SECTION SE
SEAT

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000011461870

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

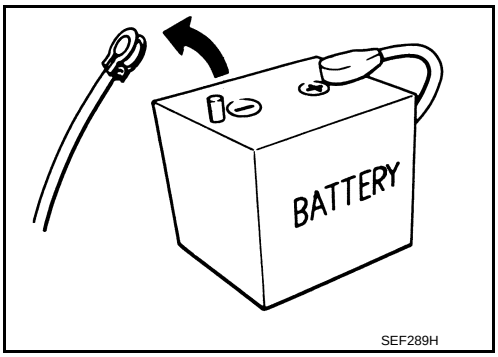
Always observe the following items for preventing accidental activation.

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

Precautions for Removing Battery Terminal

INFOID:0000000010503414

- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the intelligent key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing “How to disconnect 12V battery terminal” described below.
  NOTE:
  Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.



SEF289H

- 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.

HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to instruction described below.

1. Open the hood.
2. Turn ignition switch to the ON position.
3. Turn ignition switch to the OFF position with the driver side door opened.
4. Get out of the vehicle and close the driver side door.

5. Wait at least 3 minutes. For vehicle with the engine listed below, remove the battery terminal after a lapse of the specified time.

D4D engine	: 20 minutes
HRA2DDT	: 12 minutes
K9K engine	: 4 minutes
M9R engine	: 4 minutes
R9M engine	: 4 minutes
V9X engine	: 4 minutes

CAUTION:
While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

6. Remove 12V battery terminal.

CAUTION:
After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

Service Notice

INFOID:0000000010436318

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Precaution for Work

INFOID:0000000010436319

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

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

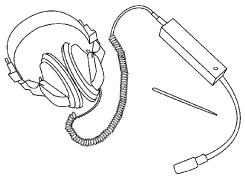
- Never use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

PREPARATION

Commercial Service Tool

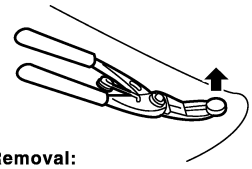
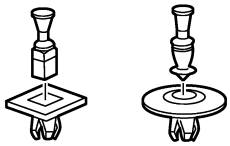
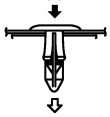
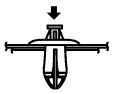
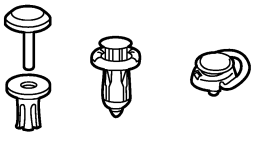
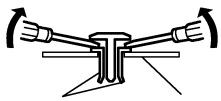
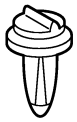
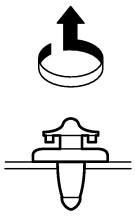
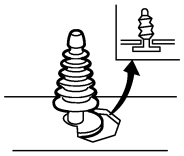
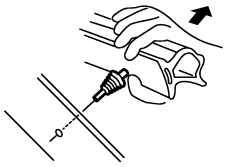
INFOID:0000000010436320

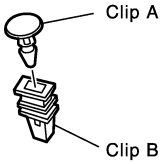
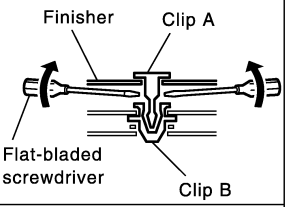
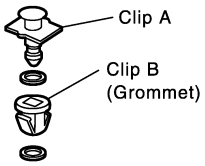
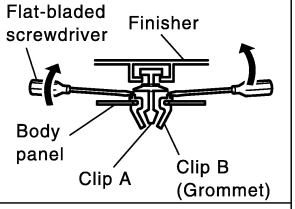
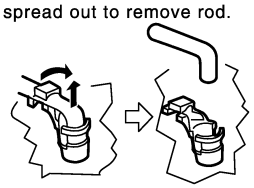
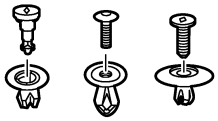
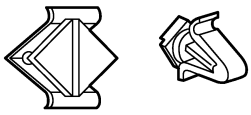
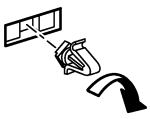
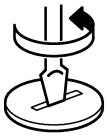
Tool name	Description
Engine ear  SIIA0995E	Locates the noise

CLIP LIST

Clip List

INFOID:0000000010436321

Shapes	Removal & Installation
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 
	 **Removal:** Remove with a clip remover.
	**Removal:** Push center pin to catching position. (Do not remove center pin by hitting it.) Push  **Installation:** Push 
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover.  Clip Finisher
	**Removal:** 
	**Removal:** 

Shapes	Removal & Installation
 Clip A Clip B	**Removal:**  Finisher Clip A Flat-bladed screwdriver Clip B
 Clip A Clip B (Grommet)	**Removal:**  Flat-bladed screwdriver Finisher Body panel Clip A Clip B (Grommet)
	**Removal:** Holder portion of clip must be spread out to remove rod. 
	**Removal:** 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 
	**Removal:**  Rotate 45° to remove.  **Removal:** **Installation:** 
	**Removal:** 

JMJIA3734GB

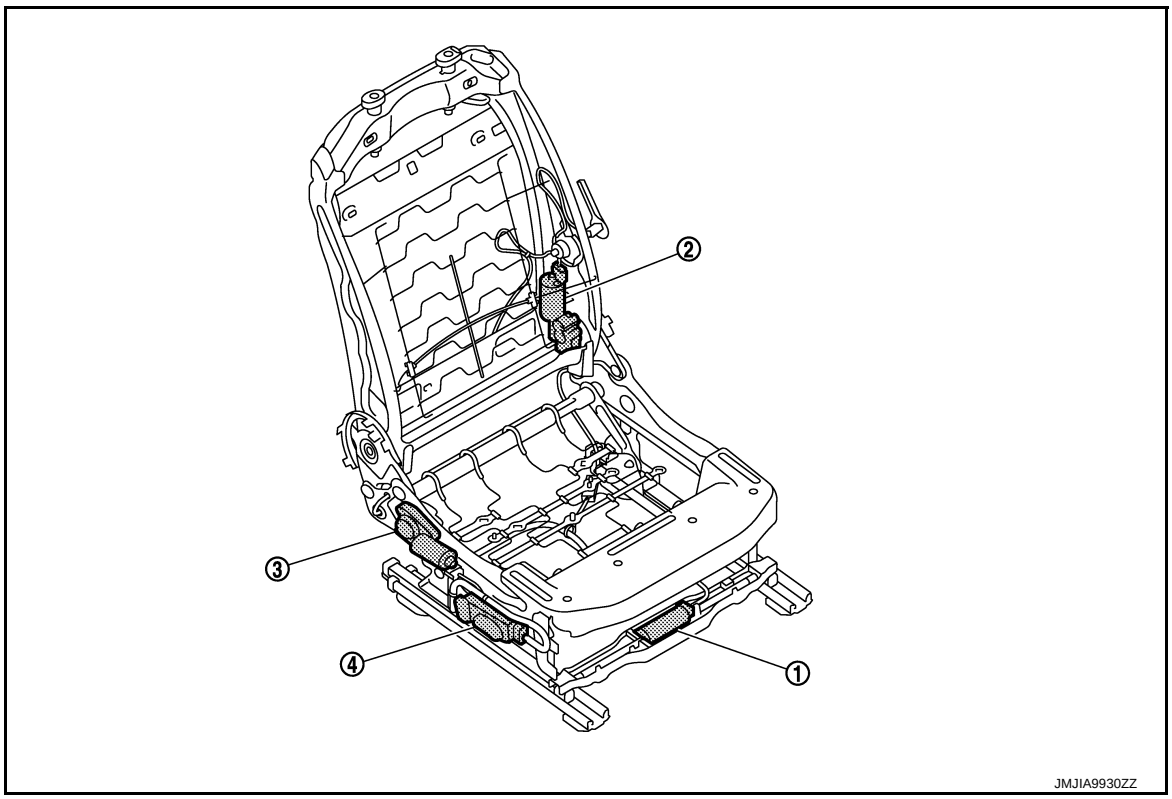
SYSTEM DESCRIPTION

COMPONENT PARTS

POWER SEAT SYSTEM

POWER SEAT SYSTEM : Component Parts Location

INFOID:0000000010436340



POWER SEAT SYSTEM : Component Description

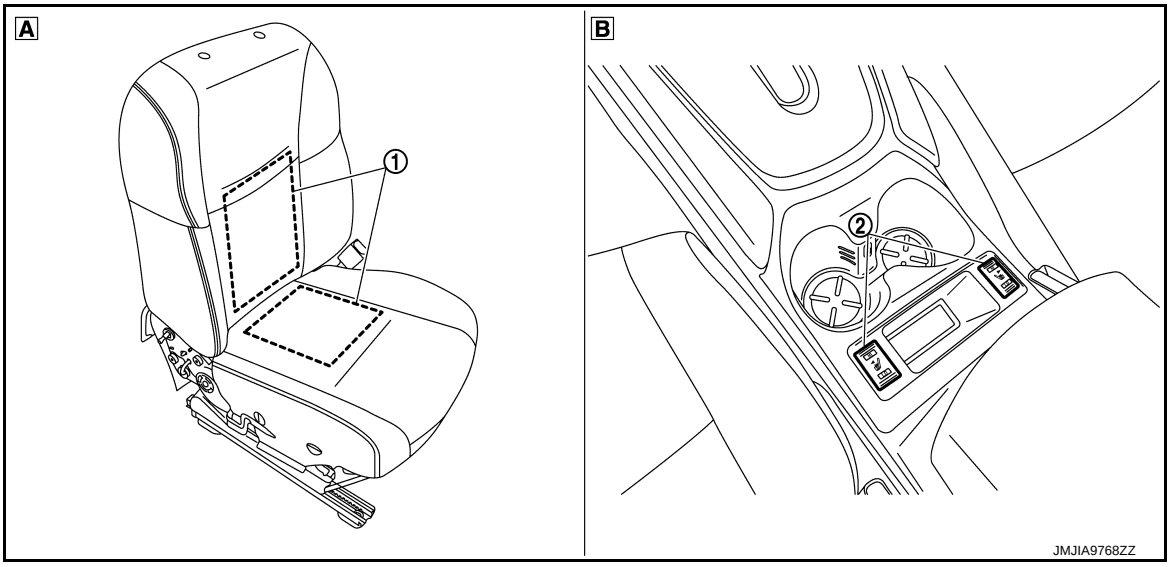
INFOID:0000000010436341

No.	Component	Function
①	Sliding motor	With the power supplied from power seat switch, operates the forward and backward slide of seat
②	Reclining motor	With the power supplied from power seat switch, operates the forward and backward movement of seatback
③	Lifting motor	With the power supplied from power seat switch, operates the up and down movement of seat cushion
④	Power seat switch	Built-in reclining switch, sliding switch and lifting switch, controls the power supplied to each motor

HEATED SEAT SYSTEM

HEATED SEAT SYSTEM : Component Parts Location

INFOID:0000000010436322



A The inside of front seat

B View with console switch panel

HEATED SEAT SYSTEM : Component Description

INFOID:0000000010436323

No.	Component	Function
①	Front seat heater (driver side/passenger side)	Front seat heater is located inside of front heated seat cushion and seat back, and operates with power source provided via front heated seat switch.
②	Front heated seat switch (driver side/passenger side)	Front heated seat switch changes ON/OFF operation and HI/LO operation, and supplies power source to front heated seats.

SYSTEM

POWER SEAT SYSTEM

POWER SEAT SYSTEM : System Description

INFOID:0000000010436339

Power seat switch can be operated regardless of the ignition switch position, because power supply is always supplied to power seat switch.

SLIDING OPERATION

While operating the sliding switch located in power seat switch, sliding motor operates and makes possible the seat front and back position adjustment.

RECLINING OPERATION

While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

LIFTING OPERATION

While operating the lifting switch located in power seat switch, lifting motor operates and makes possible the seat cushion up and down position adjustment.

HEATED SEAT SYSTEM

HEATED SEAT SYSTEM : System Description

INFOID:0000000010436324

Heated seat is a system that operates when ignition switch is in ON position.

HEATER OPERATION

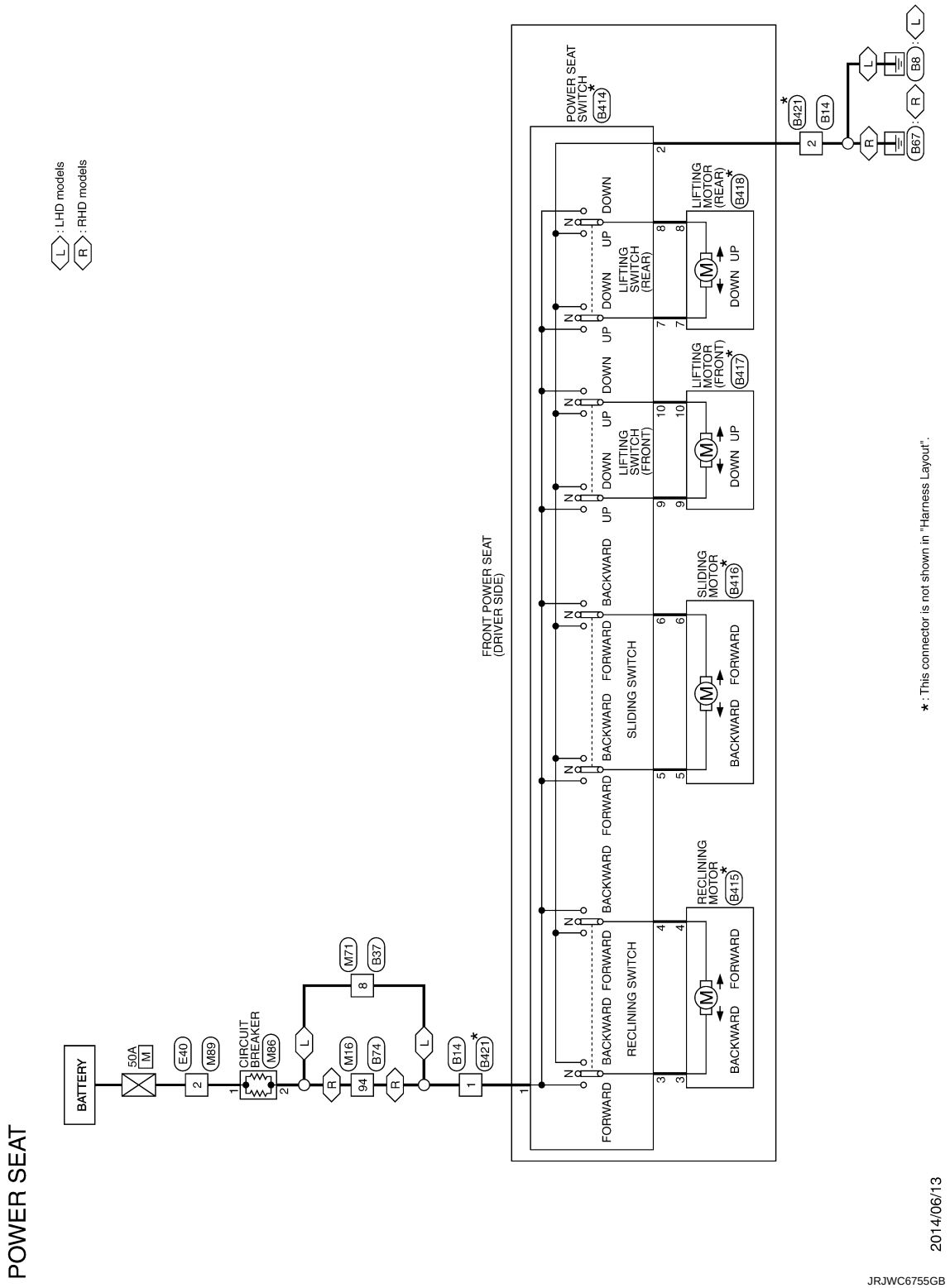
- When the heated seat switch is ON, seat heater and seat back heater operate.
- Temperature of seat can be adjusted by operating on heated seat switch.

WIRING DIAGRAM

POWER SEAT CONTROL SYSTEM

Wiring Diagram

INFOID:0000000010436342



POWER SEAT

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	NS04FBR-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	–
2	B	–

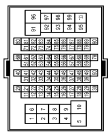
Connector No.	B37
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	V	–
4	G	–
6	G	–
8	P	–
9	P	–
10	R	–
11	L	–
12	W	–
13	R	–
14	L	–
15	BR	–
16	G	–

Connector No.	B74
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

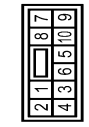
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	–
2	L	–
3	LG	–
4	P	–
9	SB	–
20	G	– [With gasoline engine]
20	L	– [With diesel engine]
21	B	–
24	G	– [With diesel engine]
24	R	– [With MR16 engine]
25	BR	
55	LG	–
66	GR	–
74	R	–
79	V	–
84	L	–
85	W	–
89	BG	– [With HR engine]
89	W	– [With diesel engine]
90	BR	– [With MR16 engine]
93	Y	–
94	P	–
98	L	–
99	LG	–
100	GR	– [With diesel engine]
100	R	– [With HR engine]
100	W	– [With MR16 engine]

Connector No.	B414
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	B	–
3	G/Y	–
4	P	–
5	W	–
6	V	–
7	L/Y	–
8	L	–
9	L/R	–
10	G/W	–

Connector No.	B415
Connector Name	RECLINING MOTOR
Connector Type	NS02FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	–	–
4	–	–

Connector No.	B416
Connector Name	SLIDING MOTOR
Connector Type	6098-0239

H.S.

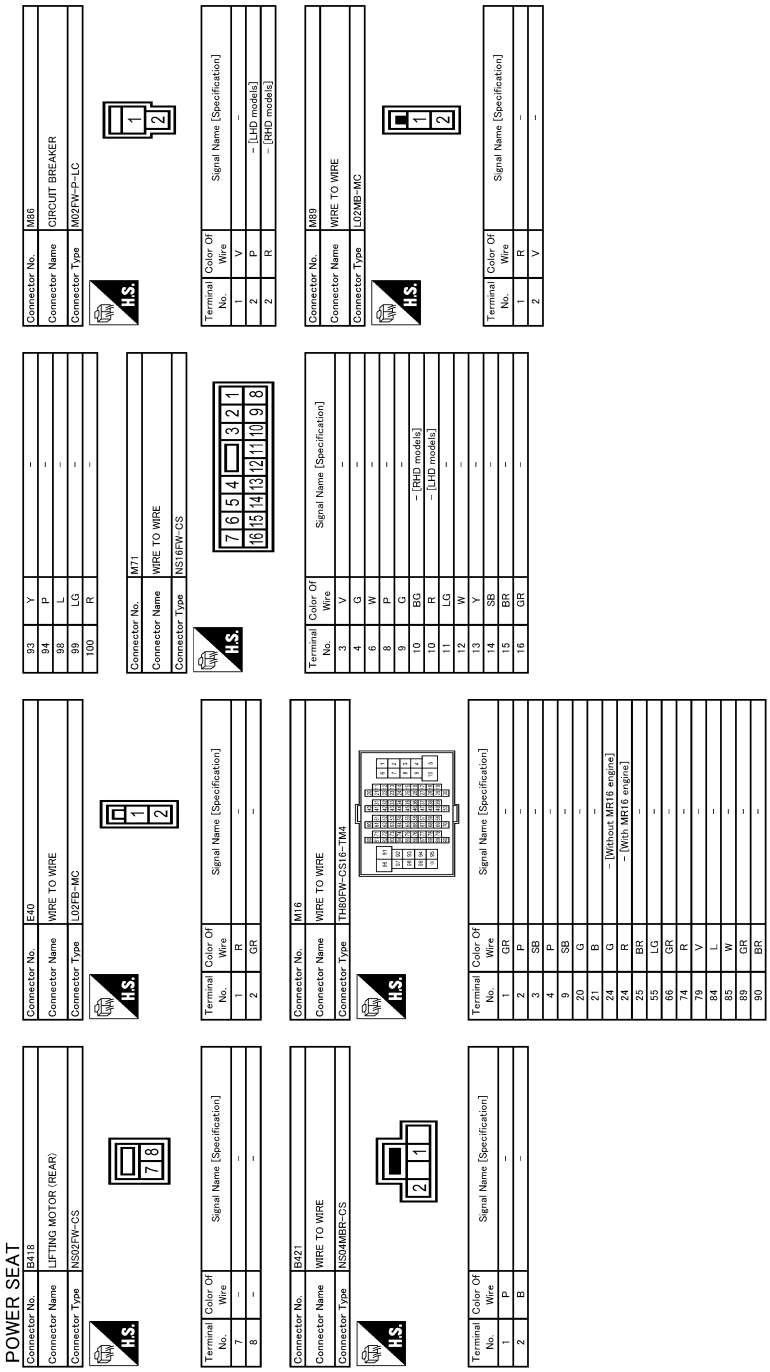
Terminal No.	Color Of Wire	Signal Name [Specification]
5	–	–
6	–	–

Connector No.	B417
Connector Name	LIFTING MOTOR (FRONT)
Connector Type	NS02FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
9	–	–
10	–	–

JRJWC9125GB



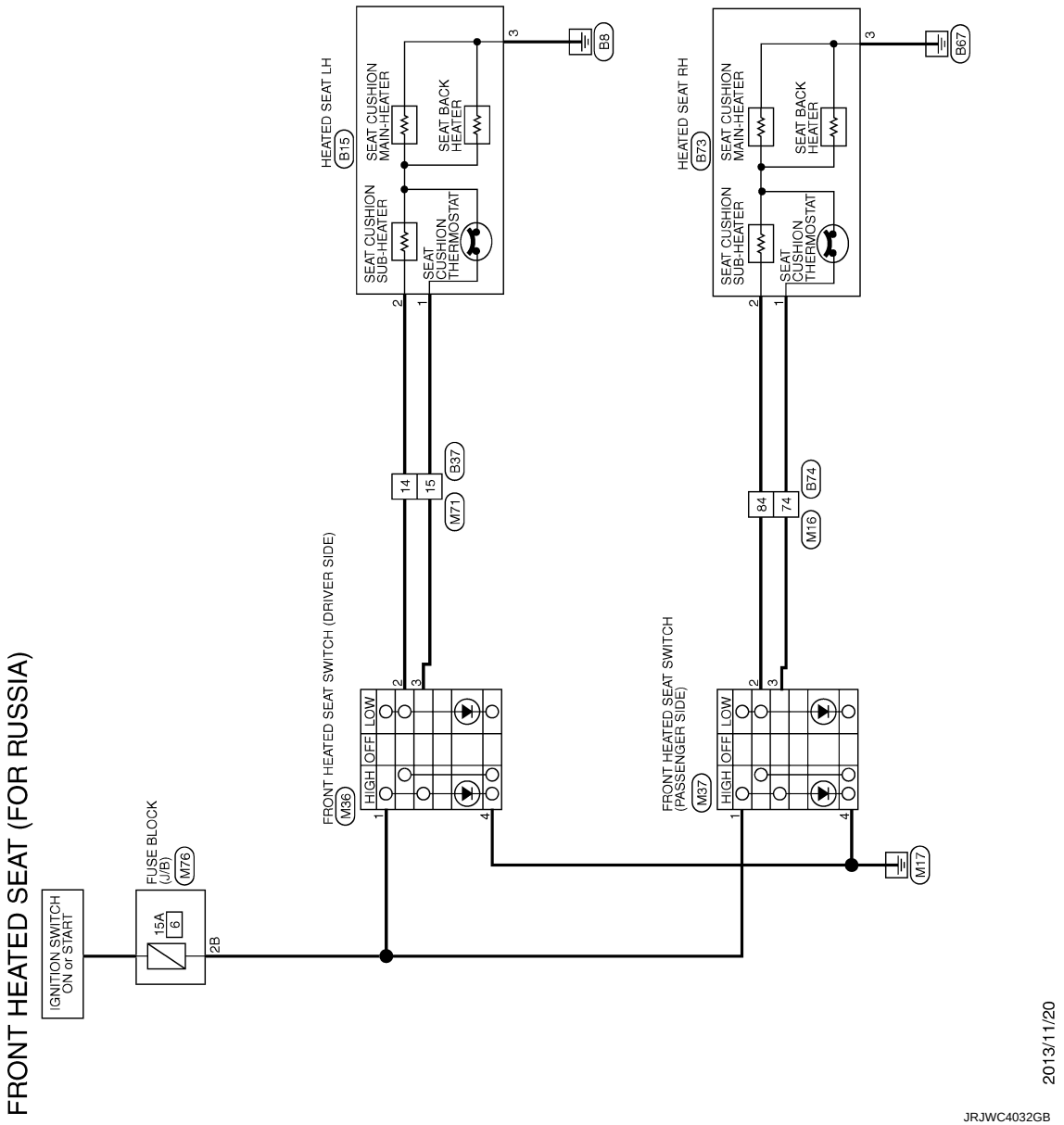
JRJWC9126GB

HEATED SEAT SYSTEM

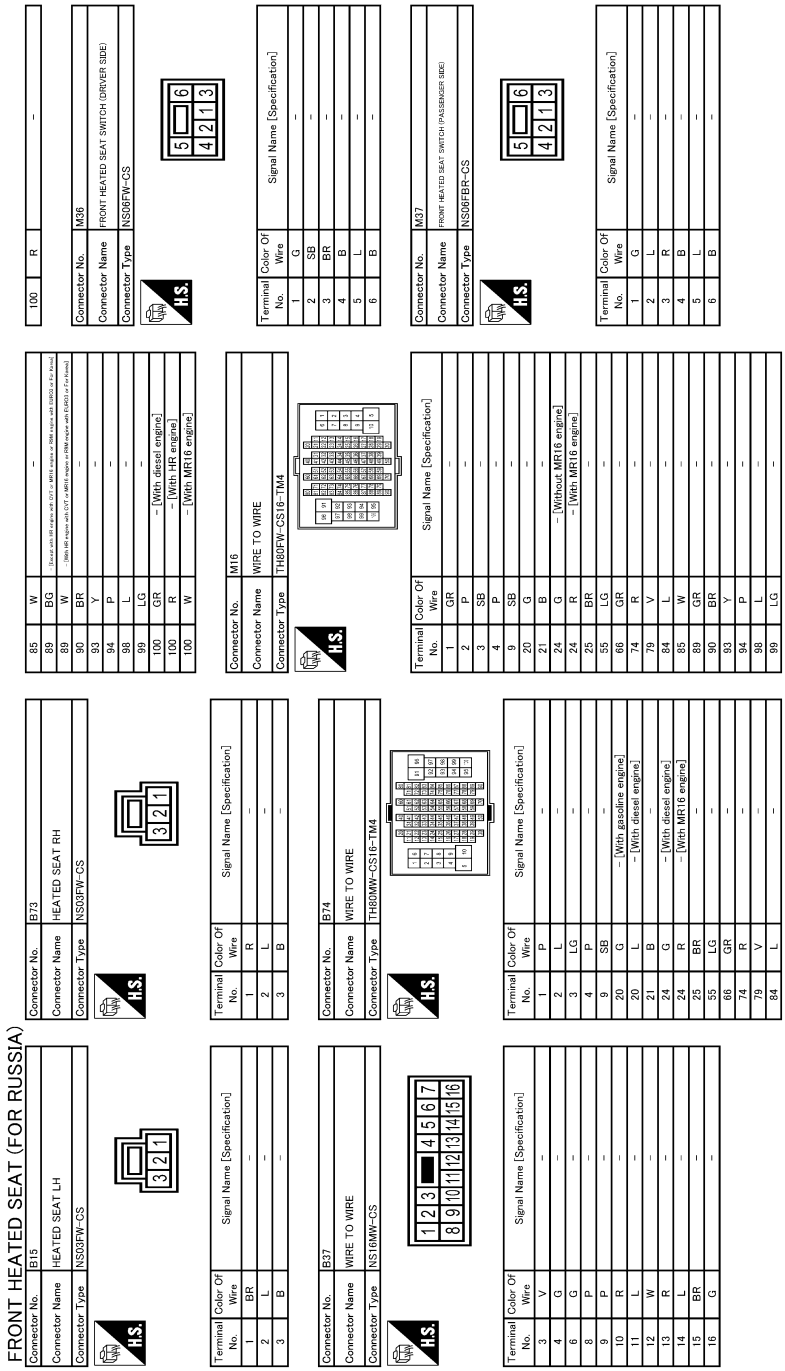
Wiring Diagram

INFOID:0000000010436325

FOR RUSSIA MODELS



FRONT HEATED SEAT (FOR RUSSIA)



JRJWC9127GB

FRONT HEATED SEAT (FOR RUSSIA)

Connector No.	M71
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

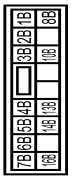
H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	V	–
4	G	–
6	W	–
8	P	–
9	G	–
10	BG	– [RHD models]
10	R	– [LHD models]
11	LG	–
12	W	–
13	Y	–
14	SB	–
15	BR	–
16	GR	–

4B	LG	–
5B	LG	–
6B	SB	–
7B	Y	–
8B	BG	– [Without ISS]
8B	GR	– [With ISS]

Connector No.	M76
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS

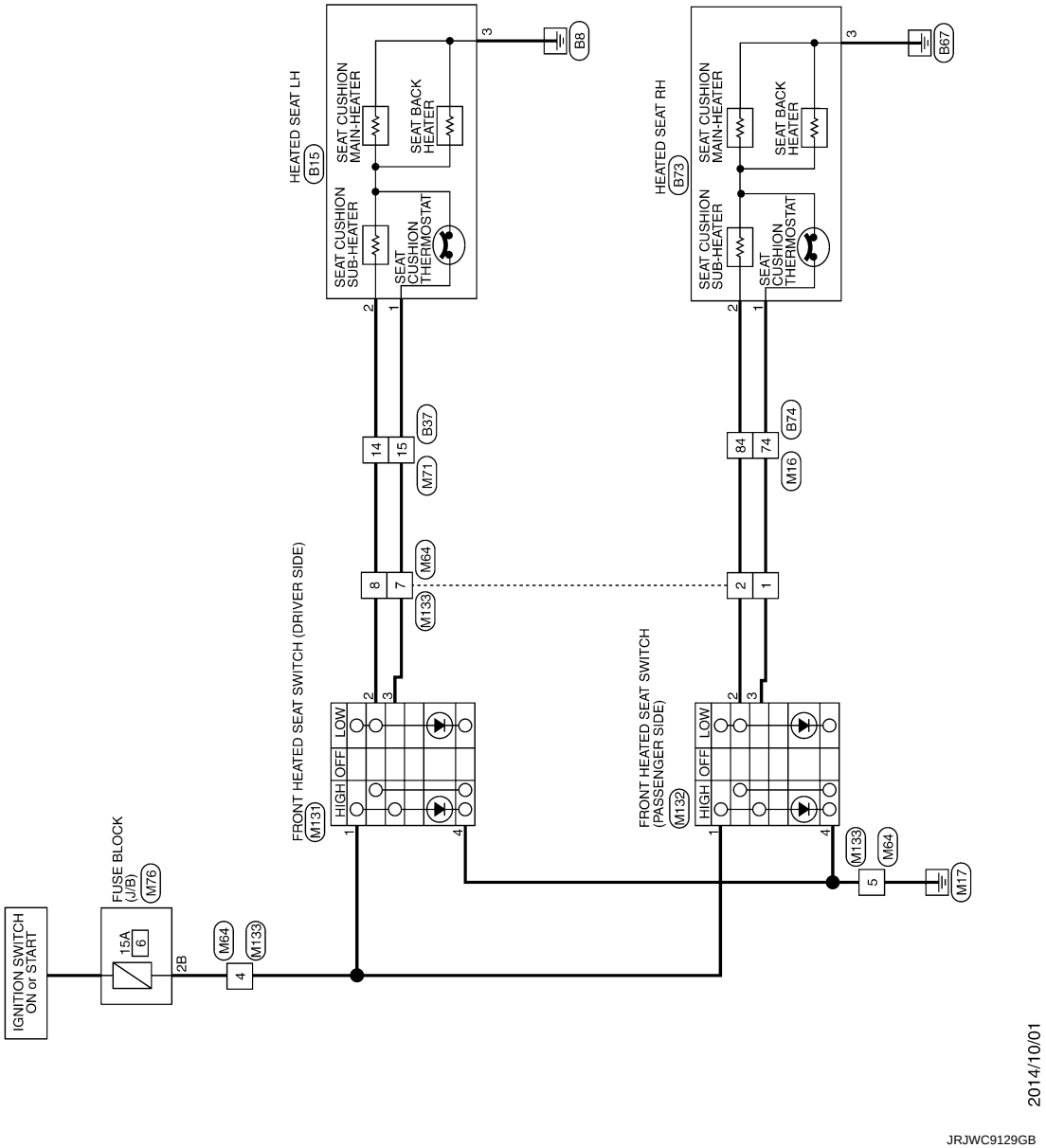
H.S.



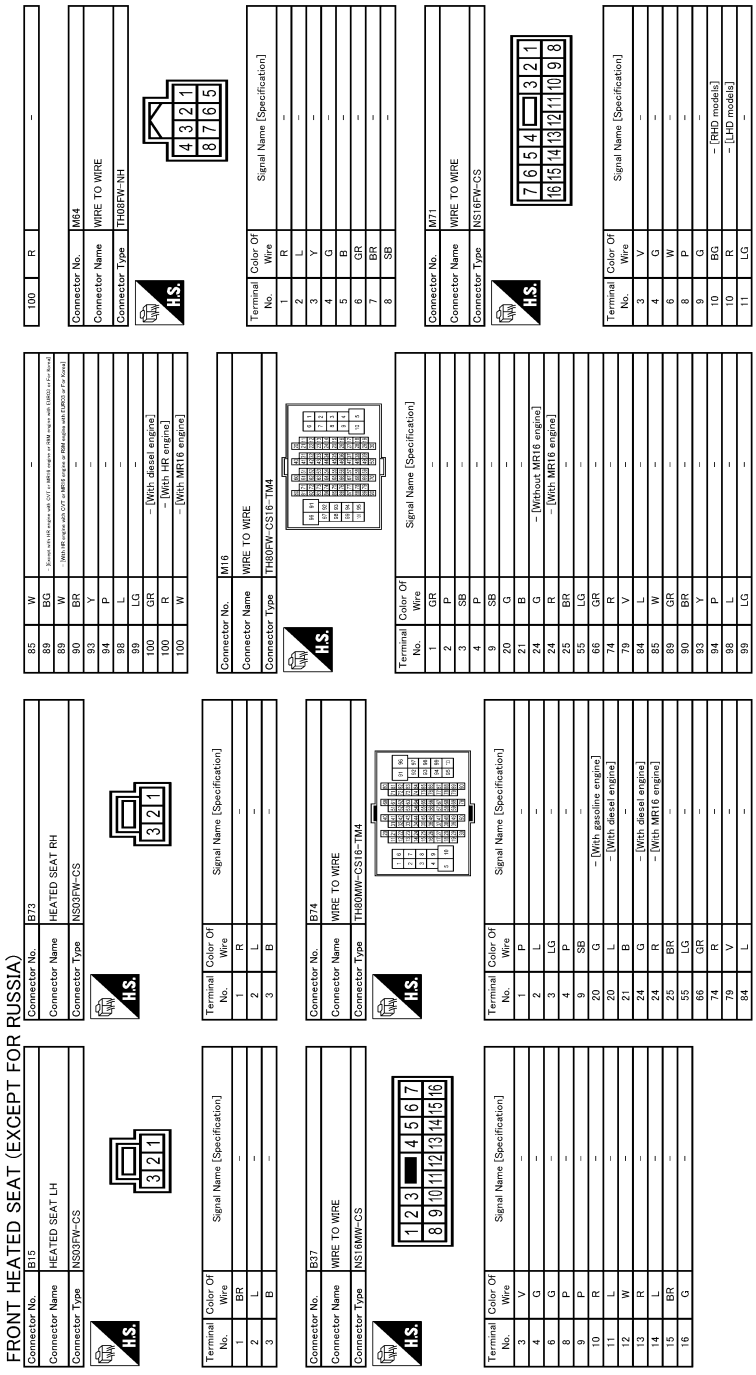
Terminal No.	Color Of Wire	Signal Name [Specification]
10B	V	–
13B	W	–
14B	GR	–
16B	L	–
1B	R	–
2B	G	–
3B	LG	–

JRJWC9128GB

FRONT HEATED SEAT (EXCEPT FOR RUSSIA)



FRONT HEATED SEAT (EXCEPT FOR RUSSIA)



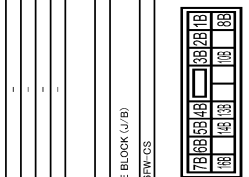
JRJWC9130GB

FRONT HEATED SEAT (EXCEPT FOR RUSSIA)

f2	W	–
f3	Y	–
f4	SB	–
f5	BR	–
f6	GR	–

Connector No.	M76
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
10B	V	–
13B	W	–
14B	GR	–
16B	L	–
1B	R	–
2B	G	–
3B	LG	–
4B	LG	–
5B	LG	–
6B	SB	–
7B	Y	–
8B	BG	– [Without ISS]
8B	GR	– [With ISS]

Connector No.	M131
Connector Name	FRONT HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	–
2	L	–
3	BR	–
4	B	–
4	B/W	– [With HR engine with CVT or MR18 engine or HR16DE engine with ISS]
5	L	–
6	B	–

Connector No.	M132
Connector Name	FRONT HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS06FBR-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	–
2	L	–
3	R	–
4	B	–
4	B/W	– [With HR engine with CVT or MR18 engine or HR16DE engine with ISS]
5	L	–
6	B	–

Connector No.	M133
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	L	–
3	L	–
4	G	–
5	B	– [With HR engine with CVT or MR18 engine or HR16DE engine with ISS]
5	B/W	– [With HR engine with CVT or MR18 engine or HR16DE engine with ISS]
6	B	–
7	BR	–
8	L	–

JRJWC9131GB

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

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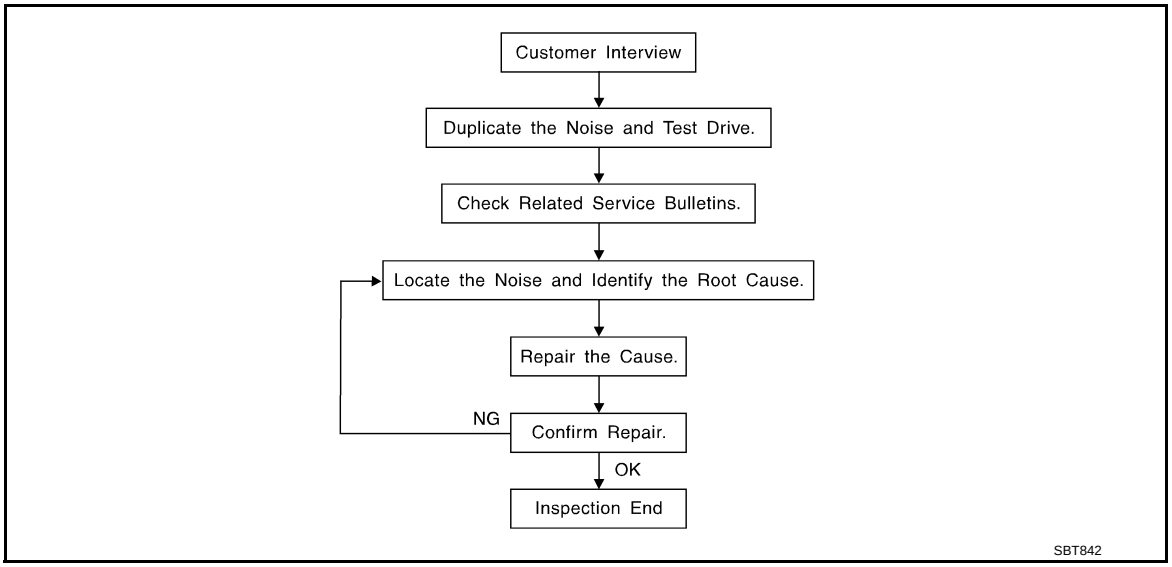


CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to SE-22, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.
If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:
1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Engine Ear or mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the components in the area that is are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that is are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to SE-20, "Inspection Procedure".

REPAIR THE CAUSE

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

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

- URETHANE PADS
  Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
  Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
  Used to insulate where movement does not occur. Ideal for instrument panel applications.
  The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
- UHMW(TEFLON) TAPE
  Insulates where slight movement is present. Ideal for instrument panel applications.
- SILICONE GREASE
  Used in place of UHMW tape that is be visible or does not fit.
  Note: Will only last a few months.
- SILICONE SPRAY
  Used when grease cannot be applied.
- DUCT TAPE
  Used to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000010436327

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

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

SEATS

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

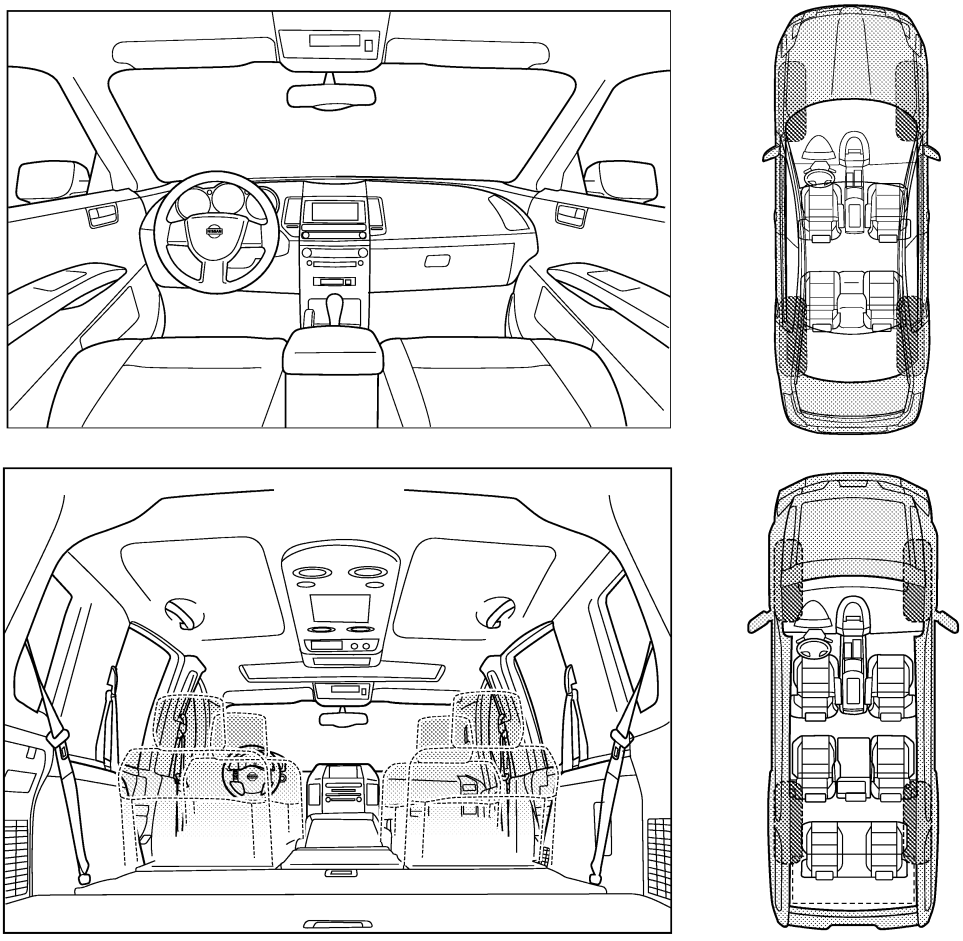
Diagnostic Worksheet

INFOID:0000000010436328

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

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

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

- ☐ anytime
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ other:

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving _____ miles or _____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

_____

_____

_____

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

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

REMOVAL AND INSTALLATION

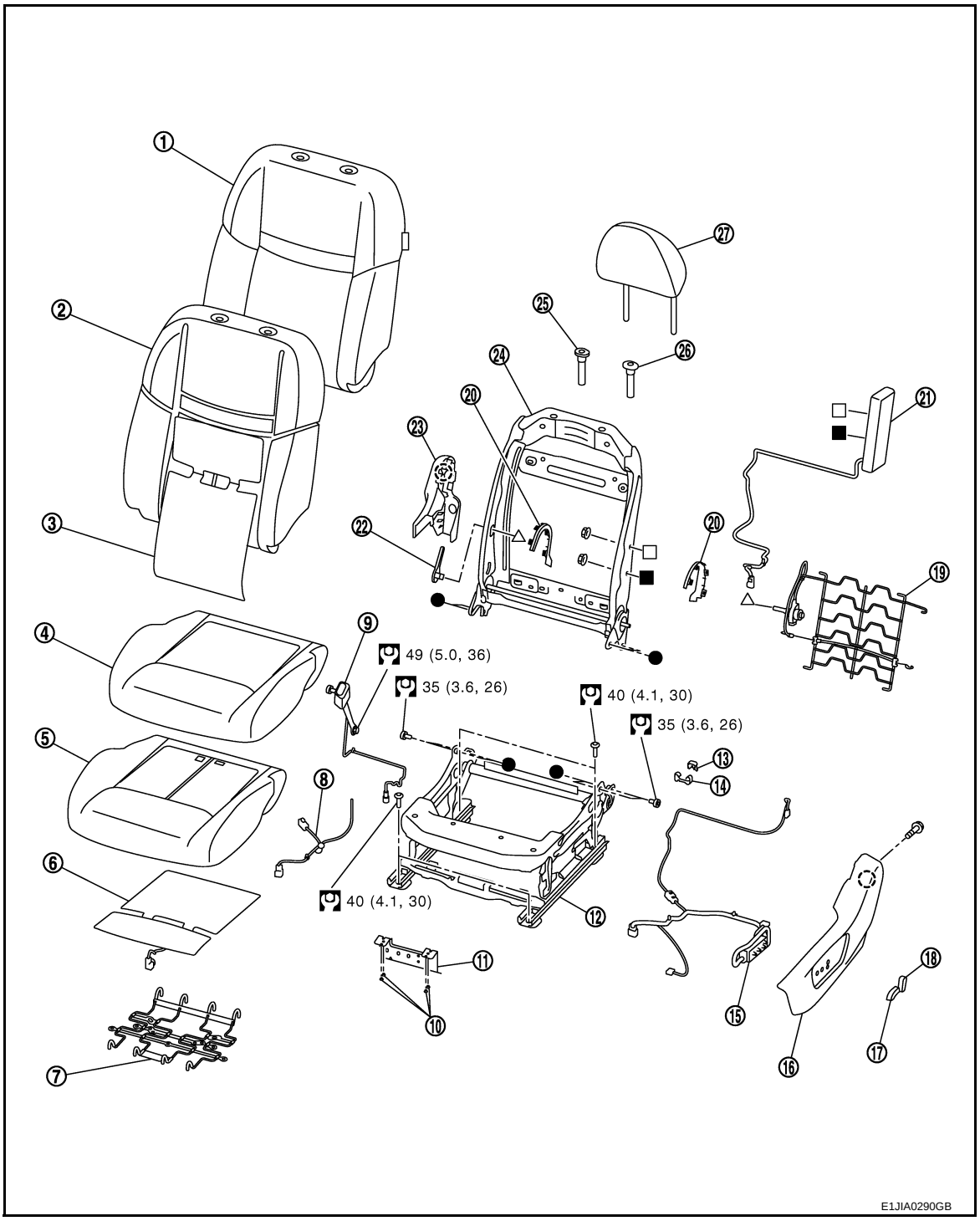
FRONT SEAT

Exploded View

INFOID:0000000010478132

DRIVER SEAT

POWER SEAT

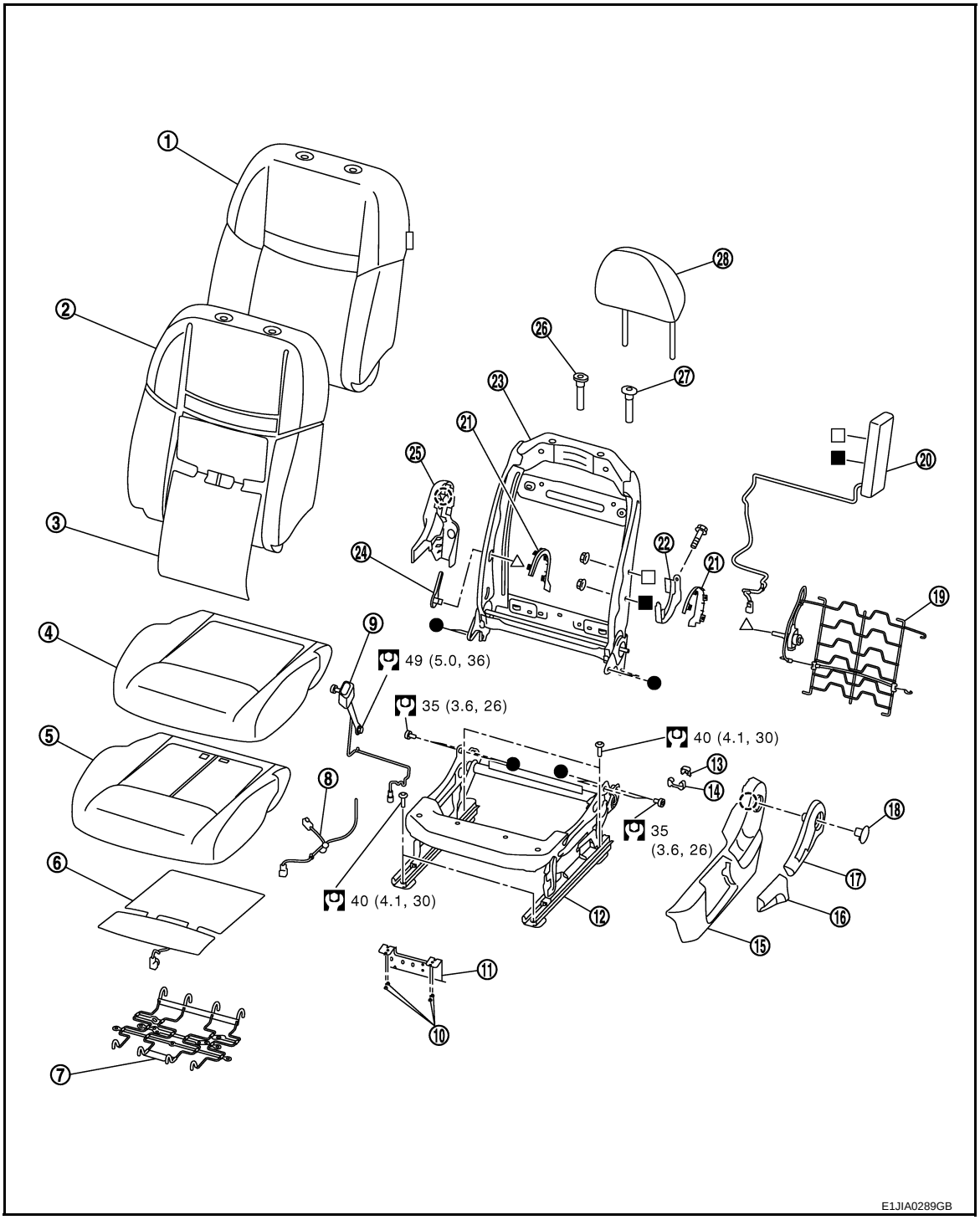


1. Seatback trim
2. Seatback pad
3. Seatback heater unit (if equipped)
4. Seat cushion trim
5. Seat cushion pad
6. Seat cushion heater unit (if equipped)

7. Seat cushion suspension mat	8. Seat cushion heater unit harness connector	9. Seat belt buckle
10. Rivet	11. Connector bracket	12. Seat cushion frame
13. Lower end cap	14. Upper end cap	15. Power seat switch assembly
16. Seat cushion outer finisher (LH)	17. Slide switch knob	18. Reclining switch knob
19. Seat lumbar unit assembly	20. Seat cushion inner finisher	21. Side air bag module
22. Lumbar handle	23. Seat cushion inner finisher	24. Seatback frame
25. Headrest holder (free)	26. Headrest holder (locked)	27. Headrest

Refer to GI-4, "Components" for symbols in the figure.

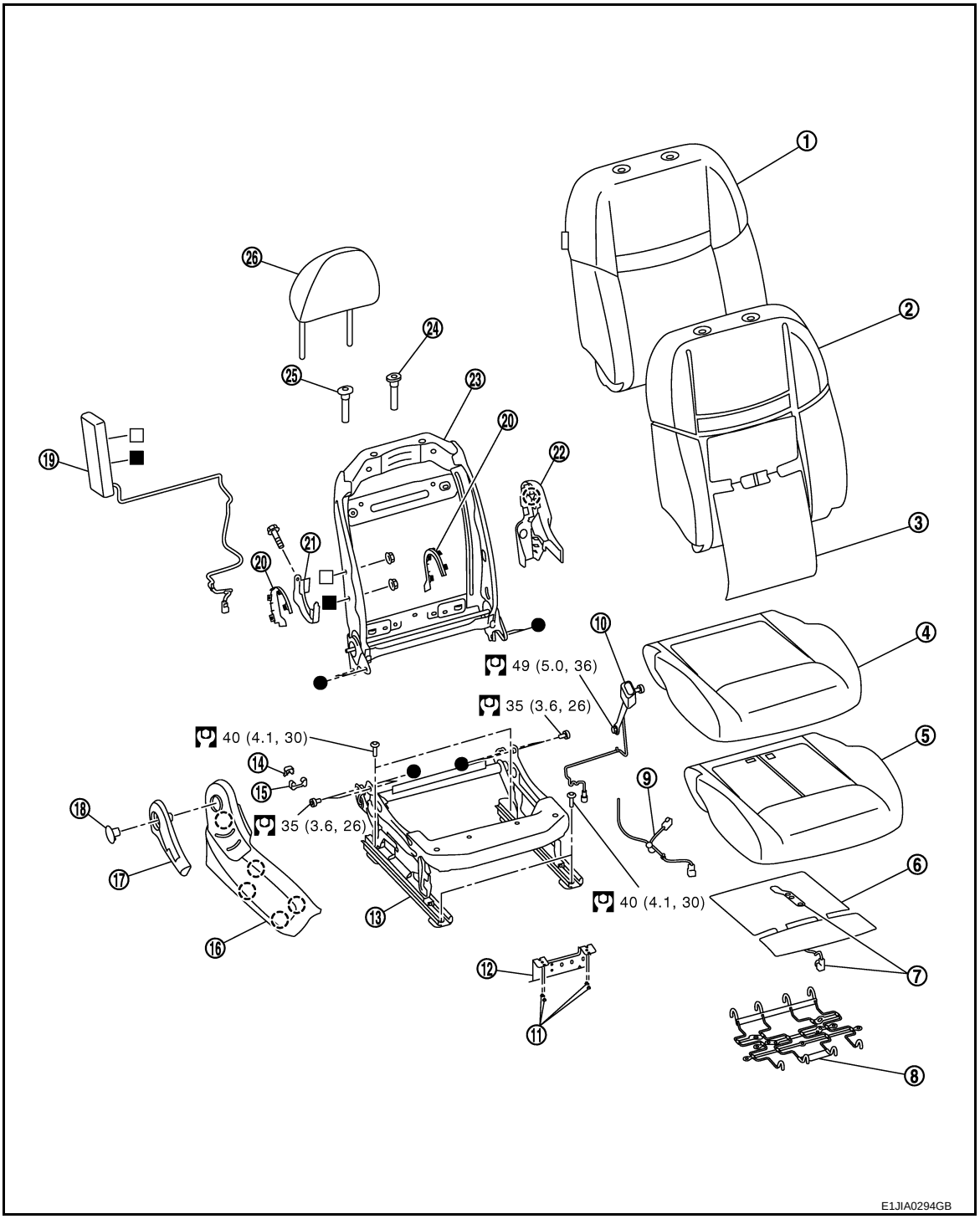
MANUAL SEAT



1. Seatback trim	2. Seatback pad	3. Seatback heater unit (if equipped)
4. Seat cushion trim	5. Seat cushion pad	6. Seat cushion heater unit (if equipped)
7. Seat cushion suspension mat	8. Seat cushion heater unit harness connector	9. Seat belt buckle
10. Rivet	11. Connector bracket	12. Seat cushion frame
13. Lower end cap	14. Upper end cap	15. Seat cushion outer finisher
16. Lifter lever knob	17. Reclining lever knob	18. Lifter lever knob cap
19. Seat lumbar unit assembly (if equipped)	20. Side air bag module	21. Seat cushion inner finisher
22. Spring inner cover	23. Seatback frame	24. Lumbar handle (if equipped)
25. Seat cushion inner finisher	26. Headrest holder (free)	27. Headrest holder (locked)
28. Headrest		

Refer to GI-4, "Components" for symbols in the figure.

PASSENGER SEAT



1. Seatback trim	2. Seatback pad	3. Seatback heater unit (if equipped)
4. Seat cushion trim	5. Seat cushion pad	6. Seat cushion heater unit (if equipped)
7. Seat occupant sensor	8. Seat cushion suspension mat	9. Seat cushion heater unit harness connector
10. Seat belt buckle	11. Rivet	12. Connector bracket
13. Seat cushion frame	14. Lower end cap	15. Upper end cap
16. Seat cushion outer finisher	17. Lifter lever knob	18. Lifter lever knob cap
19. Side air bag module	20. Reclining device inner cover	21. Spring inner cover
22. Seat cushion inner finisher	23. Seatback frame	24. Headrest holder (free)

25. Headrest holder (locked) 26. Headrest

Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

INFOID:0000000010478133

REMOVAL

CAUTION:

- **When removing and installing, use shop cloths to protect parts from damage.**
- **Before removal, turn ignition switch OFF, disconnect both battery cables, and then wait for at least 3 minutes.**

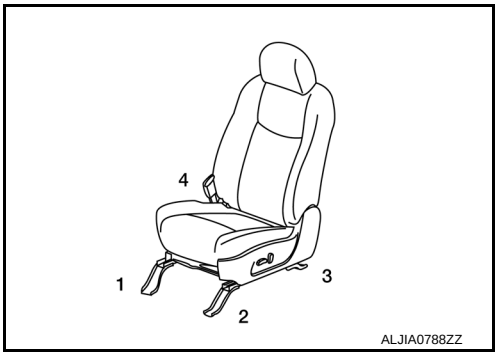
1. Remove headrests.
2. Slide the seat to the full rearward position.
3. Disconnect negative and positive battery terminals, then wait at least three minutes (power seat only).
4. Disconnect harness connector from side air bag module.
5. Remove front mouting bolts.
6. Connect negative and positive battery terminals, then slide the seat to the full forward position (power seat only).
7. Slide the seat to the full forward position.
8. Disconnect negative and positive battery terminals, then wait at least three minutes (power seat only).
9. Remove rear mounting bolts.
10. Tilt the seat rearward and disconnect the harness connectors from the seat.
    CAUTION:
    Before performing removal operation, check the installation position of harness connectors and harness fixing clamps.
11. Remove the seat from the vehicle.
    CAUTION:
    - **When removing and installing, use cloths to protect parts from damage.**
    - **When removing and installing, 2 workers are required so as to prevent it from dropping.**

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **When removing and installing, use shop cloths to protect parts from damage.**
- **Tighten front seat mounting bolts following the numerical order shown in the figure. Refer to SE-24, "Exploded View".**



- **Always fix the harness fixing clamp in position.**

SEATBACK

SEATBACK : Disassembly and Assembly

INFOID:0000000010478134

DISASSEMBLY

WARNING:

Do not leave any objects (screwdrivers, tools, etc.) on the seat during seatback repair. It can lead to personal injury if the side air bag module should accidentally deploy.

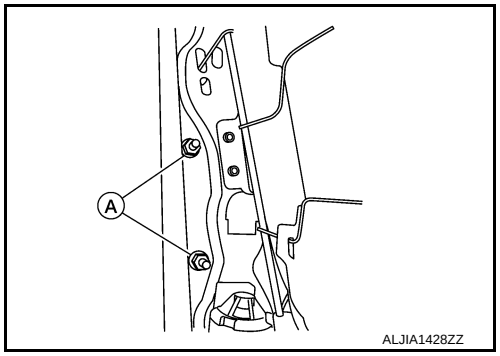
CAUTION:

- **Before servicing, turn the ignition switch OFF, disconnect both battery terminals then wait at least three minutes.**
- **Always work from the side or back of the seatback, do not work in front of seat.**
- **Do not use air tools or electric tools for servicing the seat assembly.**
- **Do not insert any objects into the side air bag module.**
- **Do not attempt to disassemble the side air bag module.**
- **Do not expose the side air bag module to temperatures exceeding 93°C (199°F).**
- **Do not expose the side air bag module to any oil, grease, detergent or water.**
- **During disassembly, do not damage the seatback board, connectors, retainers, clips, module harness or the side air bag module.**

NOTE:

- If the vehicle has been involved in a collision and the side air bag module has deployed, the seat trim must be replaced.
- Front seat (LH) shown, front seat (RH) similar.

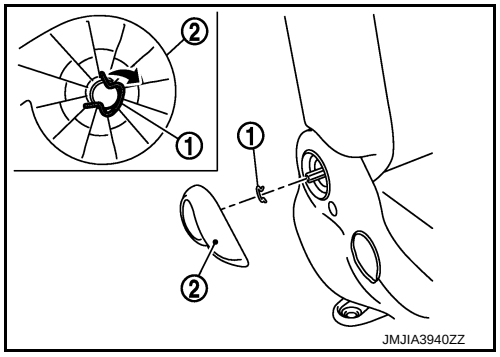
1. Remove driver side front seat or front seat passenger side. Refer to SE-28, "Removal and Installation" (DRIVER SIDE), SE-28, "Removal and Installation" (PASSENGER SIDE).
2. Release seatback fasteners (LH/RH).
3. Press the headrest holder lock button, then lift headrest up and remove.
4. Release headrest holder locks as shown and remove headrest holders.
   CAUTION:
   Before removing/installing the headrest holder, check its orientation (front/rear and right/left).
5. Release side air bag module harness clamps from seat frame.
   NOTE:
   Take note of harness routing and attachment location for correct installation.
6. Remove side air bag module harness mounting nuts (A).
   CAUTION:
   Never reuse side air bag module nuts.



7. Remove seat cushion outer finisher (LH).

a. Manual seat:

i. Remove cap with a suitable trim tool.
ii. Pull handle to remove..
iii. Lift handle to access clip on inside.
iv. Disengage clip with suitable tool and slide off.



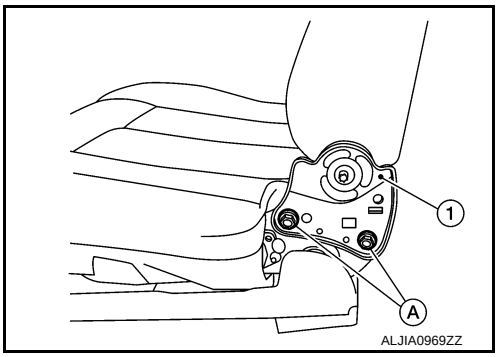
b. Power seat (driver seat only):

i. Remove the seat cushion outer finisher (LH).
ii. Release metal clips from seat frame.
iii. Release pawls and remove.
iv. Disconnect harness connectors from the power seat switch and lumbar support switch (if equipped).

8. Release pawls and clips, and remove seat cushion outer finisher (RH).
9. Release clips and remove side air bag module harness from seat frame.
   NOTE:

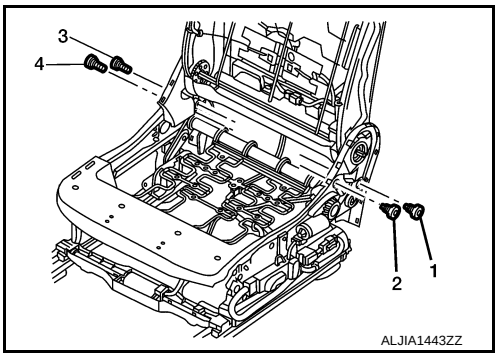
Take note of harness routing and attachment location for correct installation.

10. Disconnect the harness connector from lumbar support motor (if equipped) and release harness from seatback assembly.
    NOTE:
    Take note of harness routing and attachment location for correct installation.
11. Disconnect the harness connector for the front seat heater (if equipped).
    NOTE:
    Take note of harness routing and attachment location for correct installation.
12. Remove seatback trim and pad.
13. Release fastener and remove hog rings, then separate seatback trim from seatback pad.
    NOTE:
    Remove all pieces of hog rings and discard them.
14. Remove screws (A) on both sides of the seatback frame (1).
    CAUTION:
    Never reuse seatback frame screws. Replace with new ones.

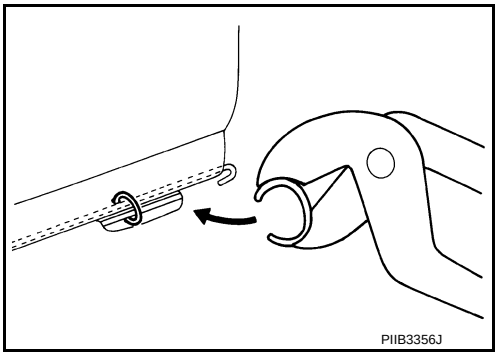


ASSEMBLY

- First tighten screws by hand in the order shown.
- Tighten the seatback assembly screws to specification. Refer to SE-24, "Exploded View".



- Install new hog rings on the seatback trim in original positions.
- Use only one hog ring in each designated location.
- Make sure hog rings are correctly fastened around both the seat back trim and seatback pad wires.
- Use NISSAN standard hog rings and tools to assemble.
- Make sure hook fastener is pressed into place after seatback trim is assembled.
- Smooth out all wrinkles during assembly.



CAUTION:

- **Do not reuse seatback frame bolts, replace with new ones.**
- **Always route side air bag module harness in original location. Replace any deformed or damaged clips with same type and color. Always install clips in the original location in the harness.**
- **After work is completed, check that no system malfunction is detected causing the air bag warning lamp to illuminate.**

- **If a malfunction is detected by the air bag warning lamp after repair or replacement of the malfunction parts, perform the SRS final check.**

SEAT CUSHION

SEAT CUSHION : Disassembly and Assembly

INFOID:0000000010478135

DISASSEMBLY

WARNING:

Do not leave any objects (screwdrivers, tools, etc.) on the seat during seat cushion repair. It can lead to personal injury if the side air bag module should accidentally deploy.

CAUTION:

- **Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.**
- **Always work from the side or back of the seatback assembly, do not work in front of seat.**
- **Do not use air tools or electric tools for servicing the seat assembly.**

1. Remove seat cushion outer finisher (LH).
2. Remove seat cushion outer finisher (LH).

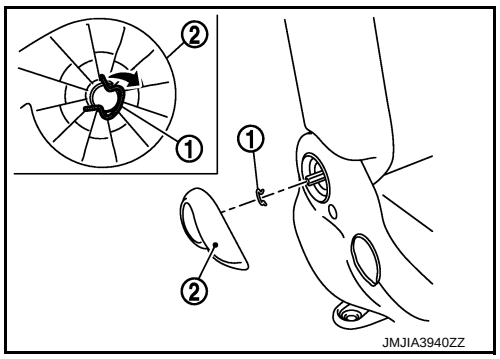
a. Manual seat:

i. Remove cap with suitable trim tool.

ii. Pull handle to remove.

iii. Lift handle to access clip on inside.

iv. Disengage clip with suitable tool and slide off.



b. Power seat (Driver seat only):

i. Remove the seat cushion outer finisher (LH).

ii. Release metal clips from seat frame.

iii. Release pawls and remove.

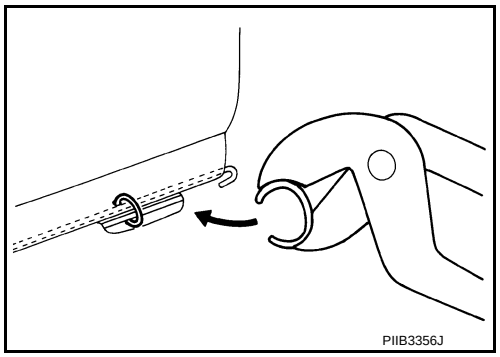
iv. Disconnect harness connectors from the power seat switch and lumbar support switch (if equipped).

3. Release pawls and clips, and remove seat cushion outer finisher (RH).
4. Release two seatback retainers from the seat frame.
5. Partially release seatback fasteners (LH/RH).
6. Release the seat cushion holding the seat cushion trim to the seat frame.
7. Remove seat cushion trim and seat cushion pad as an assembly from the seat frame.
8. Remove hog rings and separate seat cushion trim and seat cushion pad.
   NOTE:
   Remove all pieces of hog rings and discard them.

ASSEMBLY

Assembly is in the reverse order of disassembly.

- Install new hog rings on the seat cushion trim in original positions.
- Use only one hog ring in each designated location.
- Make sure hog rings are correctly fastened around both the seat cushion trim and seat cushion pad wires.
- Use NISSAN standard hog rings and tools to assemble.
- Make sure hook fastener is pressed into place after seat cushion trim is assembled.
- Smooth out all wrinkles during assembly.



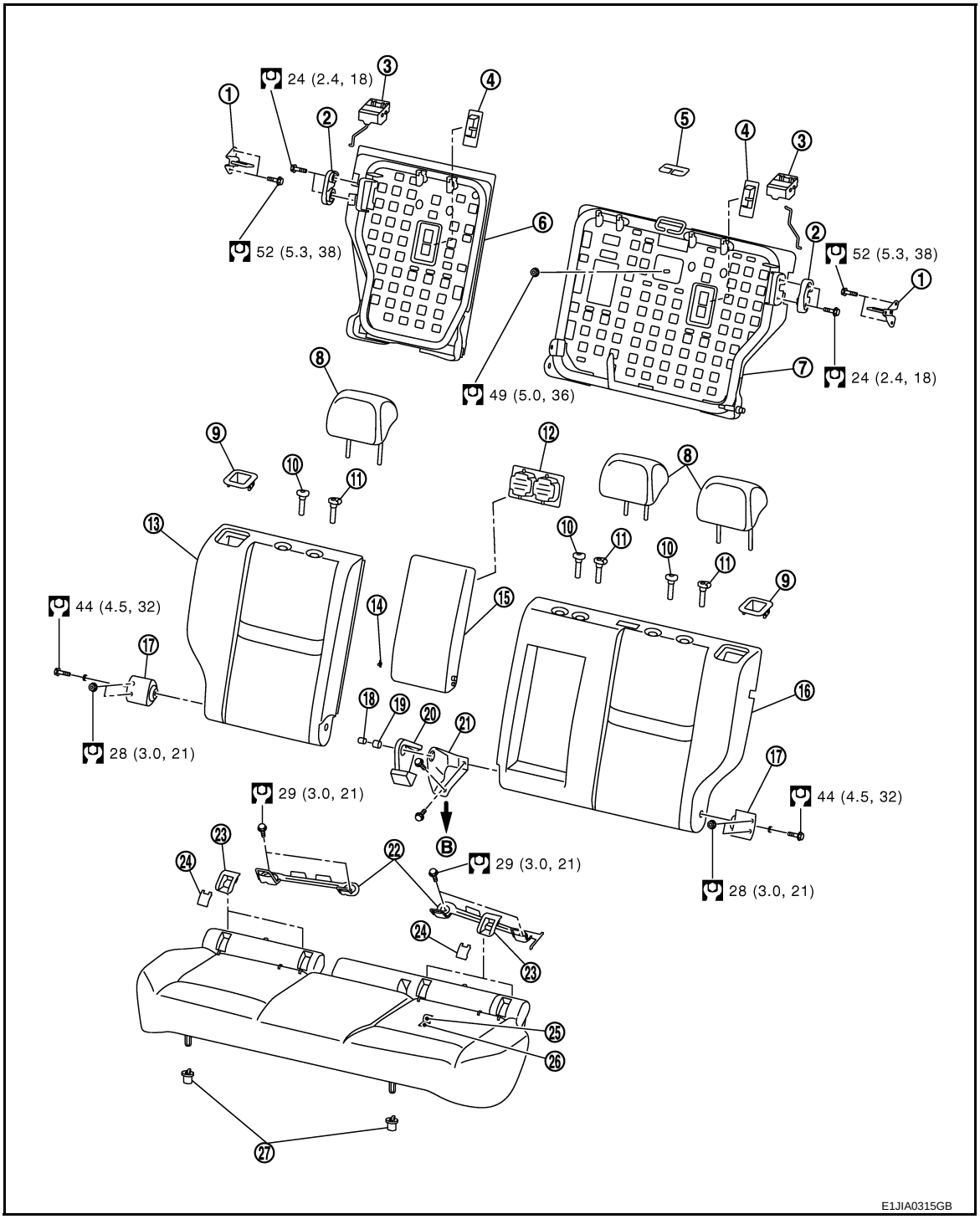
CAUTION:

- **Always route side air bag module harness in original location. Replace any deformed or damaged clips with same type and color. Always install clips in the original location in the harness.**
- **After work is completed, check that no system malfunction is detected causing the air bag warning lamp to illuminate.**
- **If a malfunction is detected by the air bag warning lamp after repair or replacement of the malfunction parts, perform the SRS final check.**

REAR SEAT

Exploded View

INFOID:0000000010478075



1. Striker
2. Seatback lock assembly
3. Seatback lock knob
4. Tether child cover
5. Rear seat belt escutcheon
6. Seatback frame RH
7. Seatback frame LH
8. Headrest
9. Seatback lock knob finisher
10. Headrest holder (free)
11. Headrest holder (locked)
12. Cup holder
13. Armrest assembly
14. Spring clip
15. Seatback trim & pad RH
16. Seatback trim & pad LH
17. Seatback side bracket
18. Bearing

19. Bearing	20. Center hinge cover	21. Center hinge
22. Isofix bracket	23. Isofix cover	24. Isofix cover cap
25. Seat cushion trim	26. Seat cushion pad	27. Seat cushion hook

Refer to GI-4, "Components" for symbpls in the figure.

Removal and Installation

INFOID:0000000010478076

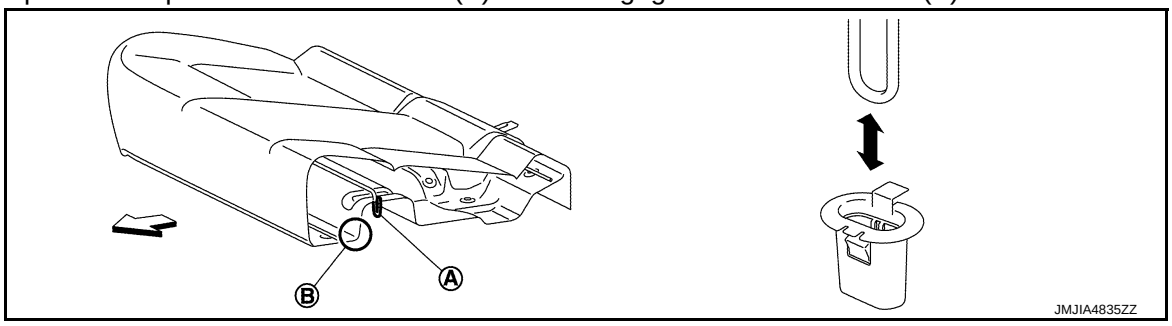
REMOVAL

SEAT CUSHION

CAUTION:

During removal and installation, an assistant is required to protect against injury or damage.

1. Lift up front end portion of seat cushion (B) and disengage seat cushion hook (A).



2. Pull out seat belt buckle from seat cushion.
3. Remove seat cushion from the vehicle.

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

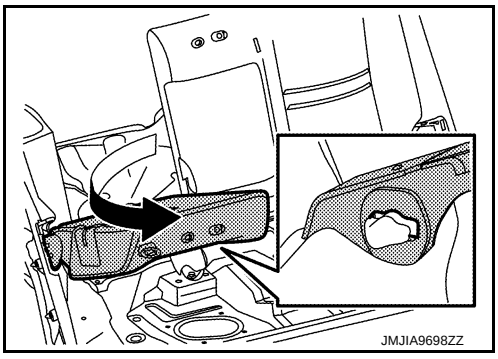
SEATBACK

CAUTION:

During removal and installation, an assistant is required to protect against injury or damage.

1. Remove rear seat cushion.
2. Remove headrest.
3. Remove uggage side finisher. Refer to INT-29, "Luggage side trim"
4. Remove seatback:

a. Remove seatback mounting bolts
b. Unlock and tilt seatback.
c. Remove seatback.



INSTALLATION

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

CAUTION:
When removing and installing, use shop cloths to protect parts from damage.

SEATBACK

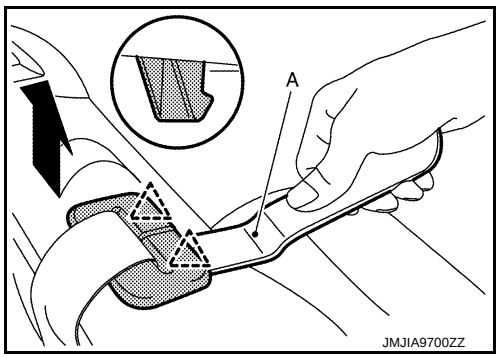
SEATBACK : Disassembly and Assembly

INFOID:0000000010478170

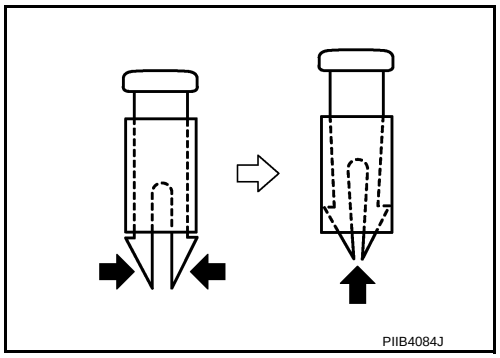
DISASSEMBLY

1. Remove armrest.
   - Unclip cup holder.
     ⚠: Pawl
   - Remove spring clip. Using suitable tool.
   - Push armest towards the left side of the vehicle to disengage LH pivot pin from bracket.
   - Twist and disengage RH hinge pin to remove armest.

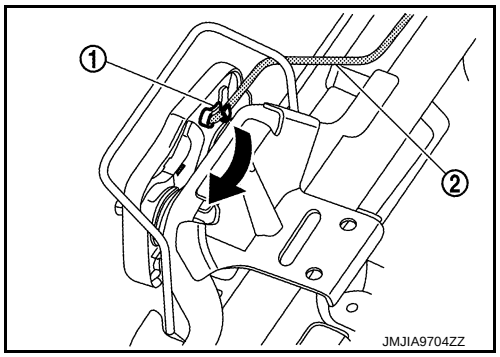
2. Using a suitable tool remove seat belt finisher.
   ⚠: Pawl



3. Sqeeze clips and push up to remove.
   CAUTION:
   Wear protective gloves and sleeves to prevent injury from sharp edges on frame.



4. Remove seat lock knob finisher.
   - Remove seat lock knob.
   - Remove the mating (1) by the rotation of the rod holder (2).



   - Remove rod holder (2) from seat lock knob (1).

   - Remove seat lock knob finisher.
     ⚠: Pawl

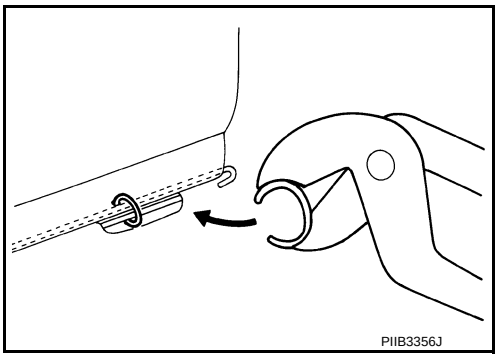
6. Remove in one piece seatback pad and trim.

7. Remove hog ring to separate seatback pad and trim.

ASSEMBLY

Assembly is in the reverse order of disassembly.

- Install new hog rings on the seatback trim in original positions.
- Use only one hog ring in each designated location.
- Make sure hog rings are correctly fastened around both the seatback trim and seatback pad wires.
- Use NISSAN standard hog rings and tools to assemble.
- Make sure hook fastener is pressed into place after seatback trim is assembled.
- Smooth out all wrinkles during assembly.



SEAT CUSHION

SEAT CUSHION : Disassembly and Assembly

INFOID:0000000010478171

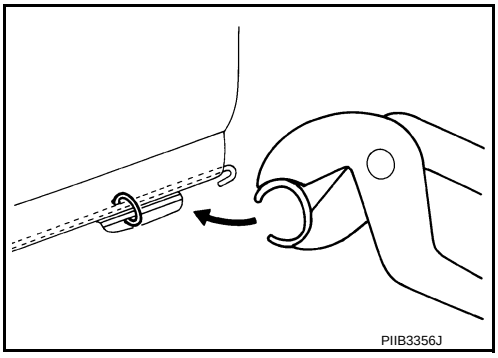
DISASSEMBLY

1. Remove seat cushion. Refer to SE-34, "Removal and Installation".
2. Remove hog rings on the bottom side of seat cushion.
3. Remove hog rings on the top side of seat cushion and separate the seat cushion trim from the seat cushion pad.
   NOTE:
   Remove all pieces of hog rings and discard them.

ASSEMBLY

Assembly is in the reverse order of disassembly.

- Install new hog rings on the seat cushion trim in original positions.
- Use only one hog ring in each designated location.
- Make sure hog rings are correctly fastened around both the seat cushion trim and seat cushion pad wires.
- Use NISSAN standard hog rings and tools to assemble.
- Make sure hook fastener is pressed into place after seat cushion trim is assembled.
- Smooth out all wrinkles during assembly.



POWER SEAT SWITCH

Removal and Installation

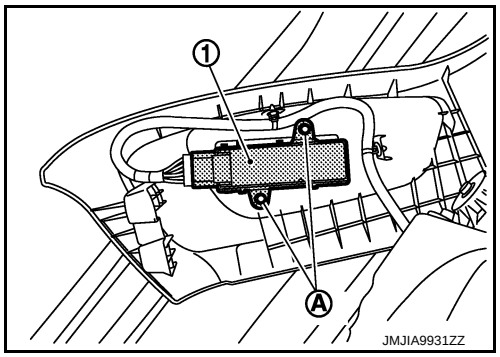
INFOID:0000000010436343

REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

1. Remove the front seat. Refer to SE-28, "Removal and Installation".
2. Remove the seat cushion outer finisher inside.
3. Disconnect power seat switch connector.
4. Remove power seat switch mounting screws Ⓐ.
5. Remove harness clip and remove power seat switch ① from seat cushion outer finisher.



INSTALLATION

Install in the reverse order of removal.

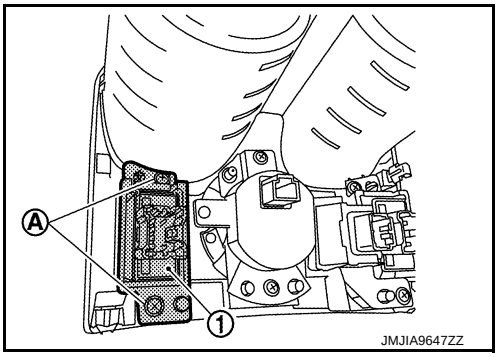
HEATED SEAT SWITCH

Removal and Installation

INFOID:0000000010436338

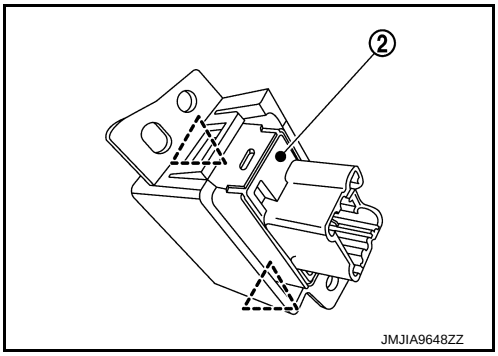
REMOVAL

1. Remove the console switch panel. Refer to IP-18, "Exploded View".
2. Remove the mounting screws Ⓐ, and then remove heat seat switch and switch bracket①.



3. Remove heated seat switch ② from switch bracket.

: Pawl



INSTALLATION

Installation is in the reverse order of removal.