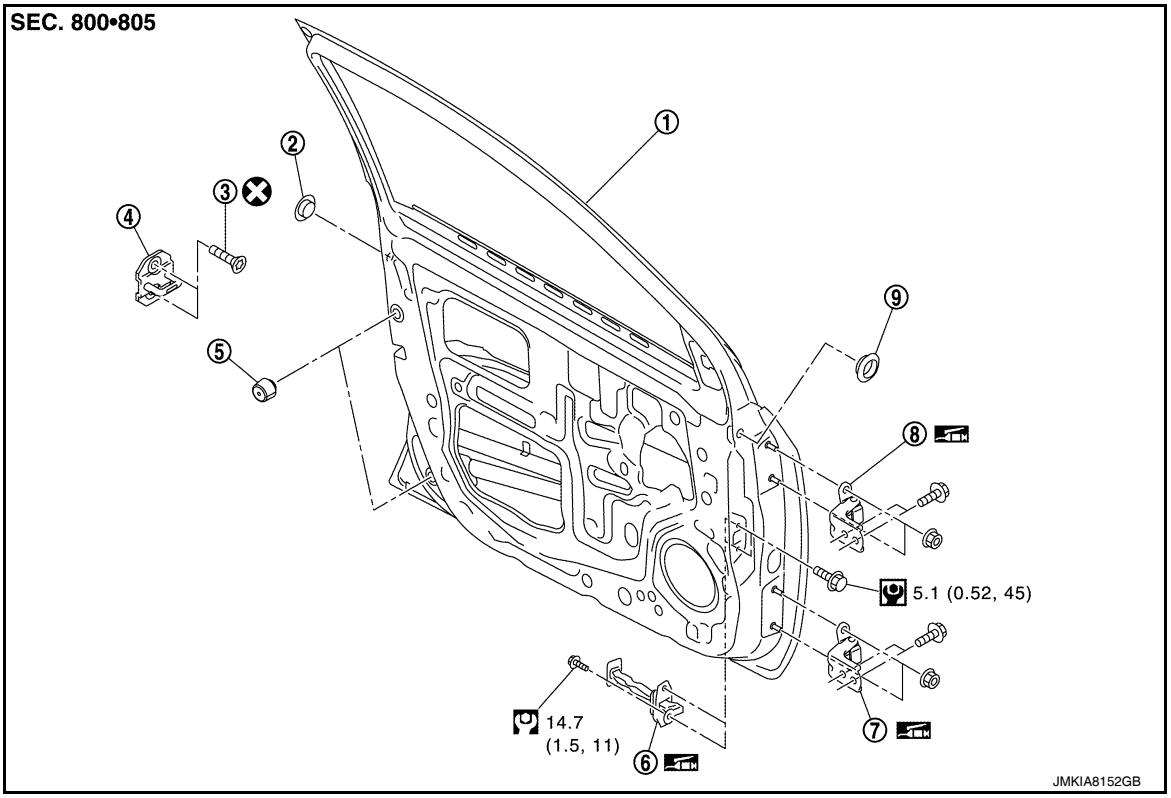
- **For installation, engage pawls to front fender and cowl top cover in numerical order as shown.**
- **Install so that there is no clearance between windshield and cowl top cover.**



FRONT DOOR

Exploded View

INFOID:0000000007207060



1. Front door assembly
2. Grommet
3. TORX bolt
4. Door striker
5. Bumper rubber
6. Door check link
7. Door hinge (lower)
8. Door hinge (upper)
9. Grommet

: Body grease

DOOR ASSEMBLY

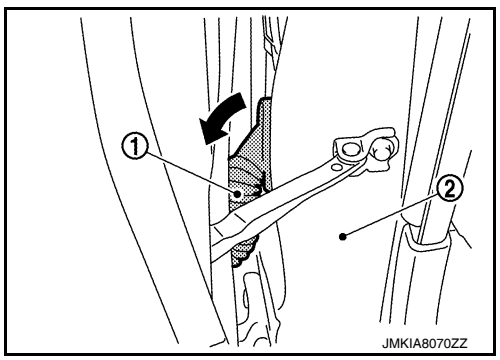
DOOR ASSEMBLY : Removal and Installation

INFOID:0000000007207061

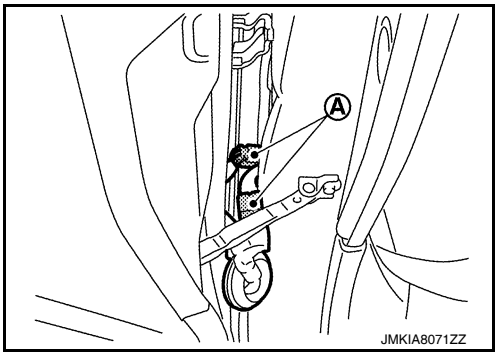
CAUTION:
- **Use two people when removing or installing front door due to its heavy weight**
- **When removing and installing front door assembly, support the door using a suitable tool.**
- **Use shop cloths to protect door and body.**

REMOVAL

1. Remove front door harness grommet (1) and then pull out the harness from the vehicle (2).



2. Disconnect front door harness connectors (A).



3. Remove door check link bolt from body.
4. Remove door hinge nuts (door side) and remove front door assembly.

INSTALLATION

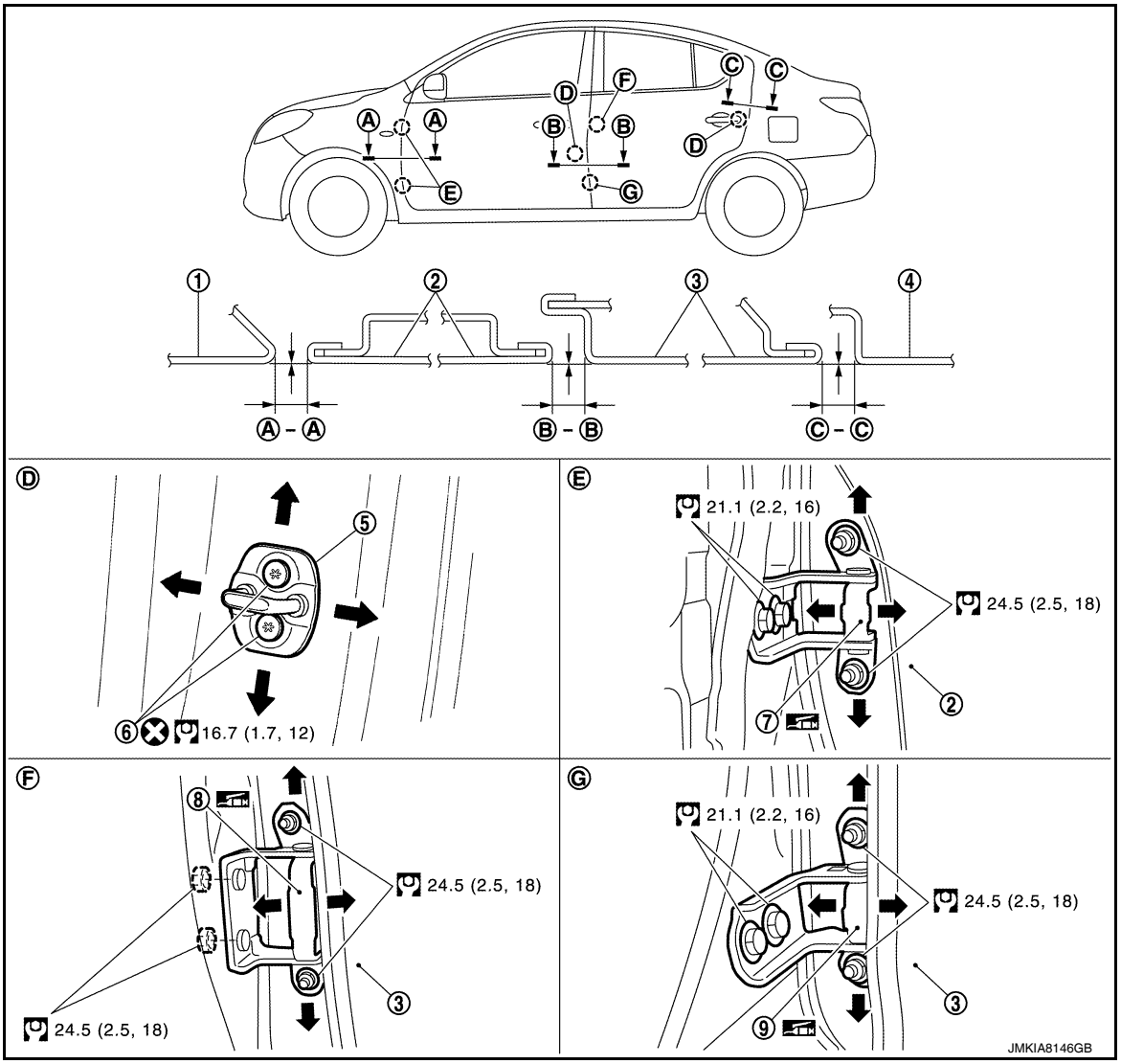
Installation is in the reverse order of removal.

CAUTION:

- **Apply anticorrosive agent onto the hinge mating surface.**
- **Check front door open/close, lock/unlock operation after installation.**
- **Check door hinge rotating point for poor lubrication. If necessary, apply body grease.**
- **Perform the front door adjustment procedure. Refer to DLK-91, "DOOR ASSEMBLY : Adjustment".**
- **After adjusting, apply touch-up paint (the body color) to the head of door hinge nuts.**

DOOR ASSEMBLY : Adjustment

INFOID:0000000007207062



1. Front fender
2. Front door
3. Rear door
4. Body side outer
5. Door striker
6. TORX bolt
7. Front door hinge
8. Rear door hinge (upper)
9. Rear door hinge (lower)

: Body grease

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Portion	Section	Measurement	Standard
Front fender – Front door	A – A	Clearance	4.6 ± 1.0 (0.18 ± 0.04)
Front fender – Front door	A – A	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
Front door – Rear door	B –	Clearance	4.6 ± 1.0 (0.18 ± 0.04)
Front door – Rear door	B –	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

ADJUSTMENT PROCEDURE

1. Remove front fender. Refer to DLK-87, "FRONT FENDER : Removal and Installation".
2. Loosen door hinge nuts on door side.

3. Adjust the surface height of front door according to the specifications provided.
4. Temporarily tighten door hinge nuts on door side.
5. Loosen door hinge bolts on body side.
6. Raise or lower the front door at rear end to adjust clearance of the front door according to the specifications provided.
7. After adjustment tighten bolts and nuts to the specified torque.
   CAUTION:
   - **Check door hinge rotating point for poor lubrication. If necessary, apply body grease.**
   - **After adjusting, apply touch-up paint (the body color) to the heads of hinge bolts and nuts.**
8. Install front fender. Refer to refer to DLK-87, "FRONT FENDER : 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:0000000007207063

REMOVAL

Remove TORX bolts and then remove front door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
- **Check front door open/close, lock/unlock operation after installation.**
- **Perform the front door adjustment procedure. Refer to DLK-91, "DOOR ASSEMBLY : Adjustment".**

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000007207064

REMOVAL

CAUTION:
- **Use two people when removing or installing front door due to its heavy weight**
- **When removing and installing front door assembly, support the door using a suitable tool.**
- **Use shop cloths to protect door and body.**

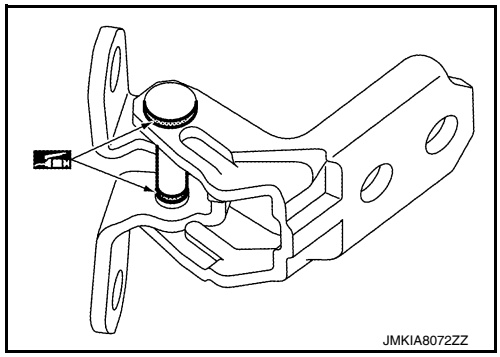
1. Remove front fender. Refer to DLK-87, "FRONT FENDER : Removal and Installation".
2. Remove front door assembly. Refer to DLK-89, "DOOR ASSEMBLY : Removal and Installation".
3. Remove front door hinge bolts (body side) and remove front door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
- **Apply anticorrosive agent onto the hinge mating surface.**
- **Perform the front door adjustment procedure. Refer to DLK-91, "DOOR ASSEMBLY : Adjustment".**
- **After adjusting, apply touch-up paint (the body color) to the head of door hinge nuts.**
- **Check door hinge rotating point for poor lubrication. If necessary, apply body grease.**

: Body grease



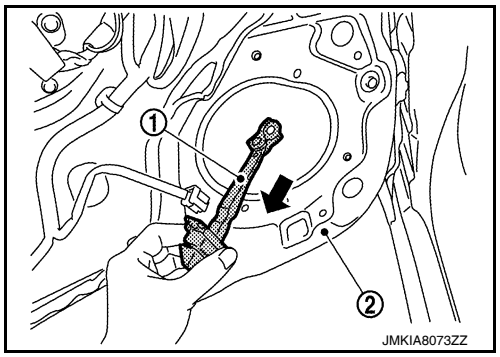
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000007207065

REMOVAL

1. Fully close the front door window.
2. Remove front door finisher. Refer to INT-15, "Removal and Installation".
3. Disconnect harness connector and remove front door speaker.
4. Remove front door speaker bolts.
5. Remove door check link bolt from body.
6. Remove door check link bolts on door panel.
7. Remove door check link (1) through the hole in door panel (2).



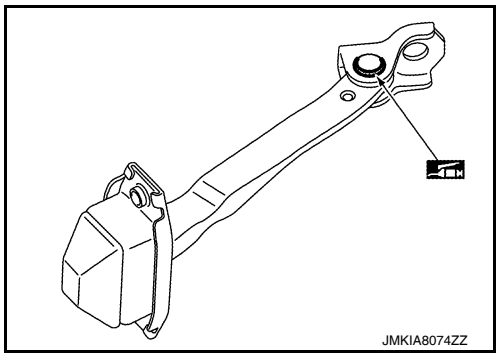
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Check rear door open/close operation after installation.**
- **Check door check link rotating point for poor lubrication. If necessary, apply grease.**

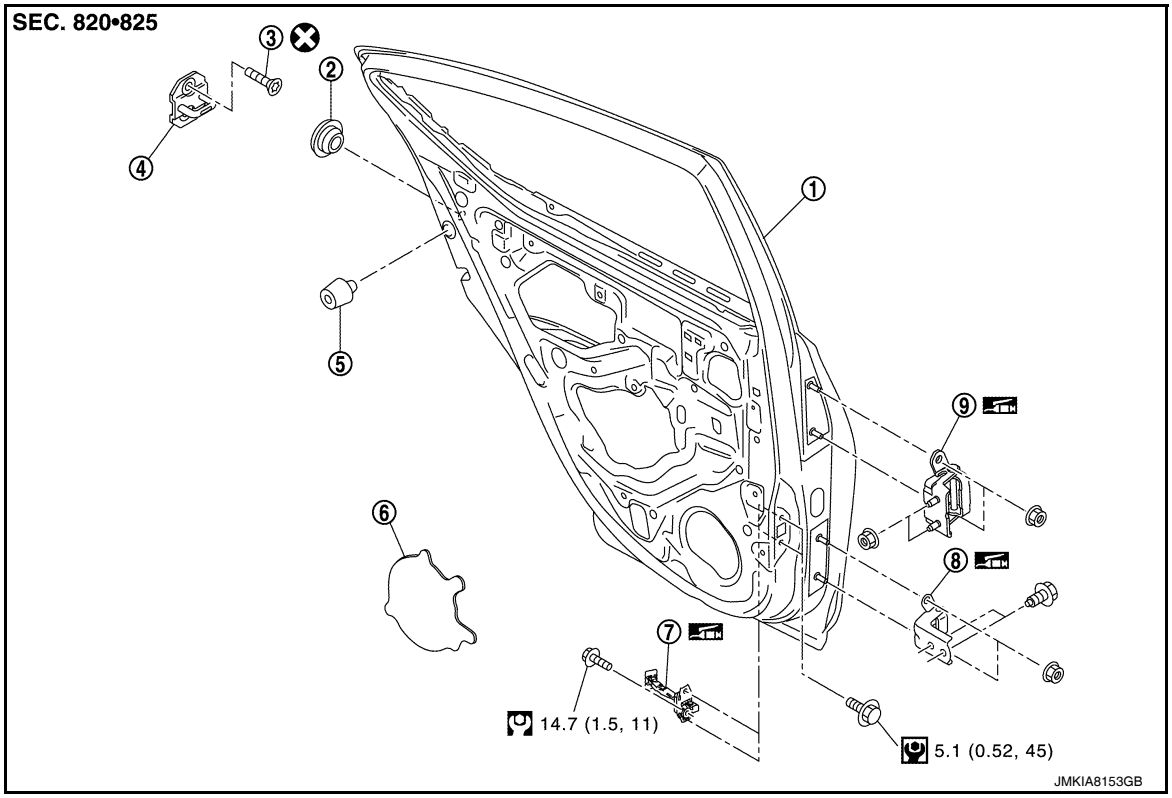
: Body grease



REAR DOOR

Exploded View

INFOID:0000000007207066



1. Rear door panel
2. Grommet
3. TORX bolt
4. Door striker
5. Bumper rubber
6. Sealing screen (lower) (without door speaker)
7. Door check link
8. Door hinge (lower)
9. Door hinge (upper)

: Body grease

DOOR ASSEMBLY

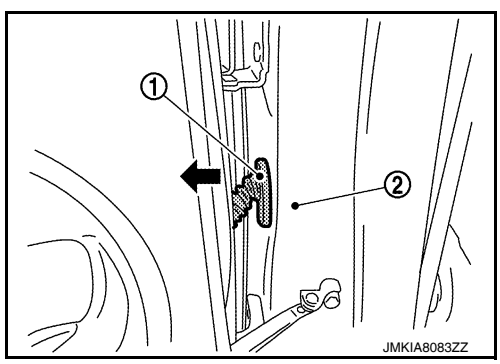
DOOR ASSEMBLY : Removal and Installation

INFOID:0000000007207067

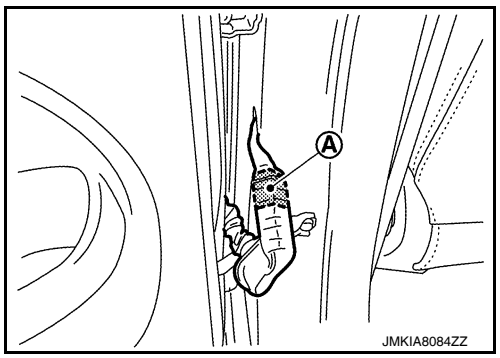
CAUTION:
- **Use two people when removing or installing rear door due to its heavy weight.**
- **When removing and installing rear door assembly, support door using a suitable tool.**
- **Use shop cloths to protect door and body.**

REMOVAL

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



2. Disconnect rear door harness connector (A).



3. Remove door check link bolts from body.
4. Remove door hinge nuts (door side) and remove rear door assembly.

INSTALLATION

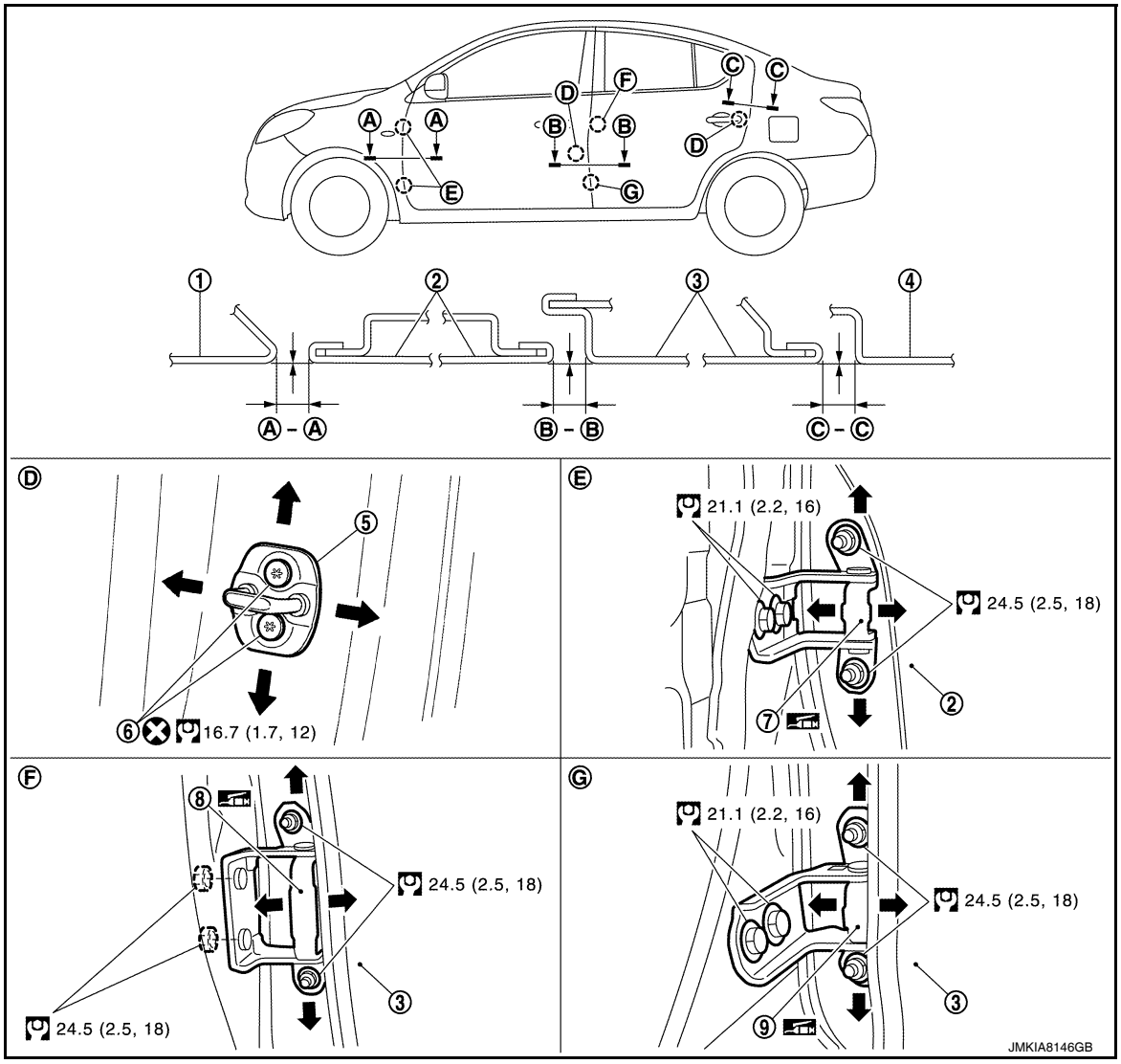
Installation is in the reverse order of removal.

CAUTION:

- **Apply anticorrosive agent onto the hinge mating surface.**
- **Check rear door open/close, lock/unlock operation after installation.**
- **Check door hinge rotating point for poor lubrication. If necessary, apply body grease.**
- **Perform the rear door adjustment procedure. Refer to DLK-96, "DOOR ASSEMBLY : Adjustment".**
- **After adjusting, apply touch-up paint (the body color) to the head of door hinge nuts.**

DOOR ASSEMBLY : Adjustment

INFOID:0000000007207068



1. Front fender
2. Front door
3. Rear door
4. Body side outer
5. Door striker
6. TORX bolt
7. Front door hinge
8. Rear door hinge (upper)
9. Rear door hinge (lower)

: Body grease

Check the clearance and surface height between rear door and each part by visually and touching.
If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Portion	Section	Measurement	Standard
Front door – Rear door	B –	Clearance	4.6 ± 1.0 (0.18 ± 0.04)
Front door – Rear door	B –	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
Rear door – Body side outer	C –	Clearance	4.6 ± 1.0 (0.18 ± 0.04)
Rear door – Body side outer	C –	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

ADJUSTMENT PROCEDURE

1. Remove center pillar lower finisher. Refer to INT-23, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
2. Loosen door hinge nuts on door side.

3. Adjust the surface height of rear door according to the specifications provided.
4. Temporarily tighten door hinge nuts on door side.
5. Loosen door hinge nuts and bolts on body side.
6. Raise rear door at rear end to adjust clearance of rear door according to the specifications provided.
7. After adjustment tighten bolts and nuts to the specified torque.
   CAUTION:
   - **Apply touch-up paint (the body color) to the head of hinge bolts and nuts.**
   - **Check door hinge rotating point for poor lubrication. If necessary, apply body grease.**
8. Install center pillar lower finisher. Refer to INT-23, "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:0000000007207069

REMOVAL

Remove TORX bolts, and then remove rear door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
- **Check rear door open/close, lock/unlock operation after installation.**
- **After installation, be sure to perform the rear door adjustment procedure. Refer to DLK-96, "DOOR ASSEMBLY : Adjustment".**

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000007207070

CAUTION:
- **Use two people when removing or installing rear door due to its heavy weight.**
- **When removing and installing rear door assembly, support door using a suitable tool.**
- **Use shop cloths to protect door and body.**

REMOVAL

1. Remove rear door assembly. Refer to DLK-94, "DOOR ASSEMBLY : Removal and Installation".
2. Remove center pillar lower finisher. Refer to INT-23, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
3. Remove rear door hinge bolts and nuts (body side) and remove rear door hinge.

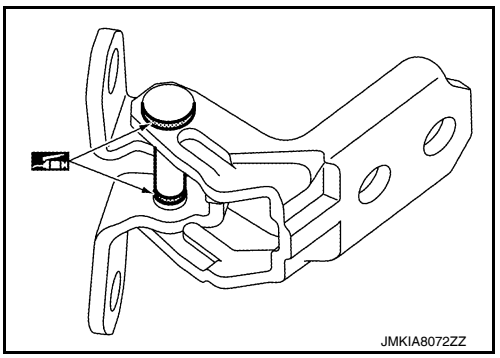
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
- **Apply anticorrosive agent onto the hinge mating surface.**
- **Check rear door open/close operation after installation.**
- **When removing and installing rear door assembly, perform the rear door adjustment procedure. Refer to DLK-96, "DOOR ASSEMBLY : Adjustment".**
- **After adjusting, apply the touch-up paint (the body color) to the head of door hinge nuts.**

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

: Body grease



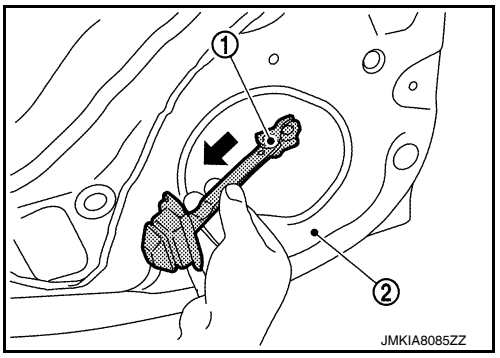
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000007207071

REMOVAL

1. Fully close the rear door window.
2. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
3. Remove rear door speaker bolts.
4. Disconnect harness connector and remove rear door speaker.
5. Remove door check link bolts from body.
6. Remove door check link bolts from door panel.
7. Remove door check link (1) through the hole in rear door panel (2).



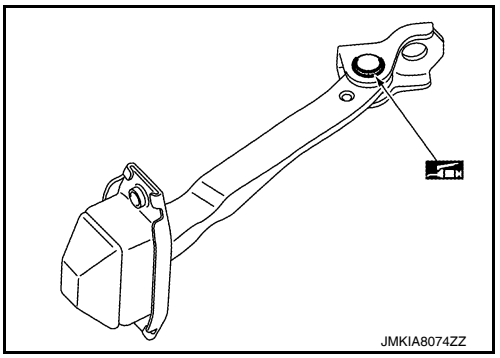
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Check rear door open/close operation after installation.**
- **Check door check link rotating point for poor lubrication. If necessary, apply grease.**

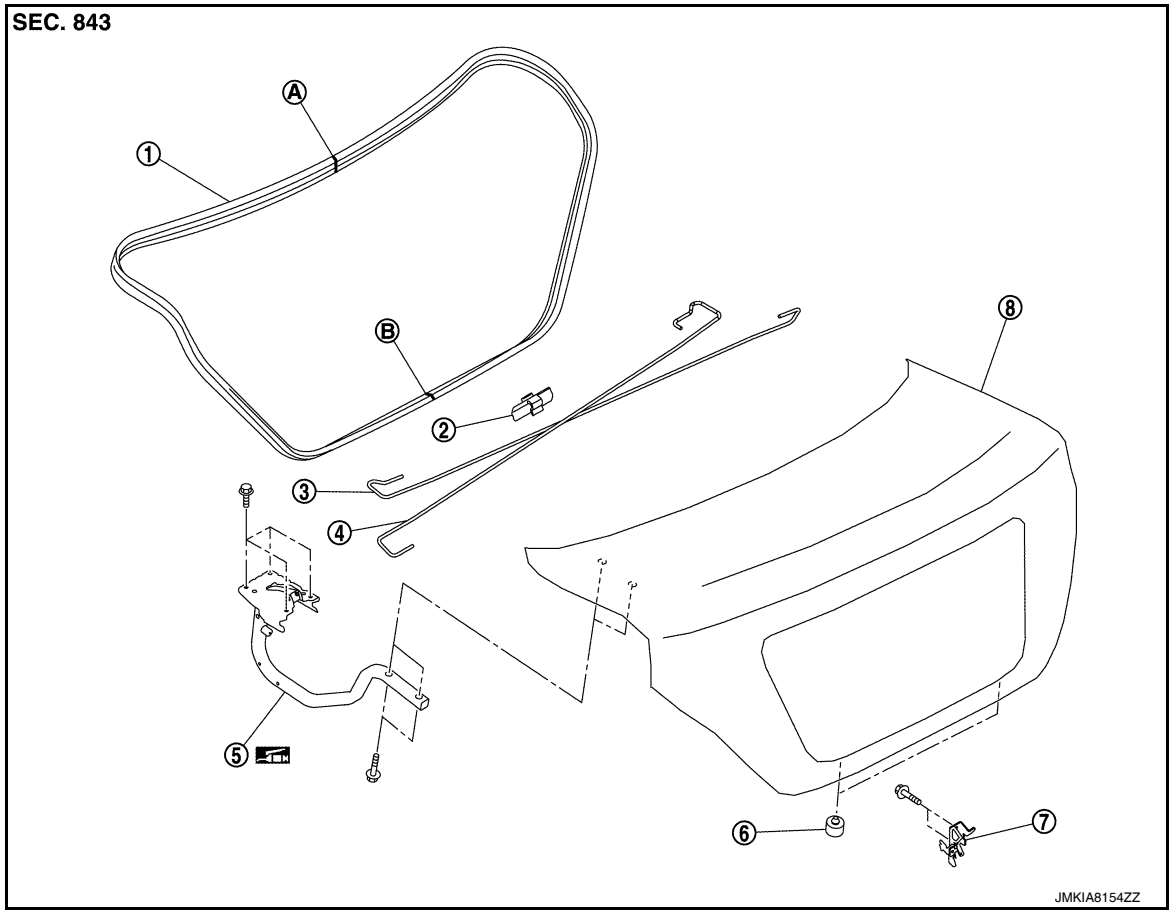
: Body grease



TRUNK LID

Exploded View

INFOID:0000000007207072



1. Trunk lid weatherstrip
2. Torsion bar clip
3. Torsion bar RH
4. Torsion bar LH
5. Trunk lid hinge
6. Bumper rubber
7. Trunk lid striker
8. Trunk lid assembly

A : Center mark

B : Seam

: Body grease

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY : Removal and Installation

INFOID:0000000007207073

REMOVAL

1. Remove trunk lid finisher. Refer to INT-34, "Removal and Installation".
2. Disconnect license plate lamp harness connector. Refer to EXL-91, "Removal and Installation".
3. Remove harness clips from trunk lid assembly, and then pull out harness from trunk lid assembly.
4. Remove the trunk lid hinge bolts on trunk lid side and remove the trunk lid assembly.
   CAUTION:
   Use two people when removing or installing trunk lid, due to its heavy weight.

INSTALLATION

Installation is in the reverse order of removal.

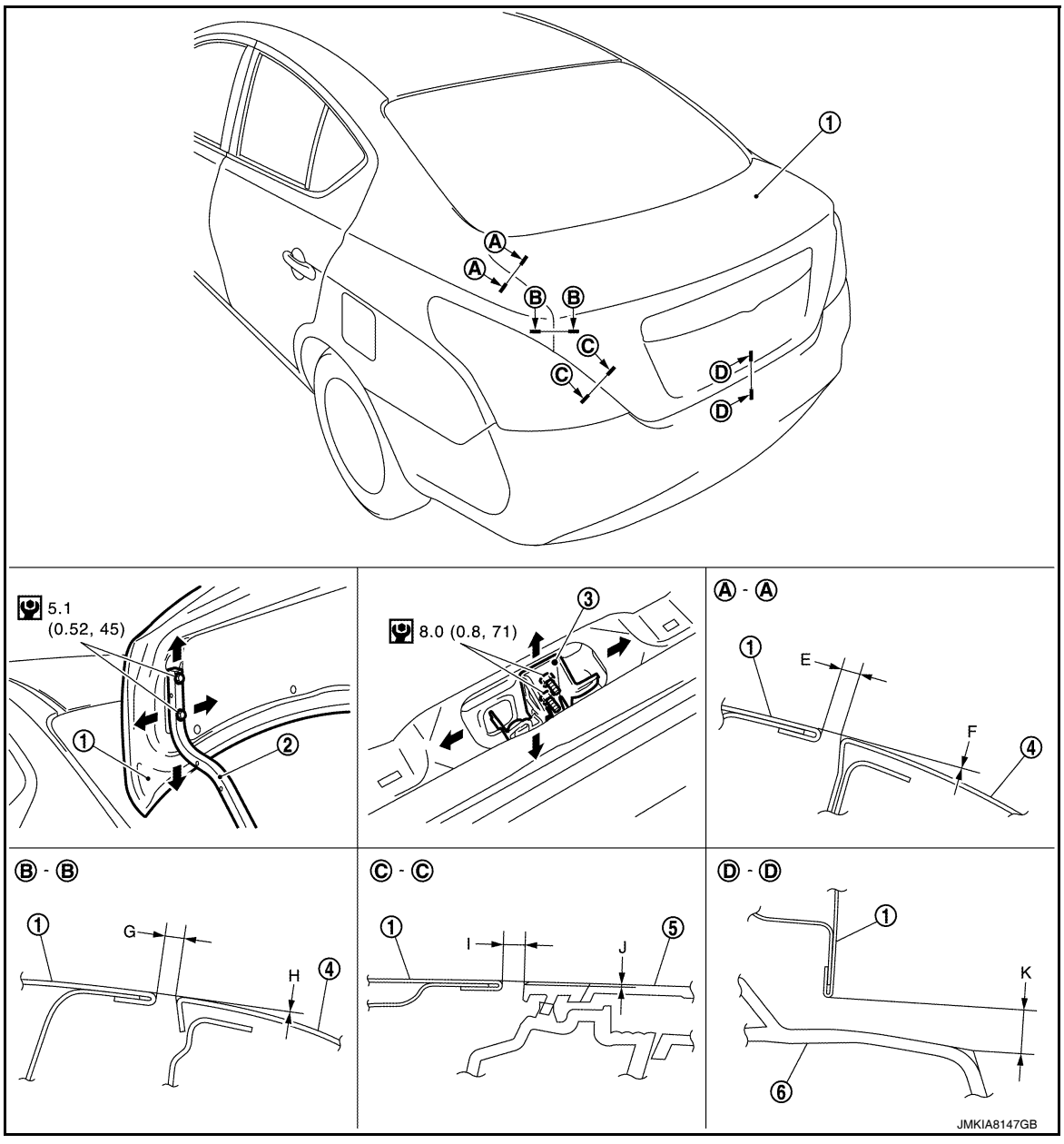
CAUTION:

- **Perform trunk lid adjustment procedure. Refer to DLK-100, "TRUNK LID ASSEMBLY : Adjustment".**

- **Check trunk lid open/close, lock/unlock operation after installation.**
- **Apply touch-up paint (the body color) to the heads of the trunk lid hinge bolts.**

TRUNK LID ASSEMBLY : Adjustment

INFOID:0000000007207074



1. Trunk lid assembly
2. Trunk lid hinge
3. Trunk lid striker
4. Body side outer
5. Rear combination lamp
6. Rear bumper fascia

Check the clearance and surface height between trunk lid and each part by visual inspection and tactile feel. If the clearance and surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Portion	Section	Item	Measurement	Standard	Difference (RH/LH, MAX)
Trunk lid – Body side outer	A – A	E	Clearance	3.5 ± 1.0 (0.14 ± 0.04)	1.5 (0.06)
Trunk lid – Body side outer	A – A	F	Surface height	0.0 ± 1.0 (0.00 ± 0.04)	1.5 (0.06)
Trunk lid – Body side outer	B – B	G	Clearance	3.5 ± 1.0 (0.14 ± 0.04)	1.5 (0.06)

Portion	Section	Item	Measurement	Standard	Difference (RH/LH, MAX)
Trunk lid – Body side outer	B – B	H	Surface height	-0.5 ± 1.0 (0.02 ± 0.04)	1.5 (0.06)
Trunk lid – Rear combination lamp	C –	I	Clearance	4.5 ± 1.9 (0.18 ± 0.07)	2.9 (0.11)
Trunk lid – Rear combination lamp	C –	J	Surface height	2.1 ± 0.75 (0.08 ± 0.03)	3.0 (0.12)
Trunk lid – Rear bumper fascia	D –	K	Clearance	7.0 ± 2.0 (0.28 ± 0.08)	2.5 (0.10)

1. Loosen trunk lid hinge bolts (trunk lid side).
2. Remove trunk rear plate. Refer to INT-31, "TRUNK REAR PLATE : Removal and Installation".
3. Loosen trunk lid striker bolts.
4. Lift up trunk lid approximately 100 – 150 mm (3.937 – 5.906 in) then close it lightly and check that it is engaged firmly with trunk lid closed.
5. Check the clearance and surface height.
6. Tighten trunk lid hinge and trunk lid striker.
7. Install trunk rear plate. Refer to INT-31, "TRUNK REAR PLATE : Removal and Installation".

TRUNK LID STRIKER ADJUSTMENT

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

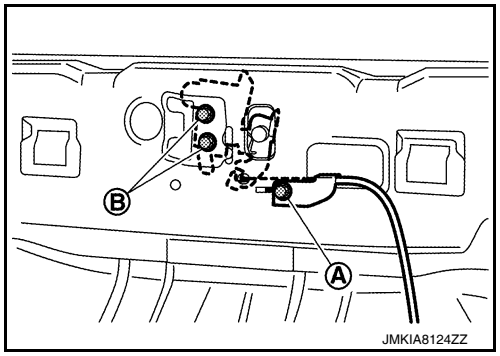
TRUNK LID STRIKER

TRUNK LID STRIKER : Removal and Installation

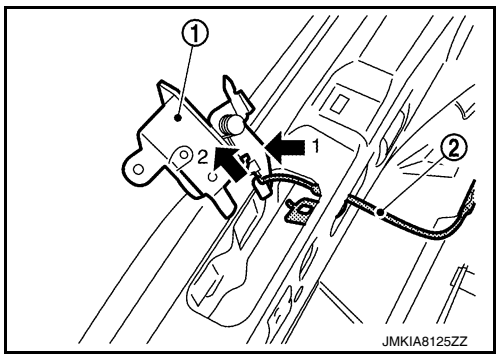
INFOID:0000000007207075

REMOVAL

1. Remove trunk rear plate. Refer to INT-31, "TRUNK REAR PLATE : Removal and Installation".
2. Remove trunk lid opener cable bolt (A) and trunk lid striker bolts (B).



3. Pull out trunk lid striker (1), disconnect trunk lid opener cable (2) from trunk lid striker and then remove trunk lid striker.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Check trunk lid open/close, lock/unlock operation after installation.**
- **When removing and installing trunk lid striker, perform the trunk lid adjustment procedure. Refer to DLK-100, "TRUNK LID ASSEMBLY : Adjustment".**

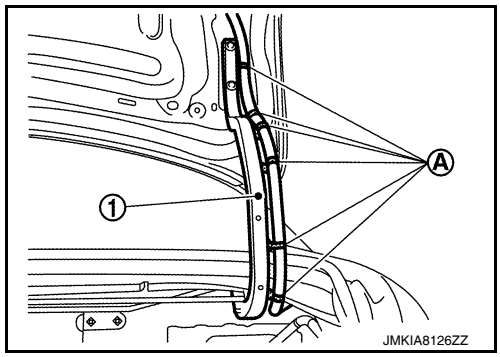
TRUNK LID HINGE

TRUNK LID HINGE : Removal and Installation

INFOID:0000000007207076

REMOVAL

1. Remove harness clips (A) from trunk lid hinge RH (1).



2. Remove trunk lid assembly. Refer to DLK-99, "TRUNK LID ASSEMBLY : Removal and Installation".
3. Remove torsion bar. Refer to DLK-102, "TORSION BAR : Removal and Installation".
4. Remove rear parcel shelf finisher. Refer to INT-25, "Removal and Installation".
5. Remove trunk lid hinge bolts (body side) and then trunk lid hinge.

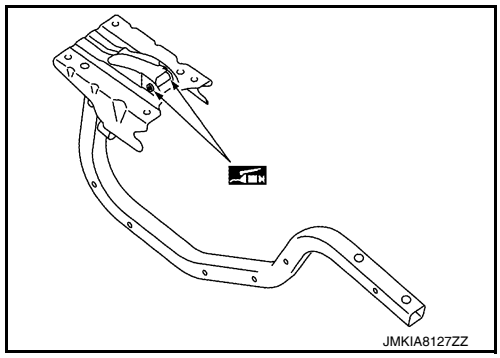
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Check trunk lid open/close, lock/unlock operation after installation.**
- **When removing and installing trunk lid assembly, perform the trunk lid adjustment procedure. Refer to DLK-100, "TRUNK LID ASSEMBLY : Adjustment".**
- **Apply touch-up paint (the body color) to the heads of trunk lid hinge bolts.**
- **Check trunk lid hinge rotating point for poor lubrication. If necessary, apply body grease.**

: Body grease



TORSION BAR

TORSION BAR : Removal and Installation

INFOID:0000000007207077

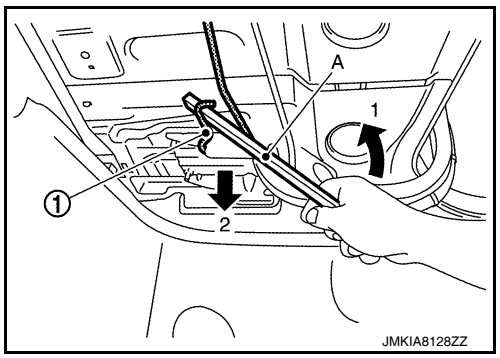
REMOVAL

1. Remove torsion bar clamp.
2. Support trunk lid with a suitable tool.

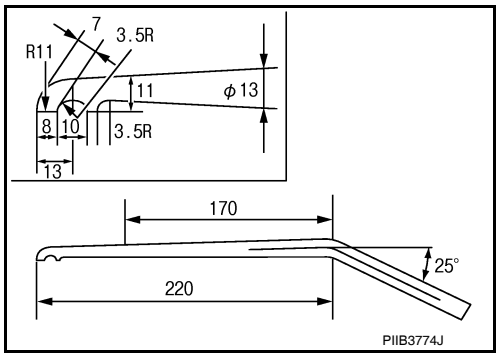
WARNING:

Bodily injury may occur if trunk lid is not supported properly when removing the torsion bars.

3. Apply a torsion bar wrench (A) to torsion bar (1) and lift torsion bar to remove it.



NOTE:
For torsion bar wrench, refer to the figure.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Check trunk lid open/close operation after installation.

TRUNK LID WEATHER-STRIP

TRUNK LID WEATHER-STRIP : Removal and Installation

INFOID:0000000007207078

REMOVAL

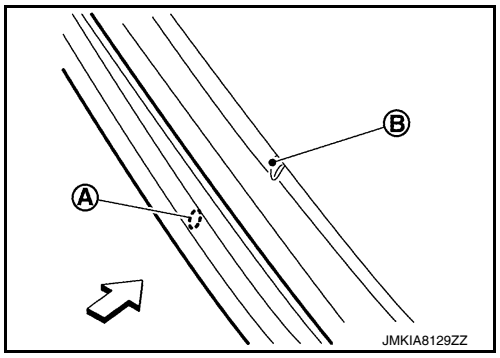
Remove trunk lid weatherstrip from the trunk lid opening.

CAUTION:

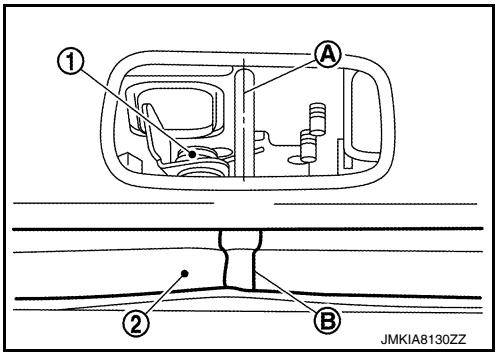
Do not pull excessively on weatherstrip.

INSTALLATION

1. Working from the upper section, align weatherstrip center mark (A) with vehicle center mark (B) and install weatherstrip onto the vehicle.
   ⇦: Vehicle front



2. Align the connecting point (B) of weatherstrip (2) to the center (A) of striker (1) and install as shown.

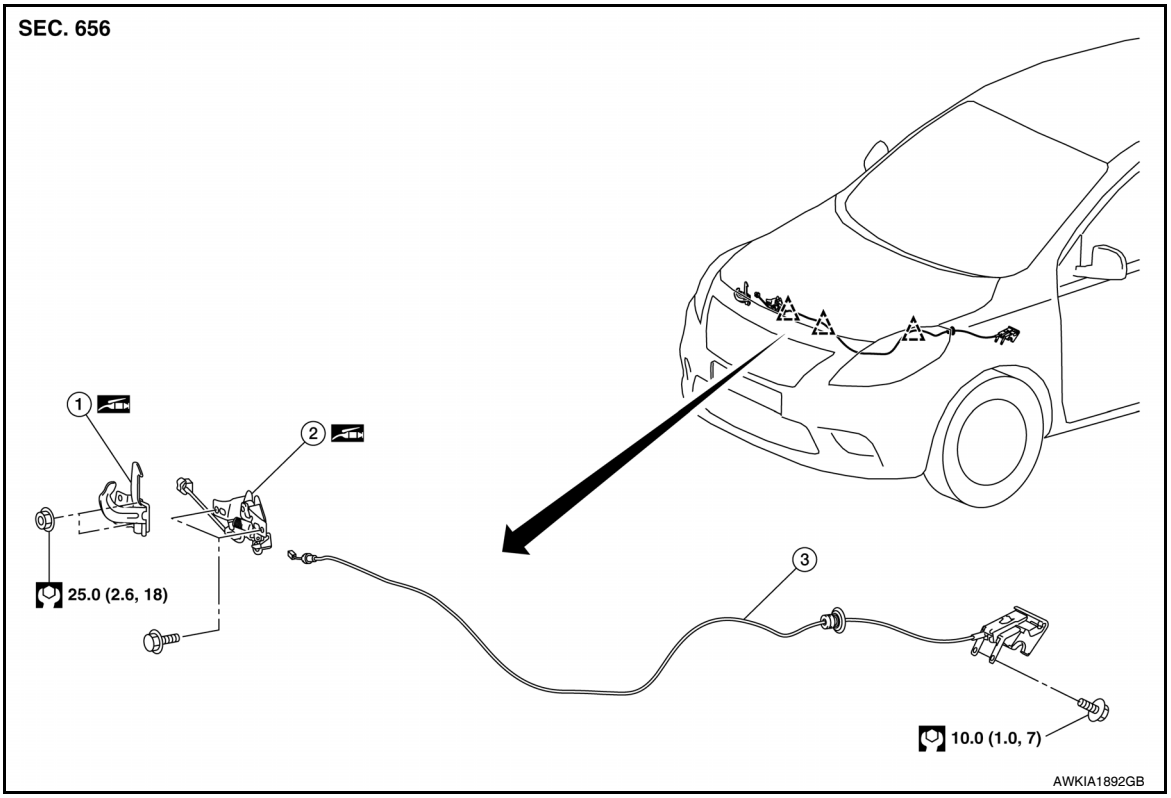


3. Make sure entire weatherstrip is firmly seated.
   NOTE:
   Check that weatherstrip fits tightly all around the opening, especially in each corner and along the luggage rear plate.

HOOD LOCK

Exploded View

INFOID:0000000007207079



1. Hood lock bell crank
2. Hood lock assembly
3. Hood lock control cable assembly
- Clip
- : Body grease

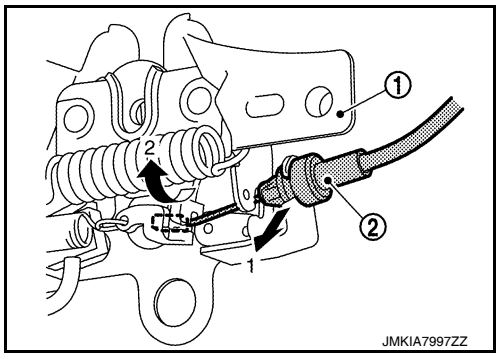
HOOD LOCK

HOOD LOCK : Removal and Installation

INFOID:0000000007207080

REMOVAL

1. Remove hood lock assembly bolts and hood lock assembly.
2. Disconnect hood lock control cable assembly (2) from hood lock assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Be careful not to bend the cable too much, keep the radius 100 mm (3.94 in) or more.**
- **Check that hood lock control cable is properly engaged with hood lock.**
- **Perform hood adjustment procedure. Refer to DLK-81, "HOOD ASSEMBLY : Adjustment".**

- **After adjusting, perform hood lock control inspection. Refer to DLK-107, "Inspection".**

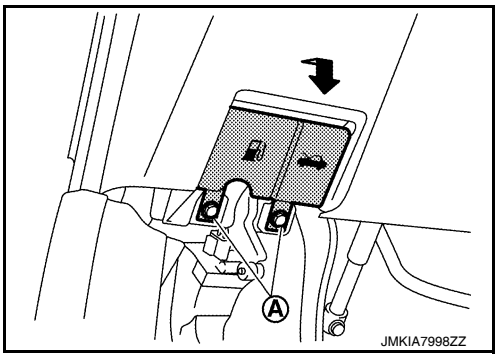
HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Removal and Installation

INFOID:0000000007207081

REMOVAL

1. Disconnect hood lock control cable assembly from hood lock assembly. Refer to DLK-105, "HOOD LOCK : Removal and Installation".
2. Remove fender protector (LH). Refer to EXT-26, "Removal and Installation".
3. Release hood lock control cable clips.
4. Remove hood and fuel filler handle assembly bolts (A).
5. Disconnect hood lock control cable assembly from hood and fuel filler handle assembly.



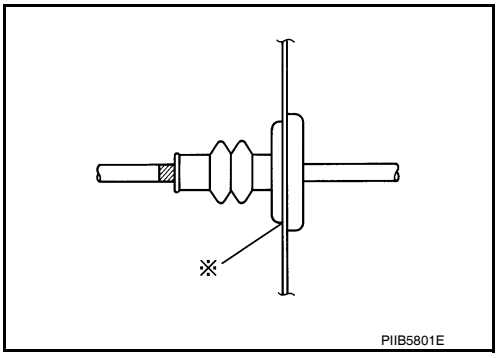
6. Remove dash side finisher (LH). Refer to INT-21, "DASH SIDE FINISHER : Removal and Installation"
7. Remove grommet on the lower dash and pull the hood lock control cable into the passenger compartment.
   CAUTION:
   While pulling, be careful not to damage (peel) the outside of the hood lock control cable.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Be careful not to bend cable too much, keep the radius 100 mm (3.94 in) or more.**
- **Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at * mark).**



- **Check that hood lock control cable is properly engaged with hood lock.**
- **Perform hood adjustment procedure. Refer to DLK-81, "HOOD ASSEMBLY : Adjustment".**
- **After installation, perform hood lock inspection. Refer to DLK-107, "Inspection".**

HOOD LOCK BELL CRANK

HOOD LOCK BELL CRANK : Removal and Installation

INFOID:0000000007207082

REMOVAL

1. Remove radiator upper seal clips and then remove upper clip from radiator side seal (RH). Refer to DLK-84, "Exploded View".
2. Remove hood lock bell crank assembly nuts and hood lock bell crank assembly.

INSTALLATION

Installation is in the reverse order of removal.

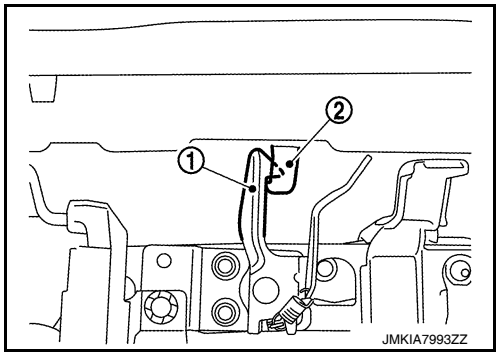
CAUTION:
Perform hood lock control inspection. Refer to DLK-107, "Inspection".

Inspection

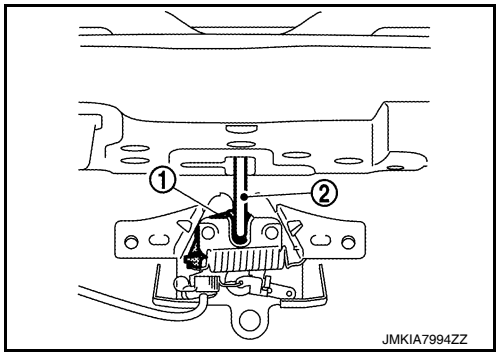
INFOID:0000000007207083

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

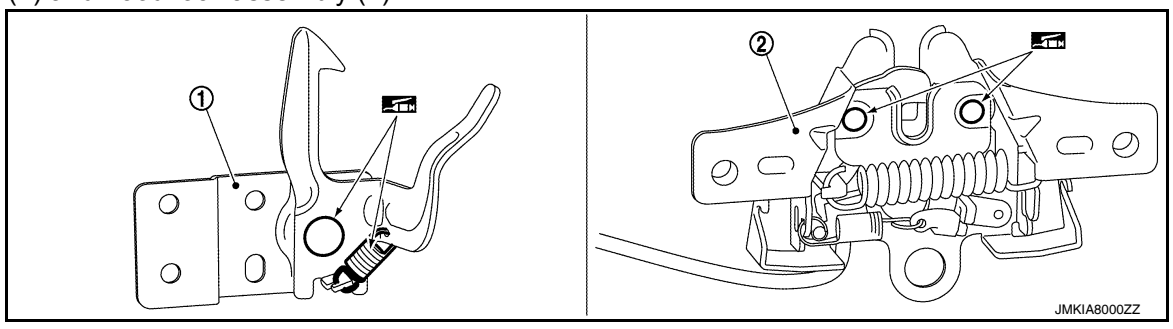
1. Check that secondary latch (1) is properly engaged with secondary striker (2) with hoods own weight.



2. Check that primary latch (1) is securely engaged with primary striker (2) when hood assembly is closed [free-fall from approximately 200 mm (7.874 in) height].



3. While operating the hood handle assembly, carefully check that the front end of hood is raised by approximately 20.0 mm (0.79 in). Also check that hood handle assembly returns to the original position.
4. Check that hood handle assembly operates at 49 N (5.0 kg, 11.0 lb) or below.
5. Install so that static closing force of the hood is 300 – 490 N (31.0 – 50.0 kg-m, 221 – 361 ft-lb).
   NOTE:
   • Do not exert vertical force on right side and left side of hood lock.
   • Never press simultaneously both sides.
6. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock bell crank assembly (1) and hood lock assembly (2).

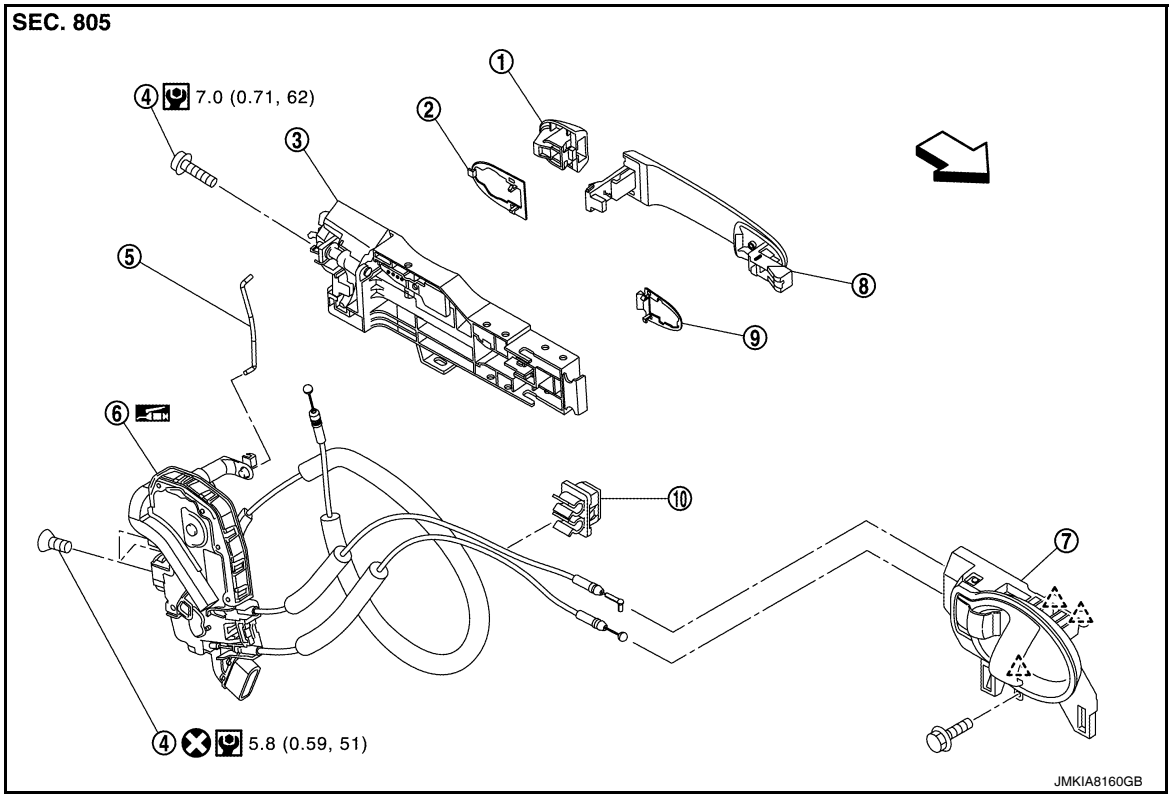


: Body grease

FRONT DOOR LOCK

Exploded View

INFOID:0000000007207084



1. Door key cylinder assembly (driver side) Outside handle escutcheon (passenger side)	2. Rear gasket	3. Outside handle bracket
4. TORX bolt	5. Key rod (driver side)	6. Door lock assembly
7. Inside handle	8. Outside handle	9. Front gasket
10. Clip	: Pawl	: Vehicle front

: Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000007207085

REMOVAL

1. Remove inside handle. Refer to DLK-109, "INSIDE HANDLE : Removal and Installation".
2. Remove outside handle. Refer to DLK-110, "OUTSIDE HANDLE : Removal and Installation".
3. Disconnect door lock actuator harness connector (if equipped).
4. Remove front door lower sash (rear). Refer to GW-21, "Exploded View".
5. Remove door lock assembly TORX bolts and door lock assembly.

INSTALLATION

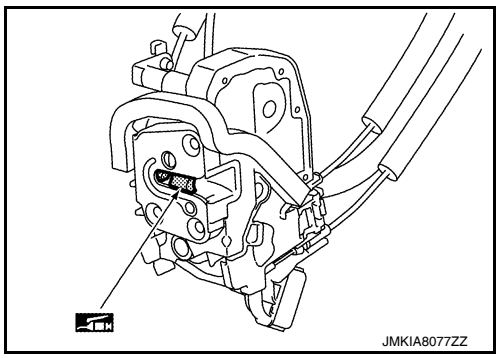
Installation is in the reverse order of removal.

CAUTION:

- **Do not 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.**

: Body grease



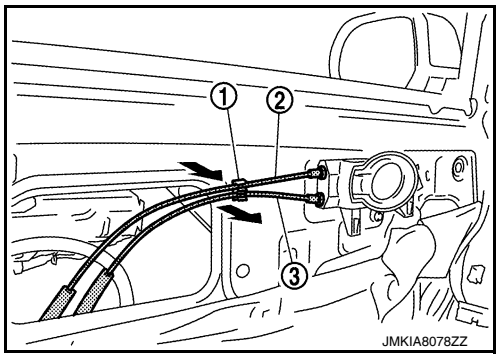
INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

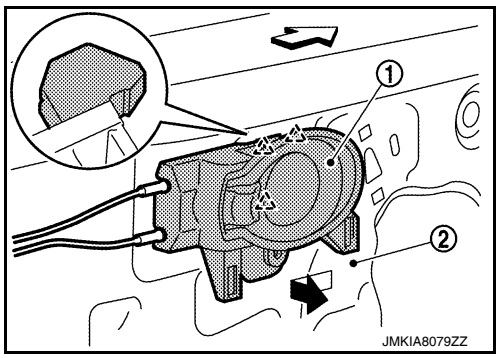
INFOID:0000000007207086

REMOVAL

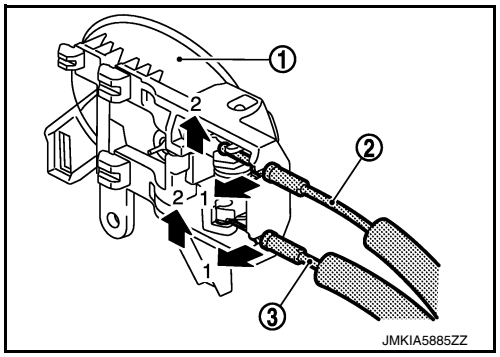
1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
2. Remove upper side of sealing screen.
   NOTE:
   Cut the butyl tape so that some parts of the butyl tape remain on the sealing screen, if the sealing screen is reused.
3. Disengage lock knob cable (2) and inside handle cable (3) from clip (1).



4. Remove inside handle bolt.
5. Disengage inside handle (1) from door panel (2) by sliding toward vehicle rear and separating.
   - : Pawl
   - : Vehicle front



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



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

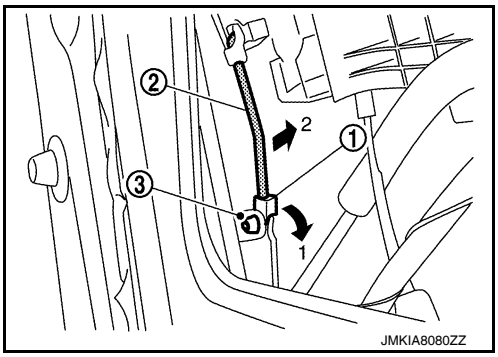
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

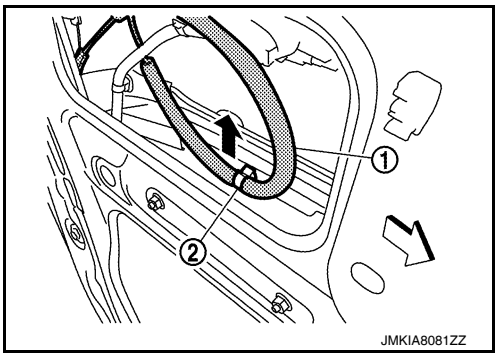
INFOID:0000000007207087

REMOVAL

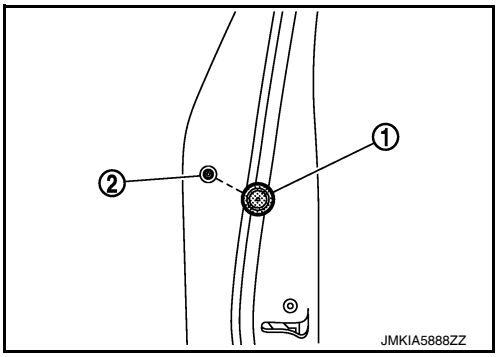
1. Fully close the front door glass.
2. Remove front door finisher. Refer to INT-15, "Removal and Installation".
3. Remove sealing screen.
   NOTE:
   Cut the butyl tape so that some parts of the butyl tape remain on the sealing screen, if the sealing screen is reused.
4. For drivers side only, open rod holder (1) by pulling downward and separate key rod (3) from door lock assembly (2).



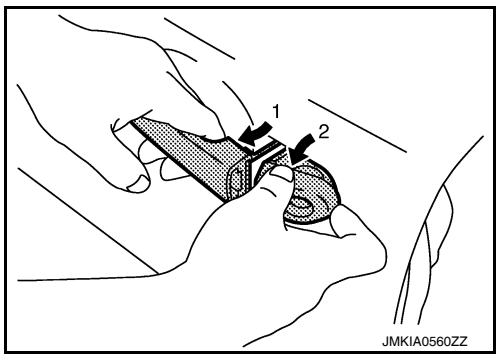
5. Disengage outside handle cable (1) from cable clip (2).
   ⇦: Vehicle front



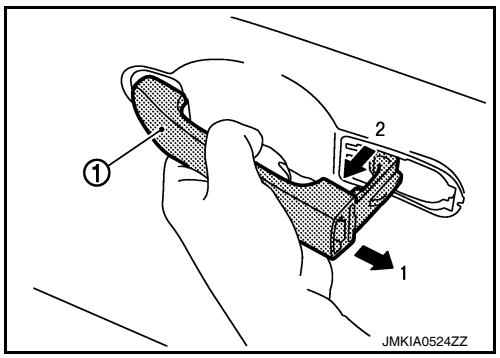
6. Remove door side grommet (1), and loosen TORX bolt from grommet hole (2).



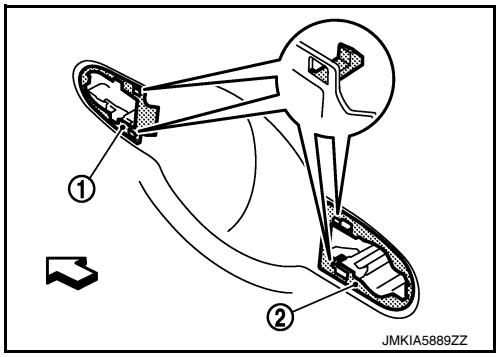
7. While pulling outside handle, remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).



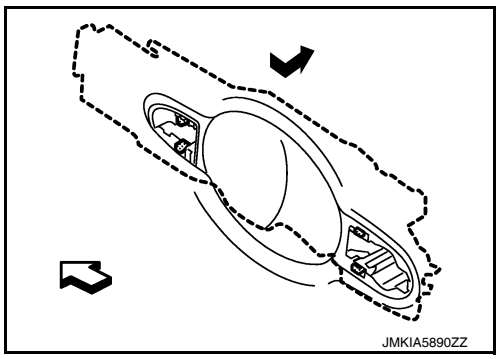
8. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



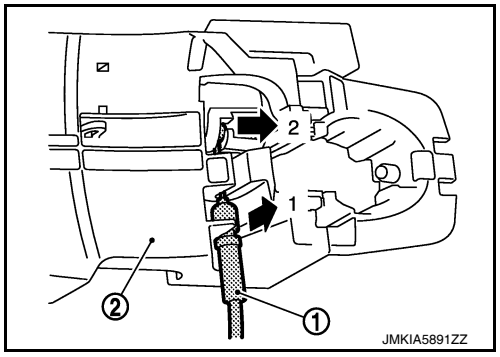
9. Remove front gasket (1) and rear gasket (2).
⇦: Vehicle front



10. Slide outside handle bracket toward rear of vehicle to remove.
⇦: Vehicle front



11. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

Installation is in the reverse order of removal.

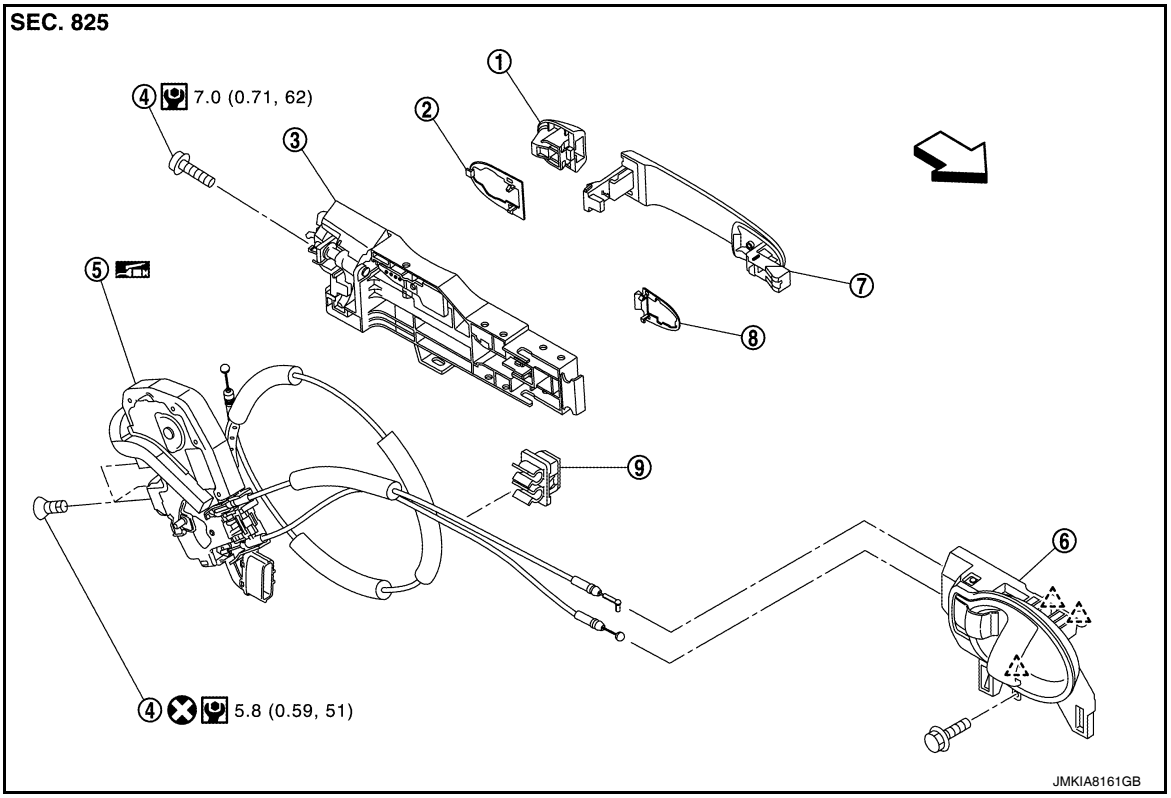
CAUTION:

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

REAR DOOR LOCK

Exploded View

INFOID:0000000007207088



1. Outside handle escutcheon
2. Rear gasket
3. Outside handle bracket
4. TORX bolt
5. Door lock assembly
6. Inside handle
7. Outside handle
8. Front gasket
9. Clip
- Pawl
- Vehicle front
- Body grease

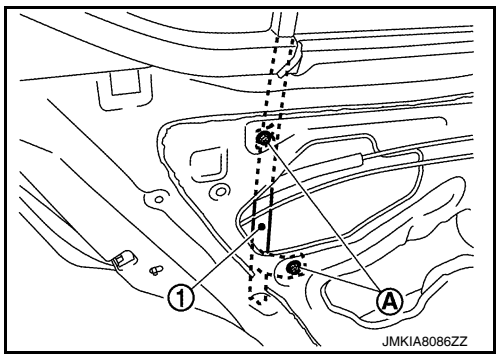
DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000007207089

REMOVAL

1. Remove inside handle. Refer to DLK-114, "INSIDE HANDLE : Removal and Installation".
2. Remove outside handle. Refer to DLK-115, "OUTSIDE HANDLE : Removal and Installation".
3. Remove bolt (A) from the partition sash (1).



4. Disconnect door lock actuator harness connector (if equipped).
5. Remove door lock assembly TORX bolts and door lock assembly

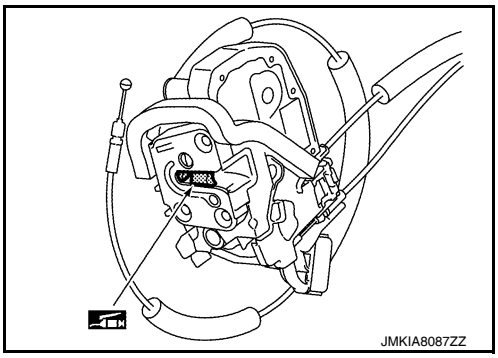
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Do not 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.**

: Body grease



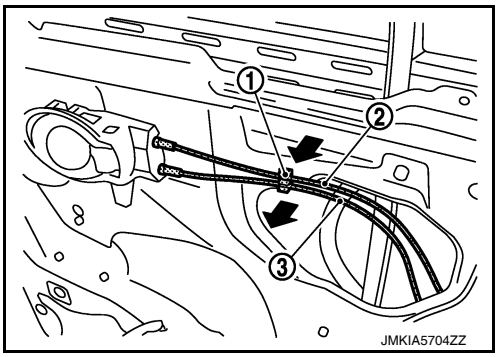
INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

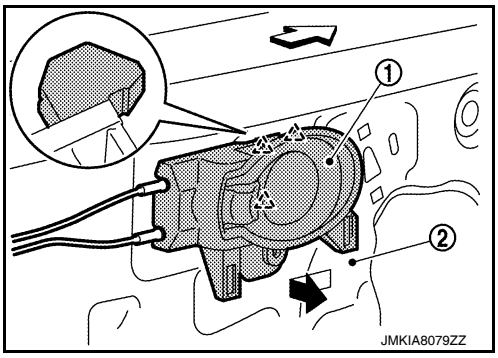
INFOID:0000000007207090

REMOVAL

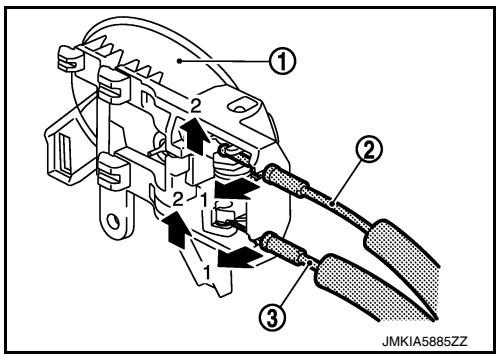
1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
2. Remove upper side of sealing screen.
   NOTE:
   Cut the butyl tape so that some parts of the butyl tape remain on the sealing screen, if the sealing screen is reused.
3. Disengage lock knob cable (2) and inside handle cable (3) from cable clip (1).



4. Remove inside handle bolt.
5. Disengage inside handle (1) from door panel (2) by sliding toward vehicle rear and then separating.
   - : Pawl
   - : Vehicle front



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



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

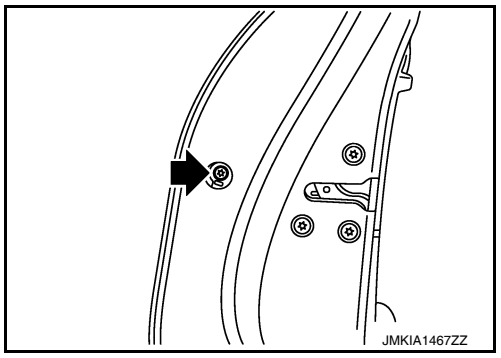
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

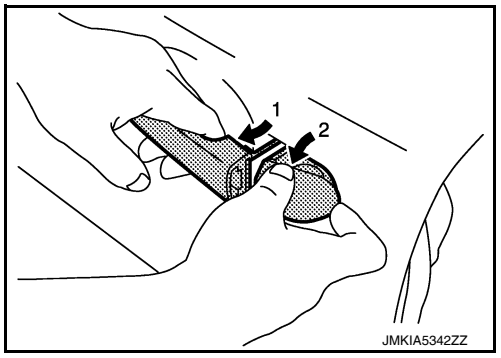
INFOID:0000000007207091

REMOVAL

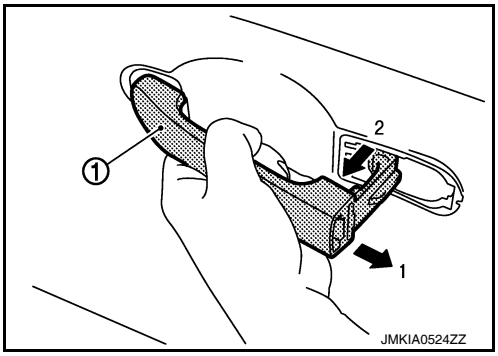
1. Fully close rear door glass.
2. Remove rear door finisher. Refer to INT-17, "Removal and Installation".
3. Remove sealing screen.
   NOTE:
   Cut the butyl tape so that some parts of the butyl tape remain on the sealing screen, if the sealing screen is reused.
4. Remove door side grommet, and loosen TORX bolt from grommet hole.



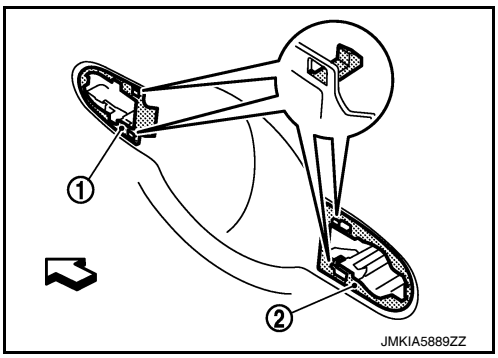
5. While pulling outside handle, remove outside handle escutcheon.



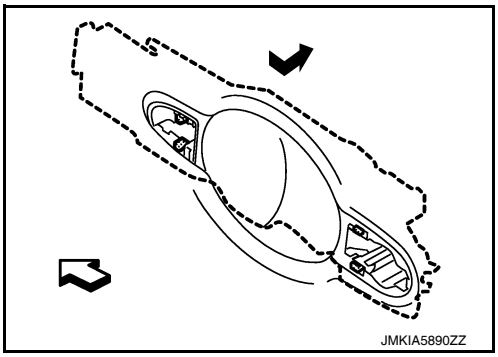
6. Pull outside handle (1) rearward and outward to remove.



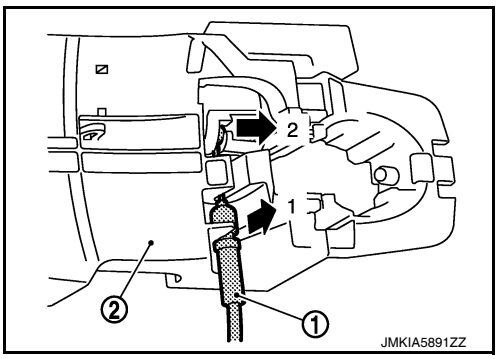
7. Remove front gasket (1) and rear gasket (2).
   ⇦: Vehicle front



8. Slide outside handle bracket toward rear of vehicle to remove.
   ⇦: Vehicle front



9. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

Installation is in the reverse order of removal.

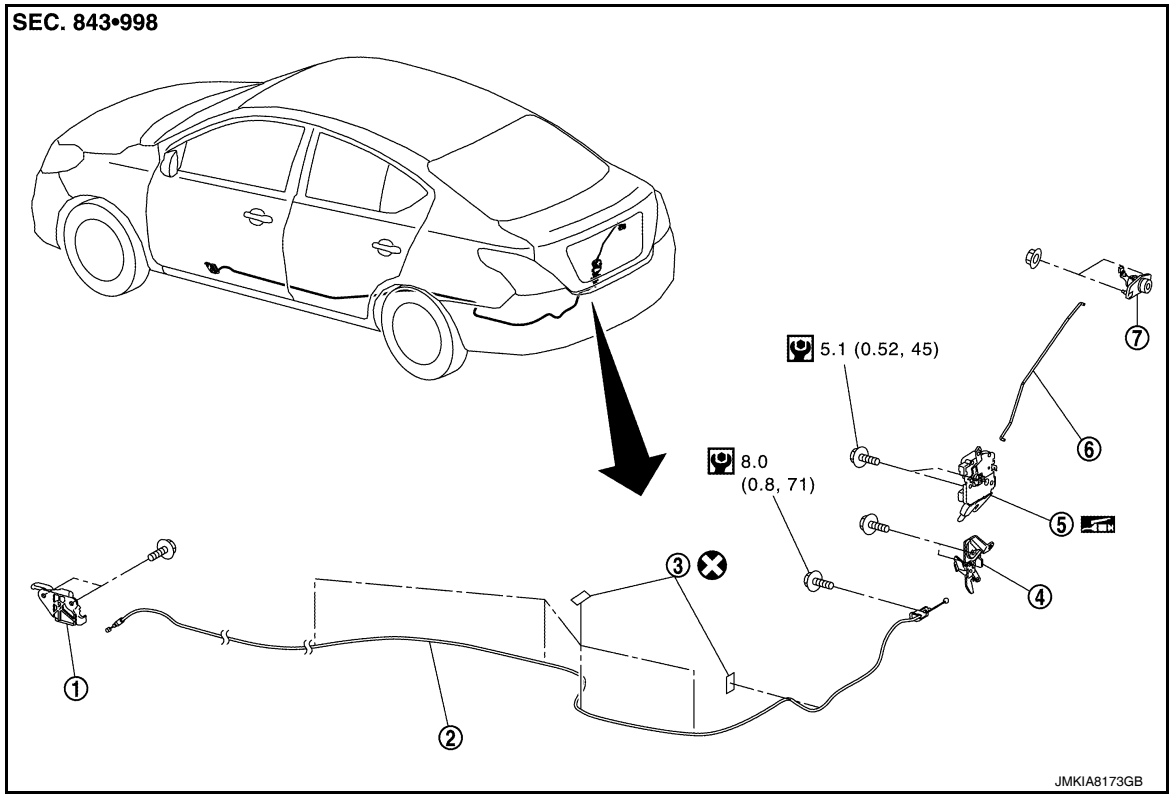
CAUTION:

- **Check door open/close, lock/unlock operation after installation.**
- **Check door lock cable is properly engaged with outside handle bracket.**

TRUNK LID LOCK

Exploded View

INFOID:0000000007207092



1. Trunk lid opener handle
2. Trunk lid opener cable
3. Cable protector
4. Trunk lid striker
5. Trunk lid lock assembly
6. Key rod
7. Trunk key cylinder

: Body grease

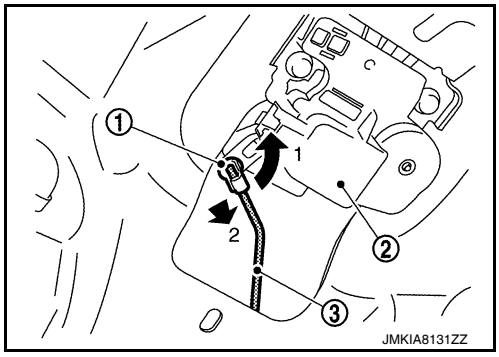
TRUNK LID LOCK

TRUNK LID LOCK : Removal and Installation

INFOID:0000000007207093

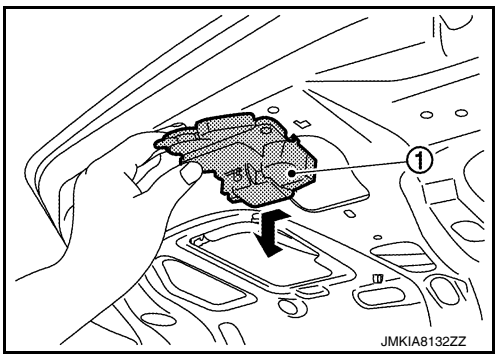
REMOVAL

1. Remove trunk lid finisher. Refer to INT-34, "Removal and Installation".
2. Disengage rod holder (1) by lifting upward, and then separate trunk lid lock rod (3) from trunk lid lock assembly (2).



3. Remove trunk lid lock assembly bolts.

4. Disconnect connector and then remove trunk lid lock assembly (1).



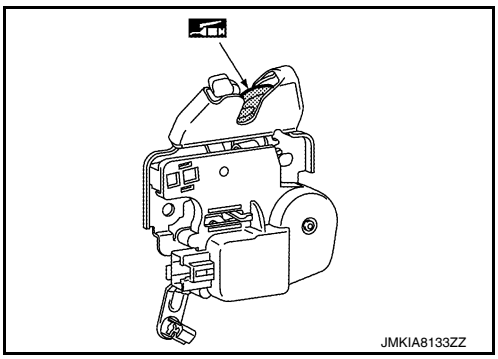
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Check trunk lid open/close, lock/unlock operation after installation.**
- **Check trunk lid lock assembly for poor lubrication. Apply body grease to trunk lid lock if necessary.**

: Body grease



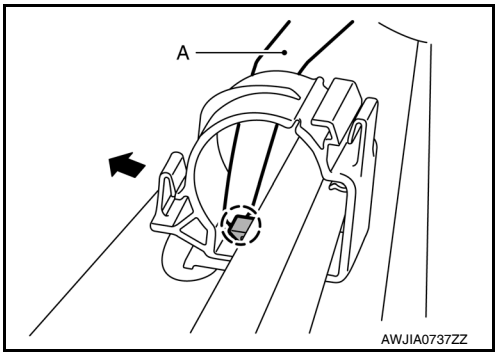
TRUNK LID OPENER HANDLE

TRUNK LID OPENER HANDLE : Removal and Installation

INFOID:0000000007207094

REMOVAL

1. Remove front kicking plate (LH). Refer to INT-20, "KICKING PLATE INNER : Removal and Installation".
2. Disengage pawl with a suitable tool (A) and open the harness clip.
   : Pawl



3. Position floor carpet aside as necessary to access the trunk lid opener handle bolts.
4. Remove the trunk lid opener handle bolts.
5. Remove trunk lid opener cable from trunk lid opener handle.

INSTALLATION

Installation is in the reverse order of removal.

TRUNK LID OPENER CABLE

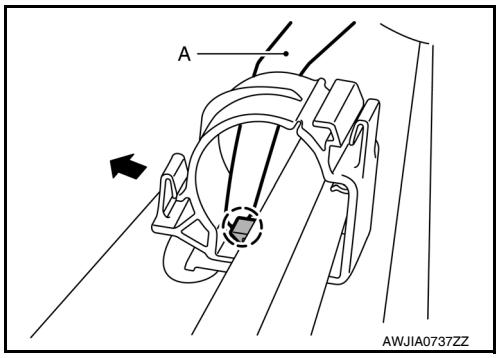
TRUNK LID OPENER CABLE : Removal and Installation

INFOID:0000000007207095

REMOVAL

1. Remove trunk lid striker. Refer to DLK-101, "TRUNK LID STRIKER : Removal and Installation".
2. Remove trunk side finisher (LH). Refer to INT-32, "TRUNK SIDE FINISHER : Removal and Installation".

3. Remove rear seat cushion. Refer to SE-22, "Removal and Installation - Seat Cushion".
4. Remove center pillar lower finisher (LH). Refer to INT-23, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
5. Remove trunk lid opener handle. Refer to DLK-118, "TRUNK LID OPENER HANDLE : Removal and Installation".
6. Disengage pawl with a suitable tool (A) and open the harness clip.
   ◌: Pawl



7. Remove trunk lid opener cable.
   CAUTION:
   Use care not to damage the trunk lid opener cable when removing.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When removing and installing trunk lid striker, perform the trunk lid adjustment procedure. Refer to DLK-100, "TRUNK LID ASSEMBLY : Adjustment".

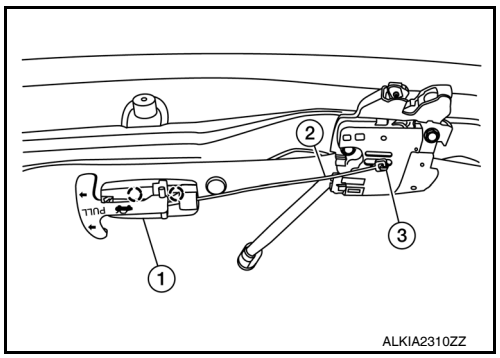
EMERGENCY LEVER

EMERGENCY LEVER : Removal and Installation

INFOID:0000000007758052

Removal

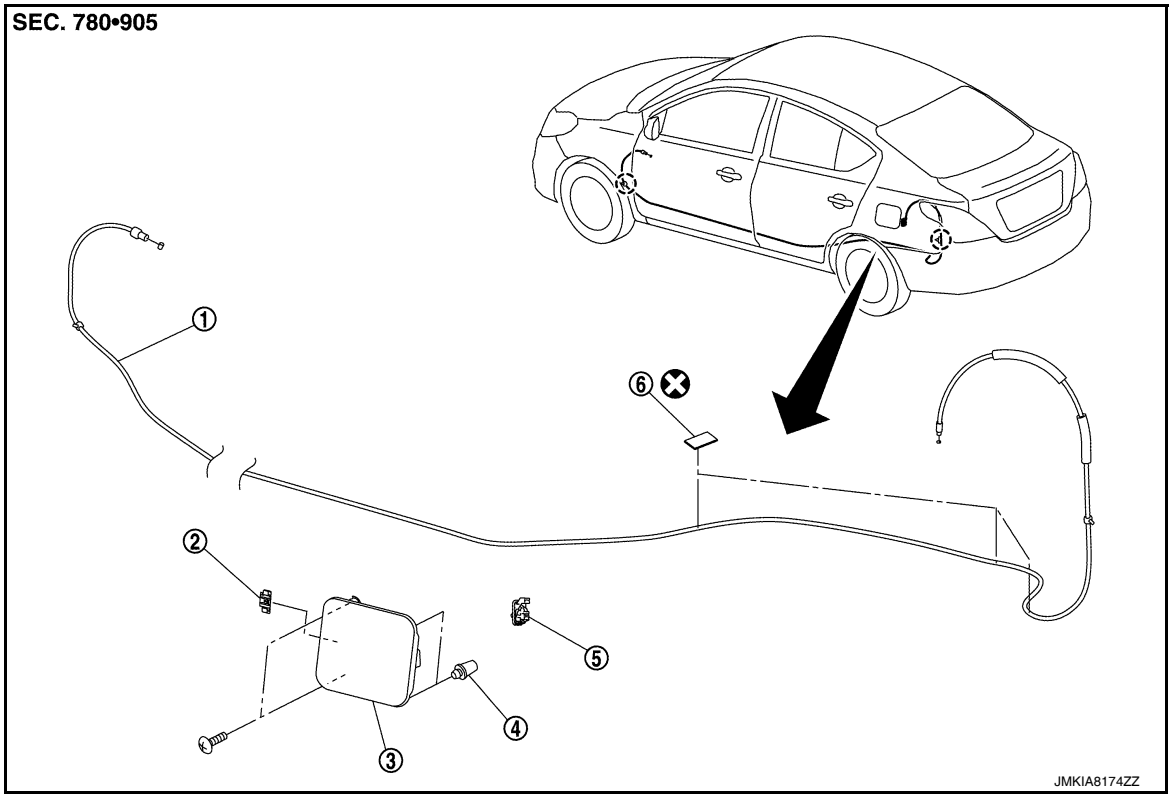
1. Release the pawls using a suitable tool and remove emergency release handle (1) from trunk lid assembly.
   ◌: Pawl
2. Disconnect emergency release handle cable (2) from trunk lid lock assembly (3).



FUEL FILLER LID OPENER

Exploded View

INFOID:0000000007207097



1. Fuel filler lid opener cable
2. Spring
3. Fuel filler lid assembly
4. Bumper rubber
5. Fuel filler lid lock assembly
6. Cable protector

Clip

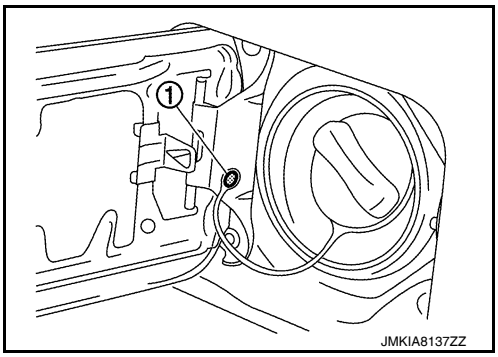
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:0000000007207098

REMOVAL

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



3. Remove fuel filler lid screws and fuel filler lid.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

NOTE:
- The following table shows the specifications for a correctly installed fuel filler lid.
- Fitting adjustment cannot be performed.

Unit: mm (in)

Portion	Measurement	Standard
Fuel filler lid – Body side outer	Clearance	3.0 ± 1.0 (0.12 ± 0.04)
Fuel filler lid – Body side outer	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

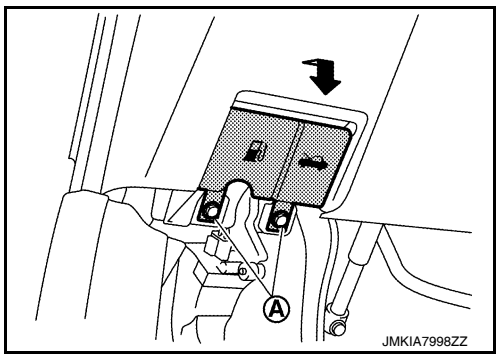
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

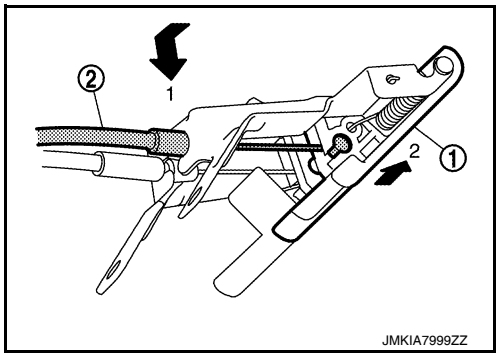
INFOID:0000000007207099

REMOVAL

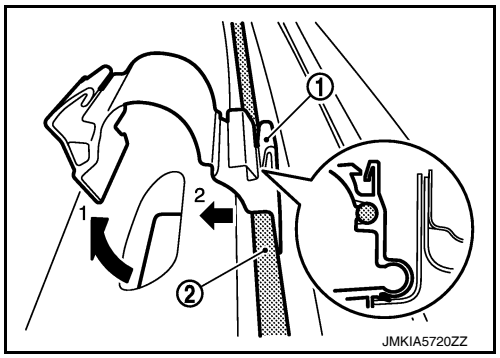
1. Remove hood and fuel filler handle assembly bolts (A).



2. Disconnect fuel filler lid opener cable (2) by pulling downward and then sliding cable end to the side to remove from hood and fuel filler handle assembly (1).



3. Remove dash side finisher (LH). Refer to INT-21, "DASH SIDE FINISHER : Removal and Installation".
4. Remove center pillar lower finisher (LH). Refer to INT-23, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
5. Remove trunk side finisher (LH). Refer to INT-32, "TRUNK SIDE FINISHER : Removal and Installation".
6. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to DLK-122, "FUEL FILLER LID LOCK : Removal and Installation".
7. Disengage each harness protector (1), and then remove fuel filler lid opener cable (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

NOTE:

- The following table shows the specifications for a correctly installed fuel filler lid.
- Fitting adjustment cannot be performed.

Unit: mm (in)

Portion	Measurement	Standard
Fuel filler lid – Body side outer	Clearance	3.0 ± 1.0 (0.12 ± 0.04)
Fuel filler lid – Body side outer	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

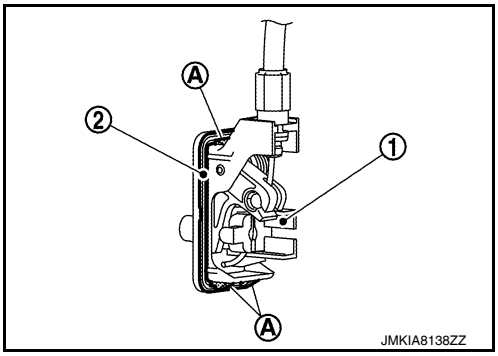
FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

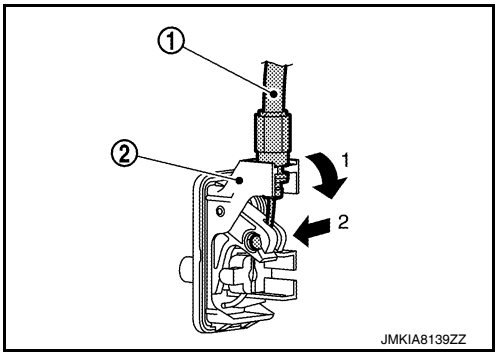
INFOID:0000000007207100

REMOVAL

1. Fully open fuel filler lid.
2. Remove trunk side finisher (LH). Refer to INT-32, "TRUNK SIDE FINISHER : Removal and Installation".
3. Release pawls (A) and remove fuel filler lid lock assembly (1) from opening.
   CAUTION:
   Be careful not to damage gasket (2) when removing.



4. Disconnect fuel filler lid opener cable (1) by pulling downward and then sliding cable end to the side to remove from fuel filler lid lock assembly (2).



INSTALLATION

Installation is in the reverse order of removal.

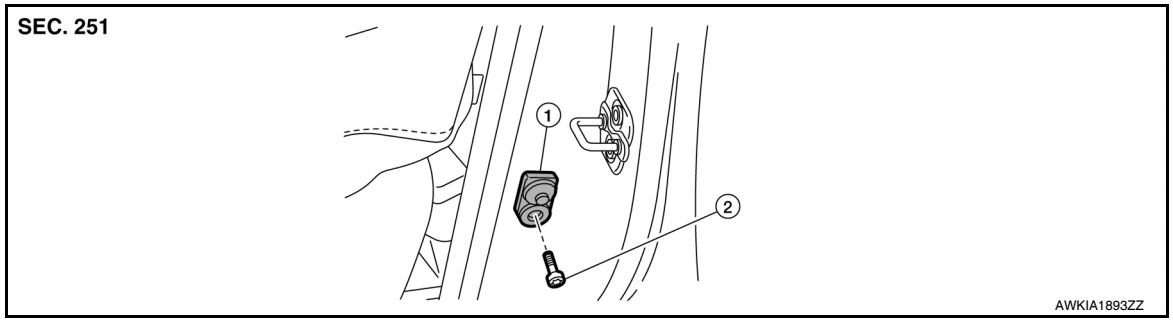
CAUTION:

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

DOOR SWITCH

Exploded View

INFOID:0000000007207101



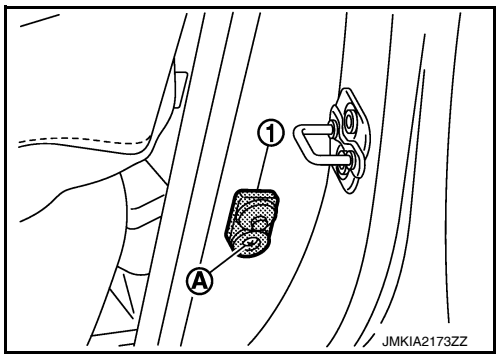
1. Door switch
2. TORX bolt

Removal and Installation

INFOID:0000000007207102

REMOVAL

1. Remove the door switch TORX bolt (A).
2. Disconnect the door switch harness connector and remove door switch (1).



INSTALLATION

Installation is in the reverse order of removal.

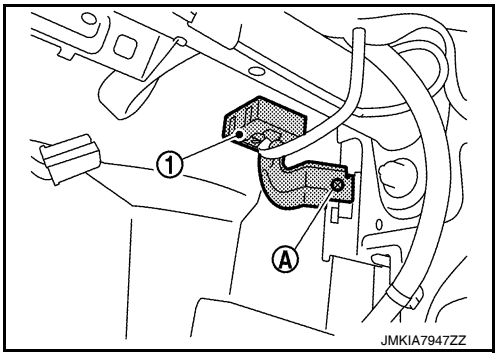
REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:0000000007207103

REMOVAL

1. Remove the glove box. Refer to IP-22, "Removal and Installation".
2. Remove the remote keyless entry receiver bolt (A).
3. Disconnect remote keyless entry receiver harness connector and remove remote keyless entry receiver (1)



INSTALLATION

Installation is in the reverse order of removal.

KEYFOB BATTERY

Removal and Installation

INFOID:0000000007207104

REPLACEMENT

1. Remove screw from the rear of keyfob.
2. Place the key with the lower case facing up. Use a suitable tool wrapped with tape between upper case and lower case and separate the lower case from the upper case.
   CAUTION:
   - **Do not touch the circuit board or battery terminal. Doing so could cause the keyfob to malfunction**
   - **The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.**
3. When replacing the circuit board assembly, remove circuit board assembly from the upper case.
   [Circuit board assembly: Switch rubber + Board surface]
   CAUTION:
   Do not touch the printed circuits directly.
4. Remove the battery from the lower case 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 and tighten with the screw.
   CAUTION:
   After replacing the battery, Be sure to check that door locking operates normally using the keyfob.
   Refer to DLK-62, "Component Function Check".