CONTENTS

SYMPTOM DIAGNOSIS2
SQUEAK AND RATTLE TROUBLE DIAG- NOSES 2 Work Flow 2 Inspection Procedure 4 Diagnostic Worksheet 6
PRECAUTION8
PRECAUTIONS8
FOR MEXICO 8 FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" ROR MEXICO : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect 8 FOR MEXICO : Precaution for Work
FOR USA AND CANADA 8 FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" 9 FOR USA AND CANADA : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect 9 FOR USA AND CANADA : Precaution for Work 9
PREPARATION10
PREPARATION 10 Special Service Tools 10 Commercial Service Tools 10
ON-VEHICLE REPAIR11

DOOR FINISHER11	F
FRONT DOOR FINISHER11 FRONT DOOR FINISHER : Exploded View11 FRONT DOOR FINISHER : Removal and Installa- tion	G
REAR DOOR FINISHER 13 REAR DOOR FINISHER : Exploded View 14 REAR DOOR FINISHER : Removal and Installa- 14 tion 14	Н
BODY SIDE TRIM17Exploded View17Removal and Installation17	INT
FLOOR TRIM 21 Exploded View 21 Removal and Installation 21	K
HEADLINING23	
NORMAL ROOF23NORMAL ROOF : Exploded View23NORMAL ROOF : Removal and Installation23	L
SUNROOF	N
LUGGAGE FLOOR TRIM	0
BACK DOOR TRIM	Ρ

SECTION INT ^A_B

INTERIOR o

А

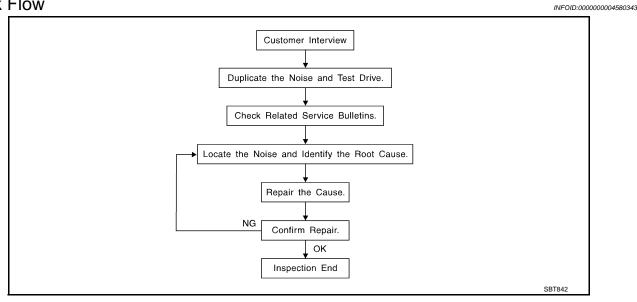
D

Е

< 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 of customer's comments; refer to <u>INT-6</u>, "<u>Diagnostic Worksheet</u>". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
 = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle) Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door) Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand) Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise) Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumblebee) Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

< 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.	А
If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to dupli- cate the noise with the vehicle stopped by doing one or all of the following: 1) Close a door.	В
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".	С
5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.	
 Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs. If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body. 	D
CHECK RELATED SERVICE BULLETINS	Е
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.	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:	
 Removing the components in the area that is are suspected to be the cause of the noise. Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise. 	Н
• Tapping or pushing/pulling the component that is are suspected to be the cause of the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only tem-	I
Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the	
noise.Placing a piece of paper between components that are suspected to be the cause of the noise.	INT
 Looking for loose components and contact marks. Refer to <u>INT-4, "Inspection Procedure"</u>. 	
REPAIR THE CAUSE	Κ
 If the cause is a loose component, tighten the component securely. 	Κ
 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 ure-thane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts 	K
 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 ure-thane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. 	K L M
 If the cause is a loose component, tighten the component securely. If the cause is insufficient clearance between components: Separate components by repositioning or loosening and retightening the component, if possible. Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. 	L
 If the cause is a loose component, tighten the component securely. If the cause is insufficient clearance between components: Separate components by repositioning or loosening and retightening the component, if possible. Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: 	L
 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 ure-thane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be 	L
 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 ure-thane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] 	L M N
 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 ure-thane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Insulates connectors, harness, etc. 	L
 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 ure-thane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Insulates connectors, harness, etc. 76268-9E005: 100 × 135 mm (3.937 × 5.315 in) 76884-71L01: 60 × 85 mm (2.362 × 3.346 in) 	L M N
 If the cause is a loose component, tighten the component securely. If the cause is insufficient clearance between components: Separate components by repositioning or loosening and retightening the component, if possible. Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Insulates connectors, harness, etc. 76268-9E005: 100 × 135 mm (3.937 × 5.315 in) 76884-71L01: 60 × 85 mm (2.362 × 3.346 in) 76884-71L02:15 × 25 mm (0.591 × 0.984 in) 	L M N
 If the cause is a loose component, tighten the component securely. If the cause is insufficient clearance between components: Separate components by repositioning or loosening and retightening the component, if possible. Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Insulates connectors, harness, etc. 76268-9E005: 100 × 135 mm (3.937 × 5.315 in) 76884-71L01: 60 × 85 mm (2.362 × 3.346 in) 76884-71L02:15 × 25 mm (0.591 × 0.984 in) INSULATOR (Foam blocks) Insulates components from contact. Can be used to fill space behind a panel. 	L M N
 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 ure-thane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Insulates connectors, harness, etc. 76268-9E005: 100 × 135 mm (3.937 × 5.315 in) 76884-71L01: 60 × 85 mm (2.362 × 3.346 in) 76884-71L02:15 × 25 mm (0.591 × 0.984 in) 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 × 50 mm (1.969 × 1.969 in) 	L M N
 If the cause is a loose component, tighten the component securely. If the cause is insufficient clearance between components: Separate components by repositioning or loosening and retightening the component, if possible. Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Insulates connectors, harness, etc. 76268-9E005: 100 × 135 mm (3.937 × 5.315 in) 76884-71L01: 60 × 85 mm (2.362 × 3.346 in) 76884-71L02:15 × 25 mm (0.591 × 0.984 in) 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 × 50 mm (1.969 × 1.969 in) 73982-50Y00: 10 mm (0.394 in) thick, 50 × 50 mm (1.969 × 1.969 in) INSULATOR (Light foam block) 	L M N
 If the cause is a loose component, tighten the component securely. If the cause is insufficient clearance between components: Separate components by repositioning or loosening and retightening the component, if possible. Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department. CAUTION: Never use excessive force as many components are constructed of plastic and may be damaged. NOTE: Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Insulates connectors, harness, etc. 76268-9E005: 100 × 135 mm (3.937 × 5.315 in) 76884-71L01: 60 × 85 mm (2.362 × 3.346 in) 76884-71L02:15 × 25 mm (0.591 × 0.984 in) INSULATOR (Foam blocks) Insulates components from contact. Can be used to fill space behind a panel. 73982-9E000: 45 mm (0.394 in) thick, 50 × 50 mm (1.969 × 1.969 in) 73982-50Y00: 10 mm (0.394 in) thick, 50 × 50 mm (1.969 × 1.969 in) 	L M N

INT-3

< 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 be visible or does not fit. Will only last a few months. SILICONE SPRAY Used when grease cannot be applied. DUCT TAPE Used to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:000000004580344

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

TRUNK

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

1. Trunk lid dumpers out of adjustment

INT-4

< SYMPTOM DIAGNOSIS >

The trunk lid torsion bars knocking together A loose license plate or bracket ost of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus- g the noise. UNROOF/HEADLINING oises in the sunroof/headlining area can often be traced to one of the following: Sunroof lid, rail, linkage or seals making a rattle or light knocking noise Sunvisor shaft shaking in the holder Front or rear windshield touching headlining and squeaking gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of these cidents. Repairs usually consist of insulating with felt cloth tape. EATS then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder The rear seatback lock and bracket mese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD Dome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall	< STMFTOM DIAGNOSIS >	
A loose license plate or bracket ost of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus- githe noise. UNROOF/HEADLINING oises in the sunroof/headlining area can often be traced to one of the following: Sunroof lid, rail, linkage or seals making a rattle or light knocking noise Sunvisor shaft shaking in the holder Front or rear windshield touching headlining and squeaking gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of these cidents. Repairs usually consist of insulating with felt cloth tape. EATS Then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder The rear seatback lock and bracket rese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs.Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment hese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, of	2. Trunk lid striker out of adjustment	-
ost of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus- g the noise. UNROOF/HEADLINING oises in the sunroof/headlining area can often be traced to one of the following: Sunvisor shaft shaking in the holder Front or rear windshield touching headlining and squeaking gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of these cidents. Repairs usually consist of insulating with felt cloth tape. EATS hen isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket nese noises can be isolated by moving or pressing on the suspected components while duplicating the component applying urethane tape to the contact area. NDERHOOD Ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment teres noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	3. The trunk lid torsion bars knocking together	
g the noise. UNROOF/HEADLINING Dises in the sunroof/headlining area can often be traced to one of the following: Sunvisor shaft shaking in the holder Front or rear windshield touching headlining and squeaking gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of these cidents. Repairs usually consist of insulating with felt cloth tape. EATS hen isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket nese noises can be isolated by moving or pressing on the suspected components while duplicating the component applying urethane tape to the contact area. NDERHOOD me interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hod bumpers out of adjustment Hood striker out of adjustment Nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the v	 A loose license plate or bracket 	
oises in the sunroof/headlining area can often be traced to one of the following: Sunroof lid, rail, linkage or seals making a rattle or light knocking noise Sunvisor shaft shaking in the holder Front or rear windshield touching headlining and squeaking gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of these cidents. Repairs usually consist of insulating with felt cloth tape. EATS Then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket nese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD Dome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment teres noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	flost of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus ng the noise.	-
Sunroof lid, rail, linkage or seals making a rattle or light knocking noise Sunvisor shaft shaking in the holder Front or rear windshield touching headlining and squeaking gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of these cidents. Repairs usually consist of insulating with felt cloth tape. EATS Then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket mese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Heod striker out of adjustment tese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	UNROOF/HEADLINING	
Sunvisor shaft shaking in the holder Front or rear windshield touching headlining and squeaking gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of these cidents. Repairs usually consist of insulating with felt cloth tape. EATS then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket nese noises can be isolated by moving or pressing on the suspected components while duplicating the con- trons under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment Hood bumpers out	loises in the sunroof/headlining area can often be traced to one of the following:	
Front or rear windshield touching headlining and squeaking gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of these cidents. Repairs usually consist of insulating with felt cloth tape. EATS then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket nese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment ese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise	
 gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of these cidents. Repairs usually consist of insulating with felt cloth tape. EATS Then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket nese noises can be isolated by moving or pressing on the suspected components while duplicating the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment Hood striker out of adjustment rese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM 'load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or 	Sunvisor shaft shaking in the holder	
Cidents. Repairs usually consist of insulating with felt cloth tape. EATS Then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket nese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment Hood striker out of adjustment ensones can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	. Front or rear windshield touching headlining and squeaking	
Then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket nese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs.Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment Ho	gain, pressing on the components to stop the noise while duplicating the conditions can isolate most of thes icidents. Repairs usually consist of insulating with felt cloth tape.	Э
Then isolating seat noise it's important to note the position the seats in and the load placed on the seat when e noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. ause of seat noise include: Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket nese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs.Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment Ho	EATS	
Headrest rods and holder A squeak between the seat pad cushion and frame The rear seatback lock and bracket hese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment hood striker out of adjustment hese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	/hen isolating seat noise it's important to note the position the seats in and the load placed on the seat whe ne noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.	۱
A squeak between the seat pad cushion and frame The rear seatback lock and bracket hese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment hese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or		
The rear seatback lock and bracket hese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment hood striker out of adjustment hood striker out of adjustment hood striker out of adjustment hood is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or		
hese noises can be isolated by moving or pressing on the suspected components while duplicating the con- tions under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area. NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment hood striker out of adjustment nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or		
NDERHOOD ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	nese noises can be isolated by moving or pressing on the suspected components while duplicating the cor tions under which the noise occurs.Most of these incidents can be repaired by repositioning the componer	
ome interior noise may be caused by components under the hood or on the engine wall. The noise is then ansmitted into the passenger compartment. auses of transmitted underhood noise include: Any component mounted to the engine wall Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or		
Components that pass through the engine wall Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or		۱
Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	Any component mounted to the engine wall	ļ
Loose radiator mounting pins Hood bumpers out of adjustment Hood striker out of adjustment nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or		
Hood bumpers out of adjustment Hood striker out of adjustment nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or		
Hood striker out of adjustment nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	Loose radiator mounting pins	
nese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	Hood bumpers out of adjustment	
ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or	Hood striker out of adjustment	
sulating the component causing the noise.	ethod is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, o	Λ
	sulating the component causing the holse.	

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



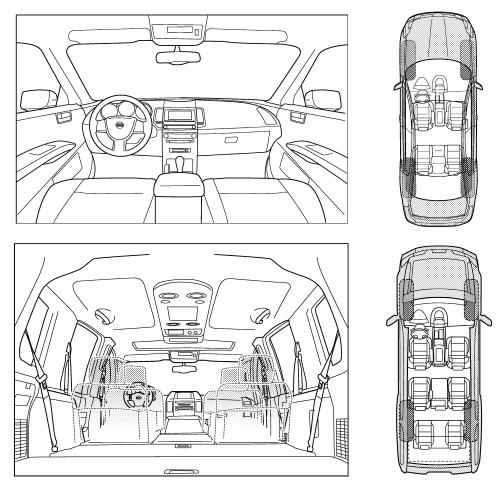
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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:000000004580345

< SYMPTOM DIAGNOSIS >

WHEN DOES IT OCCUR? (please check the boxes that apply) anytime after sitting out in the rain 1st time in the morning when it is raining or wet only when it is cold outside dry or dusty conditions only when it is hot outside other: WHEN DRIVING: IV. WHAT TYPE OF NOISE through driveways squeak (like tennis shoes on a clean floor) over rough roads creak (like walking on an old wooden floor) over speed bumps rattle (like shaking a baby rattle) only about mph knock (like a clock second hand) coming to a stop thump (heavy, muffled knock noise) on turns: left, right or either (circle) buzz (like a bumble bee)	
anytimeafter sitting out in the rain1st time in the morningwhen it is raining or wetonly when it is cold outsidedry or dusty conditionsonly when it is hot outsideother:WHEN DRIVING:IV. WHAT TYPE OF NOISEthrough drivewayssqueak (like tennis shoes on a clean floor)over rough roadscreak (like walking on an old wooden floor)over speed bumpsrattle (like shaking a baby rattle)only about mphknock (like a knock at the door)on accelerationtick (like a clock second hand)coming to a stopthump (heavy, muffled knock noise)	
1st time in the morning when it is raining or wet only when it is cold outside dry or dusty conditions only when it is hot outside other: WHEN DRIVING: IV. WHAT TYPE OF NOISE through driveways squeak (like tennis shoes on a clean floor) over rough roads creak (like walking on an old wooden floor) over speed bumps rattle (like shaking a baby rattle) only about mph knock (like a knock at the door) on acceleration tick (like a clock second hand) coming to a stop thump (heavy, muffled knock noise)	
only when it is cold outsidedry or dusty conditionsonly when it is hot outsideother:WHEN DRIVING:IV. WHAT TYPE OF NOISEthrough drivewayssqueak (like tennis shoes on a clean floor)over rough roadscreak (like walking on an old wooden floor)over speed bumpsrattle (like shaking a baby rattle)only about mphknock (like a knock at the door)on accelerationtick (like a clock second hand)coming to a stopthump (heavy, muffled knock noise)	
only when it is hot outside other: WHEN DRIVING: IV. WHAT TYPE OF NOISE through driveways squeak (like tennis shoes on a clean floor) over rough roads creak (like walking on an old wooden floor) over speed bumps rattle (like shaking a baby rattle) only about mph knock (like a knock at the door) on acceleration tick (like a clock second hand) coming to a stop thump (heavy, muffled knock noise)	
WHEN DRIVING: IV. WHAT TYPE OF NOISE through driveways squeak (like tennis shoes on a clean floor) over rough roads creak (like walking on an old wooden floor) over speed bumps rattle (like shaking a baby rattle) only about mph knock (like a knock at the door) on acceleration tick (like a clock second hand) coming to a stop thump (heavy, muffled knock noise)	
through drivewayssqueak (like tennis shoes on a clean floor)over rough roadscreak (like walking on an old wooden floor)over speed bumpsrattle (like shaking a baby rattle)only about mphknock (like a knock at the door)on accelerationtick (like a clock second hand)coming to a stopthump (heavy, muffled knock noise)	
over rough roadscreak (like walking on an old wooden floor)over speed bumpsrattle (like shaking a baby rattle)only about mphknock (like a knock at the door)on accelerationtick (like a clock second hand)coming to a stopthump (heavy, muffled knock noise)	
over rough roadscreak (like walking on an old wooden floor)over speed bumpsrattle (like shaking a baby rattle)only about mphknock (like a knock at the door)on accelerationtick (like a clock second hand)coming to a stopthump (heavy, muffled knock noise)	
only about mphknock (like a knock at the door)on accelerationtick (like a clock second hand)coming to a stopthump (heavy, muffled knock noise)	
on accelerationI tick (like a clock second hand)coming to a stopI thump (heavy, muffled knock noise)	
coming to a stop	
on turns: left, right or either (circle) 🛛 buzz (like a bumble bee)	
with passengers or cargo	
other:	
after driving miles or minutes	
D BE COMPLETED BY DEALERSHIP PERSONNEL est Drive Notes: 	
performing	
performing	
performing chicle test driven with customer Noise verified on test drive	
performing whicle test driven with customer Noise verified on test drive	
performing	
performing whicle test driven with customer Image: Constant of the second se	
Phicle test driven with customer Image: Constraint of the second sec	

< PRECAUTION > PRECAUTION PRECAUTIONS FOR MEXICO

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

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

FOR MEXICO : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

- 1. Connect both battery cables.
 - NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- 6. Perform a self-diagnosis check of all control units using CONSULT-III.

FOR MEXICO : Precaution for Work

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

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

FOR USA AND CANADA

INT-8

2009 Rogue

INFOID:000000004235229

PRECAUTIONS

< PRECAUTION >

FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

FOR USA AND CANADA : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock INT mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before K starting the repair operation.

OPERATION PROCEDURE

- Connect both battery cables.
 NOTE: Supply power using jumper cables if battery is discharged.
- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- 6. Perform a self-diagnosis check of all control units using CONSULT-III.

FOR USA AND CANADA : Precaution for Work

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

INFOID:000000004235232

А

Н

L

Ν

PREPARATION

< PREPARATION >

PREPARATION PREPARATION

Special Service Tools

INFOID:000000004235233

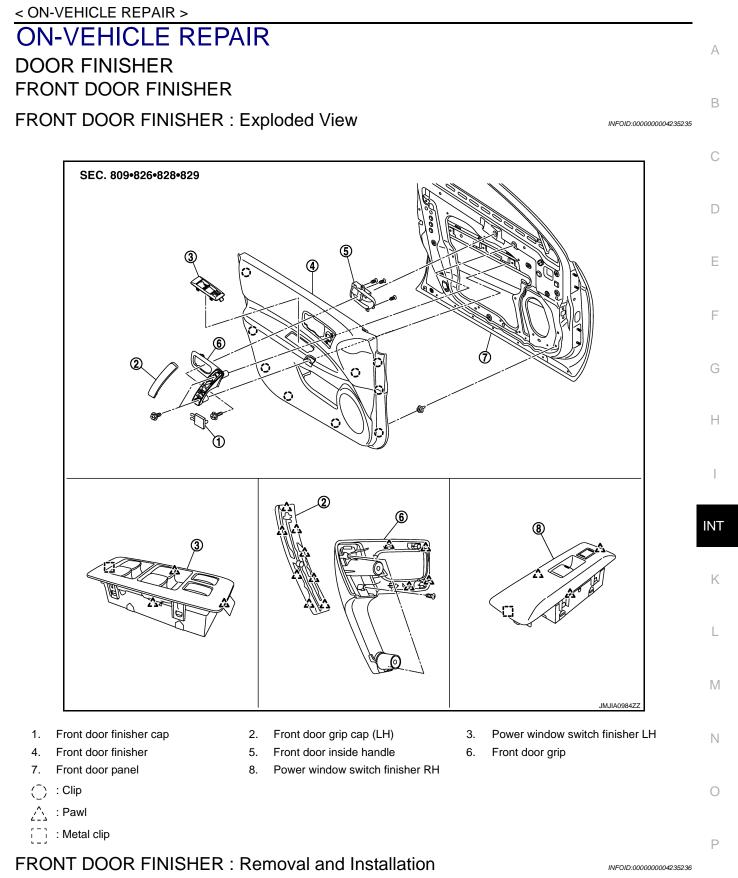
The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
(J-39570) Chassis ear	SIIA0993E	Locates the noise
(J-43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise
Commercial Service Tools		INFOID:00000004235234
Tool name		Description
Engine ear	SIIA0995E	Locates the noise
	e M	

Remover tool

JA & JA J

Removes clips, pawls and metal clips



CAUTION:

- Wrap the tip of flat-bladed screwdriver with a cloth before removal.
- When removing, always use a remover tool that is made of plastic.

REMOVAL

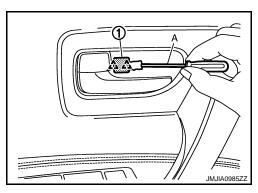
< ON-VEHICLE REPAIR >

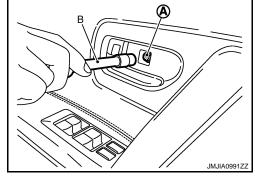
- 1. Fully open front door window.
- 2. Remove front door finisher cap (1) with wrapped flat-bladed screwdriver (A).
 - کے : Pawl

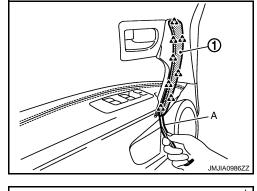
3. Remove bolt (A) located on the back side of door finisher cap using a socket wrench (B).

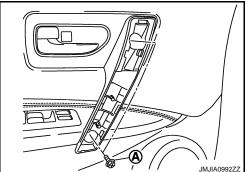
- 4. Insert a remover tool (A) at the bottom edge of front door grip cap (1) to remove the front door grip cap.
 - :Pawl

5. Remove both screws (A) holding front door grip in place.





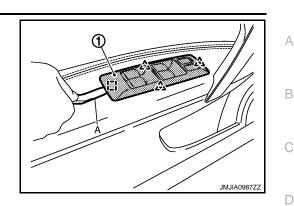




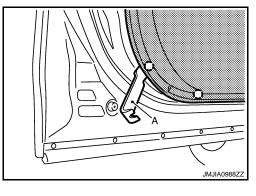
< ON-VEHICLE REPAIR >

- 6. Pull up power window switch finisher (1) with remover tool (A).
 - : Pawl 2. : Metal clip

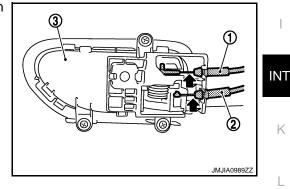
() : Clip



- 7. Disconnect power window switch connector, and then remove power window switch finisher.
- 8. Insert remover tool (A) between door finisher and door panel to disengage door finisher mounting clips, starting from the bottom and working to the top.



- 9. Pull up front door finisher and pull out.
- 10. Disconnect lock knob cable (1) and inside handle cable (2) from front door inside handle (3).



- 11. Remove front door finisher.
- 12. Remove the following parts after removing front door finisher.
 - Inside handle. Refer to DLK-253, "INSIDE HANDLE : Exploded View".
 - Front door grip.

INSTALLATION

Install in the reverse order of removal. CAUTION:

When installing door finisher, check that clips are securely fitted in panel holes on body, and then press them in.

REAR DOOR FINISHER



Ε

F

Н

L

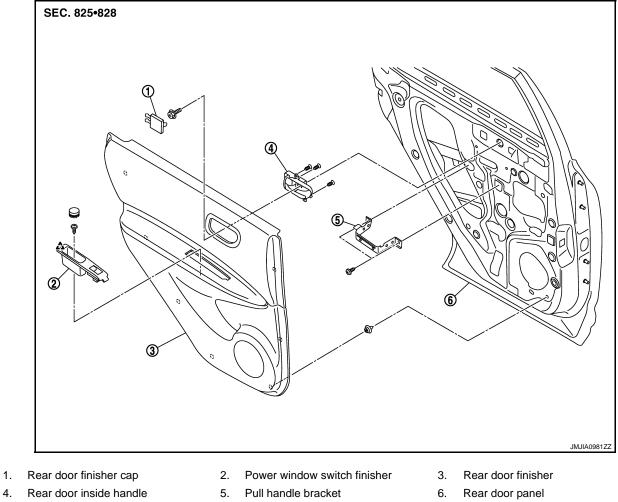
Μ

Ν

< ON-VEHICLE REPAIR >

REAR DOOR FINISHER : Exploded View

INFOID:000000004235237



: Clip ()

4.

∠____: Pawl

REAR DOOR FINISHER : Removal and Installation

CAUTION:

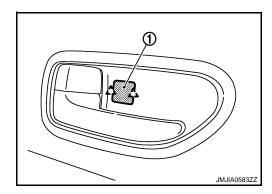
• Wrap the tip of flat-bladed screwdriver with a cloth before removal.

• When removing, always use a remover tool that is made of plastic.

REMOVAL

- Fully open rear door window. 1.
- 2. Remove rear door finisher cap (1).





INFOID:000000004235238

< ON-VEHICLE REPAIR >

3. Remove bolt (A) located on the back side of door finisher cap using socket wrench (B).

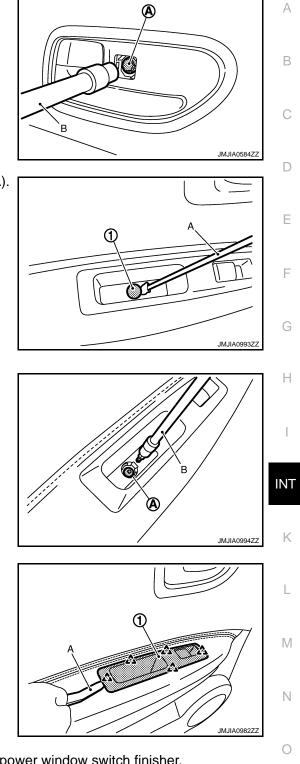
4. Remove screw cap (1) with wrapped flat-bladed screwdriver (A).

Remove TORX screw (A) with tool (B).

- 6. Pull up power window switch finisher (1) with remover tool (A).
 - کے : Pawl

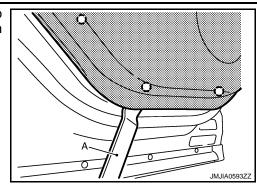
5.

7. Disconnect power window switch connector, and then remove power window switch finisher.

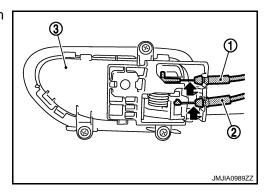


< ON-VEHICLE REPAIR >

- 8. Insert remover tool (A) between door finisher and door panel to disengage door finisher mounting clips, starting from the bottom and working to the top.
 - (_) : Clip



- 9. Pull up rear door finisher and pull out.
- 10. Disconnect lock knob cable (1) and inside handle cable (2) from rear door inside handle (3).



- 11. Remove rear door finisher.
- 12. Remove the following parts after removing rear door finisher.
 - Rear door inside handle. Refer to <u>DLK-259, "INSIDE HANDLE : Exploded View"</u>.
 - Pull handle bracket

INSTALLATION

Install in the reverse order of removal.

CAUTION:

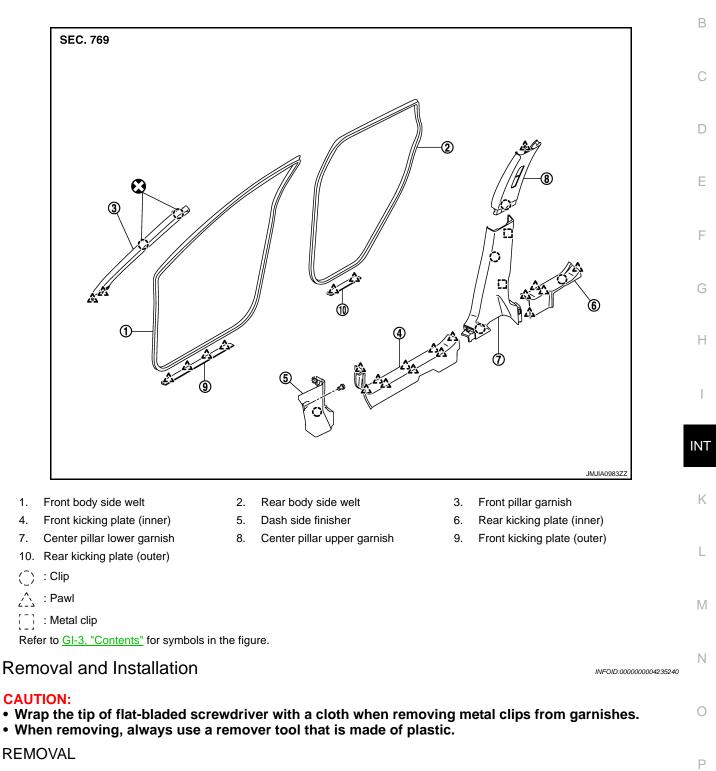
When installing door finisher, check that clips are securely fitted in panel holes on body, and then press them in.

< ON-VEHICLE REPAIR > BODY SIDE TRIM

Exploded View

INFOID:000000004235239

А



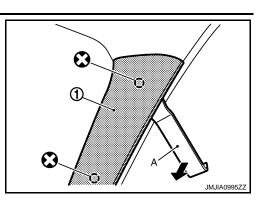
FRONT PILLAR GARNISH

1. Remove front body side welt partially.

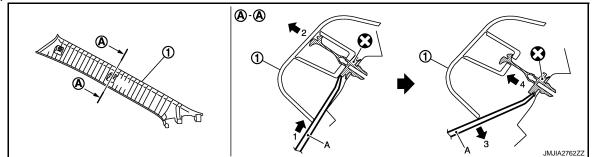
BODY SIDE TRIM

< ON-VEHICLE REPAIR >

- Disengage front pillar garnish (1) fixing clip using remover tool (A).
 - (_) : Clip



- 3. Pull the front pillar garnish partially toward the vehicle.
- 4. Insert the remover tool (A) between the front pillar garnish bottom side and body side to disengage the clip.

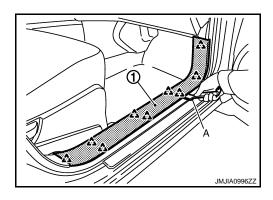


- 5. Once free, pull front pillar garnish upwards and use a cutter knife to cut both clips.
- 6. Remove front pillar garnish (1).

FRONT KICKING PLATE INNER

- 1. Disengage the pawls with remover tool (A) from the body.
- 2. Remove front kicking plate inner (1).

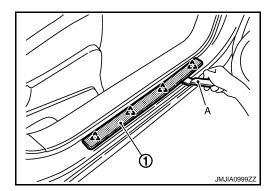
: Pawl



FRONT KICKING PLATE OUTER

- 1. Disengage the pawls from the body with remover tool (A).
- 2. Remove front kicking plate outer (1)

2 : Pawl



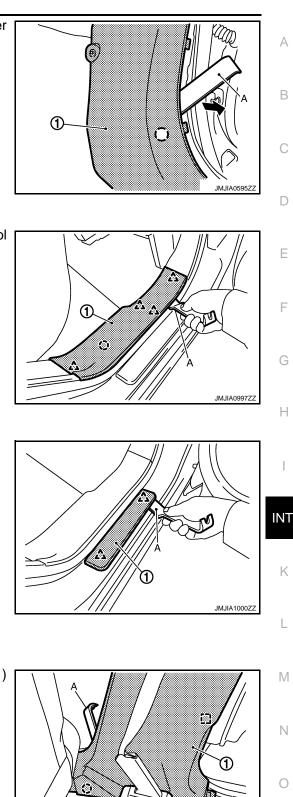
DASH SIDE FINISHER

- 1. Remove front kicking plate inner.
- 2. Remove dash side finisher fixing nut.

BODY SIDE TRIM

< ON-VEHICLE REPAIR >

- 3. Disengage dash side finisher (1) mounting clip using remover tool (A).
- 4. Remove dash side finisher.
 - ([^]) : Clip



REAR KICKING PLATE INNER

- Disengage the pawls and clip from the body with remover tool (A).
- 2. Remove rear kicking plate inner (1).



2 : Pawl

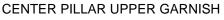
REAR KICKING PLATE OUTER

- 1. Disengage the pawls from the body with remover tool (A).
- 2. Remove rear kicking plate outer (1).

∴ : Pawl

CENTER PILLAR LOWER GARNISH

- 1. Remove front kicking plate inner and rear kicking plate inner.
- Insert remover tool (A) between center pillar lower garnish (1) and body side panel to disengage clips.
- 3. Remove center pillar lower garnish.
 - (`) : Clip
 [`] : Metal clip



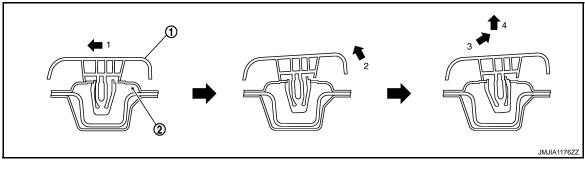
- 1. Remove partially front and rear body side welt.
- 2. Remove front kicking plate inner and rear kicking plate inner.
- 3. Remove center pillar lower garnish.

JMJIA099877

BODY SIDE TRIM

< ON-VEHICLE REPAIR >

- 4. Remove front seat belt shoulder anchor. Refer to <u>SB-6. "SEAT BELT RETRACTOR : Removal and Instal-</u> lation".
- 5. Pull center pillar upper garnish from inside passenger room, disengage clips as shown in the figure, and remove garnish from vehicle.



1. Center pillar upper garnish

2. Center pillar panel

INSTALLATION

Install in the reverse order of removal.

CAUTION:

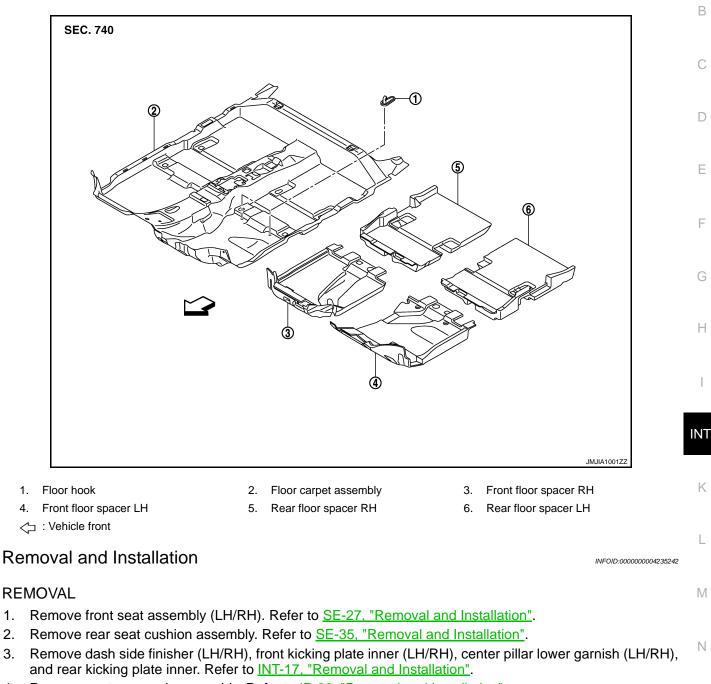
When installing body side trim, check that clips are securely fitted in panel holes on body, and then press them in.

< ON-VEHICLE REPAIR > **FLOOR TRIM**

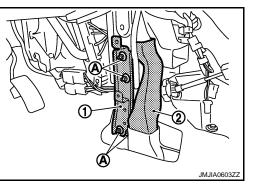
Exploded View

INFOID:000000004235241

А



- Remove center console assembly. Refer to IP-20, "Removal and Installation". 4.
- Remove console bracket mounting nuts (A), and then remove 5. console bracket LH (1).
- 6. Remove front foot duct LH (2) (with rear foot duct). Refer to VTL-13, "FRONT FOOT DUCT : Removal and Installation".



2.

3.

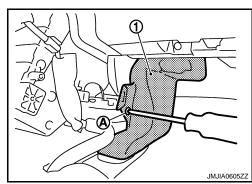
2009 Rogue

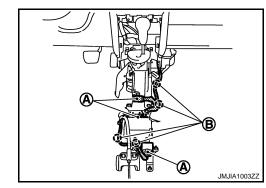
0

FLOOR TRIM

< ON-VEHICLE REPAIR >

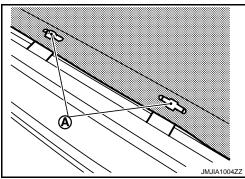
 Remove screw (A), and then remove front foot duct RH (1) (with rear foot duct model). Refer to <u>VTL-14, "REAR FOOT DUCT 1 : Removal and Installation"</u>.



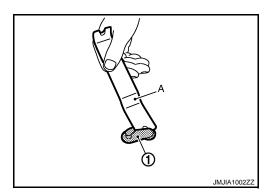


- 8. Disconnect harness connectors (A). Remove floor harness mounting clips (B).
 - (_) : Clip

- Remove CVT control device assembly. Without manual mode: Refer to <u>TM-176. "WITHOUT MANUAL MODE : Removal and Installation"</u>. With manual mode: Refer to <u>TM-179. "WITH MANUAL MODE : Removal and Installation"</u>.
- 10. Remove parking brake control cable. Refer to PB-6, "Removal and Installation".
- 11. Remove diagnosis sensor unit. Refer to <u>SR-18, "Removal and Installation"</u>.
- 12. Remove floor carpet from fixing clips (A), and then remove floor carpet.



- 13. Remove the following part after removing floor carpet.
 - Floor hooks (1) with remover tool (A).
 - Front floor spacer (LH/RH)
 - Rear floor spacer (LH/RH)



INSTALLATION Install in the reverse order of removal.

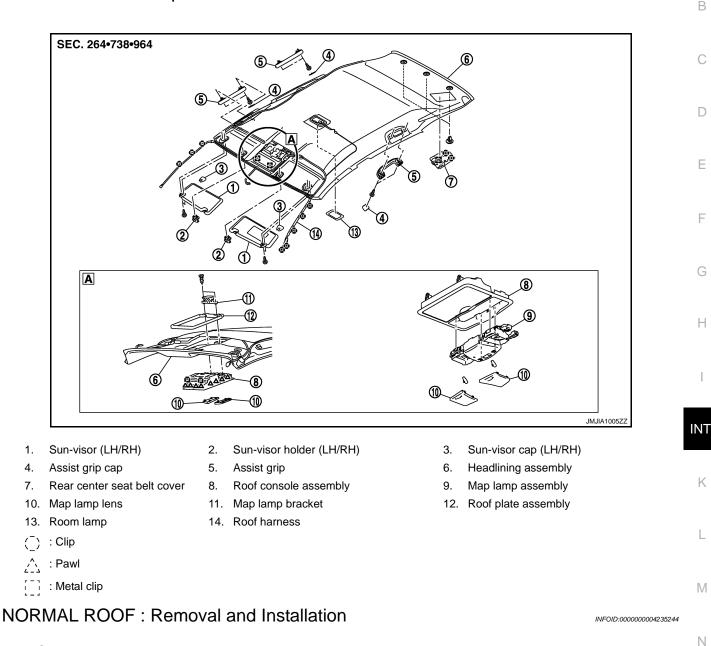
< ON-VEHICLE REPAIR >

HEADLINING NORMAL ROOF

NORMAL ROOF : Exploded View

INFOID:000000004235243

А

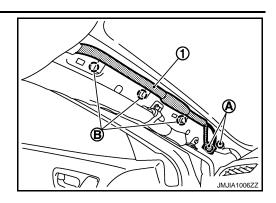


REMOVAL

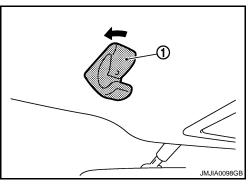
- 1. Remove rear seat cushion and seat back. Refer to SE-35, "Removal and Installation".
- 2. Remove rear seat belt anchor bolt (LH/RH). Refer to <u>SB-11, "SEAT BELT RETRACTOR : Exploded View"</u>.
- Remove front seat belt anchor bolt (LH/RH). Refer to <u>SB-6, "SEAT BELT RETRACTOR : Exploded View"</u>.
- 4. Remove luggage side lower finisher (LH/RH), luggage side upper finisher (LH/RH). Refer to <u>INT-31, "Removal and Installation"</u>.
- 5. Remove front pillar garnish (LH/RH), front kicking plate (LH/RH), center pillar lower garnish (LH/RH), center pillar upper garnish (LH/RH), front body side welt (LH/RH), rear body side welt (LH/RH), rear kicking plate (LH/RH). Refer to INT-17, "Removal and Installation".

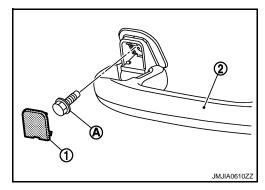
< ON-VEHICLE REPAIR >

- 6. Disconnect roof harness connectors (A) (LH/RH).
- 7. Remove harness clips (B) of roof harness (1) (LH/RH).
 - () : Clip



- 8. Remove sun-visor (LH/RH).
 - Remove sun-visor cap.
 - Remove mounting screws.
 - Disconnect vanity mirror lamp harness connector. (with Vanity mirror lamp)
- 9. Rotate 45 degrees and remove sun-visor holder (1) (LH/RH).

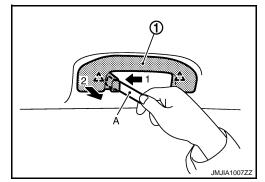




- 10. Remove front assist grip and rear assist grip (2).• Remove assist grip cap (1).
 - Remove assist grip mounting bolts (A).

• Remove assist grip (1) with remover tool (A) and then pull back assist grip.





11. Recline front seat back to facilitate the headlining removal.

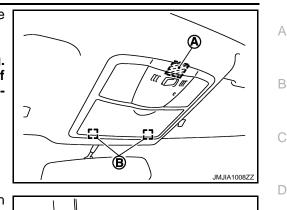
< ON-VEHICLE REPAIR >

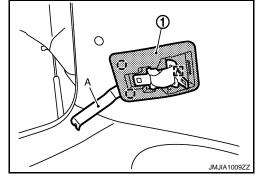
12. Pull roof console assembly toward vehicle lower, and disengage dual-lock fastener (A) and metal clips (B). CAUTION:

Roof console assembly is crimped from back of headlining. Remove it by disengaging the crimped area of back of roof console assembly after removing headlining from the vehicle.

: Metal clip

- 13. Disengage rear center seat belt cover clips and metal clip with remover tool (A), then remove rear center seat belt cover (1).
 - : Clip : Metal clip





Ε

F

Κ

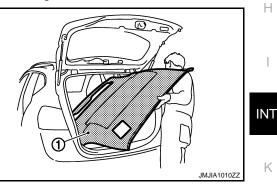
L

Μ

Ν

Ρ

- Using remover tool, remove headlining clips at the back side of headlining.
- 15. Remove headlining (1) from back door. **CAUTION:**
 - When removing, 2 workers are required.
 - Never bend headlining when removing.
 - · Be careful not to scratch or damage any part of the body while taking out the headlining.



16. Remove the following parts after removing headlining.

Room lamp assembly. Refer to <u>INL-68, "Removal and Installation"</u>.

- · Roof console assembly.
- Sunglasses holder assembly.
- Roof harness assembly.

INSTALLATION

Install in the reverse order of removal.

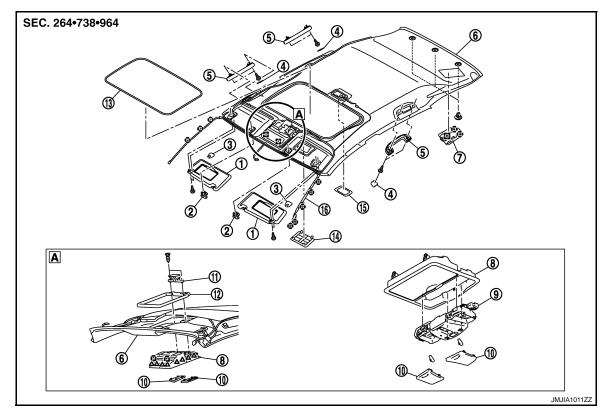
- CAUTION: As for guide, install sun-visor holder (LH/RH) then headlining hidden clips at the back side of headlinina.
- Be careful not to bend the headlining when installing.

SUNROOF

< ON-VEHICLE REPAIR >

SUNROOF : Exploded View

INFOID:000000004235245



3.

6.

9.

Sun-visor cap (LH/RH)

Headlining assembly

Map lamp assembly

12. Roof plate assembly

15. Room lamp

- 1. Sun-visor (LH/RH)
- Assist grip cap 4.
- Rear center seat belt cover 7.
- 10. Map lamp lens
- 13. Sunroof welt
- 16. Roof harness
- : Clip $(\overline{})$
- : Pawl $\hat{\Delta}$
- : Metal clip

SUNROOF: Removal and Installation

2.

5.

8.

REMOVAL

Remove rear seat cushion and seat back. Refer to SE-35, "Removal and Installation".

Sun-visor holder (LH/RH)

Roof console assembly

Assist grip

14. Roof finisher

11. Map lamp bracket

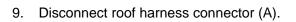
- 2. Remove rear seat belt anchor bolt (LH/RH). Refer to <u>SB-11, "SEAT BELT RETRACTOR : Exploded View"</u>.
- 3. Remove front seat belt anchor bolt (LH/RH). Refer to <u>SB-6, "SEAT BELT RETRACTOR : Exploded View"</u>.
- 4. Remove luggage side lower finisher (LH/RH), luggage side upper finisher (LH/RH). Refer to INT-31, "Removal and Installation".
- 5. Remove front pillar garnish (LH/RH), front kicking plate inner (LH/RH), center pillar lower garnish (LH/RH), center pillar upper garnish (LH/RH), front body side welt (LH/RH), rear body side welt (LH/RH), rear kicking plate inner (LH/RH). Refer to INT-17, "Removal and Installation".

INFOID:000000004235246

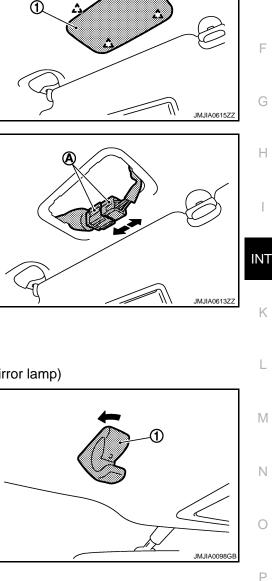
< ON-VEHICLE REPAIR >

- 6. Disconnect roof harness connectors (A) (LH/RH).
- 7. Remove harness clips (B) of roof harness (1) (LH/RH).
 - (_) : Clip

- 8. Remove roof finisher (1) with remover tool (A).
 - 2 : Pawl



- 10. Remove sun-visor (LH/RH).
 - Remove sun-visor cap
 - Remove mounting screws.
 - Disconnect vanity mirror lamp harness connector. (with Vanity mirror lamp)
- 11. Rotate 45 degrees and remove sun-visor holder (1) (LH/RH).



 \mathbb{R}

А

В

С

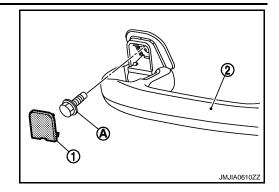
D

Е

JMJIA1006ZZ

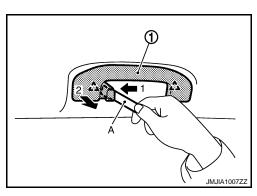
< ON-VEHICLE REPAIR >

- 12. Remove front assist grip and rear assist grip (2).
 - Remove assist grip cap (1).
 - Remove assist grip mounting bolts (A).



• Remove assist grip (1) with remover tool (A) and then pull back assist grip.

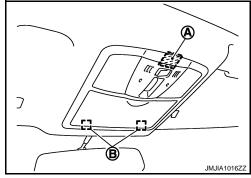
2 : Pawl

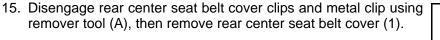


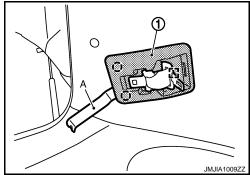
- 13. Recline front seat back to facilitate the headlining removal.
- Pull roof console assembly toward vehicle lower, and disengage dual-lock fastener (A) and metal clips (B).
 CAUTION:

Roof console assembly is crimped from back of headlining. Remove it by disengaging the crimped area of back of roof console assembly after removing headlining from the vehicle.

: Metal clip





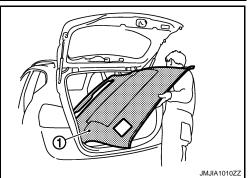


16. Using remover tool, remove headlining clips at the back side of headlining.

< ON-VEHICLE REPAIR >

- 17. Remove headlining (1) from back door. **CAUTION:**
 - When removing, 2 workers are required.

 - Do not bend headlining when removing.
 Be careful not to scratch or damage any part of the body while taking out the headlining.



 18. Remove the following parts after removing headlining. Room lamp assembly. Refer to <u>INL-68, "Removal and Installation"</u>. Roof console assembly. Sunglasses holder assembly. Sunroof welt. Roof harness assembly.
INSTALLATION
Install in the reverse order of removal.
CAUTION:
 As for guide, install sun-visor holder (LH/RH) then headlining hidden clips at the back side of head- lining.
 Be careful not to bend the headlining when installing.

INT

А

В

С

D

Ε

F

G

Н

L

Μ

Ν

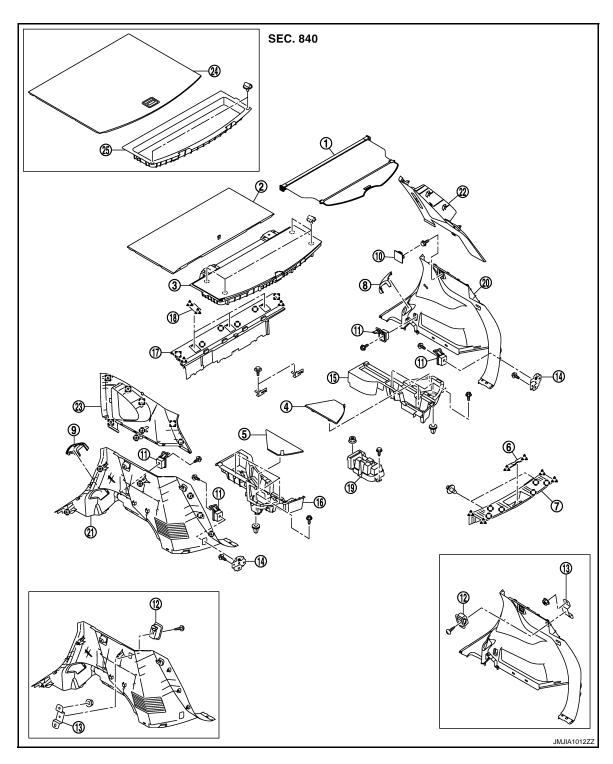
Ο

< ON-VEHICLE REPAIR >

LUGGAGE FLOOR TRIM

Exploded View

INFOID:000000004235247



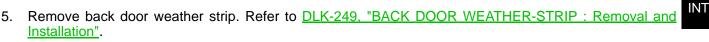
- 1. Tonneau cover assembly
- 4. Luggage floor side board RH
- 7. Luggage rear plate
- 10. Tonneau cap RH
- 13. Luggage trim bracket
- 2. Luggage floor center board (for SL)
- 5. Luggage floor side board LH
- 8. Luggage finisher mask RH
- 11. Rope hook
- 14. Luggage side lower bracket
- 3. Luggage floor box (for SL)
- 6. Luggage rear plate mask
- 9. Luggage finisher mask LH
- 12. Rear door hock
- 15. Luggage floor spacer assembly (FR/ RH)

LUGGAGE FLOOR TRIM

< ON-VEHICLE REPAIR > 18. Child anchor cover 16. Luggage floor spacer assembly (FR/ 17. Luggage floor center finisher LH) 19. Luggage floor spacer RH 20. Luggage side lower finisher RH 21. Luggage side lower finisher LH 22. Luggage side upper finisher RH 23. Luggage side upper finisher LH 24. Luggage floor center board (for S) 25. Luggage floor box (for S) : Clip $\langle \bar{} \rangle$ 八:Pawl : Metal clip Removal and Installation REMOVAL

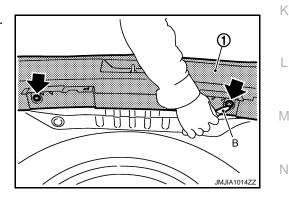
LUGGAGE REAR PLATE

- 1. Fully open back door.
- Remove tonneau cover assembly (with tonneau cover assembly).
- Remove luggage floor center board.
- 4. Turn the clips to disengage luggage floor box, then remove luggage floor box.



- 6. Remove luggage rear plate mask with remover tool.
- Remove luggage rear plate (1) fixing clips with remover tool (B). 7.

: Clip



 \odot

8. Hold both sides of luggage rear plate, pull upwards to remove.

LUGGAGE SIDE LOWER FINISHER

- 1. Remove tonneau cover assembly then remove tonneau cap and bolt (with tonneau cover assembly).
- 2. Remove rear kicking plate inner and rear body side welt. Refer to INT-17, "Removal and Installation".
- Remove rear seat back and rear seat cushion. Refer to <u>SE-35, "Removal and Installation".</u>
- Remove luggage floor center board.
- Remove luggage floor box.
- 6. Remove luggage rear plate.
- 7. Remove luggage floor side board.
- 8. Remove luggage floor spacer assembly (FR).

INT-31

2009 Rogue

А

В

D

Е

F

Н

Ρ

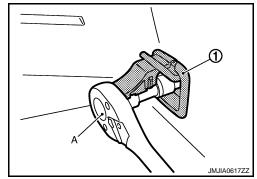
JMJIA1013ZZ

INFOID:000000004235248

LUGGAGE FLOOR TRIM

< ON-VEHICLE REPAIR >

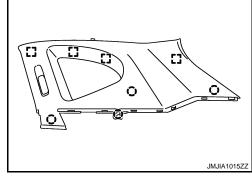
- 9. Remove luggage floor center finisher.
- 10. Disengage rope hook mounting bolt caps, and remove rope hook mounting bolts with socket wrench (A), and then remove rope hooks (1) (front/rear).



- 11. Remove rear door hook (with rear door hook).
- 12. Remove luggage side lower finisher fixing clips and metal clips with remover tool.
- 13. Remove luggage side lower finisher.

LUGGAGE SIDE UPPER FINISHER

- 1. Remove luggage side lower finisher. Refer to INT-31, "Removal and Installation".
- 2. Remove rear seat belt anchor bolt (upper). Refer to <u>SB-11, "SEAT BELT RETRACTOR : Exploded View"</u>.
- Remove luggage side upper finisher clips and metal clips with remover tool.
 - (`) : Clip
 [`] : Metal clip



4. Remove luggage side upper finisher.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

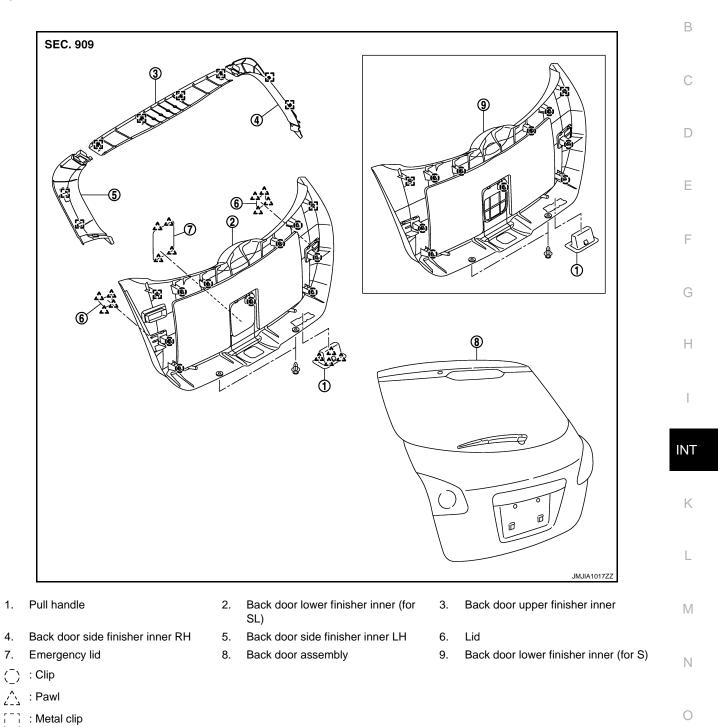
Check that clips, pawls, metal clips are securely fitted in panel holes on body when installing, and then press them in.

< ON-VEHICLE REPAIR > BACK DOOR TRIM

Exploded View

INFOID:000000004235249

А



INFOID:000000004235250

Ρ

BACK DOOR LOWER FINISHER INNER

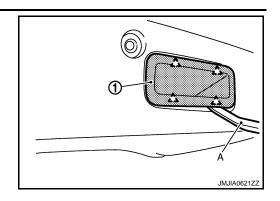
1. Fully open back door.

Removal and Installation

BACK DOOR TRIM

< ON-VEHICLE REPAIR >

- 2. Disengage pull handle (1) fixing pawls with remover tool (A).
 - 2 : Pawl



3. Push the clip center with a wrapped flat-blade screwdriver (B), the remove clip (A).

 Insert remover tool (A) between back door lower finisher inner (1) and back door panel to disengage clips. NOTE:

Starting from the lower downwards and works around the edges and up to the sides.

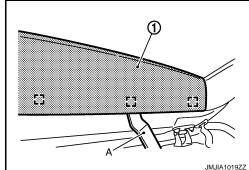
([^]) : Clip

- 5. Pull out back door lower finisher inner.
- 6. Disconnect luggage room lamp connector (with luggage room lamp).
- 7. Remove back door lower finisher inner.
- 8. Remove the following parts after removing back door lower finisher inner.
 - Luggage room lamp assembly (with luggage room lamp). Refer to <u>INL-70, "Removal and Installation"</u>.
 Back door lids.

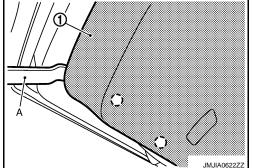
BACK DOOR UPPER FINISHER INNER

- 1. Fully open back door.
- Insert remover tool (A) between back door upper finisher inner (1) and back door panel to disengage clips.

: Metal clip



3. Remove back door upper finisher inner.



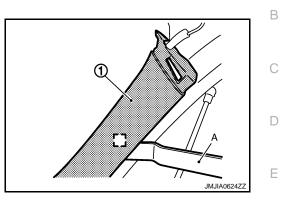
JMJIA1018ZZ

BACK DOOR TRIM

< ON-VEHICLE REPAIR >

BACK DOOR SIDE FINISHER INNER

- 1. Fully open back door.
- 2. Remove back door lower finisher inner.
- 3. Remove back door upper finisher inner.
- 4. Insert remover tool (A) between back door side finisher inner (1) and back door panel to disengage metal clips.
 - [] : Metal clip



5. Remove back door side finisher inner.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

When installing back door trim, check that clips are securely fitted in panel holes on body, and then press them in.

Н

F

А

INT

L

Μ

Ν

0