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PRECAUTIONS

PRECAUTIONS PFP:00001

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death
 in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS 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 for Work

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- 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.
- 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 PFP:00002

Special Service Tool

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

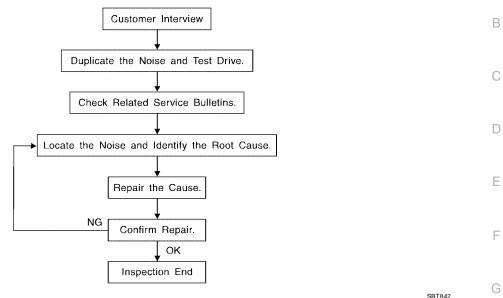
Tool number (Kent-Moore No.) Tool name		Description
 (J-39570) Chassis ear	SIIA0993E	Locating the noise
 (J-43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairing the cause of noise

Commercial Service Tool

EIS002M3

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES Work Flow PFP:00000 A



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 SE-9, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

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DUPLICATE THE NOISE AND TEST DRIVE

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

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

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on 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.

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.
 Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
- tapping or pushing/pulling the component that you suspect is causing the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks.
 Refer to SE-7, "Generic Squeak and Rattle Troubleshooting".

REPAIR THE CAUSE

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

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged. Always check with the Parts Department for the latest parts information.

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

INSULATOR (Foam blocks)

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

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

INSULATOR (Light foam block)

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

FELT CLOTH TAPE

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

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

UHMW (TEFLON) TAPE

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

SILICONE GREASE

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

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- Instrument panel mounting 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. Shifter assembly cover to finisher
- A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

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

DOORS

Pay attention to the:

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

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

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TRUNK

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

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

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

SUNROOF/HEADLINING

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

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

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

OVERHEAD CONSOLE (FRONT AND REAR)

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

- Loose harness or harness connectors.
- Front console map/reading lamp lense 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
- 3. The rear seatback lock and bracket

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

- 1. Any component 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
- 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

EIS0030 V



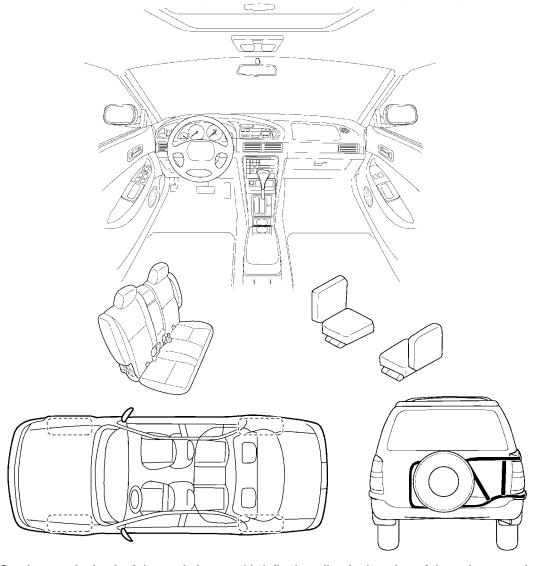
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 DOESTHE 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 the back 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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SQUEAK & RATTLE DIAGNOSTIC WORKSHEET- page 2 Briefly describe the location where the noise occurs: II. WHEN DOES IT OCCUR? (check the boxes that apply) □ anytime after sitting out in the sun ☐ 1st time in the morning ☐ when it is raining or wet ☐ dry or dusty conditions ☐ only when it is cold outside under only when it is hot outside u other: IV. WHAT TYPE OF NOISE? III. WHEN DRIVING: ☐ 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 at about ____ mph ☐ knock (like a knock on a 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) □ buzz (like a bumble bee) ☐ with passengers or cargo u other: _ ☐ after driving ____ miles or ____ minutes TO BE COMPLETED BY DEALERSHIP PERSONNEL **Test Drive Notes:** Initials of person YES NO 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

AUTOMATIC DRIVE POSITIONER Component Parts And Harness Connector Location

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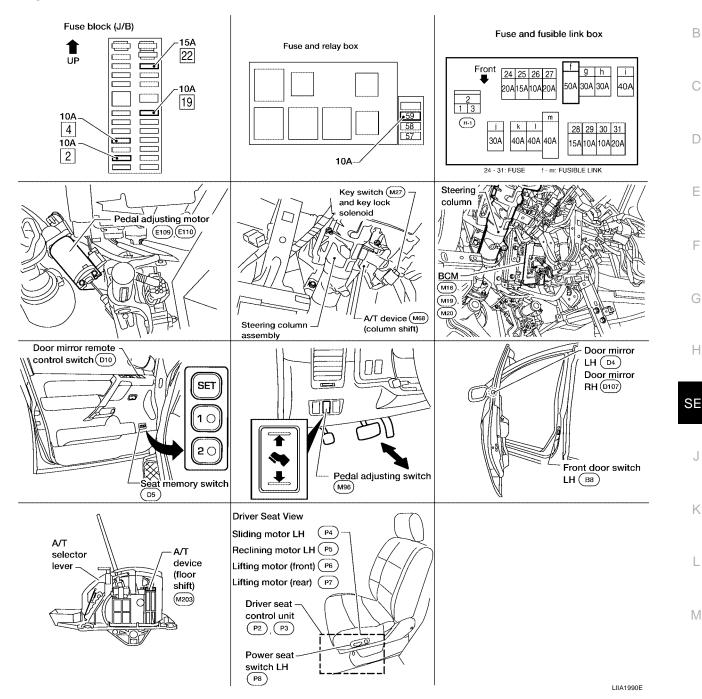
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Manual Operation

The driving position (seat position, pedal position [accelerator, brake] and door mirror position) can be adjusted with the power seat switch LH, pedal adjusting switch or door mirror switch.

- The door mirrors can be manually operated with the ignition switch turned ACC or ON.
- Adjusting pedal operates only when A/T selector lever is in P position (except when ignition switch turned to OFF).
- If A/T device (detent switch) error is detected, manual adjustable pedal operation cannot be performed when ignition switch turns ON.

Automat	ic Operation	EIS002M8
	Function	Description
Memory operation		The seat, pedal (accelerator, brake) and door mirror move to the stored driving position by pushing seat memory switch (1 or 2).
Entry/Exit-	Exiting operation	At Exit, the seat moves backward. (Exiting position)
ing function	Entry operation	At entry, the seat returns from Exiting position to the previous driving position before the Exiting operation.
Keyfob interlock operation		Perform memory operation, turnout operation and return operation by pressing keyfob unlock button.

NOTE:

- Disconnecting the battery erases the stored memory.
- After connecting the battery, insert the key into the ignition cylinder and turn the front door switch LH ON (open)→OFF (close)→ON (open), the Entry/Exiting function becomes possible.
- After Exiting operation is carried out, return operation can be operated.

Auto operation temporary stop conditions.	When ignition switch is turned to START during seat memory switch operation and return operation, seat memory switch operation and return operation is stopped.		
	When the vehicle speed becomes 7 km/h (4 MPH) or higher (memory switch operation and entry operation).		
	When the setting switch, seat memory switch 1 or 2 are pressed.		
	When A/T selector lever is in any position other than P.		
Auto operation stop conditions.	When the door mirror switch is operated (when ignition switch turned to ON).		
	When power seat switch turned ON.		
	When pedal adjusting switch turned ON.		
	When front seat sliding Entry/Exiting setting is OFF (entry/exiting operation).		

NOTE:

During automatic operation, if the ignition switch is turned $ON \rightarrow START$, the automatic operation is suspended. When the ignition switch returns to ON, it resumes.

System Description

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- The system automatically moves the front seat to facilitate entry/exit to/from the vehicle. The driver seat
 control unit can also store the optimum driving positions (front seat, pedal position and door mirror position) for 2 people. If the front seat is changed, one-touch operation allows changing to the other driving
 position.
- The settings (ON/OFF) of the automatic sliding seat (Entry/Exiting operation) at entry/exit can be changed
 as desired, using the display unit in the center of the instrument panel. The set content is transmitted by
 CAN communication, from display unit (without NAVI) or display control unit (with NAVI) to driver seat control unit.
- Using CONSULT-II, the seat slide amount at entry/exit setting can be changed.

FAIL-SAFE MODE

When any manual and automatic operations are not performed, if any motor operations of seats or pedals are detected for T2 or more, status is judged "Output error".

OPERATED PORTION	T2
Seat sliding	Approx. 0.1 sec.
Seat reclining	Same as above
Seat lifting (Front)	Same as above
Seat lifting (Rear)	Same as above
Pedal adjust	Same as above

CANCEL OF FAIL-SAFE MODE

The mode is cancelled when the selector lever is shifted to P position from any other position.

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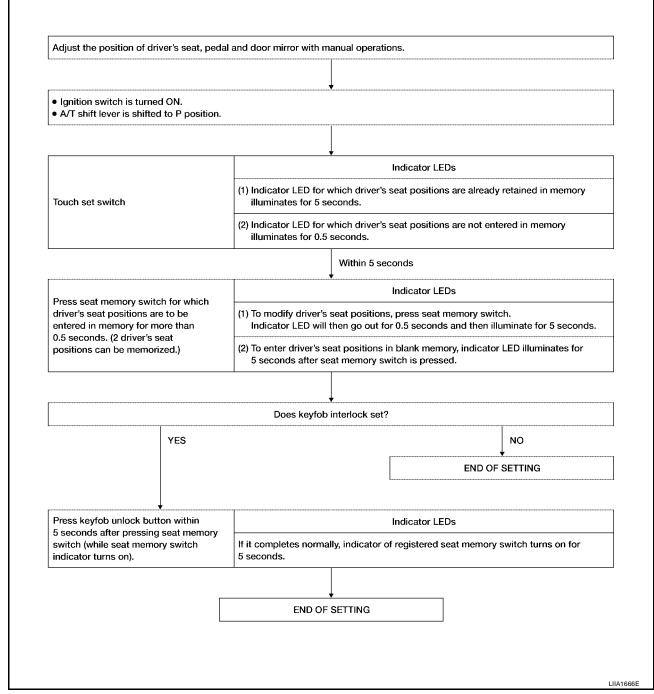
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MEMORY STORING AND KEYFOB INTERLOCK STORING

- Store the 2 driving positions and shifts to the stored driving position with the memory switch.
- Keyfob interlock function is set simultaneously with setting driving position memory. It can set driving position to memory position.



NOTE:

- If another keyfob interlock function setting is performed by same key, the newly registered setting is valid.
- If a new memory string is performed to memory switch that already set keyfob interlock function, keyfob
 interlock function setting is reset.
- If the keyfob has not been previously programmed to the vehicle, keyfob interlock function cannot set.

MEMORY OPERATION

Selecting the memorized position.

Turn ignition switch "ON" and press desired seat memory switch for more than 0.5 seconds. (Indicator LED illuminates.)

The driver's seat, door mirror, accelerator pedal and brake pedal will move to their memorized positions. (During adjustments, indicator LED flashes, then illuminates for 5 seconds after adjustment.)

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NOTE:

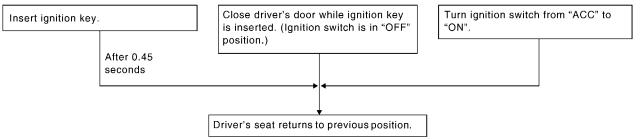
The front seat position and pedal adjustment functions (see the following table) operate simultaneously in the order of priority.

Priority	Function	Priority	Function
1	Seat sliding, (door mirror LH/RH)*	4	Seat lifter-FR
2	Pedal	5	Seat lifter-RR
3	Seat reclining		

^{*:} In conjunction with sliding the seat, the door mirrors are positioned.

ENTRY OPERATION

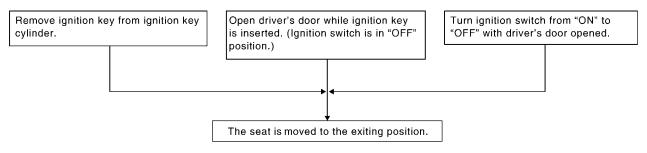
When the seat is in the exiting position, the following operation moves the seat to the previous position before the exiting operation.



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EXITING OPERATION

At Entry/Exiting, the seat is automatically moved to the exiting position.



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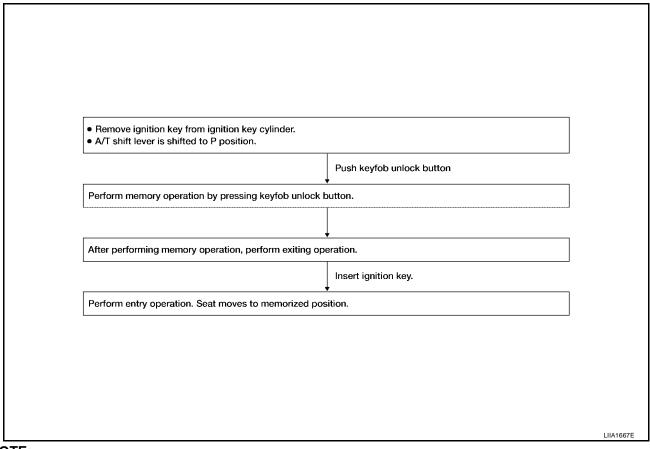
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KEYFOB INTERLOCK OPERATION

 The system performs memory operation, exiting operation and return operation by pressing keyfob unlock button.



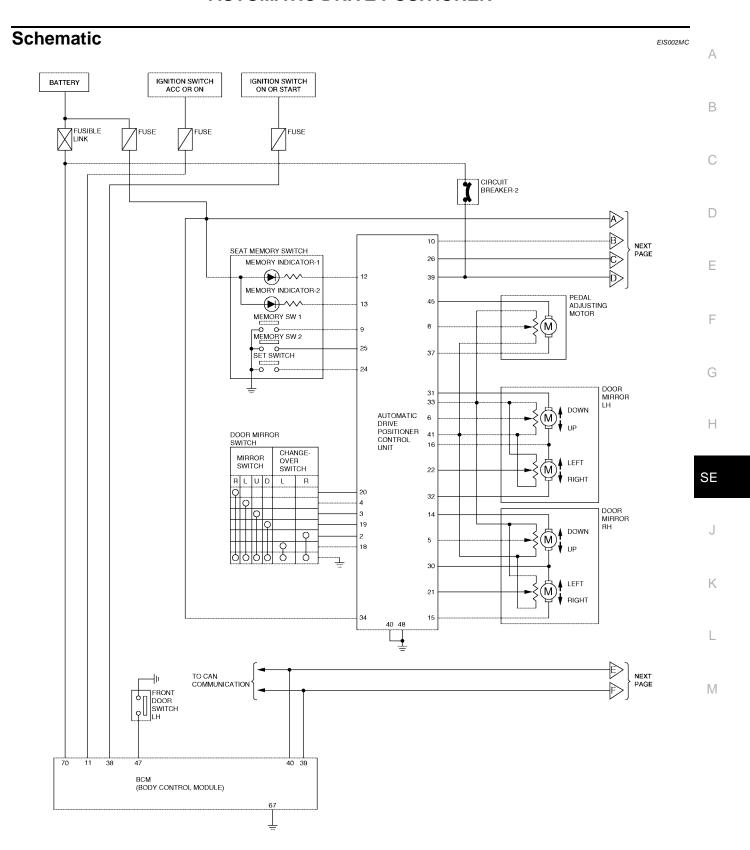
NOTE:

- If Entry/Exiting operation is cancelled, the system performs memory operation only.
- If ignition switch turns ON in the middle of memory operation, the system does not perform exiting operation after memory operation.
- If ignition switch turns ON in the middle of exiting operation, entry operation starts at that time.

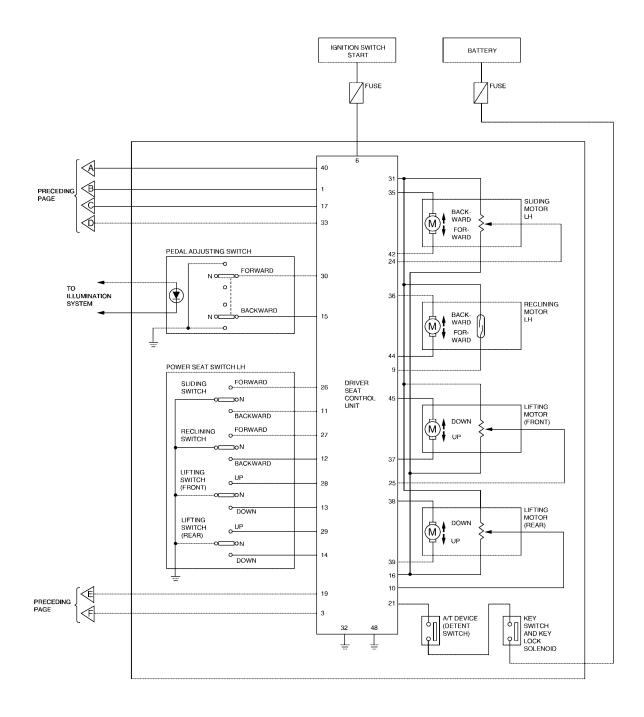
CAN Communication System Description

EIS002MB

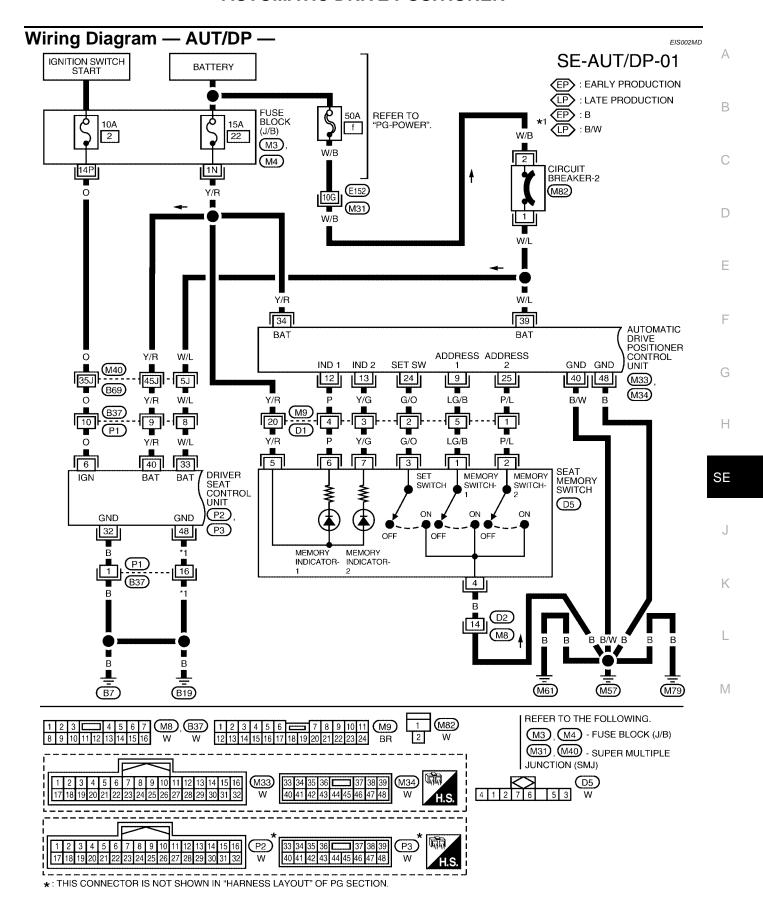
Refer to LAN-8, "CAN COMMUNICATION" .



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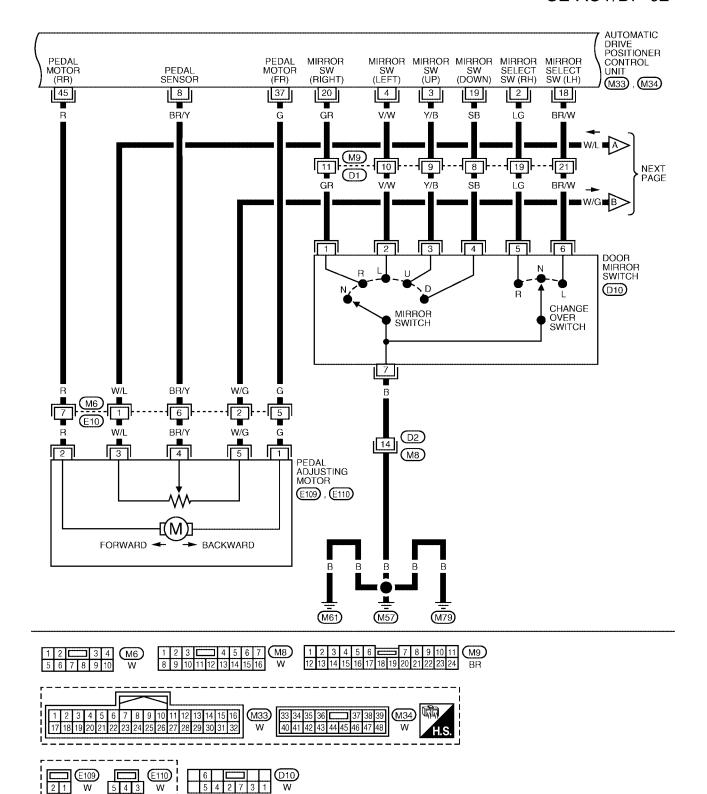


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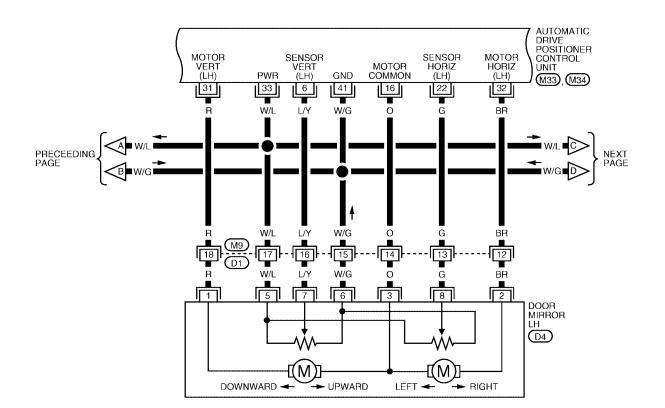
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SE-AUT/DP-02



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SE-AUT/DP-03



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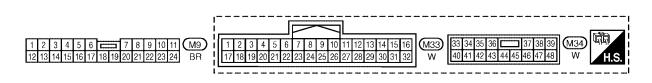
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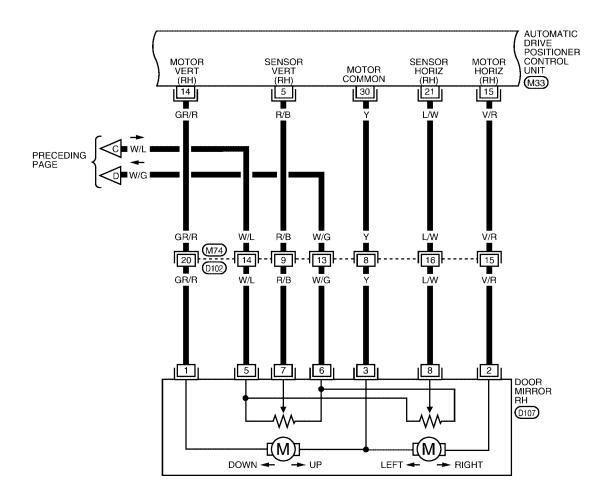
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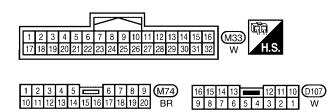




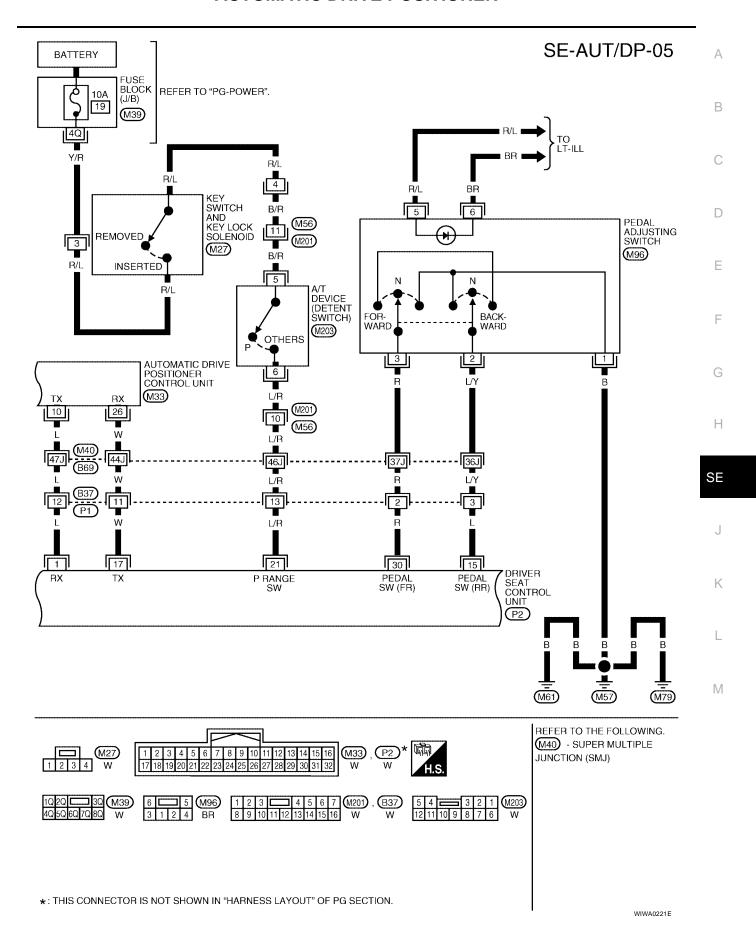
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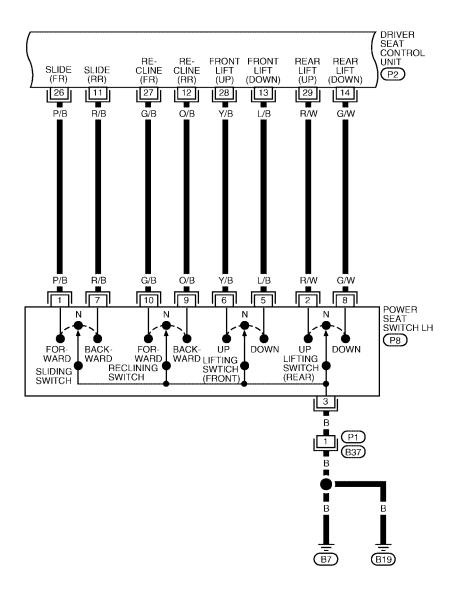


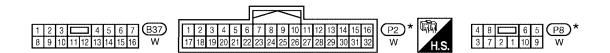


WIWA0220E



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*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

WIWA0222E

SE-AUT/DP-07

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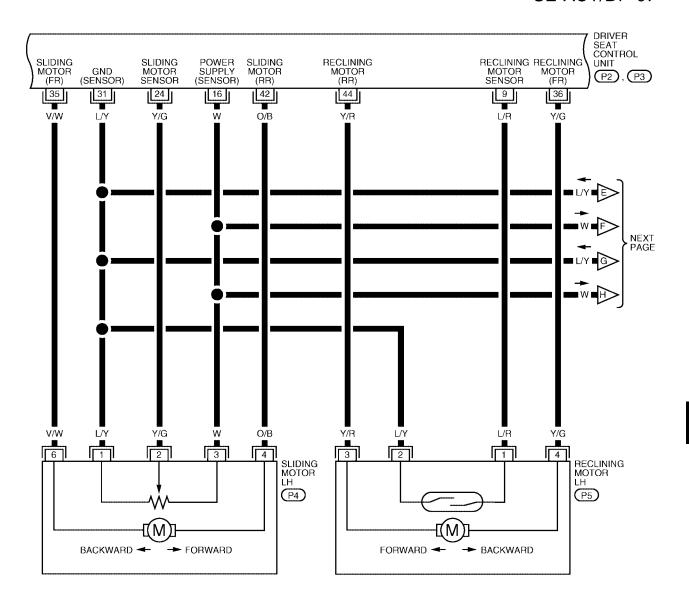
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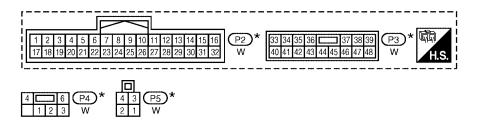
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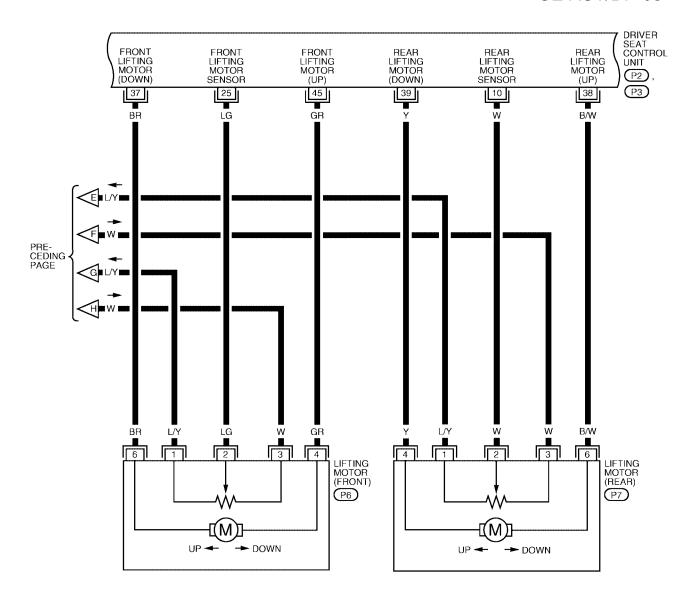


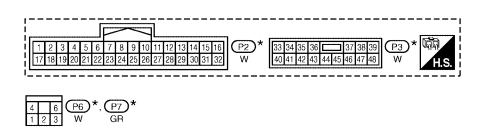


 $\ensuremath{\star}$: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

WIWA0223E

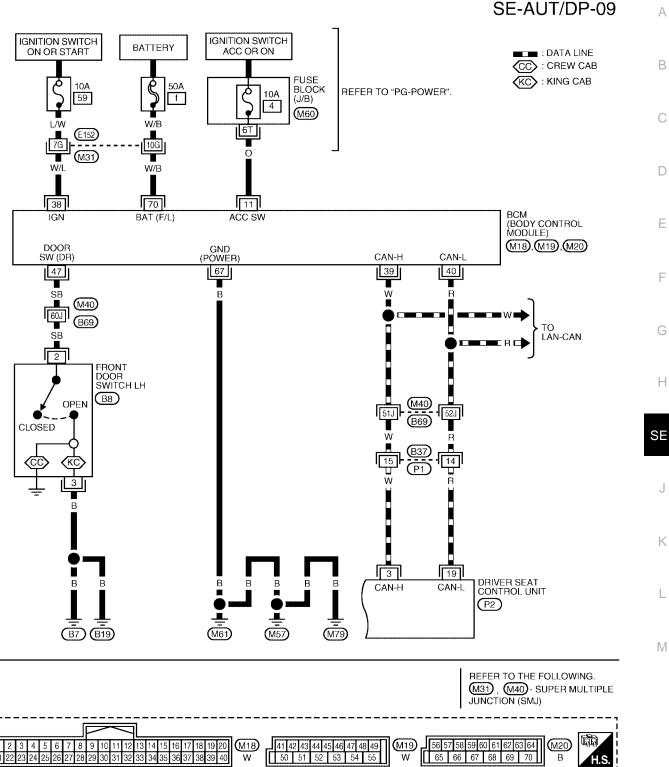
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*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

WIWA0224E



*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

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Terminals and Reference Values for BCM

FISO02M

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
11	0	Ignition switch (ACC or ON)	Ignition switch (ACC or ON position)	Battery voltage
38	W/L	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage
39	W	CAN-H	_	_
40	R	CAN-L	_	_
47	SB	Front door switch LH	ON (Open) → OFF (Closed)	0 → Battery voltage
67	В	Ground	_	0
70	W/B	Battery power supply (Fusible link)	_	Battery voltage

Terminals and Reference Values for Driver Seat Control Unit

EIS002MF

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)	
1	L	UART LINE (RX)	Pedal adjusting switch ON (FOR-WARD or BACKWARD operation)	(V) 6 4 2 0 1 ms	
3	W	CAN-H	_	-	
6	0	Ignition switch (START)	Ignition switch (START position)	Battery voltage	
9	L/R	Reclining motor sensor signal	ON (seat reclining motor operation)	(V) 6 4 2 0 ***50ms	
			Other than above	0 or 5	
10 W	W	N Rear lifting motor sensor signal	ON (rear lifting motor operation)	(V) 6 4 2 0 	
				Other than above	0 or 5
11	R/B Sliding switch B	Sliding switch BACKWARD sig-	ON (seat sliding switch BACK-WARD operation)	0	
		nai	Other than above	Battery voltage	
12	O/B	O/B Reclining switch BACKWARD signal	ON (seat reclining switch BACK-WARD operation)	0	
			Other than above	Battery voltage	
13	L/B	L/B Front lifting switch DOWN signal	ON (front lifting switch DOWN operation)	0	
			Other than above	Battery voltage	

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
14	G/W Rear lifting switch DOWN sign	Rear lifting switch DOWN signal	ON (rear lifting switch DOWN operation)	0
			Other than above	Battery voltage
15	L/Y	Pedal adjusting switch BACK- WARD signal	ON (pedal adjusting switch BACK-WARD operation)	0
		WAILD SIGNAL	Other than above	Battery voltage
16	W	Seat sensor power	Ignition switch ON	5
17	W	UART LINE (TX)	Pedal adjusting switch ON (FOR-WARD or BACKWARD operation)	(V) 6 4 2 0 2 ms
19	R	CAN-L	_	<u> </u>
			Selector lever in P position	0
21	L/R	A/T device (detent switch) signal	Selector lever other than P position with ignition key in ignition cylinder	Battery voltage
24	Y/G	Seat sliding motor sensor signal	ON (seat sliding motor operation) Other than above	(V) 6 4 2 0 50 ms PIIA3277E
			Other than above	
25	LG	Front lifting motor sensor signal	ON (front lifting motor operation)	(V) 6 4 2 0 ***50ms
			Other than above.	0 or 5
26	P/B	Seat sliding switch FORWARD signal	ON (seat sliding switch FOR- WARD operation)	0
		Signal	Other than above	Battery voltage
27	G/B	Seat reclining switch FOR- WARD signal	ON (seat reclining switch FOR-WARD operation)	0
		WALD SIGNAL	Other than above	Battery voltage
28	Y/B	/B Front lifting switch UP signal	ON (front lifting switch UP operation)	0
			Other than above	Battery voltage
29	R/W	Rear lifting switch UP signal	ON (rear lifting switch UP operation)	0
		, and a g a man or engine.	Other than above	Battery voltage
30 R	R Pedal adjusting switch FOR-	ON (pedal adjusting switch FOR-WARD operation)	0	
		WARD signal	Other than above	Battery voltage

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TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
31	L/Y	Sensor ground —		0
32	В	Ground	_	0
33	W/L	Battery power supply (PTC)	_	Battery voltage
35	V/W	Sliding motor FORWARD out- put signal	Sliding switch FORWARD operation (Motor operated)	Battery voltage
		put signal	Other than above	0
36	Y/G	Reclining motor FORWARD output signal	Reclining switch FORWARD operation (Motor operated)	Battery voltage
		put signal	Other than above	0
37	BR	Front lifting motor DOWN output	Front lifting switch DOWN operation (Motor operated)	Battery voltage
		signal	Other than above	0
38	B/W	Rear lifting motor UP output signal	Rear end lifting switch UP operation (Motor operated)	Battery voltage
			Other than above	0
39	Y	Rear lifting motor DOWN output	Rear end lifting switch DOWN operation (Motor operated)	Battery voltage
		signal	Other than above	0
40	Y/R	Ignition switch (ACC or ON)	Ignition switch (ACC or ON position)	Battery voltage
42	O/B	Sliding motor BACKWARD out-	Sliding switch BACKWARD operation (Motor operated)	Battery voltage
		put signal	Other than above	0
44	Y/R	Reclining motor BACKWARD	Reclining switch BACKWARD operation (Motor operated)	Battery voltage
		output signal	Other than above	0
45	GR	Front lifting motor UP output signal	Front lifting switch UP operation (Motor operated)	Battery voltage
		iidi	Other than above	0
48	В	Ground	_	0

Terminals and Reference Values for Automatic Drive Positioner Control Unit

EIS002MG

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
2	LG	Changeover switch RH signal	Changeover switch in RH position	0
2	LG	Changeover Switch KH Signal	Other than above	5
3	Y/B	Mirror awitah LID ajanal	Mirror switch in UP position	0
3	1/0	Mirror switch UP signal	Other than above	5
4	V/A/ A/: :: 1.1557 :: 1	Mirror switch in LEFT position	0	
4 V/W	Mirror switch LEFT signal	Other than above	5	
5	R/B	Mirror sensor (RH vertical) signal	Mirror motor RH is operated UP or DOWN	Changes between 3.4 (close to peak) 0.6 (close to valley)
6	L/Y	Mirror sensor (LH vertical) signal	Mirror motor LH is operated UP or DOWN	Changes between 3.4 (close to peak) 0.6 (close to valley)
8	BR/Y	Dadal agner input signal	Pedal position front end	0.5
	DK/Y	Pedal sensor input signal	Pedal position rear end	4.5

	WIDE			VOLTAGE AA										
TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)										
0	LG/B	Seat memory switch 1 signal	Memory switch 1 ON	0										
9	LG/B	Seat memory switch i signal	Memory switch 1 OFF	5										
10	L	UART LINE (TX)	Pedal adjusting switch ON (FOR-WARD or BACKWARD operation)	(V) 6 4 2 0 1 ms										
12	P	Seat memory switch indictor 1	Memory switch 1 ON	0										
12		signal	Memory switch 1 OFF	Battery voltage										
13	Y/G	Seat memory switch indictor 2	Memory switch 2 ON	0										
13	1/G	signal	Memory switch 2 OFF	Battery voltage										
14	GR/R	Mirror motor RH UP signal	Mirror motor RH is operated UP	1.5 - Battery voltage										
14	GR/R	will of motor Kri or signal	Other than above	0										
15	V/R	Missas mates DIII EET aignal	Mirror motor RH is operated LEFT	1.5 - Battery voltage										
15	V/K	Mirror motor RH LEFT signal	Other than above	0										
				Missas mater III DOWN signal	Mirror motor LH is operated DOWN	1.5 - Battery voltage								
16			Mirror motor LH DOWN signal	Other than above	0									
10	0	Mirror motor LH RIGHT signal	Mirror motor LH is operated RIGHT	1.5 - Battery voltage										
			Other than above	0										
4.0	DD AA4	Changa ayar ayyitah III aigaal	Changeover switch in LH position	0										
18	BR/W	BR/W Changeover switch LH signal	Other than above	5										
40	0.0	OD	CD	CD	CD	CD	CD	CD	CD.	CD	CD.	M: : I DOWN : I	Mirror switch in DOWN position	0
19	SB	Mirror switch DOWN signal	Other than above	5										
20	0.0	M: : DIOLIT :	Mirror switch in RIGHT position	0										
20	GR	Mirror switch RIGHT signal	Other than above	5										
21	L/W	Mirror sensor (RH horizontal) signal	Mirror motor RH is operated LEFT or RIGHT	Changes between 3.4 (close to left edge) 0.6 (close to right edge)										
22	G	Mirror sensor (LH horizontal) signal	Mirror motor LH is operated LEFT or RIGHT	Changes between 3.4 (close to left edge) 0.6 (close to right edge)										
0.4	0/0	Cook mamanastas 201	Set switch 1 ON	0										
24	G/O	Seat memory set switch signal	Set switch 1 OFF	5										
	- "		Memory switch 2 ON	0										
25	P/L	Seat memory switch 2 signal	Memory switch 2 OFF	5										
26	w	UART LINE (RX)	Pedal adjusting switch ON (FOR-WARD or BACKWARD operation)	(V) 6 4 2 0 2 ms										
		Mirror motor RH DOWN signal	Mirror motor RH is operated DOWN	1.5 - Battery voltage										
30	Y		Other than above	0										
		Mirror motor RH RIGHT signal	Mirror motor RH is operated RIGHT	1.5 - Battery voltage										
		5 5.14	Other than above	0										

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
04	Б	Missas sa standidid paissa al	Mirror motor LH is operated UP	1.5 - Battery voltage
31	R	Mirror motor LH UP signal	Other than above	0
32	BR	Mirror motor LH LEFT signal	Mirror motor LH is operated LEFT	1.5 - Battery voltage
32	ВK	Will of Motor LH LEFT Signal	Other than above	0
33	W/L	Sensor power supply	_	5
34	Y/R	Ignition switch (ACC or ON)	Ignition switch (ACC or ON position)	Battery voltage
37 G	Pedal adjust motor FORWARD	Pedal adjust motor FORWARD operation (Motor operated)	Battery voltage	
	signal	Other than above	0	
39	W/L	Battery power supply	_	Battery voltage
40	B/W	Ground	_	0
41	W/G	Sensor ground	_	0
45	45 R	Pedal adjust motor BACK-	Pedal adjust motor BACKWARD operation (Motor operated)	Battery voltage
		WARD signal	Other than above	0
48	В	Ground	_	0

Work Flow

- 1. Check the symptom and customer's requests.
- 2. Understand the system description. Refer to SE-12, "System Description".
- 3. Perform the preliminary check. Refer to SE-33, "Preliminary Check".
- 4. Check the self-diagnosis, results using CONSULT-II. Refer to <u>SE-36, "CONSULT-II Function (AUTO DRIVE POS.)"</u>.
- 5. Repair or replace depending on the self-diagnostic results.
- 6. Based on the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to <u>SE-40</u>, "Symptom Chart" .
- 7. Does the automatic drive positioner system operate normally? If it is normal, GO TO 8. If it is not normal, GO TO 3.
- 8. Inspection End.

Preliminary Check SETTING CHANGE FUNCTION

The settings of the automatic driving positioner system can be changed, using CONSULT-II and the display in the center of the instrument panel.

×: Applicable -: Not applicable

Setting item	Content	CONSULT-II (WORK SUPPORT)	Display unit	Default setting	Factory setting
	The distance at exiting opera-	40mm		×	×
SEAT SLIDE VOLUME SET	tion can be selected from the	80mm	_	_	_
	following 3 modes.	150mm		_	_
Sliding Front Seat When Entry/ Exiting	The seat sliding turnout and return at entry/exit can be selected: ON (operated)—OFF (not operated)	ON	ON: Indicator lamp ON	_	×
Vehicle		OFF	OFF: Indicator lamp OFF	×	_
Reset custom settings*	All settings to default.	_	Default: Setting button ON	_	_

It is possible to set sliding front seat for entry/exit of vehicle by pressing set switch.

Content	Setting change operation	Indicator LEDs	
The seat sliding turnout and return at entry/exit can be operated.	Press the set switch for more than 10 seconds	Blinking twice	
The seat sliding turnout and return at entry/exit can not be operated.	Fress the set switch for more than 10 seconds	Blinking once	

^{*:} Setting of sliding front seat for entry/exit of vehicle is ON at factory-shipment. But if custom settings are reset, setting turns OFF.

NOTE:

After the setting is registered, the new setting is effective, even if the battery is disconnected.

POWER SUPPLY AND GROUND CIRCUIT INSPECTION

1. CHECK BCM FUSES

Check if any of the following fuses in the BCM are blown.

Unit	Power source	Fuse No.
	Battery power supply	f (50A)
ВСМ	ON or START power supply	59 (10A)
	ACC or ON power supply	4 (10A)

NOTE:

Refer to SE-11, "Component Parts And Harness Connector Location" .

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to SE-11, "Component Parts And Harness Connector Location".

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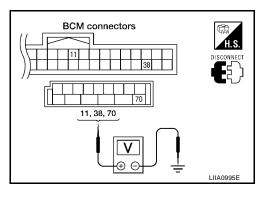
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2. CHECK BCM POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check voltage between BCM connector and ground.

Connector	Term (Wire		Power Ignition		Voltage (V) (Approx.)
	(+)	(-)	Source	SWITCH	(дриох.)
M20	70 (W/B)		Battery power supply	OFF	Battery voltage
M18	38 (W/L)	Ground	Ignition power supply	ON	Battery voltage
	11 (O)		ACC power supply	ACC	Battery voltage



OK or NG

OK >> GO TO 3.

NG >> Repair or replace the harness.

3. CHECK BCM GROUND CIRCUIT

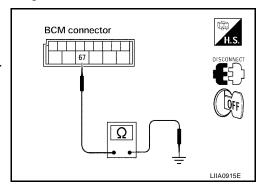
- 1. Turn ignition switch OFF.
- 2. Check continuity between BCM connector M20 terminals 67 (B) and ground.

: Continuity should exist.

OK or NG

OK >> BCM circuit is OK. Check the driver seat control unit. GO TO 4.

NG >> Repair or replace the harness.



4. CHECK DRIVER SEAT CONTROL UNIT FUSE

Check if any of the following fuses in the driver seat control unit and automatic drive positioner control unit are blown.

Unit	Power source	Fuse No.	
	START power supply	2 (10A)	
Driver seat control unit	Battery power supply	22 (15A)	
	Battery power supply	f (50A)	

NOTE:

Refer to SE-11, "Component Parts And Harness Connector Location".

OK or NG

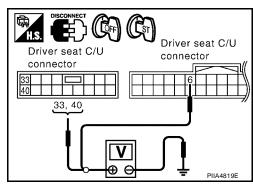
OK >> GO TO 5.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to <u>SE-11</u>, "Component Parts And Harness Connector Location".

5. CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

- 1. Disconnect driver seat control unit connector.
- 2. Check voltage between driver seat control unit connector and ground.

Connector		ninals color)	Power Ignition source switch		Voltage (V) (Approx.)
	(+)	(-)	Source	SWITCH	(дрргох.)
P3	33 (W/L)		Battery power supply	OFF	Battery voltage
PS	40 (Y/R)	Ground	Battery power supply	OFF	Battery voltage
P2	6 (O)		START power supply	START	Battery voltage



OK or NG

OK >> GO TO 6.

NG >> Repair or replace harness.

6. CHECK DRIVER SEAT CONTROL UNIT GROUND CIRCUIT

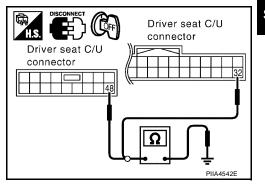
- 1. Turn ignition switch OFF.
- Check continuity between the driver seat control unit connector P2 terminal 32, P3 terminal 48 and ground.

32 (B) – Ground : Continuity should exist. 48 (B) – Ground : Continuity should exist.

OK or NG

OK >> Driver seat control unit circuit check is OK. Check automatic drive positioner control unit. GO TO 7.

NG >> Repair or replace harness.



7. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY CIRCUIT

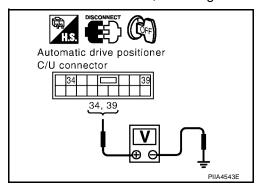
- 1. Disconnect automatic drive positioner control unit connector.
- 2. Check voltage between automatic drive positioner control unit connector M34 terminal 34, 39 and ground.

Connector	Terminals (Wire color)		Ignition switch	Voltage (V) (Approx.)
	(+)	(-)	SWILCH	(дриох.)
M34	34 (Y/R)	Ground	OFF	Battery voltage
10134	39 (W/L)	Giodila	OFF	Battery voltage

OK or NG

OK >> GO TO 8.

NG >> Repair or replace harness.



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8. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT GROUND CIRCUIT

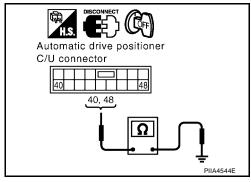
Check continuity between the automatic drive positioner control unit connector M34 terminal 40, 48 and ground.

40 (B/W) – Ground : Continuity should exist. 48 (B) – Ground : Continuity should exist.

OK or NG

OK >> Automatic drive positioner control unit circuit is OK.

NG >> Repair or replace harness.



CONSULT-II Function (AUTO DRIVE POS.)

EIS002MJ

CONSULT-II can display each diagnostic item using the diagnostic test modes shown following.

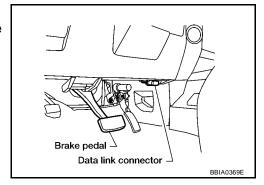
AUTO DRIVE POS. diagnostic mode	Description
WORK SUPPORT	Supports inspections and adjustments. Commands are transmitted to the driver seat control unit for setting the status suitable for required operation, input/output signals are received from the driver seat control unit and received data is displayed.
SELF-DIAG RESULTS	Displays driver seat control unit self-diagnosis results.
DATA MONITOR	Displays driver seat control unit input/output data in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.
ECU PART NUMBER	Driver seat control unit part number can be read.

CONSULT-II INSPECTION PROCEDURE

CAUTION:

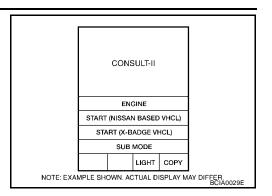
If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carries out CAN communication.

- 1. Turn ignition switch OFF.
- Connect CONSULT-II and CONSULT-II CONVERTER to the data link connector.



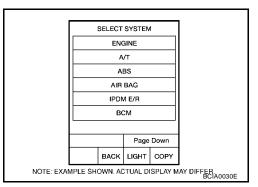
3. Turn ignition switch ON.

4. Touch "START (NISSAN BASED VHCL)".

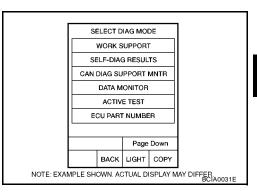


5. Touch "AUTO DRIVE POS".

If "AUTO DRIVE POS." is not indicated, refer to GI-38, "CONSULT-II Data Link Connector (DLC) Circuit".



 Select diagnosis mode.
 "DATA MONITOR", "ACTIVE TEST", "SELF-DIAG RESULTS", "ECU PART NUMBER" and "WORK SUPPORT" are available.



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SELF-DIAGNOSIS RESULTS DISPLAY ITEM LIST

CONSULT-II display	Item	Malfunction is detected when	Reference page
CAN COMM CIRC [U1000]	CAN communication	Malfunction is detected in CAN communication.	LAN-8
SEAT SLIDE [B2112]	Seat slide motor	When any manual and automatic operations are not performed, if any motor operations of seat slide is detected for 0.1 second or more, status is judged "Output error".	<u>SE-42</u> <u>SE-53</u>
SEAT RECLINING [B2113]	Seat reclining motor	When any manual and automatic operations are not performed, if any motor operations of seat reclining is detected for 0.1 second or more, status is judged "Output error".	<u>SE-43</u> <u>SE-54</u>
SEAT LIFTER FR [B2114]	Seat lifting FR motor	When any manual and automatic operations are not performed, if any motor operations of seat lifting FR is detected for 0.1 second or more, status is judged "Output error".	<u>SE-44</u> <u>SE-55</u>
SEAT LIFTER RR [B2115]	Seat lifting RR motor	When any manual and automatic operations are not performed, if any motor operations of seat lifting RR is detected for 0.1 second or more, status is judged "Output error".	<u>SE-46</u> <u>SE-56</u>
ADJ PEDAL MOTOR [B2117]	Pedal adjust motor	When any manual and automatic operations are not performed, if motor operations of seat pedal is detected for 0.1 second or more, status is judged "Output error".	<u>SE-47</u> <u>SE-57</u>
ADJ PEDAL SEN- SOR [B2120]	Pedal adjust sensor	When pedal adjust sensor detects 0.5V or lower, or 4.5V or higher, for 0.5 seconds or more.	<u>SE-57</u>
DETENT SW [B2126]	Park SW	With the A/T shift lever in P position (Park switch OFF), if the vehicle speed of 7 km/h (4 MPH) or higher was input the park switch input system is judged malfunctioning.	<u>SE-78</u>
UART COMM [B2128]	UART communica- tion	Malfunction is detected in UART communication.	<u>SE-80</u>

NOTE:

- If park switch error is detected, manual adjustable pedal operation cannot be performed when ignition switch turns ON.
- The displays of CAN communication and detection switch display error detecting condition from memory erase to the present on "TIME".
- If error is detected in the past and present error is detected, "CRNT" is displayed.
- If error is detected in the past and present error is not detected, "PAST" is displayed.
- If error has never been detected, nothing is displayed on "TIME".
- Any items other than CAN communication and park switch count error detection frequency occurred after erase history to "1-127".
- If error was detected in the past, error detection frequency from memory erase to the present is displayed on "TIME".
- If error has never been detected, nothing is displayed on "TIME".
- Can clear the detected memory.

Normal: Clear memory in normal condition, history is erased and nothing is displayed on "TIME". Error: Clear memory in error condition, error is detected again and "1" is displayed on "TIME".

DATA MONITOR

CAN DIAGNOSIS SUPPORT MONITOR

Monitor item [UNIT]		Contents	
CAN COMM [OK/NG]		When CAN communication circuit is malfunctioning, it displays "NG".	
CAN CIRC 1	[OK/UNKWN]		
CAN CIRC 2	[OK/UNKWN]	Displays [OK/UNKWN] condition of the CAN communication judged by each sig-	
CAN CIRC 3	[OK/UNKWN]	nal input.	
CAN CIRC 4 [OK/UNKWN]			

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Monitor item [OPERATION or UNIT] Contents					
SLIDE SW-FR	"ON/OFF"	ON/OFF status judged from the sliding switch (FR) signal is displayed.			
SLIDE SW-RR	"ON/OFF"	ON/OFF status judged from the sliding switch (RR) signal is displayed.			
RECLN SW-FR	"ON/OFF"	ON/OFF status judged from the reclining switch (FR) signal is displayed.			
RECLN SW-RR	"ON/OFF"	ON/OFF status judged from the reclining switch (RR) signal is displayed.			
LIFT FR SW-UP	"ON/OFF"	ON/OFF status judged from the FR lifter switch (UP) signal is displayed.			
LIFT FR SW-DN	"ON/OFF"	ON/OFF status judged from the FR lifter switch (DOWN) signal is displayed.			
LIFT RR SW-UP	"ON/OFF"	ON/OFF status judged from the RR lifter switch (UP) signal is displayed.			
LIFT RR SW-DN	"ON/OFF"	ON/OFF status judged from the RR lifter switch (DOWN) signal is displayed.			
MIR CON SW-UP	"ON/OFF"	ON/OFF status judged from the door mirror switch (UP) signal is displayed.			
MIR CON SW-DN	"ON/OFF"	ON/OFF status judged from the door mirror switch (DOWN) signal is displayed.			
MIR CON SW-RH	"ON/OFF"	ON/OFF status judged from the door mirror switch (RIGHT) signal is displayed.			
MIR CON SW-LH	"ON/OFF"	ON/OFF status judged from the door mirror switch (LEFT) signal is displayed.			
MIR CHNG SW-R	"ON/OFF"	ON/OFF status judged from the door mirror switch (switching to RIGHT) signal is displayed.			
MIR CHNG SW-L	"ON/OFF"	ON/OFF status judged from the door mirror switch (switching to LEFT) signal is displayed.			
SET SW	"ON/OFF"	ON/OFF status judged from the setting switch signal is displayed.			
PEDAL SW-FR	"ON/OFF"	ON/OFF status judged from the pedal adjusting switch (FR) signal is displayed.			
PEDAL SW-RR	"ON/OFF"	ON/OFF status judged from the pedal adjusting switch (RR) signal is displayed.			
MEMORY SW1	"ON/OFF"	ON/OFF status judged from the seat memory switch 1 signal is displayed.			
MEMORY SW2	"ON/OFF"	ON/OFF status judged from the seat memory switch 2 signal is displayed.			
DETENT SW	"ON/OFF"	The selector lever position "OFF (P position) / ON (other than P position)" judged from the park switch signal is displayed.			
STARTER SW	"ON/OFF"	Ignition key switch ON (START, ON) /OFF (ignition switch IGN, ACC, or OFF) status judged from the ignition switch signal is displayed.			
SLIDE PULSE	_	Value (32768) when battery connects is as standard. If it moves backward, the value increases. If it moves forward, the value decreases.			
RECLN PULSE	_	Value (32768) when battery connects is as standard. If it moves backward, the value increases. If it moves forward, the value decreases.			
LIFT FR PULSE	_	Value (32768) when battery connects is as standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.			
LIFT RR PULSE	_	Value (32768) when battery connects is as standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.			
MIR/SEN RH R-L	"V"	Voltage output from RH door mirror sensor (LH/RH) is displayed.			
MIR/SEN RH U-D	"V"	Voltage output from RH door mirror sensor (UP/DOWN) is displayed.			
MIR/SEN LH R-L	"V"	Voltage output from LH door mirror sensor (LH/RH) is displayed.			
MIR/SEN LH U-D	"V"	Voltage output from LH door mirror sensor (UP/DOWN) is displayed.			
PEDAL SEN	"V"	The pedal position (voltage) judged from the pedal adjust sensor signal is displayed.			

ACTIVE TEST

CAUTION:

During vehicle driving, do not perform active test.

NOTE:

If active test is performed, reset seat memory and key fob interlock drive positioner after performing work. **DISPLAY ITEM LIST**

Test item	Description
SEAT SLIDE	The sliding motor is activated by receiving the drive signal.
SEAT RECLINING	The reclining motor is activated by receiving the drive signal.
SEAT LIFTER FR	The lifting motor (front) is activated by receiving the drive signal.
SEAT LIFTER RR	The lifting motor (rear) is activated by receiving the drive signal.
PEDAL MOTOR	The pedal adjust motor is activated by receiving the drive signal.
MEMORY SW INDCTR	The memory switch indicator is lit by receiving the drive signal.
MIRROR MOTOR RH	The RH mirror motor moves the mirror UP/DOWN and LEFT/RIGHT by receiving the drive signal.
MIRROR MOTOR LH	The LH mirror motor moves the mirror UP/DOWN and LEFT/RIGHT by receiving the drive signal.

CAN Communication Inspection Using CONSULT-II (Self-Diagnosis)

EIS003OR

1. SELF-DIAGNOSTIC RESULT CHECK

CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

- Connect to CONSULT-II, and select "AUTO DRIVE POS." on the "SELECT DIAG SYSTEM" screen.
- 2. Select "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
- 3. Check display content in self-diagnostic results.

CONSULT-II display code	Diagnosis item
	INITIAL DIAG
	TRANSMIT DIAG
U1000	ECM
	IPDM E/R
	METER/M&A
	I-KEY

Contents displayed

No malfunction>>Inspection End

Malfunction in CAN communication system>>After printing the monitor items, go to "CAN System". Refer to LAN-6, "Precautions When Using CONSULT-II".

Symptom Chart

EIS002ML

Symptom	Diagnoses / se	Refer to page	
	1. Preliminary check		SE-33
Only setting change function cannot be set with display.	CAN communication inspe diagnosis)	ction using CONSULT-II (self-	<u>SE-40</u>
, , , , , , , , , , , , , , , , , , , ,	3. If the above systems are normal, check display system	Navigation system	<u>AV-79</u>
	Sliding motor circuit inspec	<u>SE-42</u>	
	2. Reclining motor circuit insp	<u>SE-43</u>	
A part of seat system does not operate (both automati-	3. Lifting motor (front) circuit i	<u>SE-44</u>	
cally and manually).	4. Lifting motor (rear) circuit in	<u>SE-46</u>	
	5. If the above systems are n control unit	<u>SE-11</u>	

Symptom	Diagnoses / service procedure	Refer to page	/-
	Pedal adjusting motor circuit inspection	<u>SE-47</u>	-
A part of podel adjust and deep rejugar data not appret.	2. Mirror motor LH circuit check	<u>SE-49</u>	-
A part of pedal adjust and door mirror does not operate (both automatically and manually).	3. Mirror motor RH circuit check	<u>SE-50</u>	-
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4. If the above systems are normal, replace the automatic drive positioner control unit.	<u>SE-11</u>	-
	Sliding sensor circuit inspection	<u>SE-53</u>	- \
	2. Reclining sensor circuit inspection	<u>SE-54</u>	-
A part of seat system does not operate (only automatic	3. Lifting sensor (front) circuit inspection	<u>SE-55</u>	- 1
operation).	4. Lifting sensor (rear) circuit inspection	SE-56	_
	5. If the above systems are normal, replace the driver seat control unit	<u>SE-11</u>	-
	1. Mirror sensor LH circuit check	SE-58	_
A part of door mirror system does not operate (only	2. Mirror sensor RH circuit check	SE-60	-
automatic operation).	3. If the above systems are normal, replace the automatic drive positioner control unit.	<u>SE-11</u>	- [
	1. Park switch circuit inspection	SE-78	-
	2. UART communication line circuit inspection	SE-80	_ `
All of the automatic operations do not operate.	3. Pedal adjusting sensor circuit inspection	<u>SE-57</u>	_
	4. If all the above systems are normal, replace the automatic drive positioner control unit.	<u>SE-11</u>	_
	Sliding switch circuit inspection	SE-62	
	2. Reclining switch circuit inspection	<u>SE-63</u>	S
A part of seat system does not operate (only manual	3. Lifting switch (front) circuit inspection	<u>SE-65</u>	_
operation).	4. Lifting switch (rear) circuit inspection	SE-66	
	5. If the above systems are normal, replace the driver seat control unit	<u>SE-11</u>	_
	Pedal adjusting switch circuit inspection	SE-68	
	2. Door mirror switch (change over switch) circuit inspection	SE-70	_
A part of pedal adjust and door mirror does not operate (only manual operation).	Door mirror switch (mirror switch) switching circuit inspection	<u>SE-71</u>	_
	If the above systems are normal, replace the automatic drive positioner control unit	<u>SE-11</u>	-
	Seat memory switch circuit inspection	SE-74	
Only memory switch operation.	2. If the above systems are normal, replace the driver seat control unit	<u>SE-11</u>	_
	Seat memory indicator lamp circuit inspection	<u>SE-75</u>	-
Seat memory indicator lamps 1 and 2 do not illuminate.	If all the above systems are normal, replace the driver seat control unit.	<u>SE-11</u>	-
The Entry/Exiting does not operate when door is opened	1. Front door switch circuit inspection	SE-79	_
and closed. (The Entry/Exiting operates with key switch)	2. If all the above systems are normal, replace the BCM.	BCS-25	_
Only door mirror system does not operate (only manual operation).	1.Door mirror switch ground circuit inspection	<u>SE-73</u>	
Only door mirror system does not operate (only automatic operation).	Door mirror sensor power supply and ground circuit inspection	<u>SE-77</u>	_
Only seat system does not operate (only manual operation).	Power seat switch ground circuit inspection	SE-67	-

SE-41 2004 Titan Revision: January 2005

Sliding Motor Circuit Inspection

1. CHECK SEAT SLIDING MECHANISM

Check the following.

- Operation malfunction caused by sliding rail deformation, pinched harness or other foreign materials
- Operation malfunction caused by foreign materials adhered to the sliding motor LH or sliding rail connec-
- Operation malfunction and interference with other parts by poor installation

OK or NG

OK >> GO TO 2.

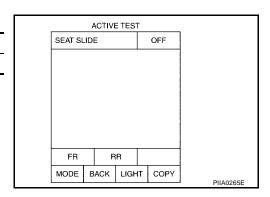
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

(P) With CONSULT-II

Check operation with "SEAT SLIDE" in ACTIVE TEST.

Test item	Description
SEAT SLIDE	The sliding motor is activated by receiving the drive signal.



FISO02 MM

Without CONSULT-II

GO TO 3.

OK or NG

OK >> Sliding motor circuit is OK.

NG >> GO TO 3.

$3.\,$ check sliding motor circuit harness continuity

- Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and sliding motor LH.
- Check continuity between driver seat control unit connector P3 terminals 35, 42 and sliding motor connector P4 terminals 4, 6.

35 (V/W) - 6 (V/W)

: Continuity should exist.

42 (O/B) - 4 (O/B)

: Continuity should exist.

Check continuity between driver seat control unit connector P3 terminals 35, 42 and ground.

35 (V/W) – Ground

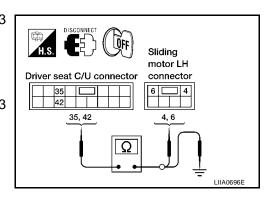
: Continuity should not exist.

42 (O/B) - Ground

: Continuity should not exist.

OK or NG

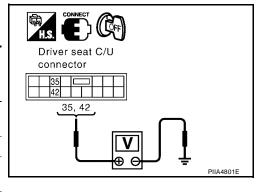
OK >> GO TO 4.



4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

- 1. Connect the driver seat control unit and sliding motor LH.
- 2. Check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)	
	(+)	(-)		(Αρρίολ.)	
P3	35 (V/W) 42 (O/B)	Cround	Sliding switch ON (FORWARD operation)	Battery voltage	
			Ground	Other than above	0
		Giodila	Sliding switch ON (BACKWARD operation)	Battery voltage	
			Other than above	0	



OK or NG

OK >> Replace driver power seat frame assembly. Refer to <u>SE-92</u>, "Removal and Installation".

NG >> Replace driver seat control unit.

Reclining Motor LH Circuit Inspection

1. CHECK SEAT RECLINING MECHANISM

Check the following.

- Operation malfunction caused by an interference with the center pillar or center console
- Operation malfunction and interference with other parts by poor installation

OK or NG

OK >> GO TO 2.

NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

(P) With CONSULT-II

Check operation with "SEAT RECLINING" in ACTIVE TEST.

Test item	Description
SEAT RECLINING	The reclining motor LH is activated by receiving the drive signal.

		ACTIV	E TEST	Γ		
s	EAT RE	CLINING	É		OFF	
	FR	F	R.			
	MODE	BACK	LIGH	т	COPY	

⋈ Without CONSULT-II

GO TO 3.

OK or NG

OK >> Reclining motor LH circuit is OK.

NG >> GO TO 3.

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3. CHECK RECLINING MOTOR CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and reclining motor LH.
- 3. Check continuity between driver seat control unit connector P3 terminals 36, 44 and reclining motor LH connector P5 terminals 3, 4.

36 (Y/G) – 4 (Y/G) : Continuity should exist. 44 (Y/R) – 3 (Y/R) : Continuity should exist.

4. Check continuity between driver seat control unit connector P3 terminals 36, 44 and ground.

36 (Y/G) – Ground : Continuity should not exist. 44 (Y/R) – Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

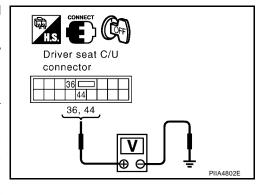
NG >> Repair or replace harness.

Driver seat C/U connector 36 44 36, 44 31, 4 Augustian August

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

- Connect the driver seat control unit and reclining motor LH.
- Check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)	
	(+)	(-)		(дрргох.)	
	36 (Y/G)		Reclining switch ON (FORWARD operation)	Battery voltage	
P3		Ground	Ground	Other than above	0
73	44 (Y/R)		Reclining switch ON (BACKWARD operation)	Battery voltage	
			Other than above	0	



OK or NG

OK >> Replace driver power seat frame assembly. Refer to SE-92, "Removal and Installation".

NG >> Replace driver seat control unit.

Lifting Motor (Front) Circuit Inspection

EIS002MO

1. CHECK FRONT END SEAT LIFTING MECHANISM

Check the following.

- Operation malfunction caused by lifter mechanism deformation, pinched harness or other foreign materials
- Operation malfunction caused by foreign materials adhered to the lifting motor (front) or lead screws
- Operation malfunction and interference with other parts by installation

OK or NG

OK >> GO TO 2.

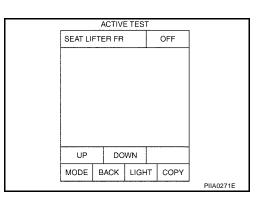
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

(II) With CONSULT-II

Check operation with "SEAT LIFTER FR" in ACTIVE TEST.

Test item	Description
SEAT LIFTER FR	The lifting motor (front) is activated by receiving the drive signal.



W Without CONSULT-II

GO TO 3.

OK or NG

OK >> Lifting motor (front) circuit is OK.

NG >> GO TO 3.

3. CHECK LIFTING MOTOR (FRONT) CIRCUIT HARNESS CONTINUITY

Turn ignition switch OFF.

2. Disconnect driver seat control unit and lifting motor (front).

3. Check continuity between driver seat control unit connector P3 terminals 37, 45 and lifting motor (front) connector P6 terminals 4, 6.

37 (BR) – 6 (BR) : Continuity should exist. 45 (GR) – 4 (GR) : Continuity should exist.

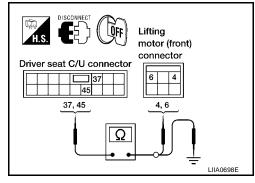
4. Check continuity between driver seat control unit connector P3 terminals 37, 45 and ground.

37 (BR) – Ground : Continuity should not exist.
 45 (GR) – Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



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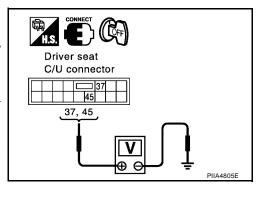
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4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

- 1. Connect the driver seat control unit and lifting motor (front).
- Check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		(дрргох.)
P3	37 (BR)	Ground	Lifting switch (front) ON (DOWN operation)	Battery voltage
			Other than above	0
	45 (GR)		Llifting switch (front) ON (UP operation)	Battery voltage
			Other than above	0



EIS002MP

OK or NG

OK >> Replace driver power seat frame assembly. Refer to <u>SE-92</u>, "Removal and Installation".

NG >> Replace driver seat control unit.

Lifting Motor (Rear) Circuit Inspection

1. CHECK REAR SEAT LIFTING MECHANISM

I. CHECK REAR SEAT LIFTING MECHANIS

Operation malfunction caused by lifter mechanism deformation or pinched harness or other foreign materials

- Operation malfunction caused by foreign materials adhered to the lifting motor (rear) or lead screws
- Operation malfunction and interference with other parts by poor installation

OK or NG

OK >> GO TO 2.

Check the following.

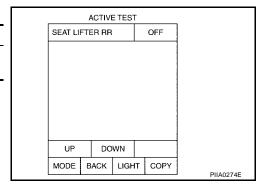
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

(P) With CONSULT-II

Check operation with "SEAT LIFTER RR" in ACTIVE TEST.

Test item	Description
SEAT LIFTER RR	The lifting motor (rear) is activated by receiving the drive signal.



Without CONSULT-II

GO TO 3.

OK or NG

OK >> Lifting motor (rear) circuit is OK.

NG >> GO TO 3.

3. CHECK LIFTING MOTOR (REAR) CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and lifting motor (rear).
- Check continuity between driver seat control unit connector P3 terminals 38, 39 and lifting motor (rear) connector P7 terminals 4, 6.

38 (B/W) – 6 (B/W) : Continuity should exist. 39 (Y) – 4 (Y) : Continuity should exist.

 Check continuity between driver seat control unit P3 terminals 38, 39 and ground.

38 (B/W) – Ground : Continuity should not exist.
39 (Y) – Ground : Continuity should not exist.

OK or NG

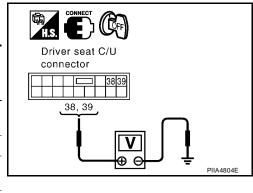
OK >> GO TO 4.

NG >> Repair or replace harness.

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

- 1. Connect the driver seat control unit and lifting motor (rear).
- Check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		(Арргох.)
P3	38 (B/W)	Ground	Lifting switch (rear) ON (UP operation)	Battery voltage
			Other than above	0
	39 (Y)		Lifting switch (rear) ON (DOWN operation)	Battery voltage
			Other than above	0



OK or NG

OK >> Replace driver power seat frame assembly. Refer to SE-92, "Removal and Installation".

NG >> Replace driver seat control unit.

Pedal Adjusting Motor Circuit Inspection

1. CHECK PEDAL ADJUSTING MECHANISM

Check the following.

- Operation malfunction caused by pedal adjusting mechanism deformation or pinched harness or other foreign materials
- Operation malfunction and interference with other parts by poor installation

OK or NG

OK >> GO TO 2.

NG >> Repair the malfunctioning part and check again.

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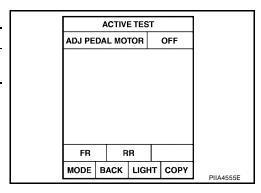
EIS002MQ

2. CHECK FUNCTION

(P) With CONSULT-II

Check operation with "PEDAL" in ACTIVE TEST.

Test item	Description
ADJ PEDAL MOTOR	The pedal adjusting motor is activated by receiving the drive signal.



Without CONSULT-II

GO TO 3.

OK or NG

OK >> Pedal adjusting motor circuit is OK.

NG >> GO TO 3.

3. CHECK PEDAL ADJUSTING MOTOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.

2. Disconnect automatic drive positioner control unit and pedal adjusting motor.

3. Check continuity between automatic drive positioner control unit connector M34 terminals 37, 45 and pedal adjusting motor connector E109 terminals 1, 2.

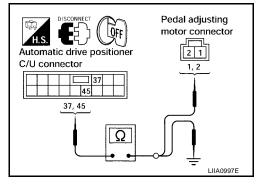
37 (G) – 1 (G) : Continuity should exist. 45 (R) – 2 (R) : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M34 terminals 37, 45 and ground.

37 (G) – Ground : Continuity should not exist. 45 (R) – Ground : Continuity should not exist.

OK or NG

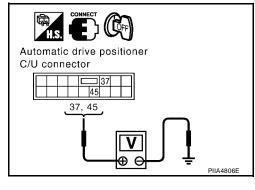
OK >> GO TO 4.



4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

- 1. Connect the automatic drive positioner control unit and pedal adjusting motor.
- 2. Check voltage between automatic drive positioner control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		(дрыох.)
	37 (G)		Pedal adjusting switch ON (FORWARD opera- tion)	Battery voltage
M34		45 (R)	Other than above	0
IVI34 -	45 (R)		Pedal adjusting switch ON (BACKWARD oper- ation)	Battery voltage
			Other than above	0



OK or NG

OK >> Replace adjustable accelerator pedal assembly. Refer to <u>ACC-2, "ADJUSTABLE ACCELERA-TOR PEDAL ASSEMBLY"</u>.

NG >> Replace automatic drive positioner control unit.

Mirror Motor LH Circuit Check

1. CHECK DOOR MIRROR LH MECHANISM

Check the following items.

Operation malfunction caused by a foreign object caught in door mirror face edge.

OK or NG

OK >> GO TO 2.

NG >> Repair the malfunctioning parts, and check the symptom again.

2. CHECK FUNCTION

(P) With CONSULT-II

Check the operation with "MIRROR MOTOR LH" in the ACTIVE TEST.

Test item	Description
MIRROR MOTOR LH	The mirror motor LH moves the mirror UP/DOWN and LEFT/RIGHT by receiving the drive signal.

		ACTIV	E TES	Т		
	MIRROR MOTOR LE		IRROR MOTOR LH OFF		OFF	
- 1	la.	l				
	UP DO	\ \ \ \ \ \	R			
	MODE	BACK	LIGH	łΤ	COPY	
•						PIIA4784E

⋈ Without CONSULT-II

GO TO 3.

OK or NG

OK >> Mirror motor LH circuit is OK.

NG >> GO TO 3.

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Revision: January 2005 **SE-49** 2004 Titan

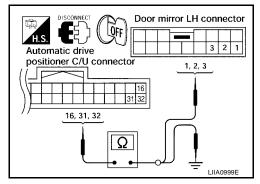
3. check door mirror motor LH circuit harness continuity

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror LH.
- 3. Check continuity between automatic drive positioner control unit connector M33 terminals 16, 31, 32 and door mirror LH connector D4 terminals 1, 2, 3.

16 (O) – 3 (O) : Continuity should exist. 31 (R) – 1 (R) : Continuity should exist. 32 (BR) – 2 (BR) : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M33 terminals 16, 31, 32 and ground.

16 (O) – Ground : Continuity should not exist.
 31 (R) – Ground : Continuity should not exist.
 32 (BR) – Ground : Continuity should not exist.



OK or NG

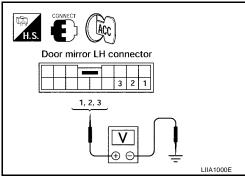
OK >> GO TO 4.

NG >> Repair or replace harness.

4. CHECK MIRROR MOTOR SIGNAL

- 1. Connect automatic drive positioner control unit and door mirror LH.
- 2. Turn ignition switch to ACC.
- 3. Check voltage between door mirror LH connector and ground.

Connector		ninals color)	Condition	Voltage (V) (Approx.)
	(+)	(-)		(Αφρίσχ.)
	1 (R) D4 2 (BR)		When motor is operated UP	1.5 - Battery voltage
			Other than above	0
D4		Ground	When motor is operated LEFT	1.5 - Battery voltage
		(BK)		Other than above
3 (O)			When motor is operated DOWN or RIGHT	1.5 - Battery voltage
	(0)	Other than above	0	



EIS002MS

OK or NG

OK >> Replace door mirror LH. Refer to GW-90, "Door Mirror Assembly".

NG >> Repair or replace harness.

Mirror Motor RH Circuit Check

1. CHECK DOOR MIRROR RH MECHANISM

Check the following items.

Operation malfunction caused by a foreign object caught in door mirror face edge.

OK or NG

OK >> GO TO 2.

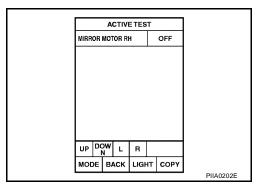
NG >> Repair the malfunctioning parts, and check the symptom again.

2. CHECK FUNCTION

(P) With CONSULT-II

Check the operation with "MIRROR MOTOR RH" in the ACTIVE TEST.

Test item	Description
MIRROR MOTOR RH	The mirror motor RH moves the mirror UP/DOWN and LEFT/RIGHT by receiving the drive signal.



Without CONSULT-II

GO TO 3.

OK or NG

OK >> Mirror motor RH circuit is OK.

NG >> GO TO 3.

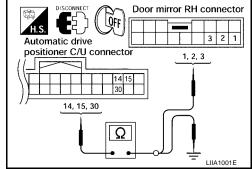
$oldsymbol{3}.$ Check door mirror rh circuit harness continuity

- 1. Turn ignition switch OFF. Disconnect automatic drive positioner control unit and door mirror RH connector. 2.
- Check continuity between automatic drive positioner control unit connector M33 terminals 14, 15, 30 and door mirror RH connector D107 terminals 1, 2, 3.

14 (GR/R) – 1 (GR/R) : Continuity should exist. 15 (V/R) - 2 (V/R): Continuity should exist. 30(Y) - 3(Y): Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M33 terminals 14, 15, 30 and ground.

> 14 (GR/R) - Ground : Continuity should not exist. 15 (V/R) - Ground : Continuity should not exist. 30 (Y) - Ground : Continuity should not exist.



OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness. SE

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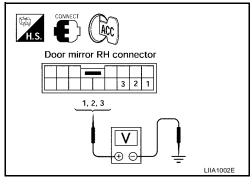
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4. CHECK MIRROR MOTOR SIGNAL

- 1. Connect automatic drive positioner control unit and door mirror LH.
- 2. Turn ignition switch to ACC.
- 3. Check voltage between door mirror RH connector and ground.

Connector	Term (Wire		Condition	Voltage (V) (Approx.)
	(+)	(-)		(/ (pprox.)
	1 (GR/R) D107 2 (V/R) 3 (Y)		Mirror motor is operated UP	
D107		Ground	Other than above	0
			Mirror motor is operated LEFT	1.5 - Battery voltage
			Other than above	0
			Mirror motor is operated DOWN or RIGHT	1.5 - Battery voltage
			Other than above	0



OK or NG

OK >> Replace door mirror RH. Refer to <u>GW-90, "Door Mirror Assembly"</u>.

Sliding Sensor Circuit Inspection

1. CHECK FUNCTION

(P) With CONSULT-II

Check operation with "SLIDE PULSE" on the DATA MONITOR to make sure the pulse changes.

Monitor item [OPE	RATION or UNIT]	Contents
SLIDE PULSE	_	The seat sliding position (pulse) judged from the sliding sensor signal is displayed

DATA MONITOR	
SELECT MONITOR ITEM	
SLIDE PULSE	
RECLN PULSE	
LIFT FR PULSE	
LIFT RR PULSE	
MIR/SEN RH U-D	
Page Up Page Down	
SETTING Numerical Display	
MODE BACK LIGHT COPY	
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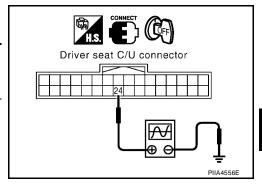
Sliding motor

LH connector

⋈ Without CONSULT-II

- 1. Turn ignition switch OFF.
- Check signal between driver seat control unit connector and ground, with oscilloscope.

Connector	Term (Wire	inals color)	Condition	Signal
	(+)	(-)		
P2	24 (Y/G)	Ground	Sliding motor operation	(V) 6 4 2 0 50 ms



OK or NG

OK >> Sliding sensor circuit is OK.

NG >> GO TO 2.

2. CHECK SLIDING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

- Disconnect driver seat control unit connector and sliding motor LH connector.
- 2. Check continuity between driver seat control unit connector P2 terminals 16, 24, 31 and sliding motor P4 terminals 1, 2, 3.

16 (W) – 3 (W)

: Continuity should exist.

24 (Y/G) - 2 (Y/G)

: Continuity should exist.

31 (L/Y) - 1 (L/Y)

: Continuity should exist.

3. Check continuity between driver seat control unit P2 terminals 24, 31 and ground.

16 (W) – Ground : Continuity should not exist.

24 (Y/G) – Ground : Continuity should not exist. 31 (L/Y) – Ground : Continuity should not exist

Drive seat C/U connector 1, 2, 3 16, 24, 31 Ω LIIA0706E

OK or NG

OK >> Replace driver power seat frame assembly. Refer to <u>SE-92, "Removal and Installation"</u>.

Reclining Sensor Circuit Inspection

1. CHECK FUNCTION

(II) With CONSULT-II

Check operation with "RECLN PULSE" on the DATA MONITOR to make sure the pulse changes.

Monitor item [OPER	RATION or UNIT]	Contents
RECLN PULSE	_	The seat reclining position (pulse) judged from the reclining sensor is displayed

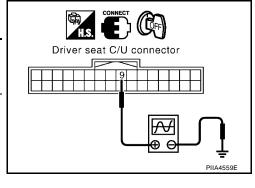
DATA MONITOR	
SELECT MONITOR ITEM	
SLIDE PULSE	
RECLN PULSE	
LIFT FR PULSE	
LIFT RR PULSE	
MIR/SEN RH U-D	
Page Up Page Down	
SETTING Numerical Display	
MODE BACK LIGHT COPY	PIIA4558E
	LIIV#990E

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⋈ Without CONSULT-II

- 1. Turn ignition switch OFF.
- Check signal between driver seat control unit connector and ground, with oscilloscope.

Connector	Term (Wire		Condition	Signal
	(+)	(-)		
P2	9 (L/R)	Ground	Reclining motor operation	(V) 6 4 2 0 50 ms



OK or NG

OK >> Reclining sensor circuit is OK.

NG >> GO TO 2.

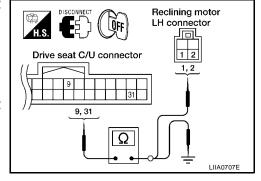
2. CHECK RECLINING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit and reclining motor LH.
- Check continuity between driver seat control unit connector P2 terminals 9, 31 and reclining motor LH connector P5 terminals 1, 2.

9 (L/R) – 1 (L/R) : Continuity should exist. 31 (L/Y) – 2 (L/Y) : Continuity should exist.

3. Check continuity between driver seat control unit connector P2 terminals 9, 31 and ground.

9 (L/R) – Ground : Continuity should not exist. 31 (L/Y) – Ground : Continuity should not exist.



OK or NG

OK >> Replace driver power seat frame assembly. Refer to <u>SE-92</u>, "Removal and Installation".

Lifting Sensor (Front) Circuit Inspection

1. CHECK FUNCTION

(P) With CONSULT-II

Check operation with "LIFT FR PULSE" on the DATA MONITOR to make sure the pulse changes.

Monitor item [OPER	ATION or UNIT]	Contents
LIFT FR PULSE	-	The front lifting position (pulse) judged from the lifting sensor (front) is displayed

DATA MONITOR	
SELECT MONITOR ITEM	
SLIDE PULSE	
RECLN PULSE	
LIFT FR PULSE	
LIFT RR PULSE	
MIR/SEN RH U-D	
Page Up Page Down	
SETTING Numerical Display	
MODE BACK LIGHT COPY	PIIA4558E
	FIIA4000E

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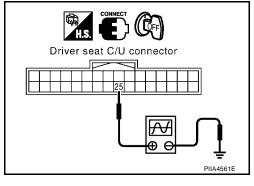
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⋈ Without CONSULT-II

- 1. Turn ignition switch OFF.
- 2. Check signal between driver seat control unit connector and ground, with oscilloscope.

Connector	Term (Wire	inals color)	Condition	Signal
	(+)	(-)		
P2	25 (LG)	Ground	Lifting motor (front) operation	(V) 6 4 2 0 50 ms



OK or NG

OK >> Front lifting sensor is OK.

NG >> GO TO 2.

$2.\,$ check front lifting motor sensor circuit harness continuity

- 1. Disconnect driver seat control unit and lifting motor (front).
- 2. Check continuity between driver seat control unit connector P2 terminals 16, 25, 31 and lifting motor (front) connector P6 terminals 1, 2, 3.

16 (W) – 3 (W)

: Continuity should exist.

25 (LG) - 2 (LG)

: Continuity should exist.

31 (L/Y) - 1 (L/Y)

: Continuity should exist.

3. Check continuity between driver seat control unit connector P2 terminals 16, 25, 31 and ground.

16 (W) - Ground

: Continuity should not exist.

25 (LG) - Ground

: Continuity should not exist.

31 (L/Y) - Ground

: Continuity should not exist.

Drive seat C/U connector Lifting motor (front) connector 1, 2, 3 16, 25, 31

OK or NG

OK >> Replace driver power seat frame assembly. Refer to SE-92, "Removal and Installation".

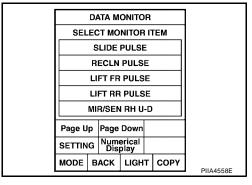
Lifting Sensor (Rear) Circuit Inspection

1. CHECK FUNCTION

(P) With CONSULT-II

Check operation with "LIFT RR PULSE" on the DATA MONITOR to make sure pulse changes.

Monitor item [OPEF	RATION or UNIT]	
LIFT RR PULSE	_	The rear lifting position (pulse) judged from the lifting sensor (rear) is displayed.

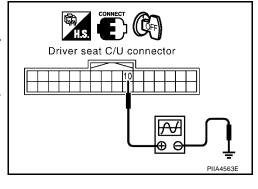


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⋈ Without CONSULT-II

- Turn ignition switch OFF.
- Check signal between driver seat control unit connector and ground, with oscilloscope.

Connector	Term (Wire		Condition	Signal
	(+)	(-)		
P2	10 (W)	Ground	Lifting motor (rear) operation	(V) 6 4 2 0 50 ms



OK or NG

OK >> Rear lifting sensor circuit is OK.

NG >> GO TO 2.

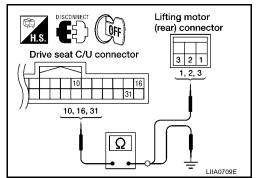
2. CHECK REAR LIFTING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

- Disconnect driver seat control unit and lifting motor (rear).
- 2. Check continuity between driver seat control unit connector P2 terminals 10, 16, 31 and lifting motor (rear) connector P7 terminals 1, 2, 3.

10 (W) - 2 (W): Continuity should exist.16 (W) - 3 (W): Continuity should exist.31 (L/Y) - 1 (L/Y): Continuity should exist.

3. Check continuity between driver seat control unit connector P2 terminals 10, 16, 31 and ground.

10 (W) – Ground : Continuity should not exist. 16 (W) – Ground : Continuity should not exist. 31 (L/Y) – Ground : Continuity should not exist.



OK or NG

OK >> Replace driver power seat frame assembly. Refer to SE-92, "Removal and Installation".

Pedal Adjusting Sensor Circuit Inspection

1. CHECK FUNCTION

(II) With CONSULT-II

Operate the pedal adjusting switch with "PEDAL SEN" on the DATA MONITOR to make sure the voltage changes.

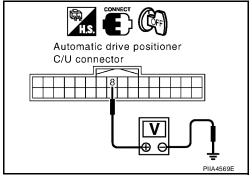
Monitor item TION or		Contents
PEDAL SEN	"V"	The pedal adjusting position (voltage) judged from the pedal adjust sensor signal is displayed.

DATA MONITOR	
SELECT MONITOR ITEM	
MIR/SEN RH U-D	
MIR/SEN RH R-L	
MIR/SEN LH U-D	
MIR/SEN LH R-L	
PEDAL SEN	
Page Up Page Down	
SETTING Numerical Display	
MODE BACK LIGHT COPY	

⋈ Without CONSULT-II

- 1. Turn ignition switch OFF.
- 2. Check voltage between automatic drive positioner control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		(Арргох.)
M33	8 (BR/Y) Ground	Ground	Pedal front end position	0.5
		Pedal back end position	4.5	



OK or NG

OK >> Pedal adjusting sensor circuit is OK.

NG >> GO TO 2.

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2. check pedal adjusting sensor circuit harness continuity

- 1. Disconnect automatic drive positioner control unit and pedal adjusting sensor.
- 2. Check continuity between automatic drive positioner connector M33, M34 terminals 8, 33, 41 and pedal adjusting sensor connector E110 terminals 3, 4, 5.

8 (BR/Y) – 4 (BR/Y) : Continuity should exist. 33 (W/L) – 3 (W/L) : Continuity should exist. 41 (W/G) – 5 (W/G) : Continuity should exist.

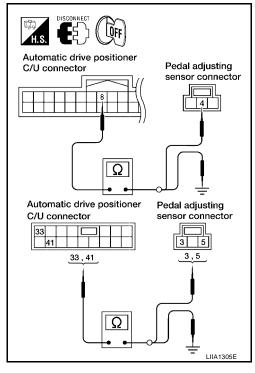
3. Check continuity between automatic drive positioner control unit connector M33, M34 terminals 8, 33, 41 and ground.

8 (BR/Y) – Ground : Continuity should not exist. 33 (W/L) – Ground : Continuity should not exist. 41 (W/G) – Ground : Continuity should not exist.

OK or NG

OK >> Replace adjustable accelerator pedal assembly. Refer to ACC-2, "ADJUSTABLE ACCELERATOR PEDAL ASSEMBLY".

NG >> Repair or replace harness.



EIS002MY

Mirror Sensor LH Circuit Check

1. CHECK DOOR MIRROR FUNCTION

Check the following items.

Operation malfunction in memory control

NOTE

If a door mirror face position is set to an implausible angle, the set position may not be reproduced.

OK or NG

OK >> GO TO 2.

NG >> Repair the malfunctioning parts, and check the symptom again.

2. CHECK MIRROR SENSOR

(II) With CONSULT-II

Check that "ON" is displayed on "MIR/SE LH R-L, MIR/SE LH U-D" in the DATA MONITOR.

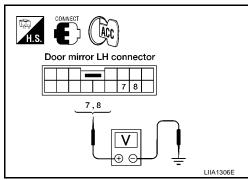
Monitor item [OPERATION or UNIT]		Contents
MIR/ SEN LH R-L	"V"	Voltage output from door mirror LH sensor (LH/RH) is displayed.
MIR/ SEN LH U-D	"V"	Voltage output from door mirror LH sensor (UP/DOWN) is displayed.

DATA MONITOR SELECT MONITOR ITEM TELESCO SEN MIR/SE RH R-L MIR/SE RH U-D MIR/SE LH R-L MIR/SE LH U-D Page Up Page Down SETTING Numerical Display MODE BACK LIGHT COPY

⊗ Without CONSULT–II

- Turn ignition switch to ACC.
- 2. Check voltage between door mirror LH connector and ground.

Con- Terminals		(Wire color)	Condition	Voltage (V)	
nector	(+)	(-)	Condition	(Approx.)	
D4	7 (L/Y)	0	Mirror motor is operated UP or DOWN	Changes between 3.4 (close to peak) – 0.6 (close to valley)	
D4	8 (G)	Ground	Mirror motor is operated LEFT or RIGHT	Changes between 3.4 (close to right edge) – 0.6 (close to left edge)	



OK or NG

OK >> Mirror sensor LH is OK.

NG >> GO TO 3.

3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.

2. Disconnect automatic drive positioner control unit and door mirror LH.

3. Check continuity between automatic drive positioner control unit connector M34 terminals 33, 41 and door mirror LH connector D4 terminals 5, 6.

33 (W/L) – 5 (W/L) : Continuity should exist. 41 (W/G) – 6 (W/G) : Continuity should exist.

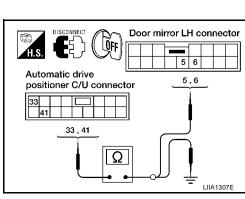
4. Check continuity between automatic drive positioner control unit connector M34 terminals 33, 41 and ground.

33 (W/L) – Ground : Continuity should not exist. 41 (W/G) – Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



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4. CHECK HARNESS CONTINUITY 2

1. Check continuity between automatic drive positioner control unit connector M33 terminals 6, 22 and door mirror LH connector D4 terminals 7, 8.

6 (L/Y) – 7 (L/Y) : Continuity should exist. 22 (G) – 8 (G) : Continuity should exist.

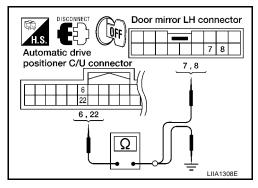
2. Check continuity between automatic drive positioner control unit connector M33 terminals 6, 22 and ground.

6 (L/Y) – Ground : Continuity should not exist. 22 (G) – Ground : Continuity should not exist.

OK or NG

OK >> Replace door mirror LH. Refer to <u>GW-90, "Door Mirror</u> Assembly".

NG >> Repair or replace harness.



EIS002MZ

Mirror Sensor RH Circuit Check

1. CHECK DOOR MIRROR FUNCTION

Check the following items.

Operation malfunction in memory control

NOTE:

If a door mirror face position is set to an implausible angle, the set position may not be reproduced.

OK or NG

OK >> GO TO 2.

NG >> Repair the malfunctioning parts, and check the symptom again.

2. CHECK MIRROR SENSOR

(P) With CONSULT-II

Check that "ON" is displayed on "MIR/SE RH R-L, MIR/SE RH U-D" in the DATA MONITOR.

Monitor item [OPERATION or UNIT]		Contents
MIR/ SEN RH R-L	"V"	Voltage output from door mirror RH sensor (LH/RH) is displayed.
MIR/ SEN RH U-D	"V"	Voltage output from door mirror RH sensor (UP/DOWN) is displayed.

DATA MONITOR

SELECT MONITOR ITEM

⋈ Without CONSULT–II

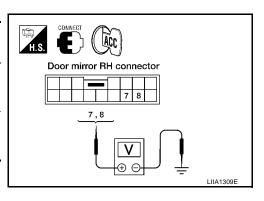
- 1. Turn ignition switch to ACC.
- 2. Check voltage between door mirror RH connector and ground.

Con-	Con- Terminals (\		Condition	Voltage(V)	
nector	(+)	(-)	Condition	(Approx.)	
D107	7 (R/B)	Ground	Mirror motor is operated UP or DOWN	Changes between 3.4 (close to peak) – 0.6 (close to valley)	
<i>D</i> 107	8 (L/W)		Mirror motor is operated LEFT or RIGHT	Changes between 3.4 (close to left edge) – 0.6 (close to right edge)	

OK or NG

OK >> Mirror sensor RH is OK.

NG >> GO TO 3.



3. CHECK HARNESS CONTINUITY 1

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror RH.
- 3. Check continuity between automatic drive positioner control unit connector M34 terminals 33, 41 and door mirror RH connector D107 terminals 5, 6.

33 (W/L) -5 (W/L) : Continuity should exist. 41 (W/G) -6 (W/G) : Continuity should exist.

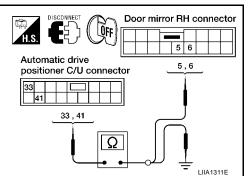
4. Check continuity between automatic drive positioner control unit connector M34 terminals 33, 41 and ground.

33 (W/L) – Ground : Continuity should not exist. 41 (W/G) – Ground : Continuity should not exist.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



4. CHECK HARNESS CONTINUITY 2

 Check continuity between automatic drive positioner control unit connector M33 terminals 5, 21 and door mirror RH connector D107 terminals 7, 8.

5 (R/B) – 7 (R/B) : Continuity should exist. 21 (L/W) – 8 (L/W) : Continuity should exist.

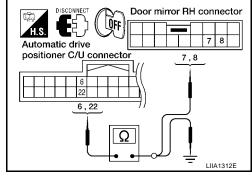
2. Check continuity between automatic drive positioner control unit connector M33 terminals 5, 21 and ground.

5 (R/B) – Ground : Continuity should not exist. 21 (L/W) – Ground : Continuity should not exist.

OK or NG

OK >> Replace door mirror RH. Refer to <u>GW-90, "Door Mirror Assembly"</u>.

NG >> Repair or replace harness.



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Sliding Switch Circuit Inspection

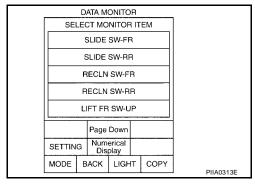
1. CHECK FUNCTION

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(P)With CONSULT-II

With "SLIDE SW-FR, SLIDE SW-RR" on the DATA MONITOR, operate the sliding switch to check ON/OFF operation.

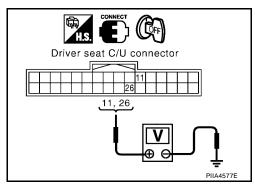
Monitor item [OPER- ATION or UNIT]		Contents
SLIDE SW- FR	"ON/ OFF"	ON/OFF status judged from the sliding switch (FR) signal is displayed.
SLIDE SW- RR	"ON/ OFF"	ON/OFF status judged from the sliding switch (RR) signal is displayed.



Without CONSULT-II

- Turn ignition switch OFF.
- 2. Check voltage between driver seat control unit connector and ground.

Connector	Terminal (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		(дрыск.)
P2 -	11 (R/B)	- Ground	Sliding switch ON (BACKWARD operation)	0
			Other than above	Battery voltage
	26 (P/B)		Sliding switch ON (FORWARD opera- tion)	0
			Other than above	Battery voltage



OK or NG

OK >> Sliding switch circuit is OK.

NG >> GO TO 2.

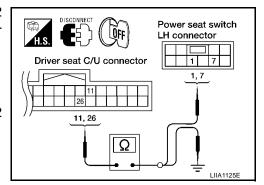
2. CHECK SLIDING SWITCH CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and power seat switch LH connector.
- Check continuity between driver seat control unit connector P2 terminals 11, 26 and power seat switch LH connector P8 terminals 1, 7.

11 (R/B) – 7 (R/B) : Continuity should exist. 26 (P/B) – 1 (P/B) : Continuity should exist.

3. Check continuity between driver seat control unit connector P2 terminals 11, 26 and ground.

11 (R/B) – Ground : Continuity should not exist. 26 (P/B) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 3.

3. CHECK SLIDING SWITCH

Check continuity between power seat switch LH as follows.

Tern	ninal	Condition	Continuity
7	7 3	Sliding switch ON (BACKWARD operation)	Yes
,		Other than above	No
1	3	Sliding switch ON (FORWARD operation)	Yes
'	1	Other than above	No

OK or NG

OK >> Check the condition of the harness and connector.

NG >> Replace power seat switch LH. Refer to <u>SE-92</u>, "Removal and Installation" .

Power seat switch LH 1,7 1,7 LIIA1126E

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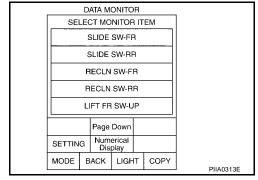
Reclining Switch Inspection

1. CHECK FUNCTION

With CONSULT-II

With "RECLN SW-FR, RECLN SW-RR" on the DATA MONITOR, operate the reclining switch to check ON/OFF operation.

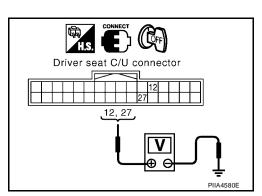
Monitor item [OPERA- TION or UNIT]		Contents
RECLN SW -FR	"ON/ OFF"	ON/OFF status judged from the reclining switch (FR) signal is displayed.
RECLN SW -RR	"ON/ OFF"	ON/OFF status judged from the reclining switch (RR) signal is displayed.



Without CONSULT-II

- 1. Turn ignition switch OFF.
- 2. Check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V)
	(+)	(-)		(Approx.)
P2 -	12 (O/B)	Ground	Reclining switch ON (BACKWARD operation)	0
			Other than above	Battery voltage
	27 (G/B)		Reclining switch ON (FORWARD operation)	0
			Other than above	Battery voltage



OK or NG

OK >> Reclining switch circuit is OK.

NG >> GO TO 2.

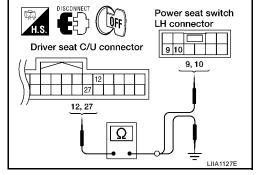
2. CHECK RECLINING SWITCH CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit and power seat switch LH.
- Check continuity between driver seat control unit connector P2 terminals 12, 27 and power seat switch LH connector P8 terminals 9, 10.

12 (O/B) – 9 (O/B) : Continuity should exist. 27 (G/B) – 10 (G/B) : Continuity should exist.

3. Check continuity between driver seat control unit connector P2 terminals 12, 27 and ground.

12 (O/B) – Ground : Continuity should not exist. 27 (G/B) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

3. RECLINING SWITCH INSPECTION

Check continuity between power seat switch LH as follows.

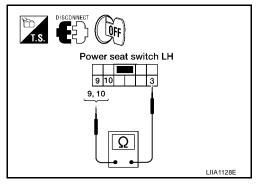
Terr	Terminal Condition		Continuity
9		Reclining switch ON (BACKWARD operation)	Yes
3	3	Other than above	No
10	3	Reclining switch ON (FORWARD operation)	Yes
10		Other than above	No

OK or NG

NG

OK >> Check the condition of the harness and connector.

>> Replace power seat switch LH. Refer to <u>SE-92</u>, "Removal and Installation" .



Lifting Switch (Front) Circuit Inspection

1. CHECK FUNCTION

(P) With CONSULT-II

With "LIFT FR SW-UP, LIFT FR SW-DN" on the DATA MONITOR, operate the lifting switch (front) to check ON/OFF operation.

Monitor item [OPERA- TION or UNIT]		Contents
LIFT FR SW- DN	"ON/ OFF"	ON/OFF status judged from the FR lifter switch (DOWN) signal is displayed.
LIFT RR SW- UP	"ON/ OFF"	ON/OFF status judged from the RR lifter switch (UP) signal is displayed.

SELECT MONITOR ITEM LIFT FR SW-DN LIFT RR SW-UP LIFT RR SW-UP MIR CON SW-UP MIR CON SW-DN Page Up Page Down SETTING Numerical Display MODE BACK LIGHT COPY	DATA MONITOR	
LIFT RR SW-UP LIFT RR SW-DN MIR CON SW-UP MIR CON SW-DN Page Up Page Down SETTING Numerical Display	SELECT MONITOR ITEM	
LIFT RR SW-DN MIR CON SW-UP MIR CON SW-DN Page Up Page Down SETTING Numerical Display	LIFT FR SW-DN	
MIR CON SW-UP MIR CON SW-DN Page Up Page Down SETTING Numerical Display	LIFT RR SW-UP	
MIR CON SW-DN Page Up Page Down SETTING Numerical Display	LIFT RR SW-DN	
Page Up Page Down SETTING Numerical Display	MIR CON SW-UP	
SETTING Numerical Display	MIR CON SW-DN	
SETTING Display	Page Up Page Down	
MODE BACK LIGHT COPY		
PIIA0323E	MODE BACK LIGHT COPY	PIIA0323E

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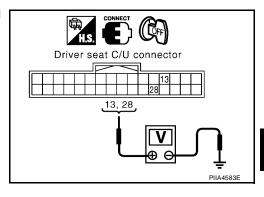
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⋈ Without CONSULT-II

- 1. Turn ignition switch OFF.
- 2. Check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V)
	(+)	(-)		(Approx.)
P2	13 (L/B)		Lifting switch (front) ON (DOWN operation)	0
		Ground	Other than above	Battery voltage
	28 (Y/B)		Lifting switch (front) ON (UP operation)	0
			Other than above	Battery voltage



OK or NG

OK >> Lifting switch (front) circuit is OK.

NG >> GO TO 2.

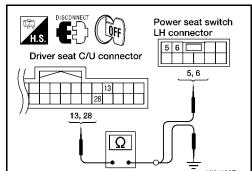
2. CHECK LIFTING SWITCH (FRONT) CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit and power seat switch LH.
- 2. Check continuity between driver seat control unit connector P2 terminals 13, 28 and power seat switch LH connector P2 terminals 5, 6.

13 (L/B) – 5 (L/B) : Continuity should exist. 28 (Y/B) – 6 (Y/B) : Continuity should exist.

3. Check continuity between driver seat control unit connector P2 terminals 13, 28 and ground

13 (L/B) – Ground : Continuity should not exist. 28 (Y/B) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 3.

$3. \ \mathsf{CHECK} \ \mathsf{LIFTING} \ \mathsf{SWITCH} \ \mathsf{(FRONT)}$

Check continuity between power seat switch LH as follows.

Term	inals	Condition Contin	
5		Lifting switch (front) ON (DOWN operation)	Yes
5	3	Other than above	No
6		Lifting switch (front) ON (UP operation)	Yes
6	Other than above	No	

Power seat switch LH 5 6 3 5, 6 LIIA1130E

OK or NG

OK >> Check the condition of the harness and connector.

NG >> Replace power seat switch LH. Refer to <u>SE-92</u>, "Removal and Installation".

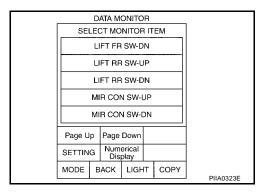
Lifting Switch (Rear) Circuit Inspection

1. CHECK FUNCTION

(P) With CONSULT-II

With "LIFT RR SW-UP, LIFT RR SW-DN" on the DATA MONITOR, operate the rear lifting switch to check ON/OFF operation.

Monitor item [OPERATION or UNIT]		Contents
LIFT RR SW-UP	"ON/OFF"	Operation (ON)/open (OFF) status judged from the RR lifter switch (UP) signal is displayed.
LIFT RR SW-DN	"ON/OFF"	Operation (ON)/open (OFF) status judged from the RR lifter switch (DOWN) signal is displayed.

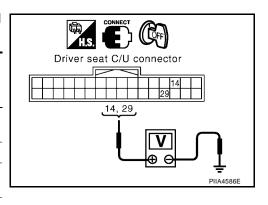


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Without CONSULT-II

- 1. Turn ignition switch OFF.
- Check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		(дрргох.)
P2	14 (G/W)	Ground	Rear lifting switch ON (DOWN operation)	0
			Other than above	Battery voltage
	29 (R/W)	Giodila	Rear lifting switch ON (UP operation)	0
			Other than above	Battery voltage



OK or NG

OK >> Rear lifting switch circuit is OK.

NG >> GO TO 2.

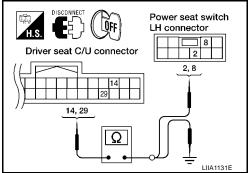
2. CHECK LIFTING SWITCH (REAR) CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit and power seat switch LH.
- 2. Check continuity between driver seat control unit connector P2 terminals 14, 29 and power seat switch connector P8 terminals 2, 8.

14 (G/W) - 8 (G/W) : Continuity should exist. 29 (R/W) - 2 (R/W) : Continuity should exist.

Check continuity between driver seat control unit connector P2 terminals 14, 29 and ground.

> 14 (G/W) - Ground : Continuity should not exist. 29 (R/W) - Ground : Continuity should not exist.



OK or NG

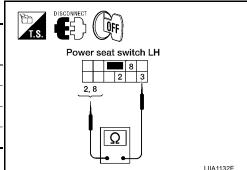
OK >> GO TO 3.

NG >> Repair or replace harness.

3. CHECK LIFTING SWITCH (REAR)

Check continuity between power seat switch LH as follows.

Term	inals	Condition	Continuity
(+)	(-)	Condition	
8		Lifting switch (rear) ON (DOWN operation)	Yes
O	3	Other than above	No
2		Lifting switch (rear) ON (UP operation)	Yes
		Other than above	No



OK or NG

OK >> Check the condition of the harness and connector.

NG >> Replace power seat switch LH. Refer to SE-92, "Removal and Installation".

Power Seat Switch Ground Inspection

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

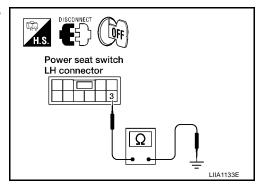
- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch LH.
- Check continuity between power seat switch LH connector P8 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

OK or NG

OK >> Check the condition of the harness and connector.

NG >> Repair or replace harness.



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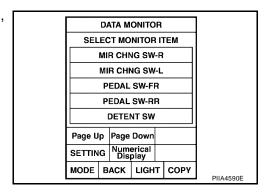
Pedal Adjusting Switch Circuit Inspection

1. CHECK FUNCTION

(P) With CONSULT-II

With "PEDAL SW-FR, PEDAL SW-RR" on the DATA MONITOR, operate the pedal adjusting switch to check ON/OFF operation.

Monitor item [OPERATION or UNIT]		Contents
PEDAL SW-FR	"ON/OFF"	Operation (ON)/open (OFF) status judged from the pedal adjusting switch (FR) signal is displayed.
PEDAL SW-RR	"ON/OFF"	Operation (ON)/open (OFF) status judged from the pedal adjusting switch (RR) signal is displayed.

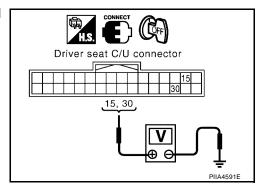


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⋈ Without CONSULT-II

- 1. Turn ignition switch OFF.
- 2. Check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		(дрргох.)
	15 (L)	Pedal adjusting switch ON (BACKWARD operation)	0	
P2		Ground	Other than above	Battery voltage
12	30 (R)		Pedal adjusting switch ON (FORWARD opera- tion)	0
			Other than above	Battery voltage



OK or NG

OK >> Pedal adjusting switch circuit is OK.

NG >> GO TO 2.

2. CHECK PEDAL ADJUSTING SWITCH CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit and pedal adjusting switch.
- Check continuity between driver seat control unit connector P2 terminals 15, 30 and pedal adjusting switch connector M96 terminals 2, 3.

15 (L) – 2 (L/Y) : Continuity should exist. 30 (R) – 3 (R) : Continuity should exist.

3. Check continuity between driver seat control unit connector P2 terminals 15, 30 and ground.

15 (L) – Ground : Continuity should not exist. 30 (R) – Ground : Continuity should not exist.

Pedal adjusting switch connector Driver seat C/U connector 2, 3 15, 30

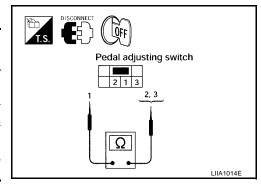
OK or NG

OK >> GO TO 3.

3. check pedal adjusting switch

Check continuity between pedal adjusting switch as follows.

Term	inals	Condition	Continuity
(+)	(-)	Condition	
2		Pedal adjusting switch ON (BACWARD operation)	Yes
	1	Other than above	No
3	'	Pedal adjusting switch ON (FORWARD operation)	Yes
		Other than above	No



OK or NG

OK >> GO TO 4.

NG >> Replace pedal adjusting switch. Refer to IP-10, "INSTRUMENT PANEL ASSEMBLY".

4. CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT

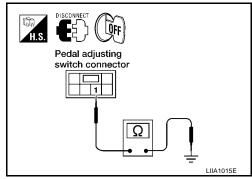
Check continuity between pedal adjusting switch connector M96 terminal 1 and ground.

: Continuity should exist.

OK or NG

OK >> Check the condition of the harness and connector.

NG >> Repair or replace harness.



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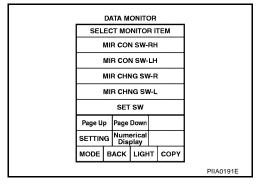
Door Mirror Switch (Changeover Switch) Circuit Check 1. CHECK FUNCTION

EIS002N6

(P)With CONSULT-II

Check the operation on "MIR CHNG SW-R" or "MIR CHNG SW-L" in the DATA MONITOR.

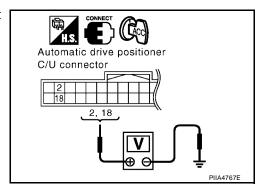
Monitor item [OPERATION or UNIT]		Contents
MIR CHNG S W-R	"ON/OFF"	ON/OFF status judged from the door mirror switch (switching to RIGHT) signal is displayed.
MIR CHNG S W-L	"ON/OFF"	ON/OFF status judged from the door mirror switch (switching to LEFT) signal is displayed.



⊗Without CONSULT-II

- 1. Turn ignition switch to ACC.
- 2. Check voltage between automatic drive positioner control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V)
OOTHICOIOI	(+)	(-)	Condition	(Approx.)
M33 -	2 (LG) 18 (BR/W)	Ground	Changeover switch RIGHT position	0
			Other than above	5
			Changeover switch LEFT position	0
			Other than above	5



OK or NG

OK >> Door mirror switch (changeover switch) is OK.

NG >> GO TO 2.

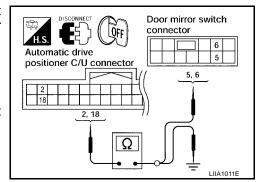
2. CHECK DOOR MIRROR SWITCH CIRCUIT HARNESS CONTINUITY

- Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror switch.
- 3. Check continuity between automatic drive positioner control unit connector M33 terminals 2, 18 and door mirror switch connector D10 terminals 5, 6.

2 (LG) – 5 (LG) : Continuity should exist. 18 (BR/W) – 6 (BR/W) : Continuity should exist.

 Check continuity between automatic drive positioner control unit connector M33 terminals 2, 18 and ground.

> 2 (LG) – Ground : Continuity should not exist. 18 (BR/W) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 3.

3. CHECK DOOR MIRROR SWITCH (CHANGEOVER SWITCH)

Check continuity between door mirror switch as follows.

Tern	ninals	Condition	Continuity
(+)	(-)	Condition	
5		Changeover switch RIGHT position	Yes
3	5	Other than above	No
6		Changeover switch LEFT position	Yes
		Other than above	No

T.S. CONNECT OFF Door mirror switch 6 5 5,6 Ω LIIA1313E

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OK or NG

OK >> Check the condition of the harness and the connector.

NG >> Replace door mirror switch.

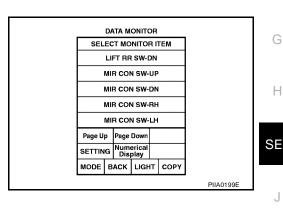
Door Mirror Switch (Mirror Switch) Circuit Check

1. CHECK DOOR MIRROR SWITCH (MIRROR SWITCH) SIGNAL

(P) With CONSULT-II

"MIR CON SW-UP/DN" Check the operation on and "MIR CON SW-RH/LH" in the DATA MONITOR.

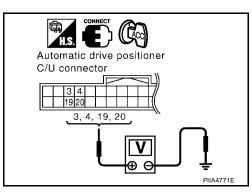
Monitor item [OPERATION or UNIT]		Contents
MIR CON SW -UP	"ON/OFF"	ON/OFF status judged from the door mirror switch (UP) signal is displayed.
MIR CON SW -DN	"ON/OFF"	ON/OFF status judged from the door mirror switch (DOWN) signal is displayed.
MIR CON SW -RH	"ON/OFF"	ON/OFF status judged from the door mirror switch (RIGHT) signal is displayed.
MIR CON SW -LH	"ON/OFF"	ON/OFF status judged from the door mirror switch (LEFT) signal is displayed.



⋈ Without CONSULT-II

- Turn ignition switch to ACC.
- Check voltage between automatic drive positioner control unit connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V)
	(+)	(-)	Condition	(Approx.)
M33	3 (Y/B)	Ground	Mirror switch UP operation	0
	3 (1/6)		Other than above	5
	4 (V/W)		Mirror switch LEFT operation	0
			Other than above	5
	19 (SB)		Mirror switch DOWN operation	0
			Other than above	5
	20 (GR)		Mirror switch RIGHT operation	0
	20 (GIV)		Other than above	5



OK or NG

OK >> Door mirror switch (mirror switch) circuit is OK.

NG >> GO TO 2.

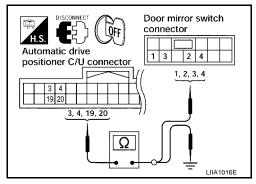
2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror switch.
- 3. Check continuity between automatic drive positioner control unit connector M33 terminals 3, 4, 19, 20 and door mirror switch connector D10 terminals 1, 2, 3, 4.

 $\begin{array}{lll} 3 \ (Y/B) - 3 \ (Y/B) & : Continuity should exist. \\ 4 \ (V/W) - 2 \ (V/W) & : Continuity should exist. \\ 19 \ (SB) - 4 \ (SB) & : Continuity should exist. \\ 20 \ (GR) - 1 \ (GR) & : Continuity should exist. \end{array}$

4. Check continuity between automatic drive positioner control unit connector M33 terminals 3, 4, 19, 20 and ground.

3 (Y/B) – Ground : Continuity should not exist.
 4 (V/W) – Ground : Continuity should not exist.
 19 (SB) – Ground : Continuity should not exist.
 20 (GR) – Ground : Continuity should not exist.



OK or NG

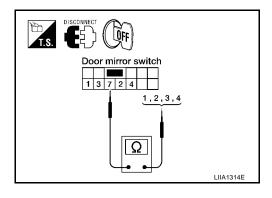
OK >> GO TO 3.

NG >> Repair or replace harness.

3. CHECK DOOR MIRROR SWITCH (MIRROR SWITCH)

Check continuity between door mirror switch as follows.

Terminals		Switch condition	Continuity
1		Mirror switch RIGHT operation	Yes
		Other than above	No
2	2	Mirror switch LEFT operation	Yes
_	7	Other than above	No
3	Mirror switch UP operation	Yes	
	Other than above	No	
4		Mirror switch DOWN operation	Yes
		Other than above	No



OK or NG

OK >> Check the condition of the harness and connector.

NG >> Replace door mirror switch.

Door Mirror Switch Ground Circuit Inspection

1. CHECK DOOR MIRROR SWITCH GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror switch.
- 3. Check continuity between door switch connector D10 terminal 7 and ground.

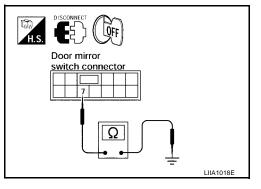
7 (B) - Ground

: Continuity should exist.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace harness.



2. CHECK DOOR MIRROR SWITCH (CHANGEOVER SWITCH)

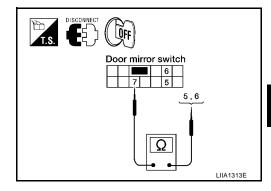
Check continuity between door mirror switch as follows.

Tern	ninals	Condition	Continuity
E		Changeover switch RIGHT position	Yes
5	7	Other than above	No
6	, ,	Changeover switch LEFT position	Yes
O		Other than above	No

OK or NG

OK >> Check the condition of the harness and the connector.

NG >> Replace door mirror switch.



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Seat Memory Switch Circuit Inspection

1. CHECK FUNCTION

(II) With CONSULT-II

With "SET SW, MEMORY SW1, MEMORY SW2" on the DATA [MONITOR, operate the switch to check ON/OFF operation.

Monitor item [OP UNIT		Contents		
MEMORY SW1	"ON/OFF"	ON/OFF status judged from the seat memory switch 1 signal is displayed.		
MEMORY SW2	"ON/OFF"	ON/OFF status judged from the seat memory switch 2 signal is displayed.		
SET SW	"ON/OFF"	ON/OFF status judged from the setting switch signal is displayed.		

	DATA M			
MONITO	R			
SLIDE S SLIDE S RECLN RECLN LIFT FR LIFT FR LIFT RR LIFT RR SET SW	W-RR SW-FR SW-RR SW-UP SW-DN SW-UP SW-DN		OFF OFF OFF OFF OFF OFF OFF	
		Page	Down	
		REC	ORD	
MODE	BACK	LIGHT	COPY	
ſ		ONITOR		
MONITO	R			
	-DOWN Y SW 1 Y SW 2		OFF OFF OFF OFF OFF	
DOOR S	W-DR PEED SE		OFF <7km/	
Page	e Up	Page	Down	
		REC	ORD	
MODE	BACK	LIGHT	COPY	
				PIIA0309E

Without CONSULT-II GO TO 2.

OK or NG

OK >> Seat memory switch circuit is OK.

NG >> GO TO 2.

$2. \ \mathsf{CHECK} \ \mathsf{SEAT} \ \mathsf{MEMORY} \ \mathsf{SWITCH}$

- 1. Turn ignition switch OFF.
- 2. Disconnect seat memory switch.
- 3. Operate the setting switch and seat memory switch.
- 4. Check continuity between seat memory switch as follows.

Tern	ninal	Condition	Continuity
1		Memory switch 1 ON	Yes
1		Memory switch 1: OFF	No
2	4	Memory switch 2: ON	Yes
2	4	Memory switch 2: OFF	No
2	3	Set switch: ON	Yes
ა 		Set switch: OFF	No

Seat memory switch 1, 2, 3 LIIA1020E

OK or NG

OK >> GO TO 3.

NG >> Replace seat memory switch.

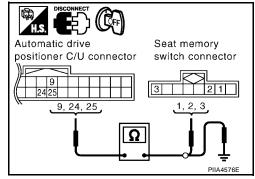
3. CHECK HARNESS CONTINUITY

- 1. Disconnect automatic drive positioner control unit.
- 2. Check continuity between automatic drive positioner control unit connector M33 terminals 9, 24, 25 and seat memory switch connector D5 terminals 1, 2, 3.

9 (LG/B) – 1 (LG/B) : Continuity should exist. 24 (G/O) – 3 (G/O) : Continuity should exist. 25 (P/L) – 2 (P/L) : Continuity should exist.

3. Check continuity between automatic drive positioner control unit connector M33 terminals 9, 24, 25 and ground.

9 (LG/B) – Ground : Continuity should not exist. 24 (G/O) – Ground : Continuity should not exist. 25 (P/L) – Ground : Continuity should not exist.



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OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.

4. CHECK SEAT MEMORY SWITCH GROUND CIRCUIT

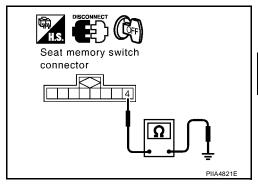
Check continuity between seat memory switch D5 terminal 4 and ground.

4 (B) – Ground : Continuity should exist.

OK or NG

OK >> Replace automatic drive positioner control unit.

NG >> Repair or replace harness.



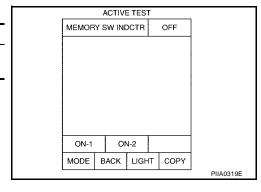
Seat Memory Indicator Lamp Circuit Inspection

1. CHECK FUNCTION

(II) With CONSULT-II

With "MEMORY SW INDCTR" in ACTIVE TEST, check operation.

	Test item	Description
_	MEMORY SW INDCTR	The memory switch indicator is lit by receiving the drive signal.



⋈ Without CONSULT-II

ĞO TO 2.

OK or NG

OK >> Seat memory switch indicator lamp circuit is OK.

NG >> GO TO 2.

2. CHECK SEAT MEMORY SWITCH POWER SUPPLY CIRCUIT

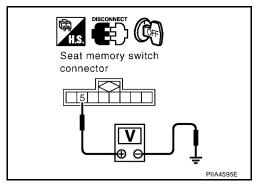
- 1. Turn ignition switch OFF.
- 2. Disconnect seat memory switch.
- 3. Turn ignition switch ON.
- 4. Check voltage between seat memory switch connector D5 terminal 5 and ground.

5 (Y/R) - Ground : Battery voltage

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



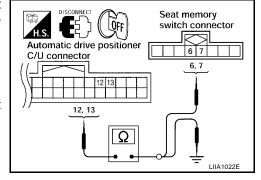
3. CHECK SEAT MEMORY INDICATOR CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit.
- 3. Check continuity between automatic drive positioner control unit connector M33 terminals 12, 13 and seat memory switch connector D5 terminals 6, 7.

12 (P) – 6 (P) : Continuity should exist. 13 (Y/G) – 7 (Y/G) : Continuity should exist.

 Check continuity between automatic drive positioner control unit connector M33 terminals 12, 13 and ground.

> 12 (P) – Ground : Continuity should not exist. 13 (Y/G) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.

4. CHECK SEAT MEMORY SWITCH INDICATOR SIGNAL

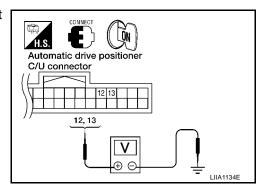
- 1. Connect seat memory switch.
- 2. Turn ignition switch ON.
- 3. Check continuity between automatic drive positioner control unit connector M33 terminals 12, 13 and ground.

12 (P) – Ground : Battery voltage 13 (Y/G) – Ground : Battery voltage

OK or NG

OK >> Replace automatic drive positioner control unit.

NG >> Replace seat memory switch.



Door Mirror Sensor Power Supply and Ground Circuit inspection

1. CHECK DOOR MIRROR SENSOR CIRCUIT HARNESS CONTINUITY

- Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit.
- Check continuity between automatic drive positioner control unit connector M34 terminals 33, 41 and door mirror connector D4 (LH), D107 (RH) terminals 5, 6.

33 (W/L) - 5 (W/L) : Continuity should exist. 41 (W/G) - 6 (W/G) : Continuity should exist.

Check continuity between automatic drive positioner control unit connector M34 terminals 33, 41 and ground.

> 33 (W/L) - Ground : Continuity should not exist. 41 (W/G) - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace harness.

2. CHECK MIRROR SENSOR POWER SUPPLY

- Connect automatic drive positioner control unit and door mirror
- 2. Turn ignition switch to ACC.
- Check voltage between automatic drive positioner control unit connector M34 terminal 33 and ground.

33 (W/L) - Ground : Approx. 5V

OK or NG

OK >> GO TO 3.

NG >> Replace automatic drive positioner control unit.

3. CHECK MIRROR SENSOR GROUND CIRCUIT

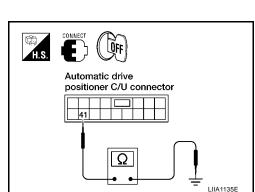
- Turn ignition switch OFF. 1.
- Check continuity between automatic drive positioner control unit connector M34 terminal 41 and ground.

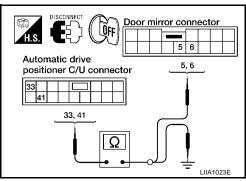
41 (W/G) - Ground : Continuity should exist.

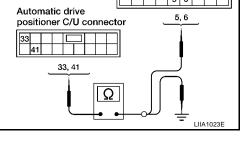
OK or NG

OK >> Check the condition of the harness and connector.

NG >> Replace automatic drive positioner control unit.







Automatic drive positioner C/U connector ٧ ⊕ ⊝

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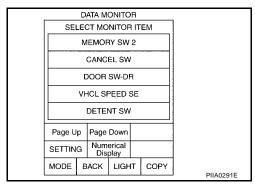
A/T Device (Detent Switch) Circuit Inspection

1. CHECK FUNCTION

(II) With CONSULT-II

Check that when the A/T shift lever is in P position, "DETENT SW" on the DATA MONITOR becomes OFF.

Monitor item [OPERATION or UNIT]		Contents
DETENT SW	"ON/ OFF"	The selector lever position "P position (OFF)/other than P position (ON)" judged from the park switch signal is displayed.



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⋈ Without CONSULT-II

GO TO 2.

OK or NG

OK >> A/T device (detent switch) circuit is OK.

NG >> GO TO 2.

2. CHECK A/T DEVICE (DETENT SWITCH) HARNESS

- 1. Turn ignition switch OFF.
- 2. Disconnect A/T device and driver seat control unit.
- 3. Check continuity between A/T device connector M203 terminal 6 and driver seat control unit connector P2 terminal 21.

6 (L/R) – 21 (L/R) : Continuity should exist.

 Check continuity between A/T device connector M203 terminal 6 and ground.

6 (L/R) – Ground : Continuity should not exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

3. CHECK A/T DEVICE

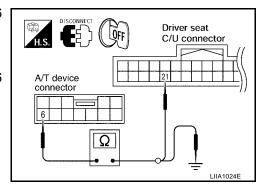
Check continuity between A/T device (detent switch) as follows.

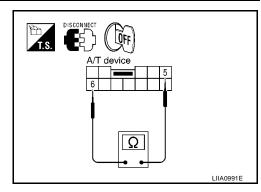
Terminals		Condition	Continuity
	6	P position	No
	0	Other than P position	Yes

OK or NG

OK >> A/T device is OK.

NG >> Replace A/T device.





Front Door Switch LH Circuit Inspection

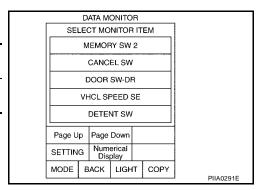
1. CHECK FUNCTION

(II) With CONSULT-II

Touch "BCM" with "DOOR SW DR" on the DATA MONITOR, check ON/OFF operation when the front door is open and closed.

Monitor item [OPERA- TION or UNIT]		Contents	
DOOR SW DR*	"ON/ OFF"	Door open (ON)/door closed (OFF) status judged from the front door switch is displayed.	

^{*:} Refer to SE-38, "DATA MONITOR" .



W Without CONSULT-II

GO TO 2.

OK or NG

OK >> Front door switch LH circuit is OK.

NG >> GO TO 2.

2. CHECK FRONT DOOR SWITCH LH

- 1. Turn ignition switch OFF.
- 2. Disconnect front door switch LH.
- 3. Check continuity between front door switch LH terminal 2 and body ground part of front door switch (crew cab) or body ground (king cab).

Connector	Terminals		Condition	Continuity
B8	2	Ground	With the front door switch LH pressed	No
Б0	2		With the front door switch LH released	Yes

OK or NG

OK >> GO TO 3.

NG >> Replace front door switch LH.

Door switch DISCONNECT P LIIA0948E

3. CHECK HARNESS CONTINUITY

- 1. Disconnect BCM.
- 2. Check continuity between BCM connector M19 terminal 47 and front door switch LH connector B8 terminal 2.

47 (SB) – 2 (SB) : Continuity should exist.

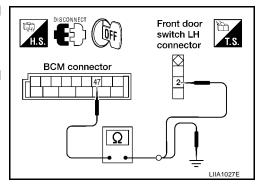
3. Check continuity between BCM connector M19 terminal 47 and ground.

47 (SB) – Ground : Continuity should not exist.

OK or NG

OK >> Front door switch LH circuit is OK.

NG >> Repair or replace harness.



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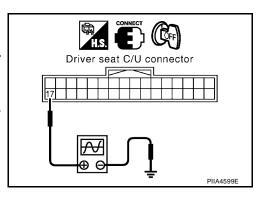
L

UART Communication Line Circuit Inspection

1. CHECK UART LINE INPUT/OUTPUT SIGNAL 1

- 1. Turn ignition switch OFF.
- 2. Check signal between driver seat control unit connector and ground, with oscilloscope.

Connector	Terminals (Wire color)		Condition	Signal		
	(+)	(-)				
P2	17 (W)	Ground	Pedal adjusting switch ON (FOR- WARD or BACK- WARD operation)	(V) 6 4 2 0 2 ms		



EIS002NE

OK or NG

OK >> GO TO 2.

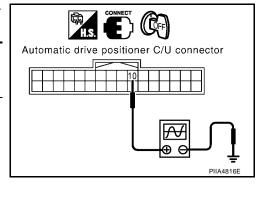
NG >> Check the following.

- When voltage wave form does not appear with a constant voltage (approx. 5V), replace driver seat control unit.
- When voltage wave form does not appear with a constant voltage (approx. 0V), replace automatic driver seat control unit.

2. CHECK UART LINE INPUT/OUTPUT SIGNAL 2

Check signal between automatic drive positioner control unit connector ground, with oscilloscope.

Connector	Terminals (Wire color)		Condition	Signal		
	(+)	(-)				
M33	10 (L)	Ground	Pedal adjusting switch ON (FOR- WARD or BACK- WARD operation)	(V) 6 4 2 0 1 ms		



OK or NG

OK >> GO TO 3.

NG >> Check the following.

- When voltage wave form does not appear with a constant voltage (approx. 5V), replace automatic drive positioner control unit.
- When voltage wave form does not appear with a constant voltage (approx. 0V), replace driver seat control unit.

3. CHECK UART LINE HARNESS

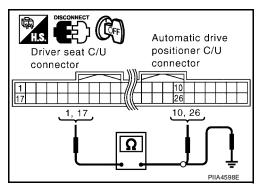
 Disconnect driver seat control unit and automatic drive positioner control unit.

2. Check continuity between driver seat control unit connector P2 terminals 1, 17, and automatic drive positioner connector M33 terminals 10, 26.

1 (L) – 10 (L) : Continuity should exist. 17 (W) – 26 (W) : Continuity should exist.

3. Check continuity between driver seat control unit connector P2 terminals 1, 17 and ground.

1 (L) – Ground : Continuity should not exist. 17 (W) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.

4. CHECK DRIVER SEAT CONTROL UNIT

Does the automatic drive positioner operate when the driver seat control unit is exchanged?

OK or NG

OK >> Replace driver seat control unit.

NG >> Replace automatic drive positioner control unit.

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Removal and Installation

FISO02NI

Refer to ACC-2, "ACCELERATOR CONTROL SYSTEM" and BR-6, "BRAKE PEDAL" .

POWER SEAT

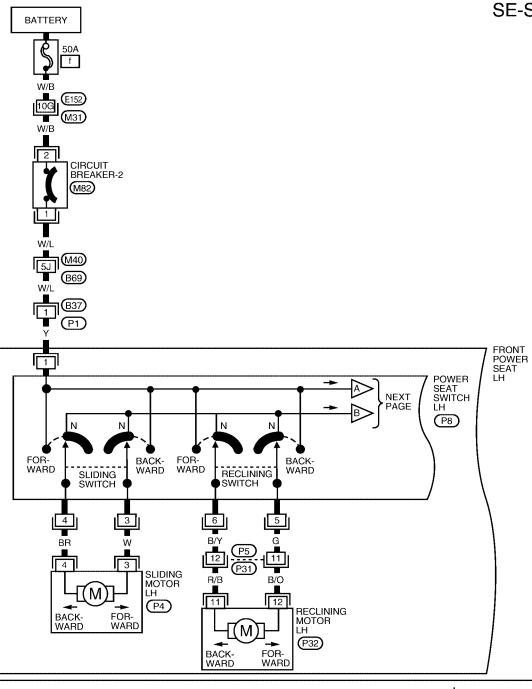
POWER SEAT PFP:87016 Α **Schematic** EIS002NG В С BATTERY FUSIBLE D CIRCUIT BREAKER-2 Е FRONT POWER SEAT LH POWER SEAT SWITCH LH SLIDING MOTOR LH LIFTING MOTOR (FRONT) -(M)-SLIDING SWITCH FRONT LIFTING SWITCH ı**M**⊦ -(**M**)-REAR LIFTING SWITCH LIFTING MOTOR (REAR) -(M):-RECLINING MOTOR LH RECLINING SWITCH Н SE FRONT POWER SEAT RH POWER SEAT SWITCH RH -{**M**}-SLIDING MOTOR RH SLIDING SWITCH -(**M**)-RECLINING MOTOR RH RECLINING SWITCH -(**M**)-LIFTING SWITCH LIFTING MOTOR M

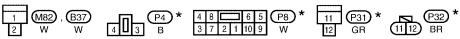
WIWA0226E

Wiring Diagram — SEAT —

EIS002NH

SE-SEAT-01





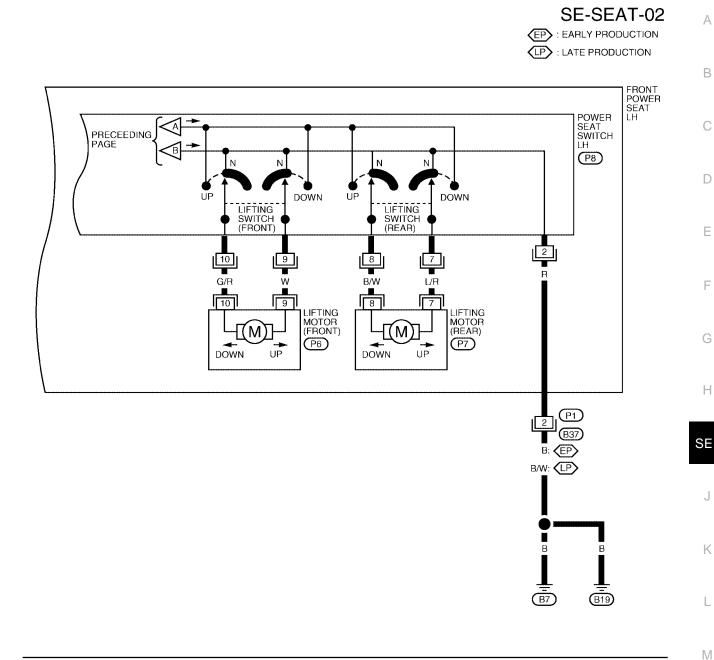
REFER TO THE FOLLOWING.

M31, M40 - SUPER

MULTIPLE JUNCTION (SMJ)

 \star : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

WIWA0867E

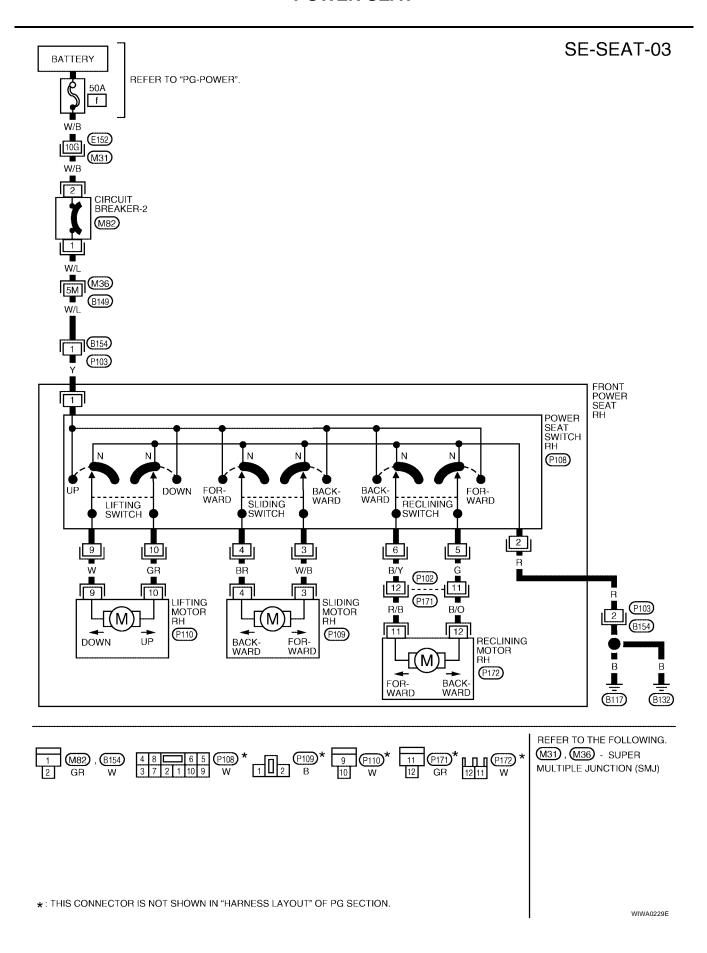


9 P6 * 8 P7 * 1 B37 W

4 8 6 5 P8 * 3 7 2 1 10 9 W

*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

WIWA0228E



HEATED SEAT

HEATED SEAT
PFP:87335

Description

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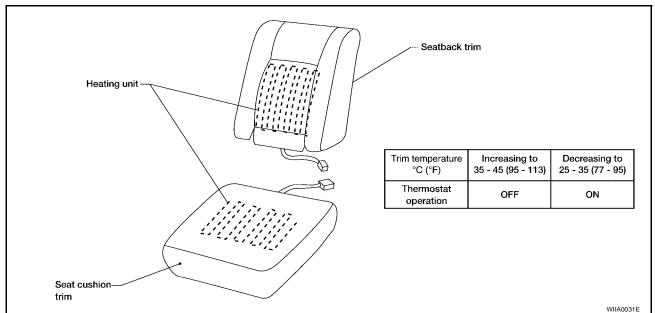
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- When handling seat, be extremely careful not to scratch heating unit.
- To replace heating unit, seat trim and pad should be separated.
- Do not use any organic solvent, such as thinner, benzene, alcohol, etc. to clean trim.

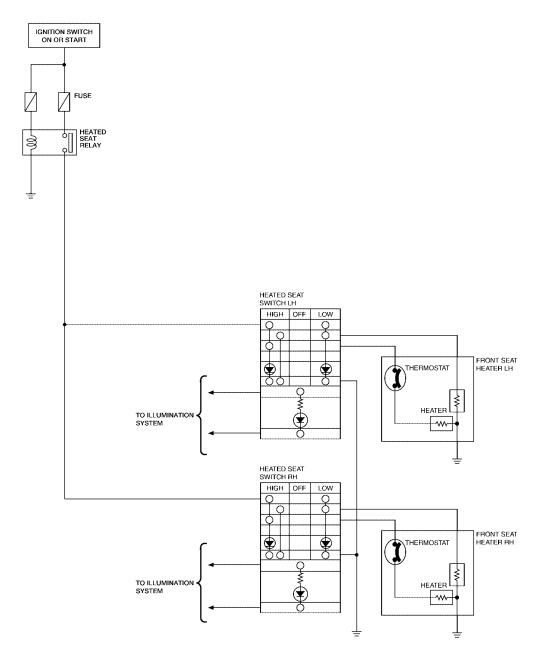


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Schematic EISOQZNJ



LIWA0217E

HEATED SEAT

Wiring Diagram — HSEAT —

ISO02NF

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SE-HSEAT-01

IGNITION SWITCH ON OR START

B/R

FUSE BLOCK (J/B)

M39

G/W

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B

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C

G/W

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B

C

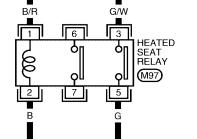
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FUSE (J/B)

M39

REFER TO "PG-POWER".

NEXT PAGE



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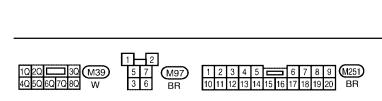
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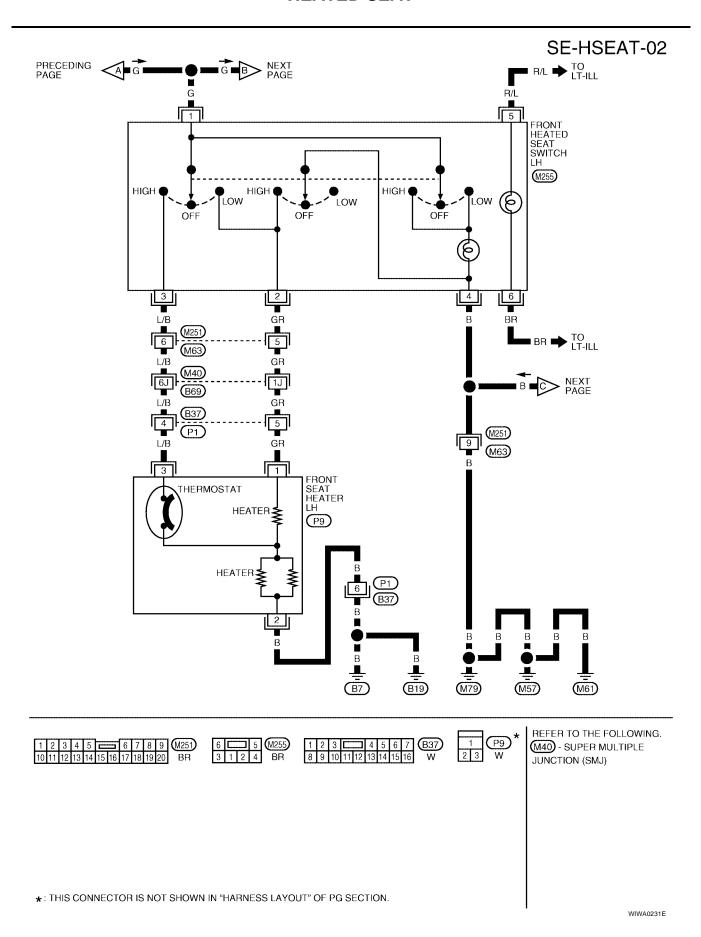
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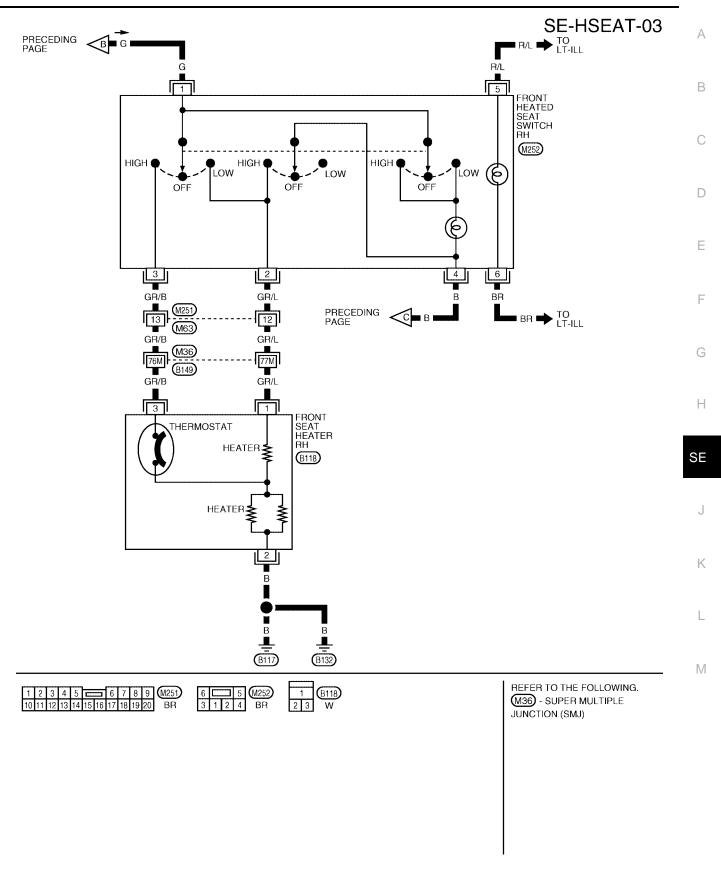


M61

M57

WIWA0257E





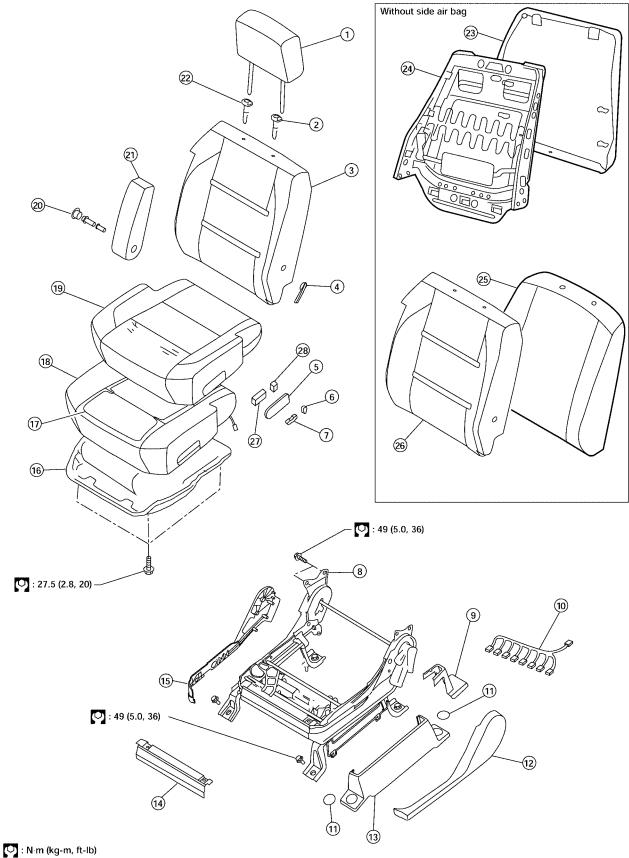
WIWA0232E

FRONT SEAT PFP:87000

Removal and Installation

EIS002NL

Driver Seat



1.	Headrest	2.	Headrest holder with multi position lock	3.	Seatback assembly
4.	Lumbar support lever	5.	Power seat switch escutcheon	6.	Recliner switch knob
7.	Slide switch knob	8.	Driver power seat frame assembly	9.	LH outer leg cover
10.	Driver seat wiring harness	11.	Bolt cover	12.	Seat cushion outer finisher
13.	Outer pedestal finisher	14.	Seat cushion front finisher	15.	Seat cushion inner finisher
16.	Seat cushion frame	17.	Seat cushion heating element	18.	Seat cushion pad
19.	Seat cushion trim cover	20.	Armrest bolt cover	21.	Armrest assembly
22.	Headrest holder	23.	Seatback board	24.	Seatback frame
25.	Seatback pad	26.	Seatback trim cover	27.	Seat slide switch
28.	Recliner switch				

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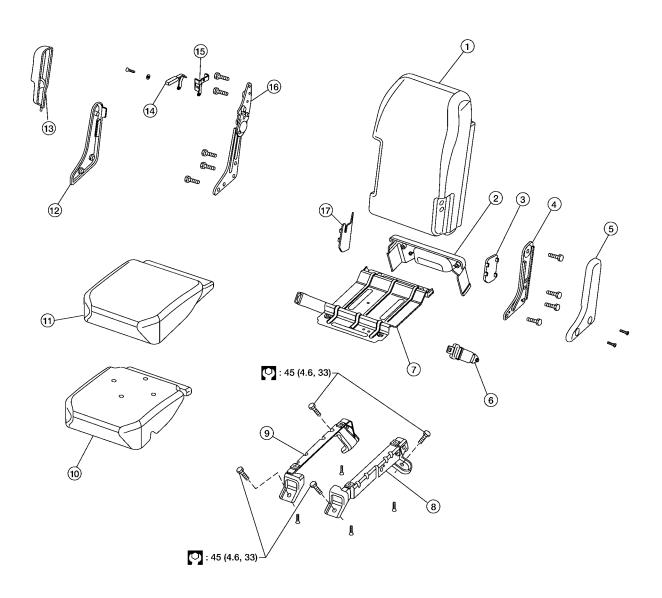
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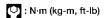
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Center Seat





- 1. Armrest assembly
- 4. Armrest support

- 2. Rear hinge cover
- 5. Armrest bolt cover

WIIA0616E

- 3. Inboard armrest support cover
- 6. Seat belt tongue

- 7. Center seat pan
- 10. Seat cushion pad
- 13. Upper armrest pivot cover
- 16. Armrest pivot arm
- 8. LH pedestal support
- 11. Seat cushion cover
- 14. Armrest pivot release lever
- 17. Inboard lower pivot cover
- 9. RH pedestal support
- 12. Lower armrest pivot cover
- 15. Armrest release bracket

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Passenger Seat Without side air bag 26) (3) <u>a</u> 21) -(13) **15** : 45 (4.6, 33)

. Headrest

Headrest holder with multi position lock

Seatback board

WIIA0617E

4. Armrest assembly

: N·m (kg-m, ft-lb)

5. Armrest bolt cover

Fold flat link bar

Revision: January 2005 **SE-96** 2004 Titan

7.	Outboard reclining arm outer cover	8.	Outboard reclining arm inner cover	9.	Inboard reclining arm inner cover
10.	Latch cover	11.	LH outer leg cover	12.	Outboard reclining arm inner cover
13.	Seat cushion inner cover	14.	Passenger seat wiring harness	15.	Inner front leg cover
16.	Power seat frame assembly	17.	NVH assembly	18.	Seat cushion front finisher
19.	Outer pedestal finisher	20.	Seat cushion outer finisher	21.	Seat cushion assembly
22.	Power seat switch escutcheon	23.	Slide switch knob	24.	Recliner switch knob
25.	Seatback assembly	26.	Headrest holder	27.	Seatback frame
28.	Seatback trim cover	29.	Seatback pad	30.	Recliner switch
31.	Seat slide switch				
REMOVAL					
When removing or installing the seat trim, handle it carefully to keep dirt out and avoid damage.					

R

- Before removing the front seat, turn the ignition switch off, disconnect both battery cables 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 Occupant Classification System sensor and control module. Do not disassemble front passenger seat cushion assembly or remove 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 body mounting bolts are visible and a tool can be inserted.

- If disassembling the seat after removal, set the front/rear cushion lifters to the top position.
- 2. Disconnect both battery cables and wait at least 3 minutes.
- 3. Disconnect the side air bag module harness connector.
- 4. Remove the four body mounting bolts.
- 5. Disconnect the power seat harness connectors and remove the seat from the vehicle.

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

INSTALLATION

Installation is in the reverse order of removal.

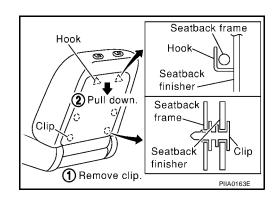
Disassembly and Assembly SEATBACK TŘÍM AND PAD

NOTE:

Only complete outboard seatback assemblies can be replaced on vehicles equipped with side air bags.

Be sure to set the front/rear cushion lifter to the top position.

Remove the seatback board from the back of the seatback.

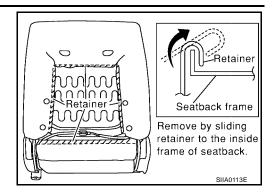


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EIS002NM

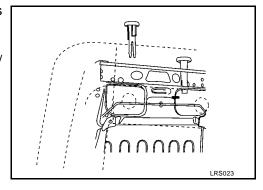
Remove the retainer.



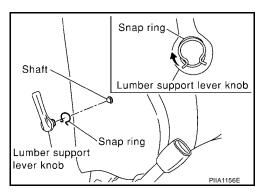
- 3. Remove the headrest.
- 4. From inside of the seatback, squeeze the headrest holder tabs at the base of the stay pipe and pull the up to remove.

NOTE:

Before installing the headrest holder, check its orientation (front/rear and right/left).



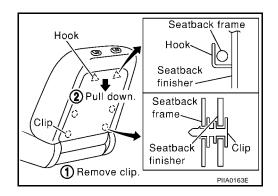
5. Remove the snap ring and the lumbar support lever knob.



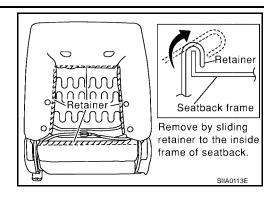
6. Disconnect the seatback heater harness. Remove the seatback trim and pad assembly. Remove the hog ring to separate the seatback trim from the pad and the heater unit.

REMOVAL OF SEATBACK ASSEMBLY

1. Remove the seatback board from the back of the seatback.



2. Remove the retainer.



- 3. Remove the side air bag harness connector from the seat cushion.
- 4. Remove the mounting bolts (2 for each side) and seatback assembly.

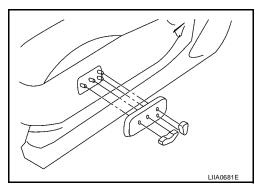
INSTALLATION OF SEATBACK ASSEMBLY

Installation is in the reverse order of removal.

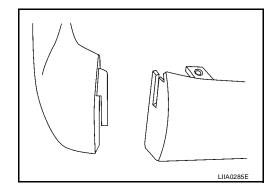
SEAT CUSHION TRIM AND PAD

CAUTION:

- Front passenger seat is equipped with Occupant Classification System sensor and control module. Do not disassemble front passenger seat cushion assembly or remove trim as this will affect the Occupant Classification System calibration.
- Always replace passenger seat cushion as an assembly.
- 1. Remove the power seat switch knobs and power seat switch escutcheon (or recline knobs on manual seat).



2. Remove the front seat cushion finisher (inner).



3. Remove the power seat switch screws (or lift knobs on manual seats).

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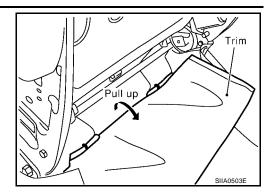
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4. Remove four bolts and the seat cushion assembly.



- 5. Remove the retainer on the seat cushion frame, then remove the harness connector for the seat heater.
- 6. On the drivers seat only, after removing the seat cushion trim and pad, remove the hog rings to separate the trim cover from the pad and seat cushion heater unit.

REAR SEAT PFP:88300

Removal and Installation REMOVAL

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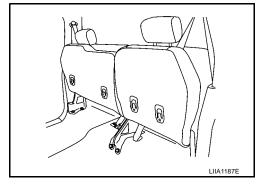
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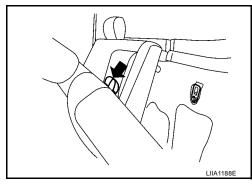
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- 1. Lift the seat cushion into the stowed position.
- 2. Remove the seatbelt and seat anchor bolts.



3. Release the seatback and remove the seat.



INSTALLATION

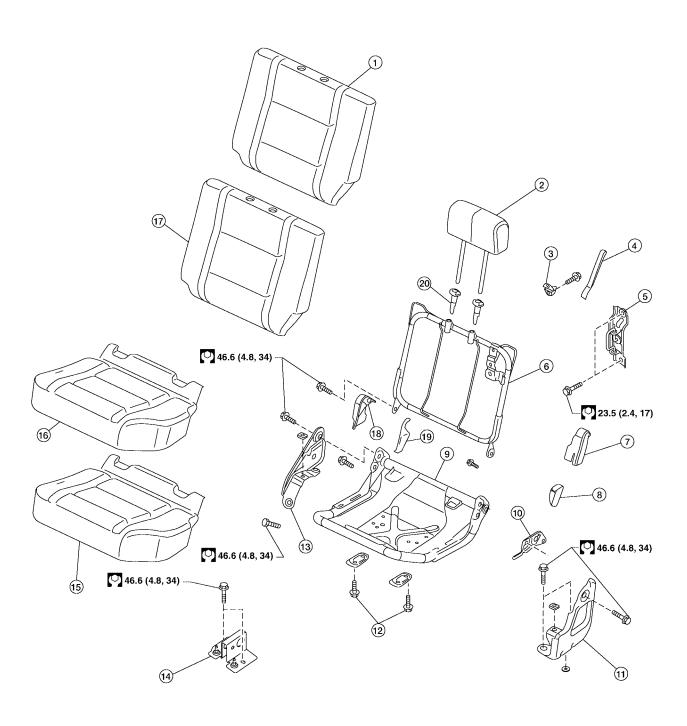
Installation is in the reverse order of removal.

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EIS00711

LH



N·m (kg-m, ft-lb)

WIIA0408E

REAR SEAT

- Seatback pad
- 4. Seatback latch release strap
- 7. Outboard pivot cover
- 10. Seat cushion release assembly
- 13. Inboard seat support
- 16. Seat cushion trim
- 19. Inner inboard pivot cover

- 2. Headrest
- 5. Seatback latch striker
- 8. Release lever handle
- 11. Outboard seat support
- 14. Rear seat bracket
- 17. Seatback trim
- 20. Headrest guide

- 3. Seatback latch
- 6. Seatback frame
- 9. Seat cushion frame
- 12. Grocery bag hooks
- 15. Seat cushion pad
 - 8. Inboard outer pivot cover

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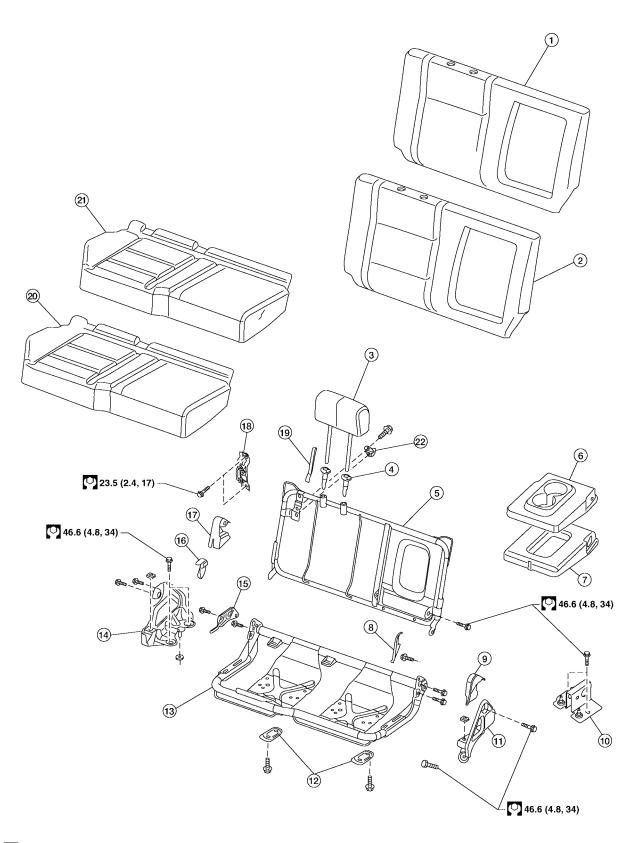
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RH



N·m (kg-m, ft-lb)

Seatback trim

4. Locking headrest guide

2. Seatback pad

5. Seatback frame

SE-104

3. Headrest

6. Arm rest trim

WIIA0407E

REAR SEAT

- Arm rest pad and frame 7.
- 10. Rear seat bracket
- 13. Seat cushion frame
- 16. Seat cushion release handle
- 19. Seatback release strap
- 22. Seatback latch assembly
- Inner inboard hinge cover 8.
- 11. Inboard seatback pivot anchor
- Outboard seatback pivot anchor
- Outboard pivot cover
- 20. Seat cushion pad

- 9. Outer inboard hinge cover
- 12. Grocery bag hooks
- Seat cushion release lever
- 18. Seatback striker assembly
- 21. Seat cushion trim

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REAR SEAT