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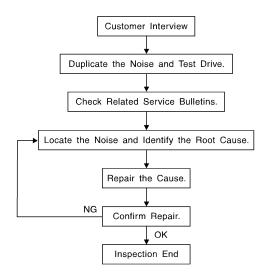
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# SERVICE INFORMATION

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow (INFOID:0000000007831475



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

## DUPLICATE THE NOISE AND TEST DRIVE

## < SERVICE INFORMATION >

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

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

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and A/T models).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

## CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

## LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
  - removing the components in the area that you suspect the noise is coming from. Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
  - tapping or pushing/pulling the component that you suspect is causing the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
  - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the
  - placing a piece of paper between components that you suspect are causing the noise.
  - · looking for loose components and contact marks. Refer to SE-4, "Generic Squeak and Rattle Troubleshooting".

## REPAIR THE CAUSE

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

## **CAUTION:**

Do not use excessive force as many components are constructed of plastic and may be damaged.

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm (3.94×5.31 in)/76884-71L01: 60×85 mm (2.36×3.35 in)/76884-71L02: 15×25 mm (0.59×0.98 in)

**INSULATOR (Foam blocks)** 

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

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97×1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97×1.97 in)

**INSULATOR** (Light foam block)

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

**FELT CLOTH TAPE** 

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

68370-4B000: 15×25 mm (0.59×0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll. The following materials not found in the kit can also be used to repair squeaks and rattles.

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## < SERVICE INFORMATION >

# **UHMW (TEFLON) TAPE**

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

## SILICONE GREASE

Used instead of UHMW tape that will be visible or not fit.

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

**DUCT TAPE** 

Use to eliminate movement.

## CONFIRM THE REPAIR

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

# Generic Squeak and Rattle Troubleshooting

INFOID:0000000007831480

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

#### INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 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
- Instrument panel pins
- 6. Wiring harnesses behind the combination meter
- A/C defroster duct and duct joint

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

## **CAUTION:**

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

### CENTER CONSOLE

Components to pay attention to include:

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

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

## **DOORS**

Pay attention to the:

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

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

## **TRUNK**

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

- 1. Trunk lid bumpers out of adjustment
- 2. Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together

Revision: November 2012 **SE-4** 2012 Frontier

## < SERVICE INFORMATION >

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:

- Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- Sun visor shaft shaking in the holder 2.
- Front or rear windshield touching headliner and squeaking

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

## OVERHEAD CONSOLE (FRONT AND REAR)

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

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

## **SEATS**

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

Cause of seat noise include:

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

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

### UNDERHOOD

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

Causes of transmitted underhood noise include:

- Any component installed to the engine wall
- 2. Components that pass through the engine wall
- Engine wall mounts and connectors
- Loose radiator installation pins
- 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.

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# < SERVICE INFORMATION >

# **Diagnostic Worksheet**

INFOID:0000000007831481

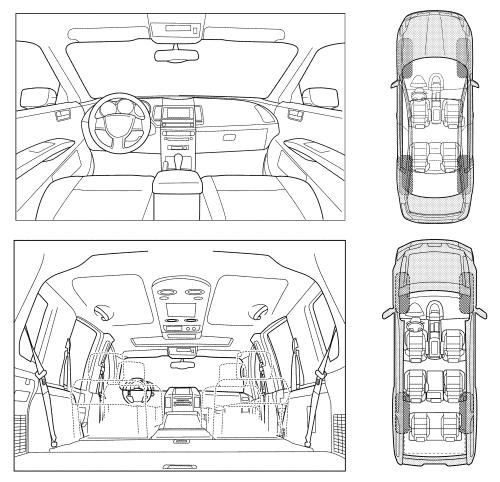
# Dear Customer:

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

#### **SQUEAK & RATTLE DIAGNOSTIC WORKSHEET**

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

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



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

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# < SERVICE INFORMATION >

Briefly describe the location where the	e noise occurs:	
I. 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:	
II. 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)	
On turns: left, right or either (circle	e) Buzz (like a bumble bee)	
☐ With passengers or cargo☐ Other:		
<b>–</b> Omer. <u>– – –                                </u>		
	— minutes	
After driving miles or i	minutes	
After driving miles or roughless or		
After driving miles or roughless or		
After driving miles or roughless or		
After driving miles or roughless or		
After driving miles or roughless or	IP PERSONNEL	
After driving miles or represented by DEALERSHITES Drive Notes:	IP PERSONNEL	
After driving miles or	YES NO Initials of person performing	
After driving miles or repaired miles or	YES NO Initials of person performing	
After driving miles or   TO BE COMPLETED BY DEALERSHIF   Test Drive Notes:  Wehicle test driven with customer   Noise verified on test drive   Noise source located and repaired   Follow up test drive performed to co	YES NO Initials of person performing	

Revision: November 2012 **SE-7** 2012 Frontier

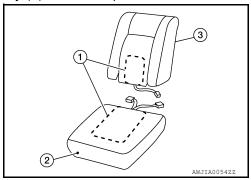
# DTC/CIRCUIT DIAGNOSIS

# **HEATED SEAT**

Description INFOID:0000000007328521

- When handling seat, be extremely careful not to scratch heating unit (1).
- To replace heating unit, seat trim and pad should be separated for the front seat cushion LH. For seatback and front seat cushion RH, complete cushion (2) or seatback assembly (3) must be replaced.
- Do not use any organic solvent, such as thinner, benzene, alcohol, etc. to clean trim.

Thermostat operation	ON	OFF
Trim temperature °C (°F)	25 -35 (77 - 95)	35 - 45 (95 - 113)

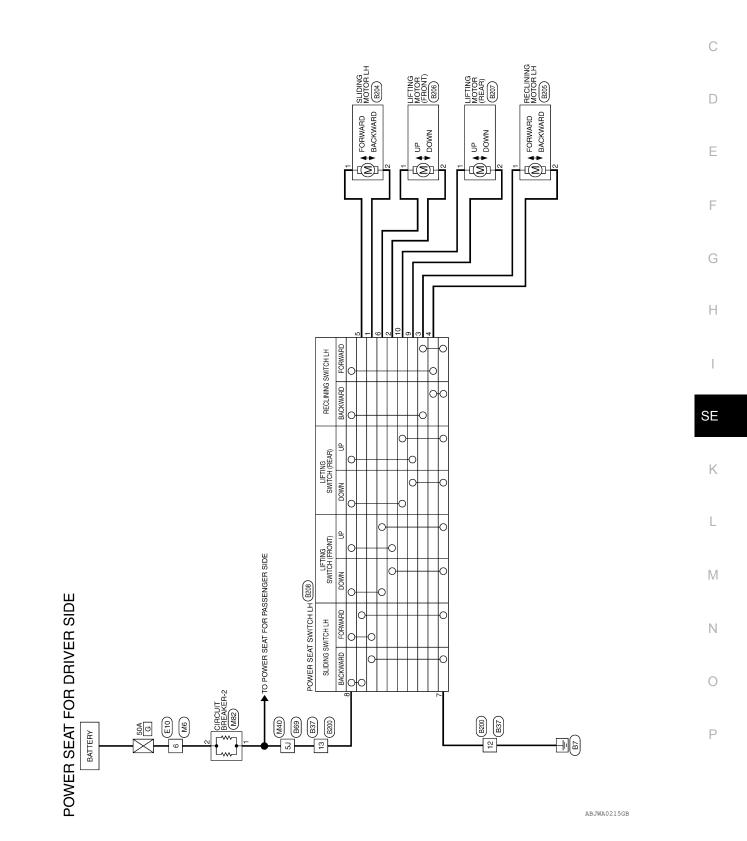


# WIRING DIAGRAM

# POWER SEAT FOR DRIVER SIDE

Wiring Diagram

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## Signal Name 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8 Signal Name Connector Name WIRE TO WIRE Connector Color WHITE Color of Wire B37 Color of Wire ш (С മ Connector No. Terminal No. Terminal No. 13 5 E 411 40J 39J 38J 37J 36J 35J 34J 33J 32J 31J 50J 49J 48J 47J 48J 45J 44J 43J 42J 61J 60J 59J 58J 57J 56J 55J 54J 53J 52J 51J 70J 69J 69J 67J 66J 65J 64J 63J 62J 75J 74J 73J 72J 71J 80J 78J 77J 76J 50 41 30 20 11 100 90 80 70 60 Signal Name Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE 1 2 3 4 5 6 Connector Color WHITE Connector Color WHITE M40 E10 Color of Wire ≥ Connector No. Connector No. Terminal No. POWER SEAT FOR DRIVER SIDE CONNECTORS 9 E F Signal Name Connector Name CIRCUIT BREAKER-2 Signal Name Connector Name | WIRE TO WIRE Connector Color WHITE Connector Color WHITE M82 Color of Wire 9W Color of Wire മ ┛ ≥ Connector No. Connector No. Terminal No. Ferminal No. 9 0 E

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# **POWER SEAT FOR DRIVER SIDE**

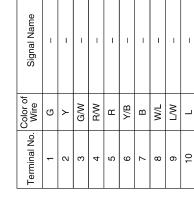
# < WIRING DIAGRAM >

Connector No.   B200	Connector No. B206 Connector Name LIFTING MOTOR (FRONT) Connector Color GRAY  H.S. Color of Signal Name  1	A B C D
		F
Signal Name	IG MOTOR LH Signal Name	G
		Н
No. Wire of Golor of		I
Terminal No. 5J	Connector No.  Connector Color  Connector Color  LS.  1 Color  Co	SE
		K
WHRE TO WIRE   1.0   2.1   3.1   4.1   5	Connector No. B204 Connector Name SLIDING MOTOR LH Connector Color GRAY  H.S.  Terminal No. Wire Signal Name  1 R - 2 G -	L
WIRE TO WIRE WHITE  WHITE  1.1 2.1 3.1 4.1 6.1 7.1 8.1 9.1 7.1 8.1 9.1 9.1 7.1 8.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9	B204 Interpretation of GRAY  Color of Wire  G  G	IVI
Connector No. Connector Name Connector Color H.S.	Connector No. Connector Color Connector Color H.S. 1 1 2	N
Connec	Connector N. Connector O. Terminal No.	0
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Revision: November 2012 **SE-11** 2012 Frontier

Connector No.	B208
Connector Name	Connector Name   POWER SEAT SWITCH LH
Connector Color WHITE	WHITE













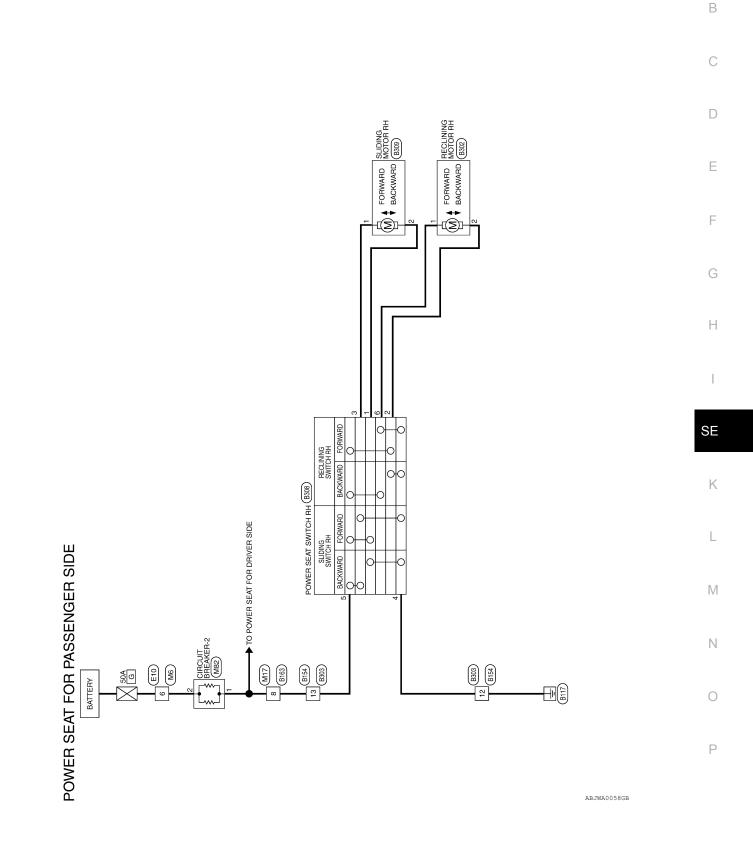
Signal Nar	ı	1
Color of Wire	Г	M/J
Terminal No.	1	7

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# POWER SEAT FOR PASSENGER SIDE

Wiring Diagram

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# POWER SEAT FOR PASSENGER SIDE CONNECTORS

Connector No. M6 Connector Name WIRE TO WIRE	M6 WIRE TO WIRE
Connector Color	WHITE

Connector Name WIRE TO WIRE Connector Color WHITE

Connector No. M17

Connector No.	M6
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE

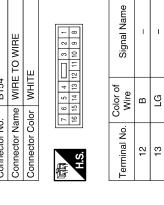


	Connector Name CIRCUIT BREAKER-2	щ		Signal Name	_	_
M82	ne CIRC	or WHITE	12	Color of Wire	G	Ь
Connector No.	Connector Nam	Connector Color	原动 H.S.	Terminal No.	-	2
			· · ·			

Term		
Signal Name	1	
Color of Wire	ЫLG	
Terminal No.	8	

.No.	E10	Connector No.	B154	Connector No.	B163
Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE

Connector Color WHITE



Signal Name

Color of Wire മ

Terminal No.

	WIRE TO WIRE	ITE	Q Q	Signal Name	1
). E10		lor WH	<u> </u>	Color of Wire	>
Connector No.	Connector Name	Connector Color WHITE	咸利 H.S.	Terminal No.	9

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# POWER SEAT FOR PASSENGER SIDE

# < WIRING DIAGRAM >

			1			
90	POWER SEAT SWITCH RH	罪	2 1 1	Signal Name	I	
). B308		lor WF	2 9	Color of Wire	>	a
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No.	-	c

80	POWER SEAT S	WHITE	1 C	Signal		-	-	I	•	
B308			8 2	Color of Wire	>	Y/B	G	В	M/L	G/B
Connector No.	Connector Name	Connector Color	原列 H.S.	Terminal No.	-	2	3	4	2	9

ctor No. B303	ctor Name WIRE TO WIRE	ctor Color WHITE	1     2     3     6     7       8     9     10     11     12     13     14     15     16	Color of
Connector No.	Connector Name	Connector Color	南 H.S.	

B WL

13

	RECLINING MOTOR RH	ш	-(0)	Signal Name	_	I
B302		or WHITE		Color of Wire	G/B	Y/B
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	1	2

Connector No.	o. B309	(
Connector Name		SLIDING MOTOR RH
Connector Color	olor GRAY	γ.
H.S.		[2]
Terminal No.	Color of Wire	Signal Name
-	ŋ	ı
2	<b>\</b>	1

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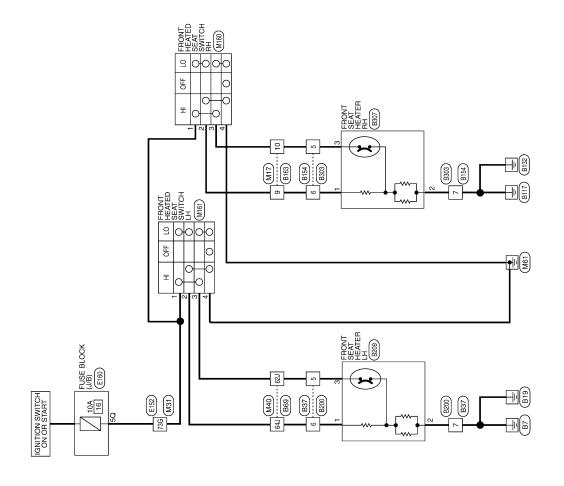
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# HEATED SEAT

Wiring Diagram



HEATED SEAT

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r of Signal Name	PRONT HEATED SEAT SWITCH RH BROWN  Frof Signal Name	A B C
Terminal No. Wire 73G W/R	M16   Connector Name   FM2   FM3   Connector Color   BR2   FM3   Color of   FM3   Color of   FM3   GR2   FM3   GR3   GR3   GR4   FM3   GR4   G	D E
110 110 110 110		F
M31   M31   State   M18E   M	Signal Name	G H
Connector No. M31  Connector Name WIRE TO WIRE  Connector Color WHITE  SG 4G 3G 100 9G	Ed No. Wire	1
Connec	Terminal No.	SE
		K
WIRE  WIRE  Signal Name	MHRE TO WIRE  WHITE  SI 44 34 24 14 1 13 12 1 14  WHITE  WHITE  SO 190 280 271 260 251 244 230 320 37  SO 280 280 271 260 251 244 230 320 37  SO 280 280 271 260 251 244 230 320 37  SO 280 280 271 260 251 244 230 320 37  SO 280 280 271 260 251 244 230 320 37  SO 280 280 271 260 251 244 230 320 37  SO 280 280 271 260 251 244 230 320 37  TO 280 280 271 260 251 244 230 320 37  TO 280 280 271 260 251 244 230 320 37  TO 280 280 271 280 251 271 771 751 751	L
Connector No.   M17	2. M40  Su WIRE TO WIRE  Su Au Su 2u 11  [21] [20] [13] [13] [14] [13] [14] [13] [14] [14] [14] [14] [14] [14] [14] [14	M
HEATED SEAT CONNECTOR   Connector Name   WIRE TO WIRE	Connector No. Connector Name Connector Color H.S.  44.0 4  61.0 6  61.0 6	0
보 · · · · · · · · · · · · · · · · · · ·	ABJIA0181GB	Б

Connector No.   M161		Connector No.	E152				Color of	:	
9	NT HEATED SEAT	Connector Name WIRE TO WIRE	e WIRE TC	WIRE	lerm	l erminal No.	Wire	Signal Name	
	SWITCH LH	Connector Color WHITE	WHITE		7	73G	W/R	ı	
Connector Color WHITE	Ē								]
	٩								
ς;		TH.S.	16 2	16 26 36 46 56 66 76 86 96 10G					
Terminal No. Wire	Signal Name		G 12G 13G 14G 1	11G 12G 13G 14G 15G 16G 17G 18G 19G 20G 21G 22G 23G 24G 25G 26G 27G 28G 29G 30G					
1 W/R	ı	31	3263363463	316 326 336 346 356 386 326 386 396 406 416					
2 GR	1		42G 43G 44G 4	42G 43G 44G 45G 46G 47G 48G 49G 50G					
3 LG	ı		3 526 536 546 55	51G 52G 53G 54G 55G 56G 57G 58G 59G 60G 61G	1				
4 B	ı		62G 63G 64G 6	626 636 646 656 666 676 686 696 706					
			766 7	76G   77G   78G   79G   90G					
Connector No E160		ON rotograph N	B37						
le le	FUSE BLOCK (J/B)	Connector Name	<u>_</u>	WIRE TO WIRE					
Connector Color WHITE	ш	Connector Color	olor WHITE						
(斯 (SQ <u> </u>		H.S.	7 6 5 4 6 16 15 14 13 1	12   11   10   9   8   1					
Terminal No. Wire	Signal Name	Terminal No.	Color of Wire	Signal Name					
5Q W/R		5	FIG	1					
		9	GR	ı					

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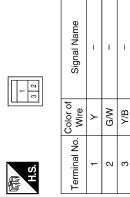
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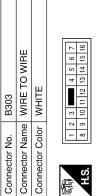
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Connector No.   B154	Connector No.   B209   Connector Name   FRONT SEAT HEATER LH
Terminal No.   Color of Wire   Signal Name   62J   LG   -   64J   GR   -	Connector No.   B200   Connector Name   WIRE TO WIRE   Connector Color   WHITE
Connector No. B69  Connector Name WIRE TO WIRE  Connector Color WHITE    1/1   2/1   3/1   4/1   5/1   8/1   3/1   1/1	Connector No.   B163

Connector No.	B307
Connector Name	Connector Name FRONT SEAT HEATER RH
Connector Color WHITE	WHITE







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# **PRECAUTION**

# **PRECAUTIONS**

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

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

#### **WARNING:**

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

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

## **WARNING:**

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

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- · Be sure to tighten bolts and nuts securely to the specified torque.
- · After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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# **PREPARATION**

# **PREPARATION**

# Special Service Tool

INFOID:0000000007328527

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

Tool number (Kent-Moore No.) Tool name		Description
— (J-39570) Chassis ear	SIIAO993E	Locating the noise
— (J-43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairing the cause of noise
	AWJIA0483ZZ	Removing trim components

# **Commercial Service Tool**

INFOID:0000000007328528

(Kent-Moore No.) Tool name		Description
(J-39565) Engine ear	SIIA0995E	Locating the noise

# **CLIP LIST**

# **Descriptions for Clips**

INFOID:0000000007831504

# Replace any clips which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
C101		Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.
C103	TTTT	Removal: Remove with a clip remover.
C203		Removal: Push center pin to catching position. (Do not remove center pin by hitting it.) Push Push Installation:
C205		Removal: Flat-bladed screwdriver Clip Finisher
C206		Removal:

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Symbol No.	Shapes	Removal & Installation
CE103		Removal:
CF110	Clip A	Removal:  Finisher Clip A  Flat-bladed screwdrivers  Clip B
CF118	Clip A Clip B (Grommet)	Removal:  Flat-bladed Finisher screwdrivers  Body panel  Clip A Clip B (Grommet)
CR103		Removal: Holder portion of clip must be spread out to remove rod.
CS101		Removal:  1. Screw out with a Phillips screwdriver.  2. Remove female portion with flat-bladed screwdriver.

SIIA0316E

Symbol No.	Shapes	Removal & Installation
CG101		Removal: Installation:  Rotate 45° to remove  Removal:
CS102	X)	
CS113		Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip.
C111		

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Symbol No.	Shapes	Removal & Installation
CG104		Removal: Remove by bending up with flat-bladed screwdrivers. Radiator grille Body panel
CE114		
CF118	Clip A  Clip B (Grommet)	Removal: Flat-bladed Finisher screwdrivers  Body panel Clip A Clip B (Grommet)

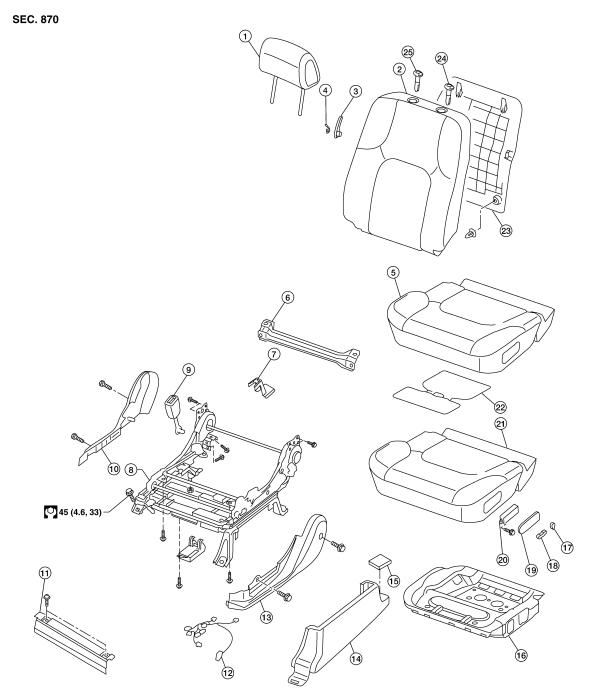
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# REMOVAL AND INSTALLATION

# **FRONT SEAT**

Component INFOID:0000000007328529 B

# **Power Driver Seat**



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# **FRONT SEAT**

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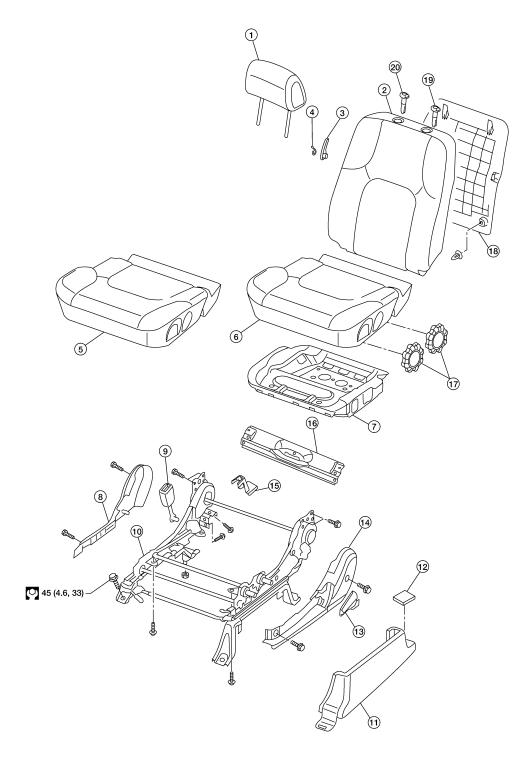
- 1. Headrest
- 4. Snap ring
- 7. Leg Cover
- 10. Seat cushion inner finisher
- 13. Seat cushion outer finisher
- 16. Seat cushion frame
- 19. Power seat switch escutcheon
- 22 Seat cushion heating element
- 25. Headrest holder

- 2. Seatback assembly
- 5. Seat cushion trim
- 8. Seat frame assembly
- 11. Seat cushion front finisher
- 14. Leg cover
- 17. Recliner switch knob
- 20. Switch assembly
- 23 Seatback board (if equipped)

- 3. Lumbar support lever knob
- 6. Power seat cushion rear finisher
- 9. Seat belt buckle assembly
- 12. Driver seat wiring harness
- 15. Bolt cover
- 18. Slide switch knob
- 21. Seat cushion pad
- 24. Headrest holder with multi position lock

# Manual Driver Seat

SEC. 870



AWJIA0467GB

1. Headrest

1. Snap ring

7. Seat cushion frame

10. Seat frame assembly

13. Recline lever

2. Seatback assembly

5. Seat cushion trim cover

8. Seat cushion inner finisher

11. Leg cover

14. Seat cushion outer finisher

3. Lumbar support lever knob

6. Seat cushion pad

9. Seat belt buckle assembly

12. Bolt cover

15. Leg cover

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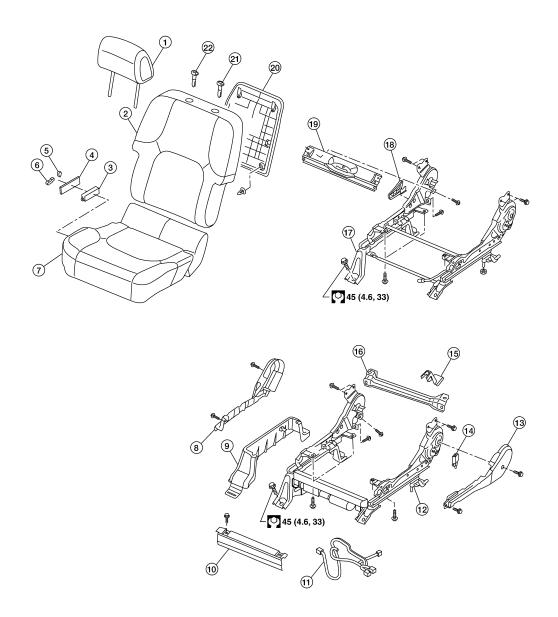
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- 16. Seat cushion rear finisher
- 19. Headrest holder with multi position lock
- 17. Seat cushion lift knobs
- 20. Headrest holder

18. Seatback board

# Conventional Passenger Seat

SEC. 870



AWJIA0468GB

- Headrest
- Power seat switch escutcheon
- Seat cushion assembly
- Seatback assembly with side air bag 3. 2.
- 5. Recliner switch knob
- 8. Seat cushion outer cover
- Switch assembly
- 6. Slide switch knob
- 9. Leg cover

# **FRONT SEAT**

# < REMOVAL AND INSTALLATION >

- 10. Seat cushion front finisher
- 13. Seat cushion inner finisher
- 16. Seat cushion rear finisher
- 19. Seat cushion rear finisher
- 22. Headrest holder

- 11. Passenger seat wiring harness
- 14. Seat belt buckle assembly
- 17. Manual seat frame assembly
- 20. Seatback board

- 12. Power seat frame assembly
- 15. Leg cover
- 18. Recline lever
- 21. Headrest holder with multi position

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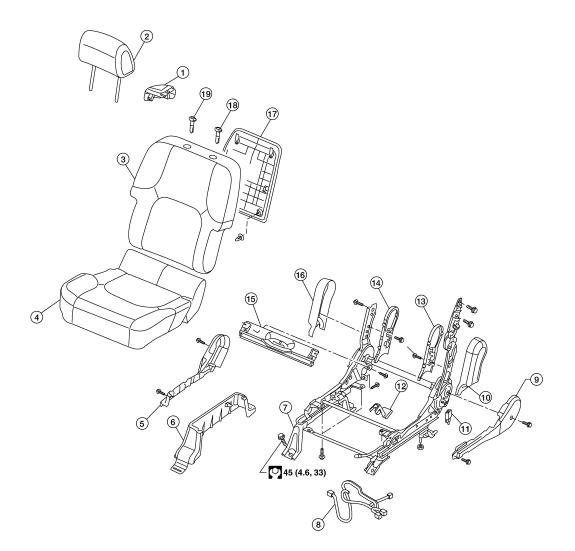
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Fold Flat Passenger Seat

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## FRONT SEAT

#### < REMOVAL AND INSTALLATION >

- 1. Front seatback lever
- 4. Seat cushion assembly
- 7. Seat frame assembly
- 10. Inboard reclining arm outer cover
- 13. Inboard reclining arm inner cover
- 16. Outboard reclining arm outer cover
- 19. Headrest holder

- 2. Headrest
- 5. Seat cushion outer finisher
- 8. Passenger seat wiring harness
- 11. Seat belt buckle assembly
- 14. Outboard reclining arm inner cover
- 17. Seatback board

- 3. Seatback assembly
- 6. Leg cover
- 9. Seat cushion inner cover
- Leg cover
- 15. Seat cushion rear finisher
- 18. Headrest holder with multi position lock

## Removal and Installation

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## REMOVAL

When removing or installing the seat trim, handle it carefully to keep dirt out and avoid damage.

## **CAUTION:**

- Before removing the front seat, turn the ignition switch off, disconnect both battery terminals and wait at least 3 minutes.
- When checking the power seat circuit for continuity using a circuit tester, do not confuse its connector with the side air bag module connector. Such an error may cause the air bag to deploy.
- Do not drop, tilt, or bump the side air bag module while installing the seat. Always handle it with care.
- After front side air bag module inflates, front seatback assembly must be replaced.
- Front passenger seat is equipped with an Occupant Classification System sensor and control module. Do not disassemble front passenger seat cushion assembly or remove the trim as this will affect the Occupant Classification System calibration.
- · Always replace passenger seat cushion as an assembly.
- 1. Slide the seat until the four mount bolts are visible and a suitable tool can be inserted.

#### NOTE:

Set the front/rear cushion lifters to the top position.

- 2. Disconnect both battery terminals and wait at least 3 minutes.
- 3. Disconnect the side air bag module harness connector.
- 4. Remove the leg covers.
- 5. Remove the four front seat bolts.
- 6. Disconnect the power seat harness connectors and remove the seat from the vehicle.

#### NOTE:

When removing and installing the seat, use shop cloths to protect the vehicle from damage.

## INSTALLATION

Installation is in the reverse order of removal.

# **REAR SEAT**

# Removal and Installation

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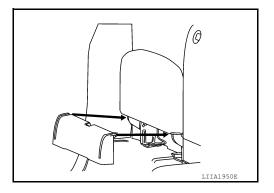
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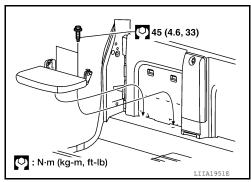
# JUMP SEAT (KING CAB)

## Removal

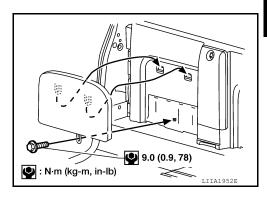
1. Remove seat base trim panel.



2. Remove the seat cushion bolts and assembly.



Remove the bolt, lift and remove the seatback assembly.



Installation

Installation is in the reverse order of removal.

# BENCH SEAT LH (CREW CAB)

## Removal

1. Remove the seat hinge finishers.

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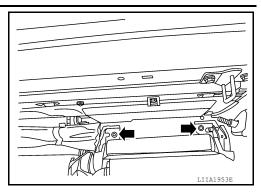
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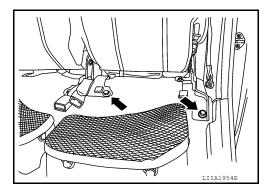
# **REAR SEAT**

# < REMOVAL AND INSTALLATION >

Release the seatback latch and tilt the seatback down. Remove the nuts.



- 3. Raise the seatback.
- 4. Tilt the seat cushion up.
- 5. Remove the seat bolts.
- 6. Remove the seat.



#### Installation

Installation is in the reverse order of removal.

#### NOTE:

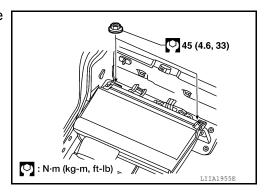
Make sure the washers are on the rear studs prior to seat assembly installation.

Seat nuts : 45 N·m (4.6 kg-m, 33 ft-lb) Seat bolts : 45 N·m (4.6 kg-m, 33 ft-lb)

# BENCH SEAT RH (CREW CAB)

## Removal

- 1. Remove the seat hinge finishers.
- 2. Release the seatback latch and tilt the seatback down. Remove the nuts.

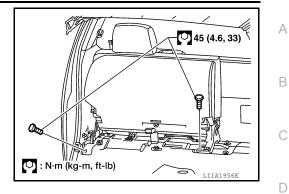


3. Raise the seatback.

# **REAR SEAT**

# < REMOVAL AND INSTALLATION >

- Remove the seat belt buckle from the cushion.
- 5. Remove the seat bolts.
- 6. Remove the seat assembly.



## Installation

Installation is in the reverse order of removal.

## NOTE:

Make sure the washers are on the rear studs prior to seat assembly installation.

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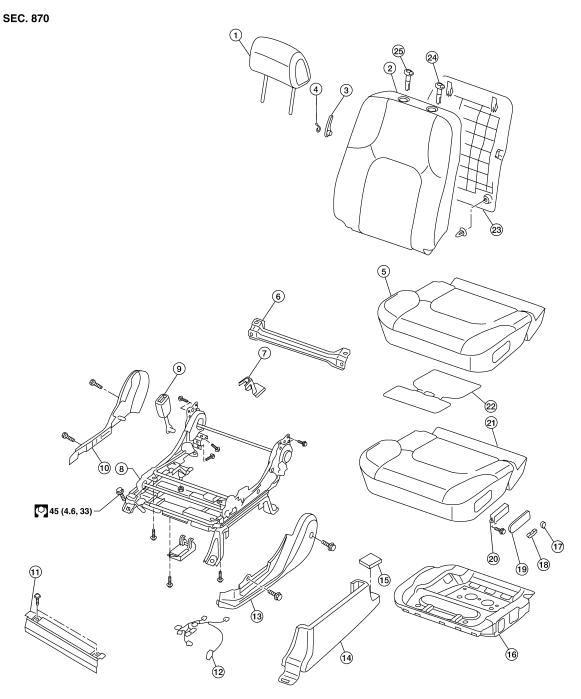
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# **UNIT DISASSEMBLY AND ASSEMBLY**

# **FRONT SEAT**

Component INFOID:000000007328532

# **Power Driver Seat**



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< UNIT DISASSEMBLY AND ASSEMBLY >					
1.	Headrest	2.	Seatback assembly	3.	Lumbar support lever knob
4.	Snap ring	5.	Seat cushion trim	6.	Power seat cushion rear finisher
7.	Leg Cover	8.	Seat frame assembly	9.	Seat belt buckle assembly
10.	Seat cushion inner finisher	11.	Seat cushion front finisher	12.	Driver seat wiring harness
13.	Seat cushion outer finisher	14.	Leg cover		Bolt cover
16.	Seat cushion frame	17.	Recliner switch knob	18.	Slide switch knob
19.	Power seat switch escutcheon	20.	Switch assembly	21.	Seat cushion pad
22	Seat cushion heating element	23	Seatback board (if equipped)	24.	Headrest holder with multi position lock
25.	Headrest holder				

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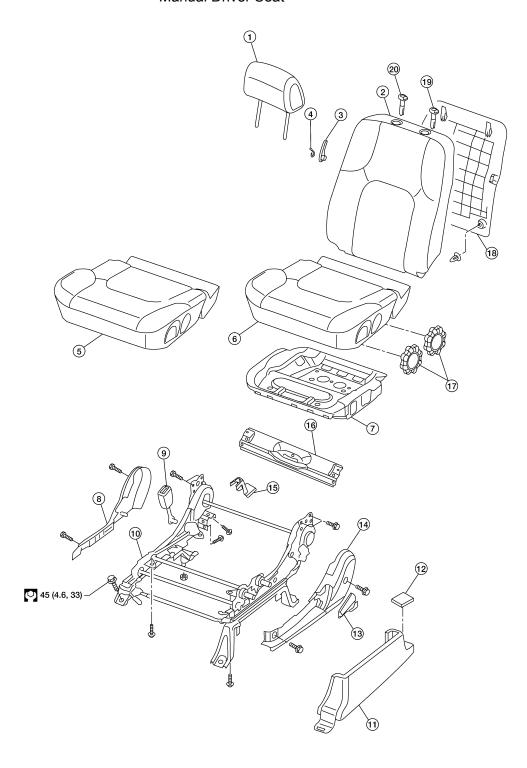
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### **Manual Driver Seat**

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- 1. Headrest
- Snap ring
- 7. Seat cushion frame
- 10. Seat frame assembly
- 13. Recline lever

- 2. Seatback assembly
- Seat cushion trim cover
- 8. Seat cushion inner finisher
- 11. Leg cover
- 14. Seat cushion outer finisher
- 3. Lumbar support lever knob
- 6. Seat cushion pad
- 9. Seat belt buckle assembly
- 12. Bolt cover
- 15. Leg cover

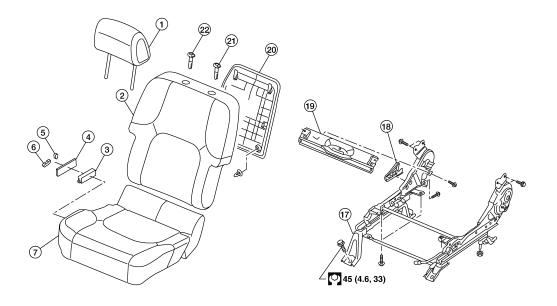
### < UNIT DISASSEMBLY AND ASSEMBLY >

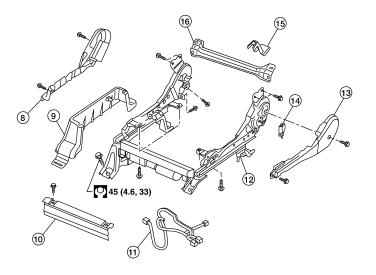
- 16. Seat cushion rear finisher
- 19. Headrest holder with multi position lock
- 17. Seat cushion lift knobs
- 20. Headrest holder

#### 18. Seatback board

### Conventional Passenger Seat

SEC. 870





AWJIA0468GB

1. Headrest

4. Power seat switch escutcheon

7. Seat cushion assembly

2. Seatback assembly with side air bag 3.

5. Recliner switch knob

8. Seat cushion outer cover

Switch assembly

6. Slide switch knob

9. Leg cover

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### < UNIT DISASSEMBLY AND ASSEMBLY >

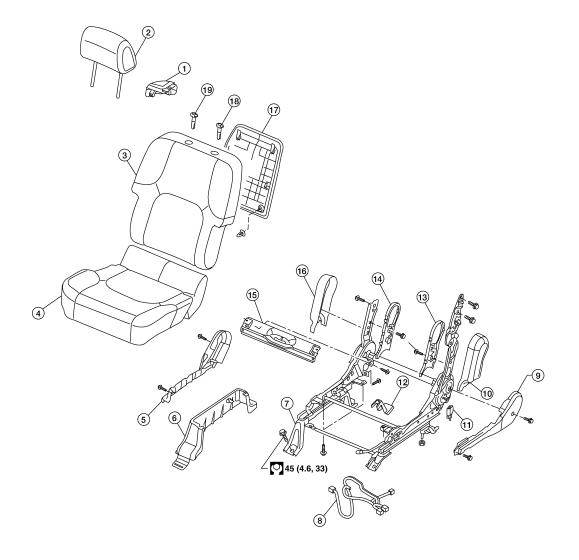
- 10. Seat cushion front finisher
- 13. Seat cushion inner finisher
- 16. Seat cushion rear finisher
- 19. Seat cushion rear finisher
- 22. Headrest holder

- 11. Passenger seat wiring harness
- 14. Seat belt buckle assembly
- 17. Manual seat frame assembly
- 20. Seatback board

- 12. Power seat frame assembly
- 15. Leg cover
- 18. Recline lever
- 21. Headrest holder with multi position lock

### Fold Flat Passenger Seat

SEC. 870



AWJIA0469GE

#### < UNIT DISASSEMBLY AND ASSEMBLY >

- Front seatback lever
   Seat cushion assembly
- Seat cushion assembly
   Seat frame assembly
- 10. Inboard reclining arm outer cover
- 13. Inboard reclining arm inner cover
- 16. Outboard reclining arm outer cover
- 19. Headrest holder

- 2. Headrest
- 5. Seat cushion outer finisher
- 8. Passenger seat wiring harness

14. Outboard reclining arm inner cover

- 11. Seat belt buckle assembly
- 17. Seatback board

- 3. Seatback assembly
- 6. Leg cover
- 9. Seat cushion inner cover
- 12. Leg cover
- 15. Seat cushion rear finisher
- Headrest holder with multi position lock

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Coothook Assembly

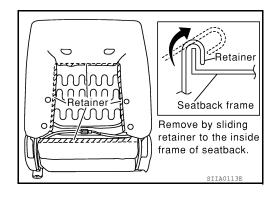
## Seatback Assembly

#### **REMOVAL**

#### NOTE:

On vehicles equipped with side air bags, only complete seatback assemblies can be replaced.

- 1. Remove the seatback board from the back of the seatback.
- 2. Remove the retainer.

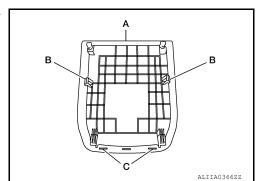


- Disconnect the seatback heater harness.
- Remove the seatback bolts (2 for each side) and seatback assembly.

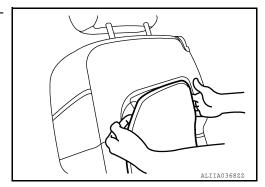
#### SEATBACK BOARD - SOFT SEATBACK

#### Removal

- 1. The seatback board is attached to the seat frame with the following:
  - Two top tabs (A)
  - · Two side tabs (B)
  - Two bottom clips (C) (must be replaced)
- 2. Move seat to forward position.



Hold the seatback board as shown and pull the top of the seatback board down and away from the seat back frame.



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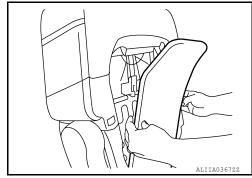
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### < UNIT DISASSEMBLY AND ASSEMBLY >

- 4. Pull the middle part of the seatback board to disengage the side tabs from the seatback frame.
- 5. Pull the lower part of the seatback board to disengage the bottom clips from the seatback frame.



#### Installation

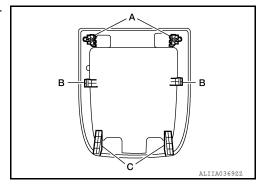
Installation is in the reverse order of removal.

- The two bottom clips must be replaced for installation
- · Secure the side tabs last for installation

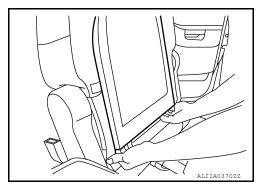
#### SEATBACK BOARD - HARD SEATBACK

#### Removal

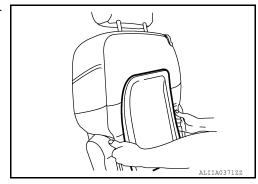
- 1. Remove the seatback assembly. Refer to <u>SE-32, "Removal and Installation"</u>.
- The seatback board is attached to the seat frame with the following:
  - Two top tabs (A)
  - Two side tabs (B)
  - Two bottom clips (C) (must be replaced)
- 3. Move seat to forward position.



4. Hold the seatback board as shown and pull the bottom of the seatback board away from the seat back frame.



5. Pull the middle part of the seatback board up and away to disengage the side tabs from the seatback frame.



#### < UNIT DISASSEMBLY AND ASSEMBLY >

Lift the upper part of the seatback board to disengage the top tabs from the seatback frame.

#### Installation

Installation is in the reverse order of removal.

- The two bottom clips must be replaced for installation
- Secure the side tabs last for installation

#### INSTALLATION

Installation is in the reverse order of removal.

### Seat Cushion Trim and Pad

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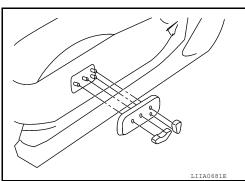
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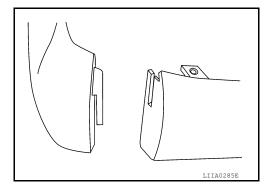
### REMOVAL

#### **CAUTION:**

- Front passenger seat is equipped with an Occupant Classification System sensor and control module. Do not disassemble front passenger seat cushion assembly or remove the trim as this will affect the Occupant Classification System calibration.
- Always replace passenger seat cushion as an assembly.
- When removed, the passenger seat cushion must always be placed pan side UP to prevent damage.
- During installation, the wire harness clips must be reinstalled in the holes they were originally in. Do not add additional clips.
- The Occupant Classification System control module can only be replaced as part of the seat cushion assembly.
- Remove the front seat assembly. Refer to SE-32, "Removal and Installation".
- 2. Remove the power seat switch knobs and power seat switch escutcheon (if equipped) (or lift knobs on manual seats).



3. Remove the seat cushion outer finisher.



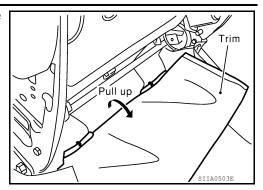
- Remove the power seat switch screws.
- Remove four bolts and the seat cushion assembly.

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### < UNIT DISASSEMBLY AND ASSEMBLY >

• On the fold flat passenger seat it is necessary to unclip the rear flap j-clip from the seat pan.



6. Remove the retainer on the seat cushion frame, then remove the harness connector for the seat cushion heater (if equipped).

#### **DISASSEMBLY**

#### **CAUTION:**

- Front passenger seat is equipped with an Occupant Classification System sensor and control module. Do not disassemble front passenger seat cushion assembly or remove the trim as this will affect the Occupant Classification System calibration.
- 1. Remove the seat cushion assembly.
- 2. On the drivers seat only, remove the hog rings to separate the trim cover from the pad and seat cushion heater unit.

#### **ASSEMBLY**

Assembly is in the reverse order of disassembly.

### **INSTALLATION**

Installation is in the reverse order of removal.

# Disassembly and Assembly

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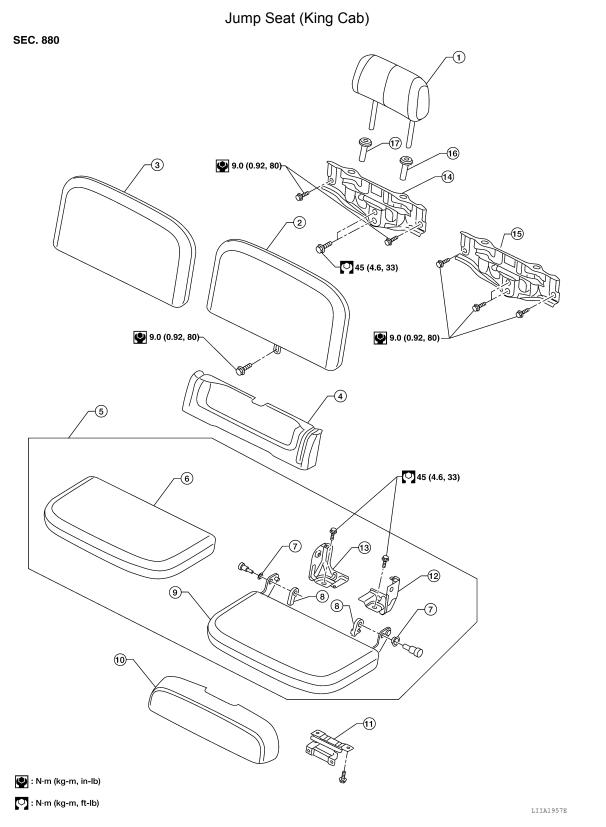
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. Headrest

4. Seat base trim panel

7. Bushing

2. Seatback pad and frame

5. Seat cushion assembly

8. Spacer

3. Seatback trim cover

6. Seat cushion trim cover

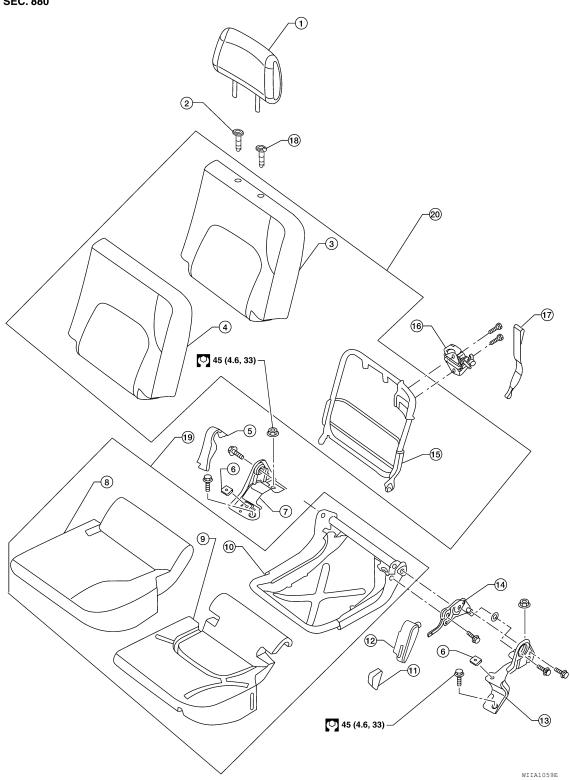
9. Seat cushion pad and frame

### < UNIT DISASSEMBLY AND ASSEMBLY >

- 10. Child seat extension (Passenger side 11. Child seat extension hinge only)
- 13. Outboard jump seat pivot riser
- 16. Inboard headrest locking guide
- 14. RH headrest plate
- 17. Outboard headrest guide
- 12. Inboard jump seat pivot riser
- 15. LH headrest plate

### Bench Seat LH (Crew Cab)

SEC. 880

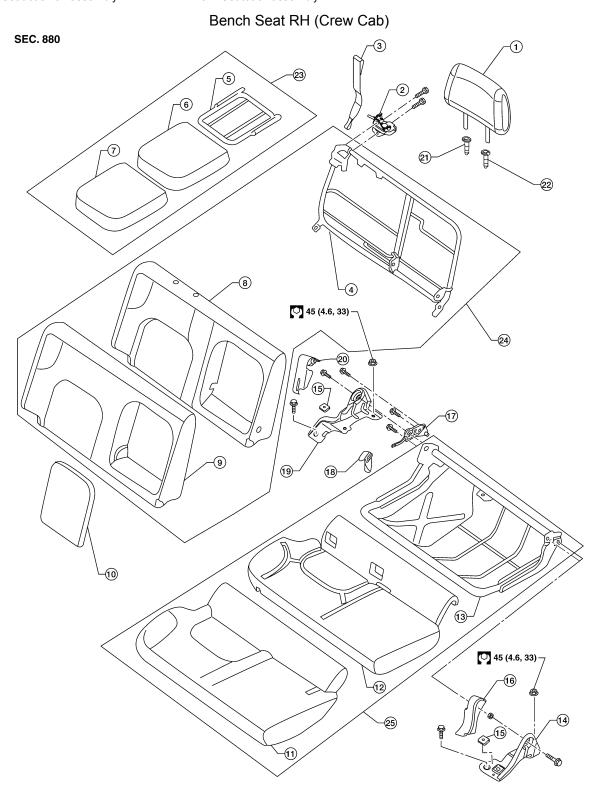


- Headrest
- Seatback trim cover
- 2. Inboard headrest guide
- 5. Inboard pivot cover
- 3. Seatback pad
- 6. Seat cushion bumper RH/LH

### < UNIT DISASSEMBLY AND ASSEMBLY >

- Inboard seat cushion pivot riser
- 10. Seat cushion pan
- 13. Outboard seat cushion pivot riser
- 16. Seatback latch assembly
- 19. Seat cushion assembly
- Seat cushion trim cover
- 11. Seat cushion hinge release handle
- 14. Seat cushion hinge assembly
- Seatback latch release strap
- 20. Seatback assembly

- Seat cushion pad 9.
- 12. Seat cushion hinge cover
- 15. Seatback frame
- Outboard headrest locking guide



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### < UNIT DISASSEMBLY AND ASSEMBLY >

- 1. Headrest
- 4. Seatback frame
- 7. Armrest trim cover
- 10. Seatback armrest opening board
- 13. Seat cushion frame
- 16. Inboard pivot riser cover
- 19. Outboard pivot riser
- 22. Inboard headrest locking guide
- 25. Seat cushion assembly

- 2. Seatback latch assembly
- 5. Armrest frame
- 8. Seatback pad
- 11. Seat cushion trim cover
- 14. Inboard pivot riser
- 17. Seat cushion hinge assembly
- 20. Outboard pivot riser cover
- 23. Armrest assembly

- 3. Seatback latch release strap
- 6. Armrest pad
- 9. Seatback trim cover
- 12. Seat cushion pad
- 15. Seat cushion bumper RH/LH
- 18. Seat cushion hinge release handle
- 21. Outboard headrest guide
- 24. Seatback assembly