# BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY

	SECTION EXTERIOR
CONT	ENTS
PRECAUTION2	FENDER PROTECTOR21
PRECAUTIONS       2         Precaution for Technicians Using Medical Electric2         Point to Be Checked Before Starting Maintenance         Work       2         Precaution for Supplemental Restraint System         (SRS) "AIR BAG" and "SEAT BELT PRE-TEN-SIONER"         SIONER"       2         Precautions for Removing Battery Terminal         3         Precaution for Work       4	FENDER PROTECTOR       21         FENDER PROTECTOR : Exploded View       21         FENDER PROTECTOR : Removal and Installa-       21         floor Side FAIRING       23         FRONT UNDER COVER       23         FRONT UNDER COVER : Exploded View       23         FRONT UNDER COVER : Exploded View       23         FRONT UNDER COVER : Removal and Installa-       23         FRONT UNDER COVER : Removal and Installa-       23
PREPARATION5	REAR DIFFUSER23
PREPARATION       5         Special Service Tools       5         Commercial Service Tools       5         SYMPTOM DIAGNOSIS       6	REAR DIFFUSER : Exploded View       23         REAR DIFFUSER : Removal and Installation       24         ROOF SIDE MOLDING       25         Exploded View       25
SQUEAK AND RATTLE TROUBLE DIAG-         NOSES       6         Work Flow       6         Inspection Procedure       8         Diagnostic Worksheet       10         REMOVAL AND INSTALLATION       12	Removal and Installation
FRONT BUMPER    12      Exploded View    12      Removal and Installation    13	DOOR PARTING SEAL
REAR BUMPER       16         Exploded View       16         Removal and Installation       17	REAR SPOILER
COWL TOP19 Exploded View	REAR FENDER COVER

А

В

С

D

Е

F

Н

J

EXT

L

Μ

Ν

Ο

< PRECAUTION >

# PRECAUTION PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:000000007632431

### OPERATION PROHIBITION

#### WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

#### NORMAL CHARGE PRECAUTION

#### WARNING:

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by on board charger at normal charge operation may
  effect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not enter the vehicle compartment
  (including luggage room) during normal charge operation.

#### PRECAUTION AT TELEMATICS SYSTEM OPERATION

#### WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

#### PRECAUTION AT INTELLIGENT KEY SYSTEM OPERATION

#### WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of Intelligent Key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of Intelligent Key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before Intelligent Key use.

Point to Be Checked Before Starting Maintenance Work

INFOID:000000007632432

The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work. NOTE:

If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS

# PRECAUTIONS

### < PRECAUTION >

system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### WARNING:

Always observe the following items for preventing accidental activation.

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

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

#### WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the power switch ON, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the power switch OFF, disconnect the 12V battery, and wait at least 3 minutes before performing any service.

## Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the power switch and wait at least 5 minutes.
 NOTE:

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

- Always disconnect the battery terminal within 60 minutes after turning OFF the power switch. Even when the power switch is OFF, the 12V battery automatic charge control may automatically start after a lapse of 60 minutes from power switch OFF.
- Disconnect 12V battery terminal according to the following steps.

#### WORK PROCEDURE

1. Check that EVSE is not connected.

#### NOTE:

If EVSE is connected, the air conditioning system may be automatically activated by the timer A/C function.

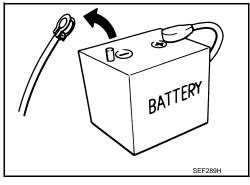
- 2. Turn the power switch OFF  $\rightarrow$  ON  $\rightarrow$  OFF. Get out of the vehicle. Close all doors (including back door).
- 3. Check that the charge status indicator lamp does not blink and wait for 5 minutes or more. **NOTE:**

If the battery is removed within 5 minutes after the power switch is turned OFF, plural DTCs may be detected.

- 4. Remove 12V battery terminal within 60 minutes after turning the power switch OFF  $\rightarrow$  ON  $\rightarrow$  OFF. CAUTION:
  - After all doors (including back door) are closed, if a door (including back door) is opened before battery terminals are disconnected, start over from Step 1.
  - After turning the power switch OFF, if "Remote A/C" is activated by user operation, stop the air conditioner and start over from Step 1.

NOTE:

Once the power switch is turned ON  $\rightarrow$  OFF, the 12V battery automatic charge control does not start for approximately 1 hour.



M

Ν

А

В

D

Е

F

Н

INFOID:000000007632434

# PRECAUTIONS

### < PRECAUTION >

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

#### NOTE:

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

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

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

## Precaution for Procedure without Cowl Top Cover

INFOID:000000007632435

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:000000007632436

PIIB3706J

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

 $\langle \mathcal{A} \rangle$ 

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

## PREPARATION

< PREPARATION >

# PREPARATION PREPARATION

# Special Service Tools

INFOID:000000007632437

А

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

	Tool number ent-Moore No.) Tool name	Description	(
(J-39570) Chassis ear	SIIA0993E	Locates the noise	E
(J-43980) NISSAN Squeak and Rat- tle Kit	SilA0994E	Repairs the cause of noise	ŀ

# Commercial Service Tools

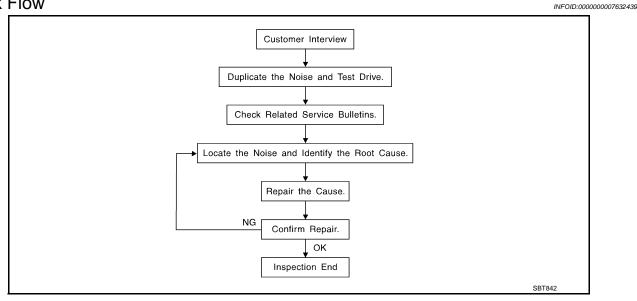
INFOID:000000007632438

Engine ear Locates the noise	EXT
B M m	Μ
Remover tool Removes clips, par	wls, and metal clips $$\mathbb{N}$$

#### < SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



## CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer comments. Refer to <u>EXT-10</u>, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so that the customer, service adviser, and technician use the same language when describing 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 = high-pitched noise / softer surfaces = low-pitched 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 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 sounds / 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 / dull sounds often brought on by activity.
- Buzz (Like a bumblebee) Buzz characteristics include high frequency rattle / firm contact.
- Often the degree of acceptable noise level varies depending upon the person. A noise that a technician may judge as acceptable may be very irritating to a customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

## < SYMPTOM DIAGNOSIS >

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed. 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 items: 1) Close a door.	A
<ul> <li>2) Tap or push/pull around the area where the noise appears to be coming from.</li> <li>3) Rev the motor.</li> </ul>	
<ul> <li>4) Use a floor jack to recreate vehicle "twist".</li> <li>5) At idle, apply motor load (electrical load, half-clutch on M/T models, drive position on A/T models).</li> <li>6) Being the vehicle on a baint and bit a time with a right harmonic.</li> </ul>	С
<ul><li>6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.</li><li>Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.</li><li>If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.</li></ul>	D
CHECK RELATED SERVICE BULLETINS After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to the concern or symptom.	Е
If a TSB relates to the symptom, follow the procedure to repair the noise.	F
LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE	
1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, engine ear, and mechanics stethoscope).	G
2. Narrow down the noise to a more specific area and identify the cause of the noise by:	
<ul> <li>Removing the component(s) in the area that is / are suspected to be the cause of the noise.</li> <li>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.</li> </ul>	Н
• Tapping or pushing/pulling the component(s) that is / are suspected to be the cause of the noise. Do not tap or push/pull the component(s) with excessive force, otherwise the noise is eliminated only temporarily.	I
• Feeling for a vibration by hand by touching the component(s) that is / are suspected to be the cause of the	
<ul> <li>Placing a piece of paper between components that are suspected to be the cause of the noise.</li> <li>Looking for loose components and contact marks. Refer to <u>EXT-8</u>, "Inspection Procedure".</li> </ul>	J
REPAIR THE CAUSE	EXT
<ul> <li>If the cause is a loose component, tighten the component securely.</li> </ul>	
<ul> <li>If the cause is insufficient clearance between components:</li> <li>Separate components by repositioning or loosening and retightening the components, if possible.</li> <li>Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape, or ure- thane tape. A NISSAN Squeak and Rattle Kit (J-43980) is available through the authorized NISSAN Parts</li> </ul>	L
Department. CAUTION:	M
Never use excessive force as many components are constructed of plastic and may be damaged.	
<b>NOTE:</b> 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	Ν
ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick]	
Insulates connectors, harness, etc.	0
<ul> <li>76268-9E005: 100 × 135 mm (3.937 × 5.315 in)</li> <li>76884-71L01: 60 × 85 mm (2.362 × 3.346 in)</li> <li>76884-71L02: 15 × 25 mm (0.591 × 0.984 in)</li> </ul>	Р
INSULATOR (Foam blocks)	
Insulates components from contact. Can be used to fill space behind a panel. • 73982-9E000: 45 mm (1.772 in) thick, $50 \times 50$ mm (1.969 $\times$ 1.969 in)	
• 73982-50Y00: 10 mm (0.394 in) thick, 50 × 50 mm (1.969 × 1.969 in)	
INSULATOR (Light foam block) 80845-71L00: 30 mm (1.181 in) thick, 30 $\times$ 50 mm (1.181 $\times$ 1.969in) FELT CLOTHTAPE	

Revision: 2014 June

# EXT-7

#### < SYMPTOM DIAGNOSIS >

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

• 68370-4B000: 15 imes 25 mm (0.591 imes 0.984 in) pad

• 68239-13E00: 5 mm (0.197 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 in place of UHMW tape that is visible or does not fit. Only lasts a few months. SILICONE SPRAY Used when grease cannot be applied. DUCT TAPE Used to eliminate movement.

#### CONFIRM THE REPAIR

After repair is complete, test drive the vehicle to confirm that the cause of noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

### Inspection Procedure

INFOID:000000007632440

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

#### INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

#### CAUTION:

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

#### CENTER CONSOLE

Components to check include:

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

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

## DOORS

Check the following items:

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

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

## TRUNK

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

## EXT-8

### < SYMPTOM DIAGNOSIS >

1. Trunk lid dumpers out of adjustment	А
2. Trunk lid striker out of adjustment	A
3. Trunk lid torsion bars knocking together	
4. A loose license plate or bracket	В
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 items:	С
1. Sunroof lid, rail, linkage, or seals making a rattle or light knocking noise	
<ol> <li>Sunvisor shaft shaking in the holder</li> </ol>	
<ol> <li>Front or rear windshield touching headlining and squeaking</li> </ol>	D
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.	Е
SEATS	
When isolating seat noise it is important to note the position the seat is in and the load placed on the seat	
when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the	F
noise.	
Causes of seat noise include:	
1. Headrest rods and holder	G
2. A squeak between the seat pad cushion and frame	
3. The rear seatback lock and bracket	Н
These noises can be isolated by moving or pressing on the suspected components while duplicating the con- ditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component	
or applying urethane tape to the contact area.	
UNDERHOOD	
Some interior noise may be caused by components under the hood or on the motor wall. The noise is then	
transmitted into the passenger compartment.	
Causes of transmitted underhood noise include:	J
1. Any component mounted to the motor wall	
2. Components that pass through the motor wall	EXT
3. Motor wall mounts and connectors	
4. Loose radiator mounting pins	
5. Hood bumpers out of adjustment	L
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, motor RPM or	
load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	Μ
insulating the component causing the noise.	
	Ν
	1.4
	0

< SYMPTOM DIAGNOSIS >

### **Diagnostic Worksheet**



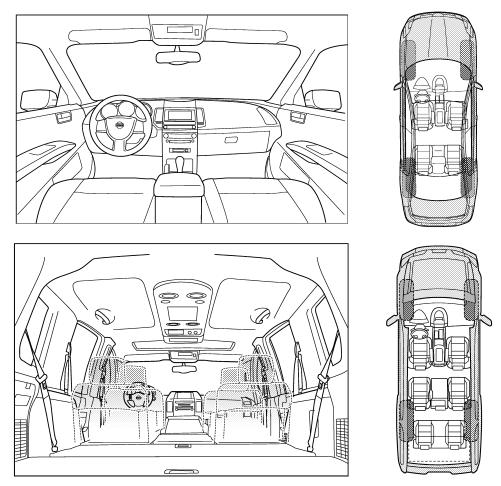
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

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



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

PIIB8740E

INFOID:000000007632441

#### < SYMPTOM DIAGNOSIS >

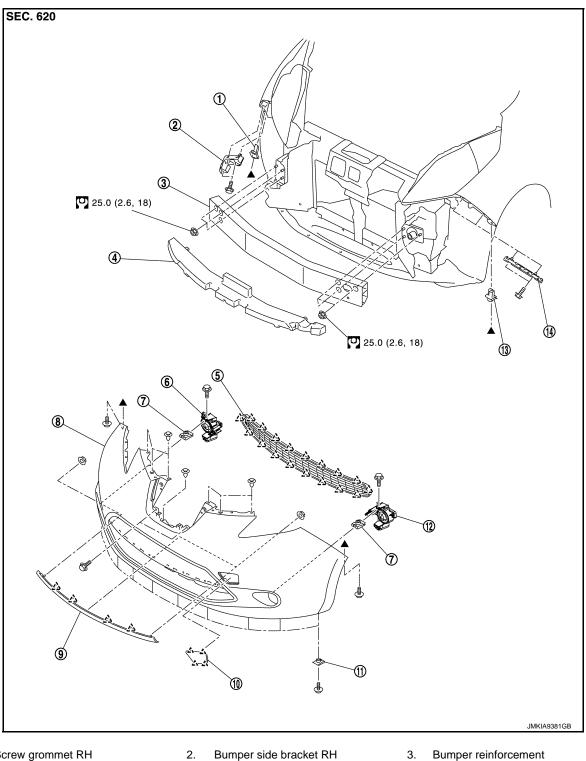
·	oise occurs:	
II. WHEN DOES IT OCCUR? (please cl	neck the boxes that apply)	
<ul> <li>anytime</li> <li>1st time in the morning</li> <li>only when it is cold outside</li> <li>only when it is hot outside</li> </ul>	<ul> <li>after sitting out in the rain</li> <li>when it is raining or wet</li> <li>dry or dusty conditions</li> <li>other:</li> </ul>	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
<ul> <li>through driveways</li> <li>over rough roads</li> <li>over speed bumps</li> </ul>	<ul> <li>squeak (like tennis shoes on a clean floor)</li> <li>creak (like walking on an old wooden floor)</li> <li>rattle (like shaking a baby rattle)</li> </ul>	
<ul> <li>only about mph</li> <li>on acceleration</li> <li>coming to a stop</li> </ul>	<ul> <li>knock (like a knock at the door)</li> <li>tick (like a clock second hand)</li> <li>thump (heavy, muffled knock noise)</li> </ul>	
<ul> <li>on turns: left, right or either (circle)</li> <li>with passengers or cargo</li> </ul>	buzz (like a bumble bee)	
other:		
after driving miles or m  TO BE COMPLETED BY DEALERSHI		
after driving miles or m  TO BE COMPLETED BY DEALERSHI	P PERSONNEL	
	P PERSONNEL YES NO Initials of person performing	
after driving miles or m TO BE COMPLETED BY DEALERSHIP Test Drive Notes:  Vehicle test driven with customer Noise verified on test drive Noise source located and repaired	P PERSONNEL          YES       NO       Initials of person performing         Image: Image	

## < REMOVAL AND INSTALLATION >

# **REMOVAL AND INSTALLATION FRONT BUMPER**

# Exploded View

INFOID:000000007632442



- Screw grommet RH 1.
- 4. Bumper energy absorber
- 7. Spring nut
- 10. Bumper cover
- 13. Screw grommet LH

- Bumper side bracket RH 2.
- 5. Bumper grille
- 8. Bumper fascia
- 11. J nut
- 14. Bumper side bracket LH

Revision: 2014 June



- Bumper finisher RH
- 9. Bumper moulding

6.

12. Bumper finisher LH

### < REMOVAL AND INSTALLATION >

: Pawl

: N·m (kg-m, ft-lb)

▲: Indicates that the part is connected at points with same symbol in actual vehicle.

## Removal and Installation

INFOID:000000007632443

А

В

С

D

Ε

F

Н

## REMOVAL

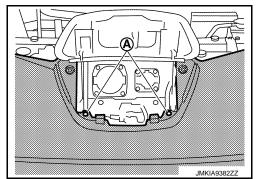
#### CAUTION:

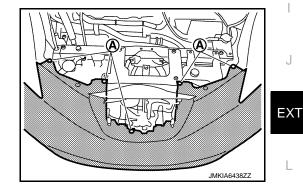
Bumper fascia is made of resin. Never apply strong force to it, and be careful to prevent contact with oil.

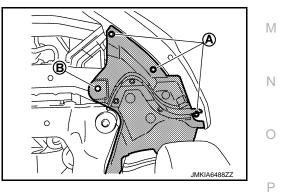
- 1. Remove radiator upper grille. Refer to <u>DLK-145, "RADIATOR UPPER GRILLE : Removal and Installa-</u> tion".
- Remove charge port cover. Refer to <u>DLK-137</u>, "CHARGE PORT LID ASSEMBLY : Removal and Installation".
- 3. Remove bumper fascia upper side mounting bolts (A).

4. Remove bumper fascia upper side fixing clips (A).

5. Remove fender protector mounting bolts (A) and clip (B).



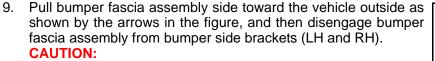




- 6. Remove bumper fascia lower mounting screws.
- 7. Remove fender protector fixing clips and screws to access bumper fascia assembly fixing screw, and then remove bumper fascia assembly fixing screws (LH and RH).

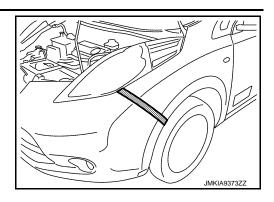
## < REMOVAL AND INSTALLATION >

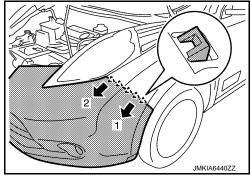
8. Apply protective tape on the part to protect it from damage.



When removing bumper fascia, 2 workers are required so as to prevent it from dropping.







- 10. Disconnect front fog lamp harness connectors (LH and RH).
- 11. Remove bumper fascia assembly. CAUTION:

#### When removing bumper fascia, 2 workers are required so as to prevent it from dropping.

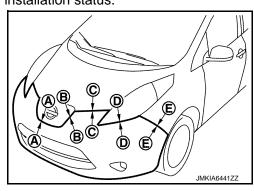
- 12. Remove the following parts after removing bumper fascia.
  - License plate bracket
  - Front bumper side brackets (LH and RH)
  - Front bumper grille
  - Fog lamps (LH and RH). Refer to EXL-99. "Removal and Installation".
- 13. Remove bumper energy absorber.
- 14. Remove bumper reinforcement mounting nuts, and then remove bumper reinforcement.
- 15. Remove lower apron mounting bolts and clips, and then remove lower apron.

#### INSTALLATION

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

#### NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.



### < REMOVAL AND INSTALLATION >

Portion		Clearance	Surface height difference
Bumper fascia assembly – Charge port lid	A – A	2.1 – 4.5 mm (0.083 – 0.177 in)	2.0 – 5.0 mm (0.079 – 0.197 in)
	В – В	1.4 – 3.8 mm (0.091 – 0.303 in)	0.0 – 3.0 mm (0.000 – 0.118 in)
Bumper fascia assembly – Hood	C – C	2.3 – 7.7 mm (0.012 – 0.130 in)	[(–1.0) – (+3.0) mm] [(–0.039 – (+0.118) in]
Bumper fascia assembly – Front combination lamp	D – D	0.2 – 3.8 mm (0.008 – 0.150 in)	_
Front bumper – Front fender	E-E	0.0 – 1.0 mm (0.000 – 0.039 in)	[(-0.3) - (+1.7) mm] [(-0.012) - (+0.067) in]

J

F

G

Н

L

M

Ν

Ο

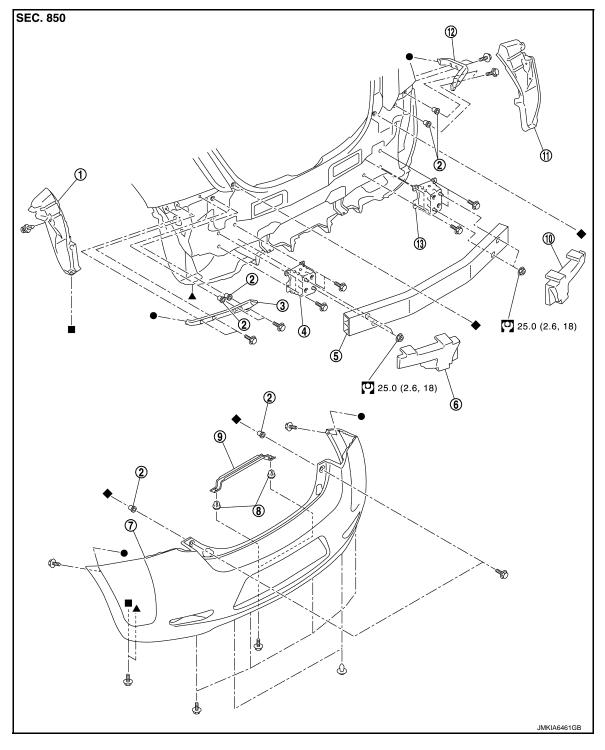
## **REAR BUMPER**

# < REMOVAL AND INSTALLATION >

# REAR BUMPER

Exploded View

INFOID:000000007632444



- 1. Bumper closing LH
- 4. Bumper stay LH
- 7. Bumper fascia
- 10. Bumper energy absorber RH
- 13. Bumper stay RH

- 2. Grommet
- 5. Bumper reinforcement
- 8. Grommet
- 11. Bumper closing RH
- 3. Rear side bracket LH
- 6. Bumper energy absorber LH
  - 9. License lamp bracket
  - 12. Rear side bracket RH

## **REAR BUMPER**

### < REMOVAL AND INSTALLATION >

: N·m (kg-m, ft-lb)

 $\bullet$ ,  $\bullet$ ,  $\blacksquare$ ,  $\bullet$ : Indicates that the part is connected at points with same symbol in actual vehicle.

## Removal and Installation

## REMOVAL

#### CAUTION:

Bumper fascia is made of resin. Never apply strong force to it, and be careful to prevent contact with oil.

- 1. Remove bumper fascia upper side fixing screws (A).
- D A Е F JMKIA6442ZZ Н (A) JMKIA6443ZZ EXT L Μ Ν JMKIA9374ZZ 11 Ρ 3
- Remove bumper fascia lower side fixing bolts and clips. 2.
- 3. Remove bumper fascia side fixing screws (A).

Apply protective tape on the part to protect it from damage. 4.

5. Pull bumper fascia side toward the vehicle side to disengage the fitting of bumper side bracket and bumper fascia side as shown by the arrow in the figure.

JMKIA6444ZZ

В

С

INFOID:000000007632445



# REAR BUMPER

### < REMOVAL AND INSTALLATION >

- 6. Disengage license lamp harness connectors.
- 7. Remove bumper fascia assembly. CAUTION:

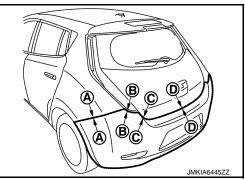
#### When removing bumper fascia, 2 workers are required so as to prevent it from dropping.

- 8. Remove the following parts after removing bumper fascia.
  - License lamps (LH and RH). Refer to EXL-112, "Removal and Installation".
  - Bumper closings (LH and RH)
  - Bumper side brackets (LH and RH)
  - Reflectors (LH and RH) Refer to EXL-114, "Removal and Installation".
- 9. Remove bumper energy absorbers (LH and RH).
- 10. Remove bumper reinforcement mounting nuts, and then remove bumper reinforcement.

#### INSTALLATION

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

- NOTE:
- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.



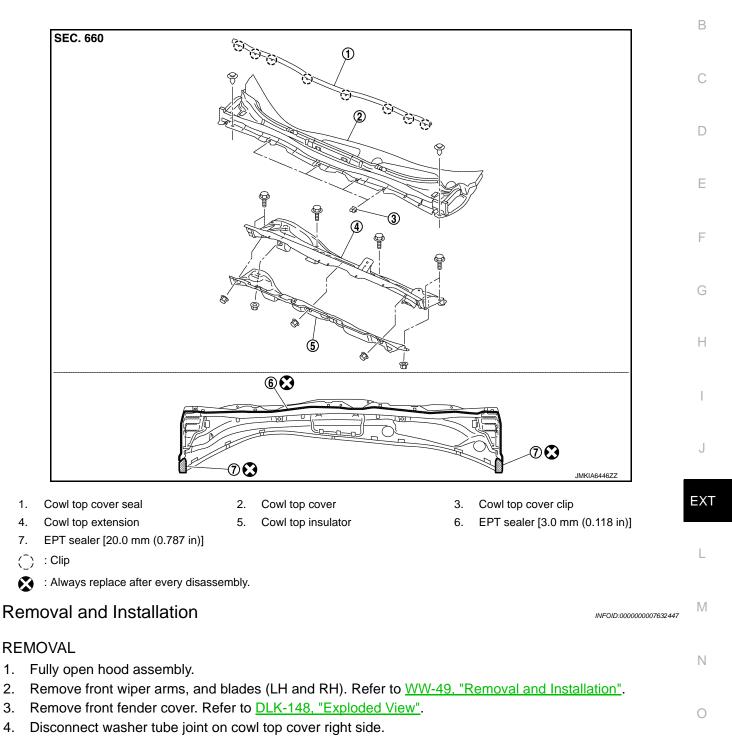
Portion		Clearance	Surface height difference	
Bumper fascia assembly – Rear fender	A – A	0.0 – 1.0 mm (0.000 – 0.039 in)	[(-0.3) – (+1.7) mm] [(-0.012 – (+0.067) in]	
Bumper fascia assembly – Rear combination lamp	B – B	0.4 – 3.6 mm (0.016 – 0.142 in)	_	
Bumper fascia assembly – Back door	C – C	3.3 – 7.3 mm (0.130 – 0.287 in)	_	
	D – D	6.0 – 10.0 mm (0.236 – 0.394 in)	_	

# COWL TOP

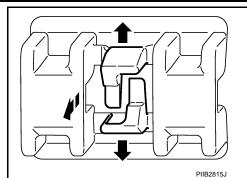
Exploded View

INFOID:000000007632446

А

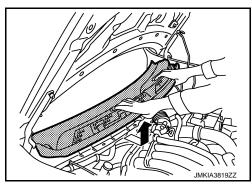


5. Expand center portion of clip that is fixing clip of cowl top cover and cowl top extension in the upper and lower direction indicated by arrows as shown in the figure, and then pull out clip toward vehicle front.



6. Pull forward to release cowl top cover from windshield glass. CAUTION:

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



- 7. Remove cowl top cover.
- 8. Remove the following parts after removing cowl top cover.
  - EPT sealer
  - Cowl top cover seal
  - Washer tube
  - Washer nozzles. Refer to WW-46, "Removal and Installation".
- 9. Remove front wiper drive assembly. Refer to <u>WW-54, "Removal and Installation"</u>.
- 10. Remove cowl top extension mounting bolts, and them cowl top extension.

#### INSTALLATION

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

- **CAUTION:**
- Always replace cowl top cover EPT sealer on rear of vehicle with a new one when installing old cowl top cover.
- After installing, perform adjustment of wiper arm. Refer to WW-50, "Adjustment".

# FENDER PROTECTOR FENDER PROTECTOR

FENDER PROTECTOR : Exploded View

INFOID:000000007632448 SEC. 630 1 1 g 1 3 4

FENDER PROTECTOR : Removal and Installation

## REMOVAL

1. Remove front fender protector front end fixing bolts (A) and clip (B).

INFOID:000000007632449

JMKIA6447ZZ

А

В

С

D

Е

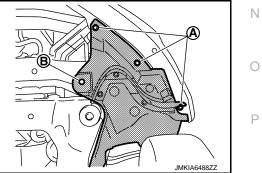
F

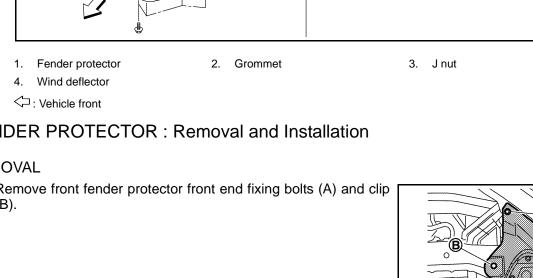
Н

J

EXT

L

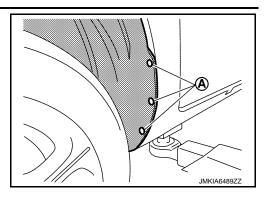




# FENDER PROTECTOR

## < REMOVAL AND INSTALLATION >

2. Remove front fender protector fixing screws (A).



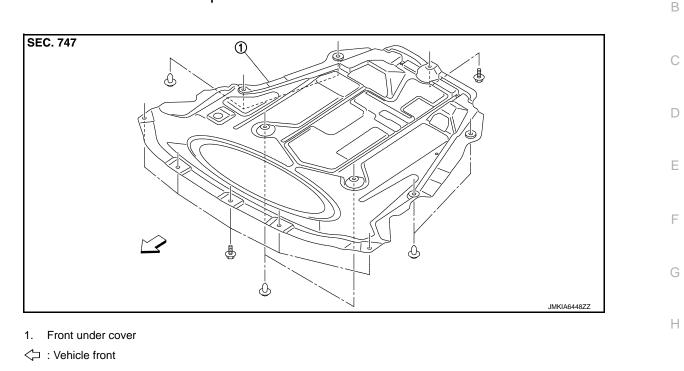
3. Remove front fender protector fixing clips, and then remove front fender protector.

#### INSTALLATION

Install in the reverse order of removal.

## FLOOR SIDE FAIRING FRONT UNDER COVER

FRONT UNDER COVER : Exploded View



## FRONT UNDER COVER : Removal and Installation

## REMOVAL

- 1. Remove front under cover front mounting bolts.
- 2. Remove front under cover fixing clips and then remove front under cover.

## INSTALLATION

Install in the reverse order of removal. REAR DIFFUSER

## **REAR DIFFUSER : Exploded View**

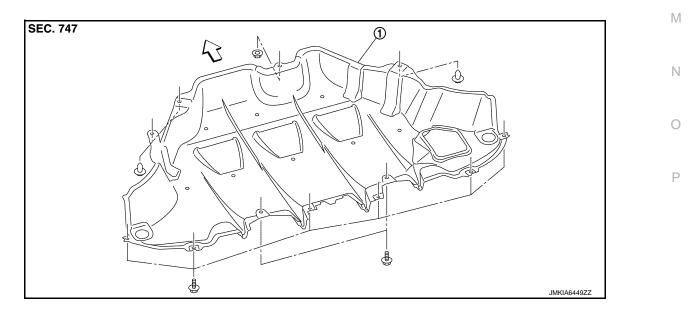
INFOID:000000007632452

INFOID:000000007632451

EXT

А

INFOID:000000007632450



- 1. Rear diffuser
- $\triangleleft$ : Vehicle front

# **REAR DIFFUSER : Removal and Installation**

INFOID:000000007632453

### REMOVAL

- 1. Remove rear diffuser mounting bolts.
- 2. Remove rear diffuser.

#### INSTALLATION

Install in the reverse order of removal.

# **ROOF SIDE MOLDING**

# Exploded View

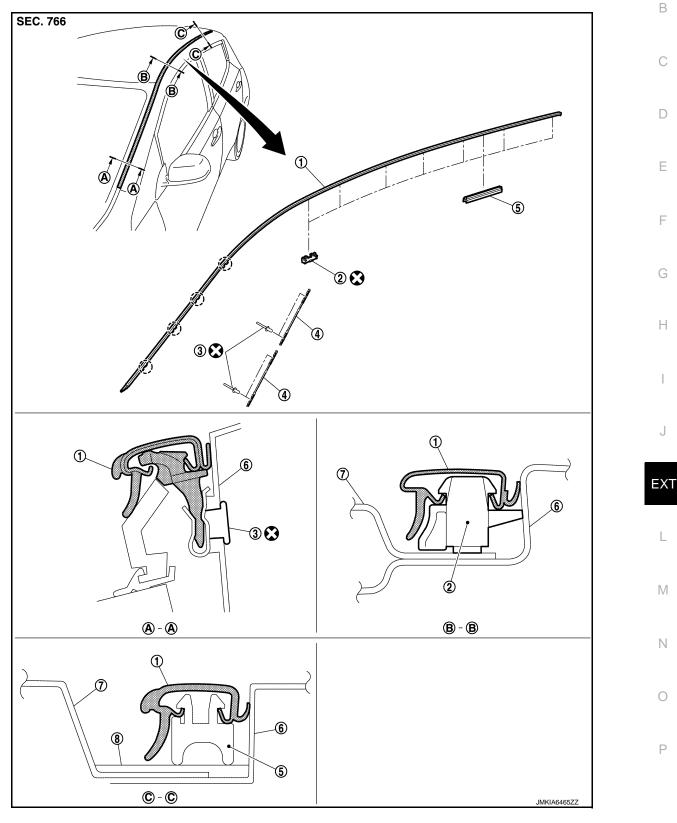
INFOID:000000007632454

А

F

J

L



- Roof side molding 1.
- 4. Molding fastener
- Roof panel 7.

- 2. Roof side molding clip Spacer roof molding
- 5.
- Paint seal 8.

- 3. Rivet
  - 6. Body side outer panel

Revision: 2014 June

**EXT-25** 

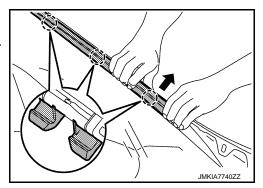
- (\_) : Clip
- Always replace after every disassembly.

## Removal and Installation

REMOVAL

- 1. Remove front fender cover (LH and RH). Refer to DLK-148, "Exploded View"
- Disengage roof side molding fixing clips form front end. CAUTION: Never pull the roof side molding strongly to prevent damage to the parts.

( ]) : Clip

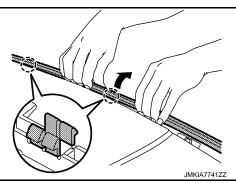


3. Twist roof side molding toward vehicle outside, lift it up and remove it while disengaging clips.

#### **CAUTION:**

Never pull the roof side molding strongly to prevent damage to the parts.

(<sup>^</sup>) : Clip



## INSTALLATION

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

## Install spacer roof molding between rear end of roof molding fixing clips.

## REMOVAL AND INSTALLATION OF ROOF SIDE MOLDING CLIP

#### Removal

- 1. Remove roof side molding.
- 2. Heat adhesive tape interface using a dryer, and then peel roof side molding clips (body side) using longnose pliers.

#### CAUTION:

#### Be careful not to damage the body.

Installation

- 1. Clean tape removed surface with a shop cloth soaked in white gasoline or IPA.
- 2. Use two-part epoxy adhesive.

#### Adhesive : 3M-weld DP–100 or equivalent

3. Apply adhesive evenly to clip tape surface.

#### Thickness : Approximately 0.5 mm (0.020 in)

4. Position applied parts to the proper location, and then sufficiently press-fit until the adhesive protrudes to tape side.

## **EXT-26**

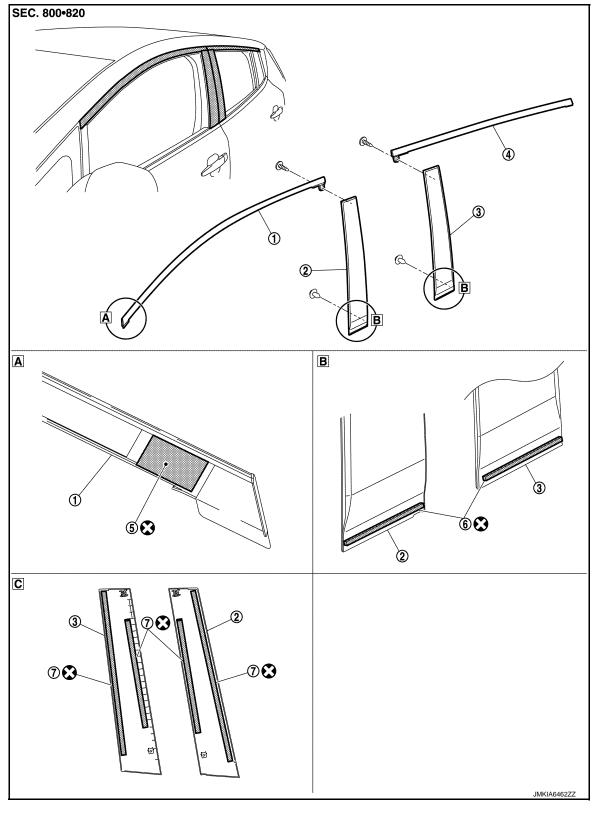
INFOID:000000007632455

	Press-fit limit : 19.6 N (2.0 Kg	f - 4.41 lb) $ imes$ 2 seconds	А
5.	Tape clips after press fit, and tempo	prarily hold it for specified time based on the following.	
	5 to 10 °C (41 to 50 °F)	: 1 hour or more	В
	11 to 23 °C (52 to 73 °F)	: 30 minutes or more	
	24 °C or more (75 °F or more)	: 15 minutes or more	С
6.	Install from roof side molding rear e	nd to front end in this order after temporarily holding.	
• Us • Se		ap onto roof rear end cutout (installation standard).	D
in	hen installing roof side molding serted and then press in. ever wash the vehicle with in 24 h	of windshield portion, check that molding fastener is securely ours so as to keep adhesive.	E
			F
			G
			Н
			I
			J
			EXT
			L
			M
			Ν
			0
			-
			Ρ

DOOR SASH MOLDING

# Exploded View

INFOID:000000007632456



- 1. Front door sash molding
- 4. Rear door sash molding
- 2. Front door sash cover
- 5. Double-sided tape [t: 1.2 mm (0.047 in)]
- 3. Rear door sash cover
- 6. EPT sealer [t: 3.0 mm (0.118 in)]

**EXT-28** 

7. Double-sided tape [t: 0.8 mm (0.031 in)]

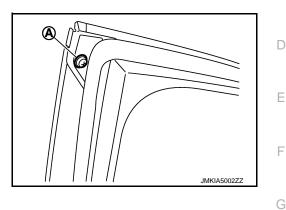
Always replace after every disassembly.

## Removal and Installation

## FRONT DOOR SASH MOLDING

#### Removal

1. Remove front door sash molding fixing screw (A).



А

Н

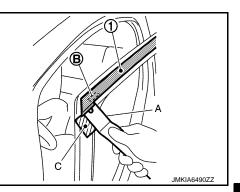
L

Ν

Ρ

INFOID:000000007632457

- 2. Release front door weather-strip and glass run rubber.
- Insert a remover tool (A) between front door panel and front door sash molding (1), and then take off double-sided tape (B) with cutter knife.
   CAUTION:
  - Apply protective tape (C) on door sash panel to protect damage.
  - Never lift front door sash molding with excessive force to prevent damage to the parts.



4. Remove front door sash molding connection between door panel and molding from glass run side, using a remover tool.

#### Installation

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

- Replace double-sided tape on back of molding with a new tape if front door sash molding is reused.  $\square$
- Remove double-sided tape remaining on body and back of molding using double-sided tape remover when removing front door sash molding.
- Install after cleaning adhesive parts of door side and back of front door sash molding.
- To secure contact, never wash vehicle within 24 hours after installation.

### REAR DOOR SASH MOLDING

#### Removal

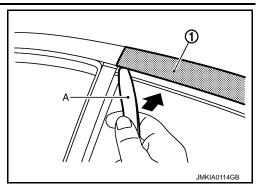
- 1. Remove rear door sash molding fixing screw.
- 2. Remove rear door weather-strip.
- 3. Release roof portion of rear door glass run.

# DOOR SASH MOLDING

## < REMOVAL AND INSTALLATION >

4. Remove rear door sash molding (1) connection between door panel and molding from glass run side, using a remover tool (A). **CAUTION:** 

Never use a material for remover tool which could damage door panel to prevent damage to the parts.



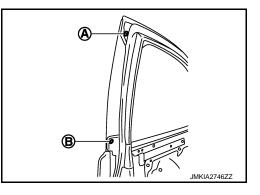
Installation

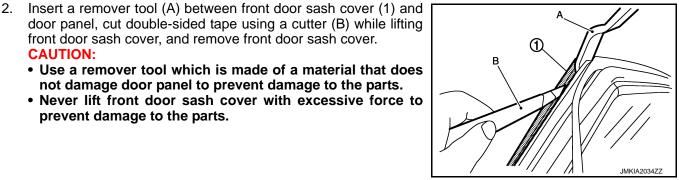
Install in the reverse order of removal.

FRONT DOOR SASH COVER

#### Removal

1. Remove front door sash cover mounting screw (A) and clip (B).





ി

Installation

**CAUTION:** 

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

front door sash cover, and remove front door sash cover.

prevent damage to the parts.

not damage door panel to prevent damage to the parts.

• When installing, slide and install front door sash cover (2) from door rear side, so that front door outside molding (1) is not deformed.



2

## DOOR SASH MOLDING

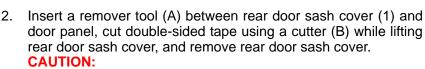
### < REMOVAL AND INSTALLATION >

- Replace EPT sealer of front door sash cover with a new EPT sealer if front door sash cover is reused.
- Remove double-sided tape remaining on body and back of front door sash cover using double-sided tape remover when removing front door sash molding.
- Install after cleaning adhesive parts of door side and back of front door sash cover.
- To secure contact, never wash vehicle within 24 hours after installation.

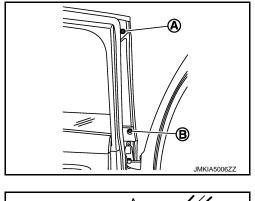
#### REAR DOOR SASH COVER

#### Removal

1. Remove rear door sash cover mounting screw (A) and clip (B).



- Never use an item as a remover tool that could damage door panel to prevent damage to the parts.
- Never lift rear door sash cover with excessive force to prevent damage to the parts.



А

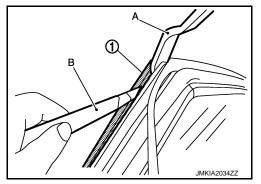
В

Ε

F

Н

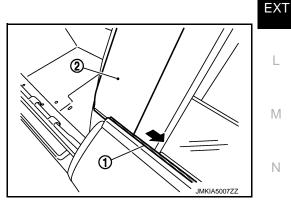
P



Installation

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

• When installing, slide and install rear door sash cover (2) from door front, so that rear door outside molding (1) is not deformed.



- Replace double-sided tape on back of rear door sash cover with a new double-sided tape if rear door sash cover is reused.
- Replace EPT sealer of rear door sash cover with a new EPT sealer if rear door sash cover is reused.
- Remove double-sided tape remaining on body and back of rear door sash cover using double-sided tape remover when removing rear door sash cover.
- Install after cleaning adhesive parts of door side and back of rear door sash cover.
- To secure contact, never wash vehicle within 24 hours after installation.

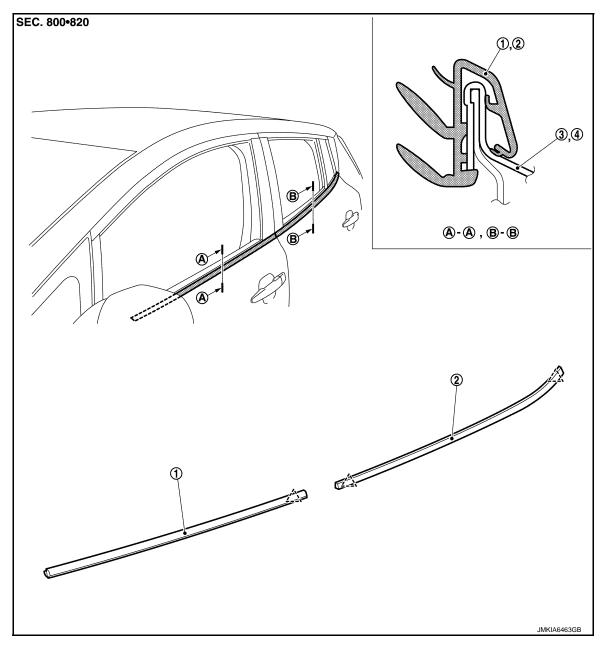
## DOOR OUTSIDE MOLDING

## < REMOVAL AND INSTALLATION >

# DOOR OUTSIDE MOLDING

# Exploded View

INFOID:000000007632458



- 1. Front door outside molding
- 4. Rear door panel
- Pawl زړک

## Removal and Installation

#### REMOVAL

#### FRONT DOOR OUTSIDE MOLDING

1. Fully open front door glass.

- 2. Rear door outside molding
- 3. Front door panel

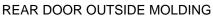
INFOID:000000007632459

# DOOR OUTSIDE MOLDING

С

## < REMOVAL AND INSTALLATION >

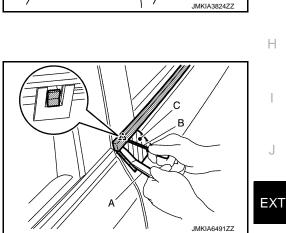
- 2. Disengage fixing pawl of front door outside molding rear end, using remover tool (A) and (B). **CAUTION:** 
  - Apply a protective tape (C) on the body to protect the painted surface from damage.
  - Never lift front door outside molding with excessive force to prevent damage to the parts.
    - : Pawl  $\hat{\Delta}$
- 3. Twist door outside molding toward the outside of the vehicle, and then lift up and remove it while disengaging the pawls.



- 1. Fully open door window.
- 2. Disengage fixing pawl of front door outside molding front and rear end, using remover tool (A) and (B). **CAUTION:** 
  - Apply a protective tape (C) on the body to protect the painted surface from damage.
  - Never lift rear door outside molding with excessive force to prevent damage to the parts.

2 : Pawl

INSTALLATION Install in the reverse order of removal.



L

А

В

D

Ε

F

Н

J

JMKIA6270ZZ

Ν

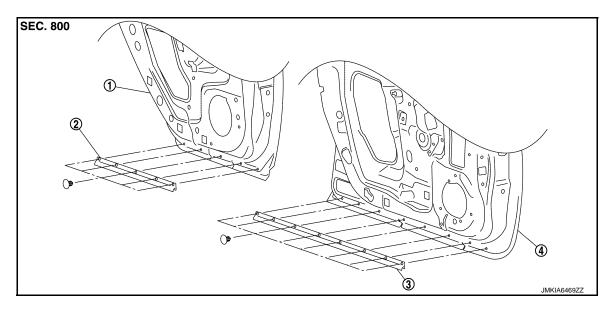
## DOOR PARTING SEAL

## < REMOVAL AND INSTALLATION >

DOOR PARTING SEAL

## **Exploded View**

INFOID:000000007632460



- 1. Rear door panel
- 2. Rear door parting seal
- 3. Front door parting seal

4. Front door panel

## Removal and Installation

INFOID:000000007632461

## REMOVAL

FRONT DOOR PARTING SEAL

- 1. Fully open front door.
- 2. Disengage front door parting seal fixing clips, using remover tool. CAUTION:
  - Disengage the clips slowly and carefully.
  - Never pull the front door parting seal strongly to prevent damage to the parts.
- 3. Remove front door parting seal.

#### REAR DOOR PARTING SEAL

- 1. Fully open rear door.
- 2. Disengage rear door parting seal fixing clips, using remover tool. CAUTION:
  - Disengage the clips slowly and carefully.
  - Never pull the rear door parting seal strongly to prevent damage to the parts.
- 3. Remove rear door parting seal.

#### INSTALLATION

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

- When installing door parting seal, check that blind clips are securely fitted in door panel holes to prevent damage to the parts.
- When installing, visually check the door parting seal and the clips, then replace them with new parts if they are damaged.

# **REAR SPOILER**

Exploded View

## REMOVAL

INFOID:000000007632462

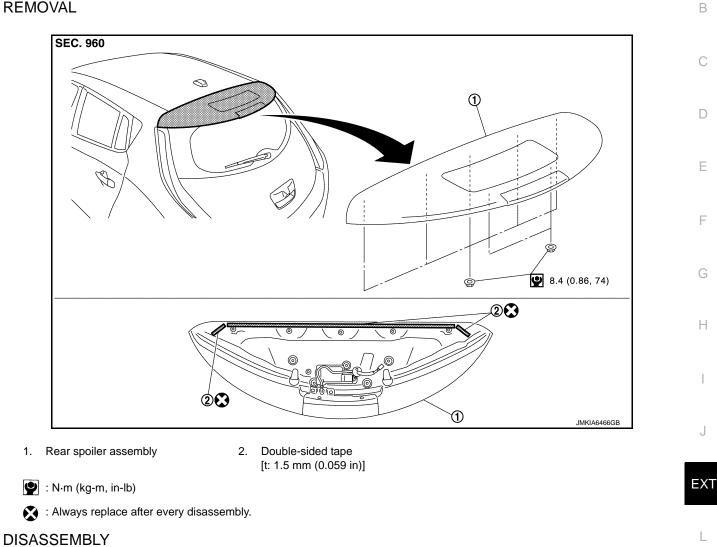
А

J

Μ

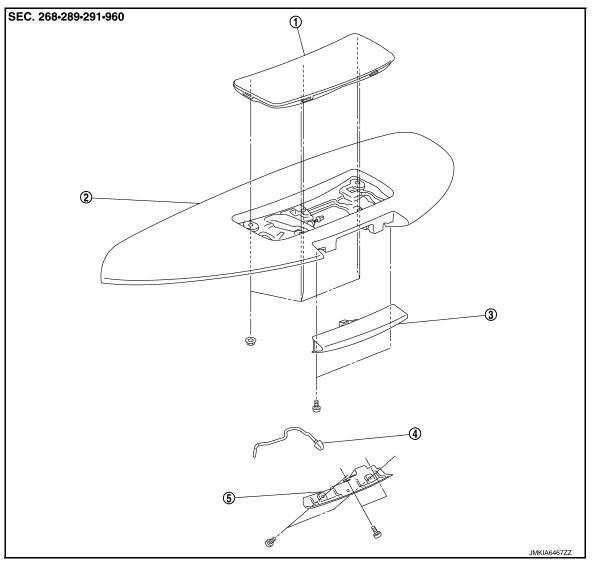
Ν

Ο



# **REAR SPOILER**

### < REMOVAL AND INSTALLATION >



- 1. Solar cell module
- 2. Rear spoiler assembly
- 3. High-mounted stop lamp

- 4. Washer nozzle
- 5. High-mounted stop lamp cover

## **Removal and Installation**

#### INFOID:000000007632463

#### REMOVAL

- Remove back door upper finisher. Refer to INT-41, "BACK DOOR UPPER FINISHER : Removal and 1. Installation".
- 2. Remove rear spoiler mounting nuts.
- 3. Cut rear spoiler fixing double-sided tape with cutter knife.
- 4. Lift rear spoiler, and then disconnect harness connector and rear washer tube. **CAUTION:**

#### Never lift rear spoiler with excessive force to prevent damage to the parts.

- 5. Remove rear spoiler.
- 6. Remove following parts after removing rear spoiler.
  - High-mounted stop lamp. Refer to EXL-111, "Removal and Installation".
    - Washer nozzle
    - Solar cell module. Refer to CHG-14, "Removal and Installation".

#### INSTALLATION

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

## **EXT-36**

## **REAR SPOILER**

#### **CAUTION:**

- Be careful no to damage the back door.
- Always replace double-sided tape with a new one, if rear spoiler is reused.
- Remove double-sided tape remaining on back door panel and back of rear spoiler with a doublesided tape remover, after removing rear spoiler.
- When installing rear spoiler, check that bolts are securely fitted in back door panel holes to prevent damage to the parts.
- Never wash the vehicle within 24 hours after installing so as to keep adhesive.

D

Е

F

С

А

J

EXT

L

Μ

Ν

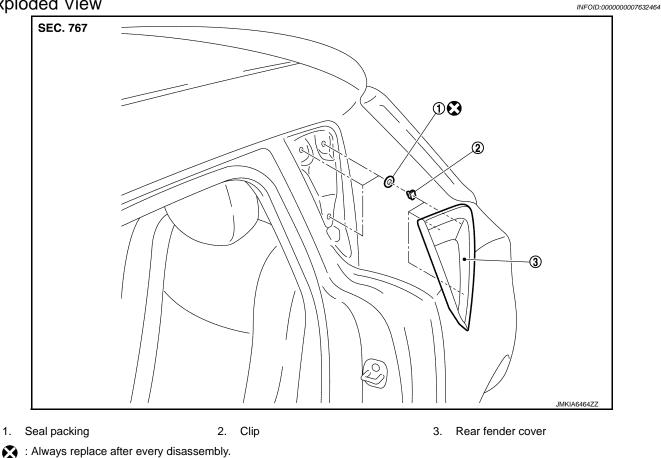
Ο

## **REAR FENDER COVER**

## < REMOVAL AND INSTALLATION >

# **REAR FENDER COVER**

## **Exploded View**



## Removal and Installation

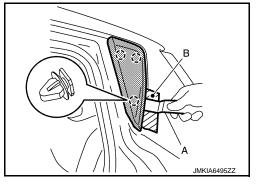
INFOID:000000007632465

## REMOVAL

Disengage rear fender cover fixing clips using remover tool (A), and then remove rear fender cover.

#### **CAUTION:**

Apply protective tape (B) to the body side to protect from damage.



## **INSTALLATION**

( ) : Clip

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

### **CAUTION:**

When installing rear fender cover, check that clips are securely fitted in body panel holes, and then press them it.