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### PRECAUTIONS

### PRECAUTIONS

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

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

#### WARNING:

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

#### **Service Notice**

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

#### **Precautions for Work**

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a cloth or vinyl tape to protect it.
- Protect the removed parts with a 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, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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### PREPARATION

# PREPARATION

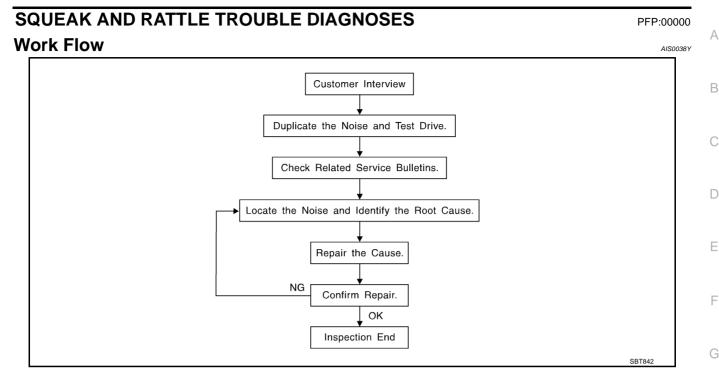
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### **Special Service Tools**

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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 T	ools	AIS001T8
Tool name		Description
Engine ear	SIIA0995E	Locating the noise



#### **CUSTOMER INTERVIEW**

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to <u>SE-9</u>, "<u>Diagnostic Worksheet</u>". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
   Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces=higher pitch noise/softer surfaces=lower pitch noises/edge to surface=chirping
- Creak—(Like walking on an old wooden floor)
   Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle) Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door) Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand) Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise) Thump characteristics include softer knock/dead sound often drought 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 and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.
   Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- tapping or pushing/pulling the component that 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 <u>SE-7, "Generic Squeak and Rattle Troubleshooting"</u>.

#### **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  $\times$  135 mm (3.94  $\times$  5.31 in)/76884-71L01: 60  $\times$  85 mm (2.36  $\times$  3.35 in)/76884-71L02: 15  $\times$  25 mm (0.59  $\times$  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  $\times$  50 mm (1.97  $\times$  1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50  $\times$  50 mm (1.97  $\times$  1.97 in)

INSULATOR (Light foam block) 80845-71L00: 30 mm (1.18 $\times$ 50 mm (1.18 $\times$ 1.97 in) FELT CLOTHTAPE	А
Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: $15 \times 25$ mm (0.59 $\times$ 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	В
Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Used in of UHMW tape that will be visible or not fit. Note: Will only last a few months.	С
SILICONE SPRAY Use when grease cannot be applied. DUCT TAPE Use to eliminate movement.	D
CONFIRM THE REPAIR	Е
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.	F
Generic Squeak and Rattle Troubleshooting	I
Refer to Table of Contents for specific component removal and installation information.	
INSTRUMENT PANEL	G
Most incidents are caused by contact and movement between:	
1. Cluster lid A and instrument panel	Н
2. Acrylic lens and combination meter housing	
<ol> <li>Instrument panel to front pillar garnish</li> <li>Instrument panel to windshield</li> </ol>	SE
5. Instrument panel mounting pins	
6. Wiring harnesses behind the combination meter	
7. A/C defroster duct and duct joint	J
These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.	K
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.	L
CENTER CONSOLE	D. 4
Components to pay attention to include:	Μ

Components to pay attention to include: 1. Shifter assembly cover to finisher

- 2. A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

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

#### DOORS

Pay attention to the:

- 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.

#### TRUNK

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

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

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

#### SUNROOF/HEADLINING

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

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

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

#### SEATS

When isolating seat noise it'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:

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

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

#### UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

#### **Diagnostic Worksheet**

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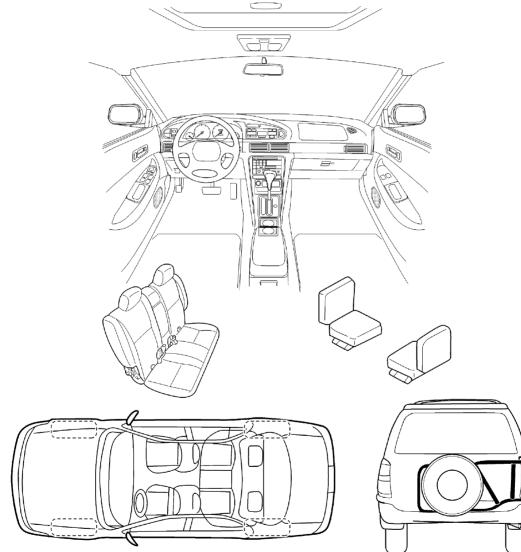
#### SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

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



Continue to 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 □ 1 <sup>st</sup> time in the morning	after sitting out in the sun when it is raining or wet		
<ul> <li>only when it is cold outside</li> </ul>	□ dry or dusty conditions		
only when it is hot outside	G other:		
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE?		
through driveways	squeak (like tennis shoes on a clean floor) creak (like walking on an old wooden floor)		
• over speed bumps	□ rattle (like shaking a baby rattle)		
only at about mph	L knock (like a knock on a door)		
on acceleration	tick (like a clock second hand)		
$\Box$ coming to a stop	thump (heavy, muffled knock noise)		
$\Box$ on turns : left, right or either (circle)	🖵 buzz (like a bumble bee)		
with passengers or cargo			
other:			
after driving miles or mini	utes		

#### 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 re	Image:
VIN: Customer	Name:
W.O. #: Date:	

#### SBT844

### **CLIP AND FASTENER**

### **CLIP AND FASTENER Clip and Fastener**



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p and Fastener		AIS003C2
Symbol No.	Shapes	Removal & Installation
C101		Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.
C103	TTTT	Removal: Remove with a clip remover.
C203 ] 878		Removal: Push center pin to catching position. (Do not remove center pin by hitting it.) Push Push Installation:
C205 T		Removal: Flat-bladed screwdriver Clip Finisher
C206		Removal:

### **AUTOMATIC DRIVE POSITIONER**

System Description MANUAL OPERATION

The driving position [seat position pedal position (Accelerator, brake) and door mirror position] can be adjusted with the power seat switch or pedal adjusting switch or door mirror remote control switch. **NOTE:** 

#### • The door mirrors can be manually operated with the ignition switch turned ACC or ON.

- Only when CVT selector lever is in P position, adjusting pedal operates (except when ignition switch turned to OFF).
- If detection switch error is detected, manual adjustable pedal operation cannot be performed when ignition switch turns ON.

#### **AUTOMATIC OPERATION**

- The system automatically moves the driver seat to facilitate entry/exit to/from the vehicle. The driver seat control unit can also store the optimum driving positions (driver seat, pedal position and door mirror position) for 2 people. If the driver is changes, 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 a mount at entry/exit setting can be changed.

Function		Description	
Memory ope	ration	The seat, pedal (accelerator, brake) and door mirror move to the stored driving position by pushing 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.	
Key fob interlock operation		Perform memory operation, turnout operation and return operation by pressing key fob unlock button.	

#### NOTE:

- Disconnecting the battery erases the stored memory.
- After connecting the battery, insert the key into the ignition cylinder and turn the driver door switch 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 turned to START during memory switch operation and return opera- tion, 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, memory switch 1, or 2 are pressed.
	When CVT selector lever is in any position other than P.
Auto operation stop conditions.	• When the door mirror remote control switch is operated (when ignition switch or ACC switch turned to ON).
	When power seat switch turned ON.
	When pedal adjusting switch turned ON.
	• When driver 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.

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#### 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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#### MEMORY STORING AND KEY FOB INTERLOCK STORING

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

Adjust the position of driver's seat, pe	edal and door mirror with manual operations.		
<ul> <li>Ignition switch is turned ON.</li> <li>CVT selector lever is shifted to P-po</li> </ul>	osition.		
	Indicator LEDs		
Touch set switch.	(1) Indicator LED for which driver's seat positions are already retained in memory illuminates for 5 seconds.		
	(2) Indicator LED for which driver's seat positions are not entered in memory illum for 0.5 seconds.	ninates	
	Within 5 seconds.		
Press memory switch for which driv-	Indicator LEDs		
er's seat positions are to be entered in memory for more than 0.5 sec- onds. (2 driver's seat positions can			
be memorized.)	<ul><li>(2) To enter driver's seat positions in blank memory, indicator LED illuminates for 5 seconds after memory switch is pressed.</li></ul>		
	Is the setting of keyfob interlock needed?		
	YES NO		
	END OF SETTING		
Press key fob unlock button within	↓ Indicator LEDs		
5 seconds after pressing memory switch (while memory switch indicator turns on).	If it completes normally, indicator of registered memory switch turns on for 5 seco	onds.	
	END OF SETTING		

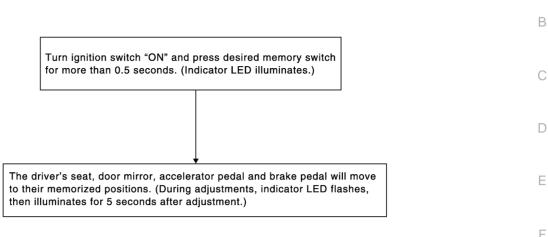
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#### NOTE:

- If another key fob inter lock function setting is performed by same key, newly registered setting is valid.
- If new memory string is performed to memory switch that already set key fob interlock function, key fob interlock function setting is reset.
- If key fob does not set previously, key fob interlock function cannot set.

#### MEMORY OPERATION

Selecting the memorized position.



#### NOTE:

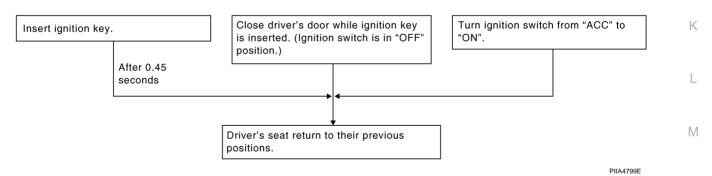
The driver's seat position and pedal adjustment functions (see the following table) operate simultaneously in G the order of priority.

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

\*: In conjunction with sliding the seat, the door mirrors are positioned.

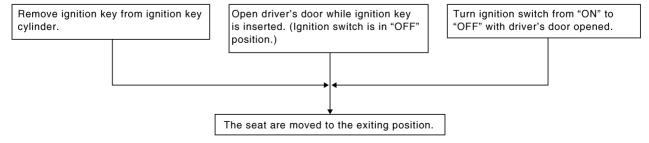
#### ENTRY OPERATION

When the seat are on the exiting positions, the following operation moves the seat to the previous position <sup>J</sup> before the exiting operation.



#### **EXITING OPERATION**

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

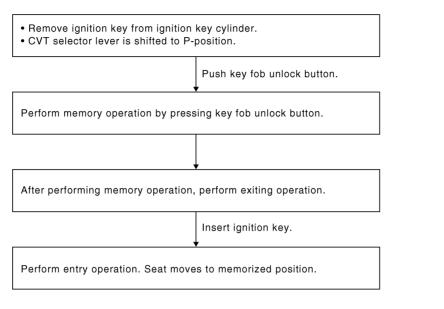


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#### **KEY FOB INTERLOCK OPERATION**

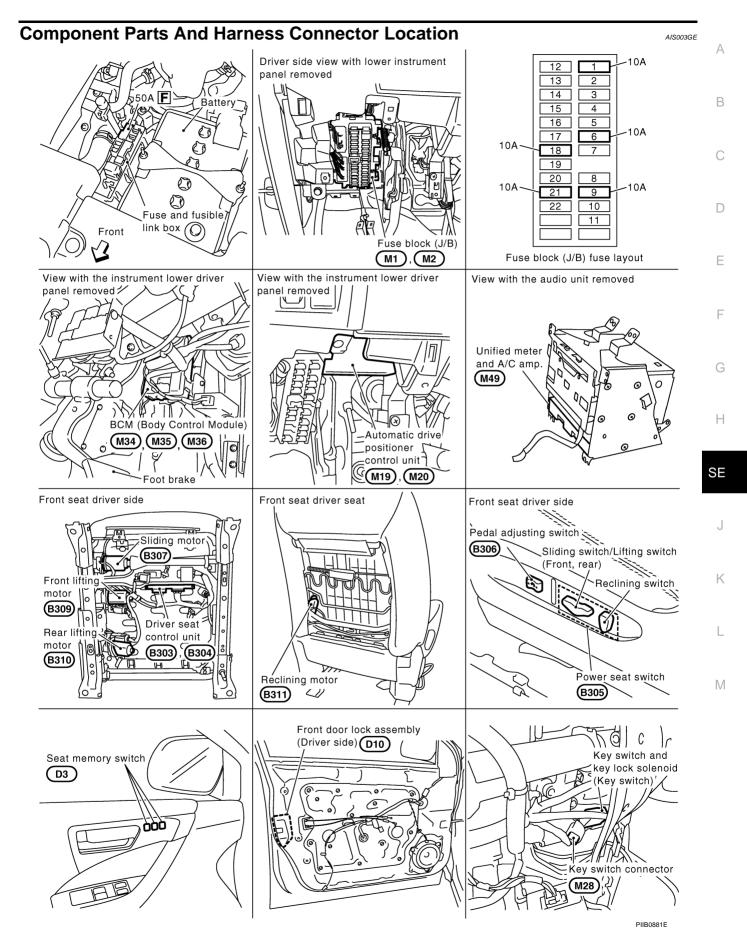
• The system performs memory operation, exiting operation and return operation by pressing key fob unlock button.

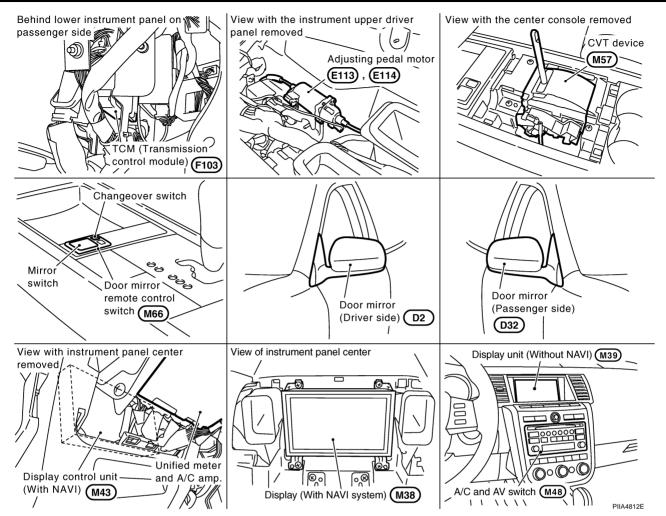


PIIA4797E

#### 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**

AIS003KJ

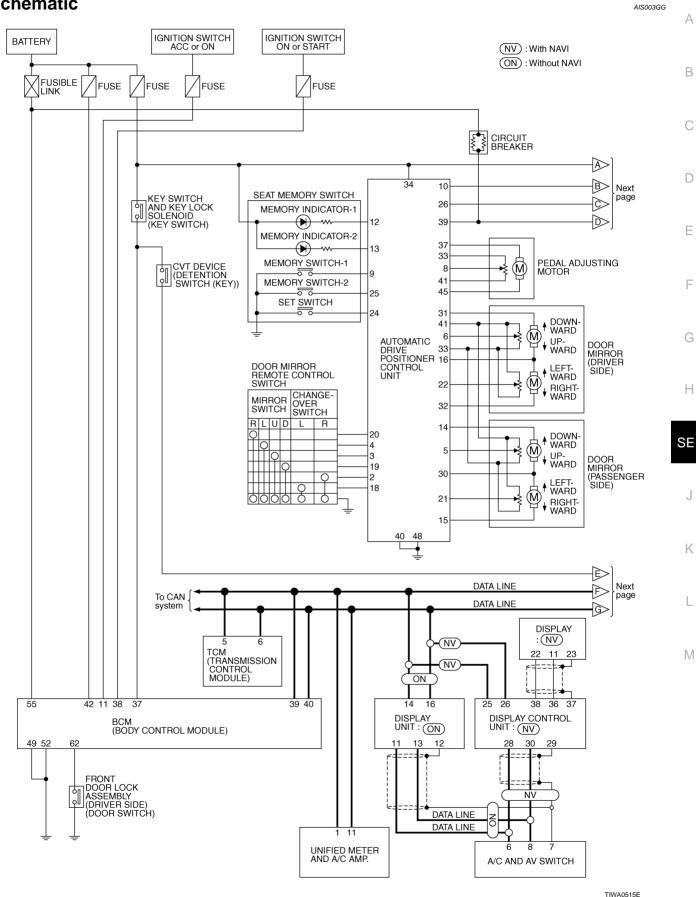
CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

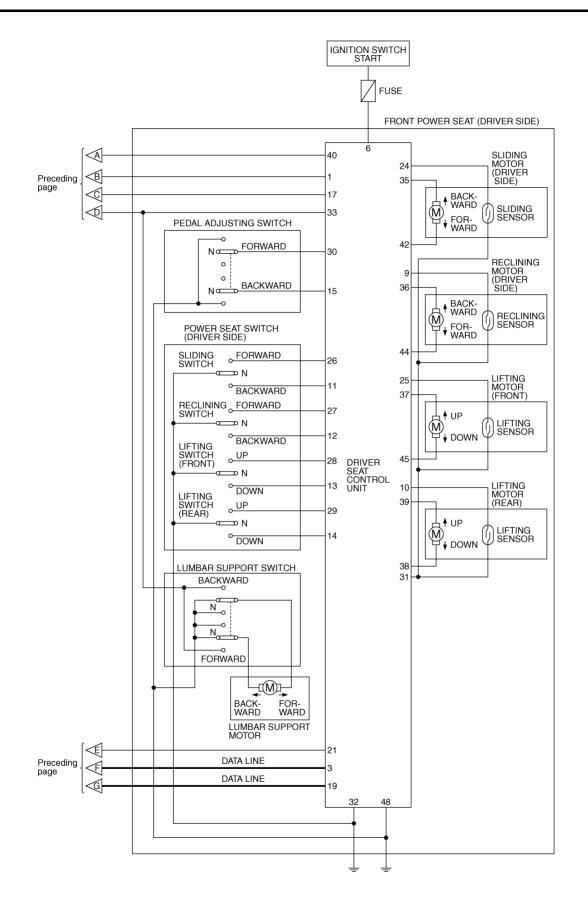
### **CAN Communication Unit**

Refer to LAN-8, "CAN Communication Unit" .

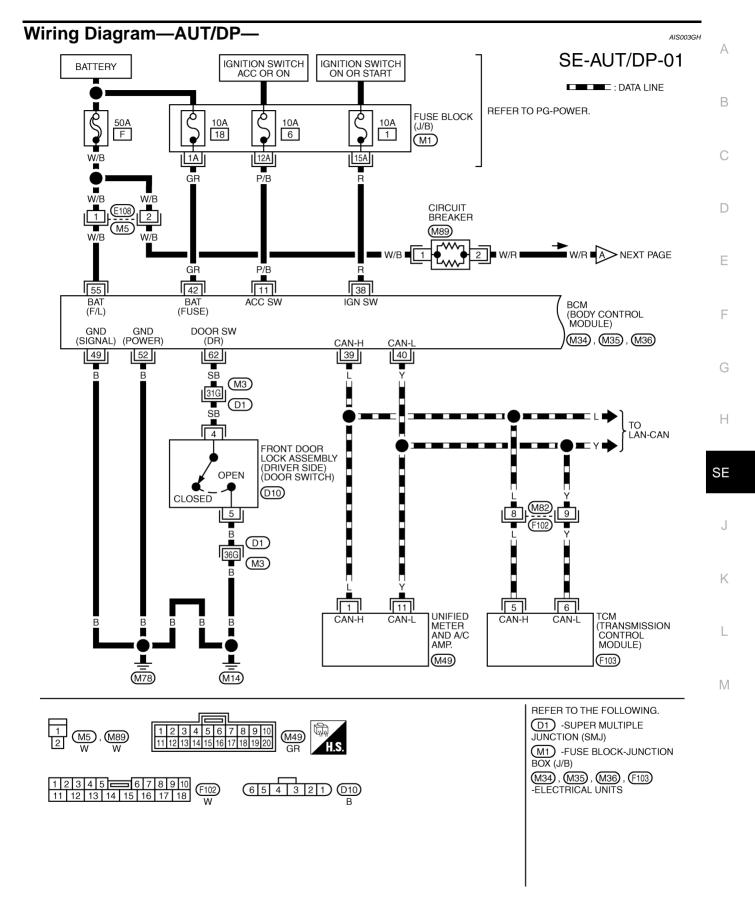
AIS003KK

#### **Schematic**

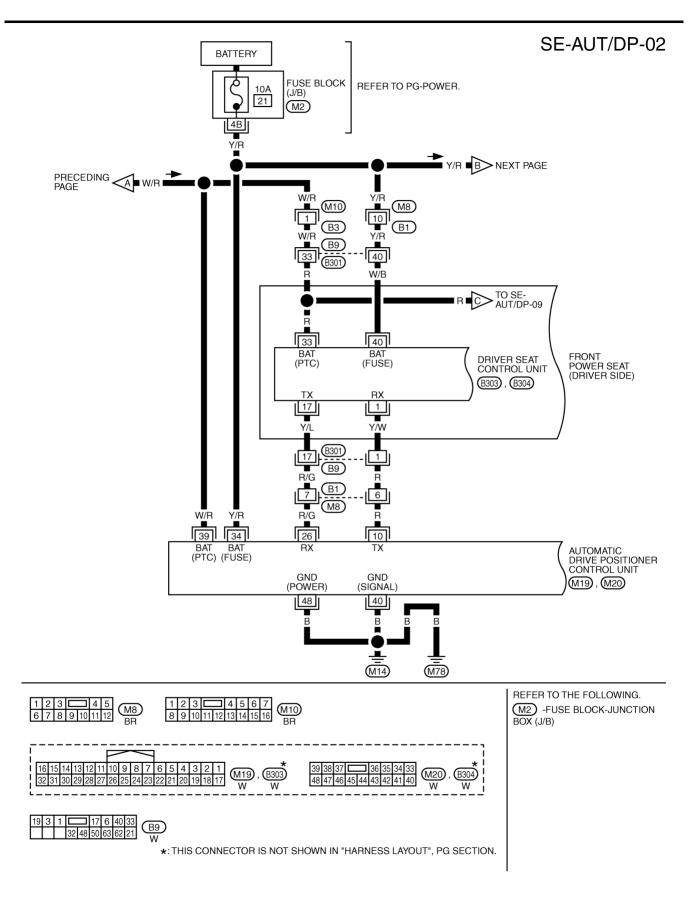




TIWA0516E



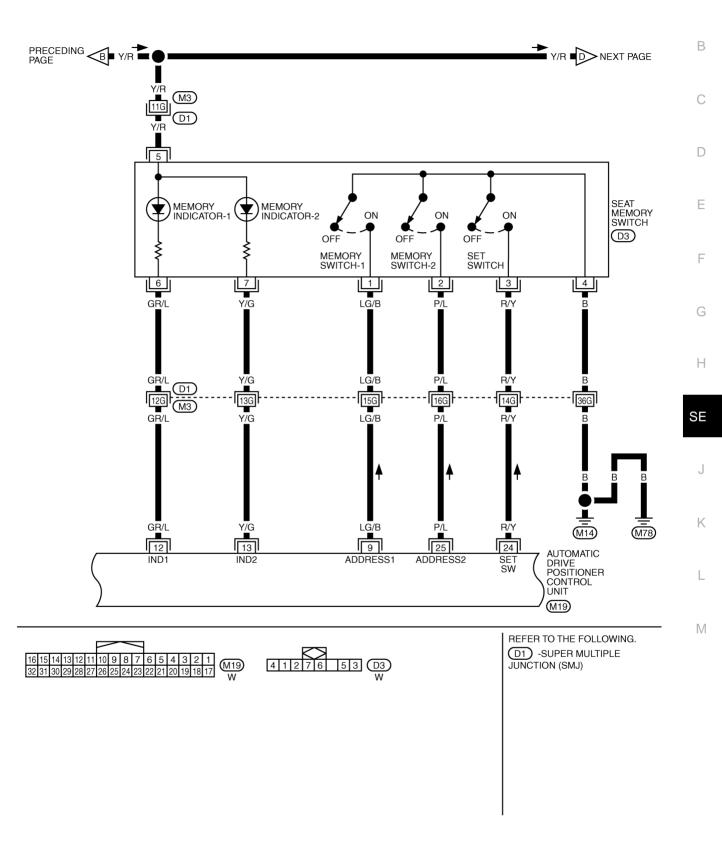
TIWA0517E



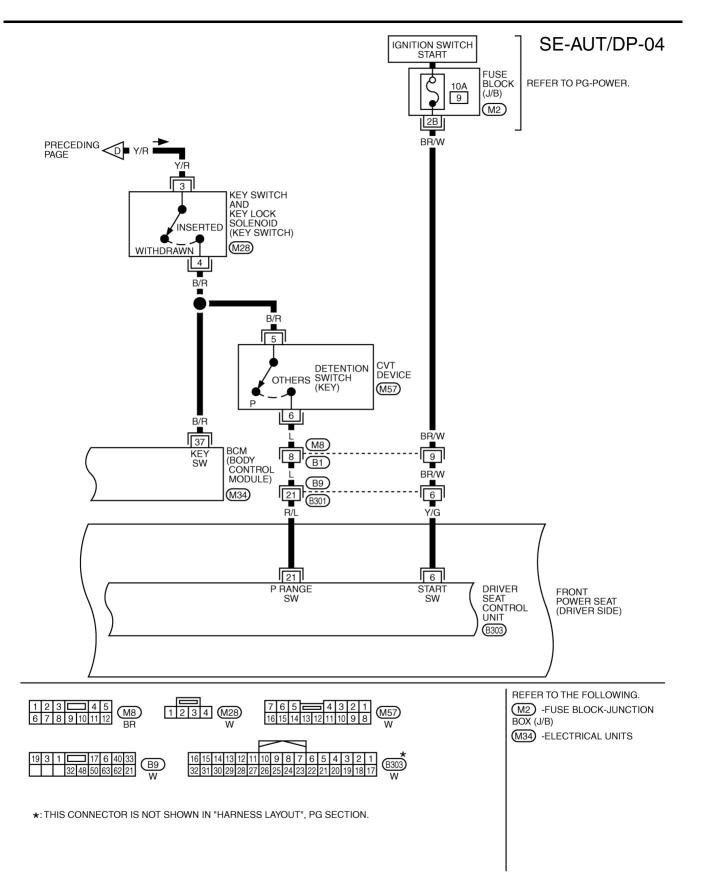
TIWA0518E

SE-AUT/DP-03

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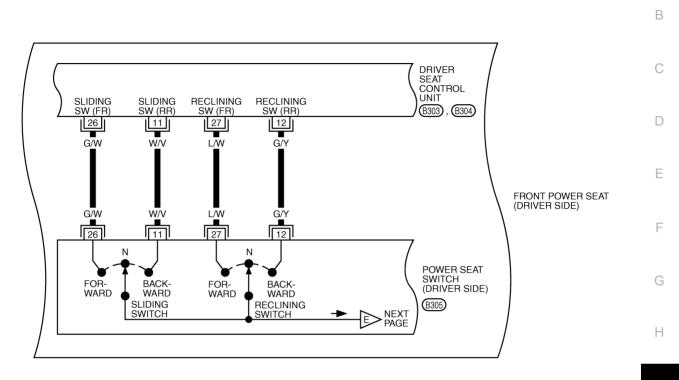


TIWA0519E



TIWA0520E

SE-AUT/DP-05

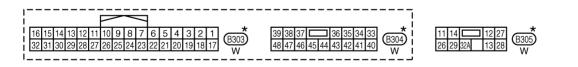




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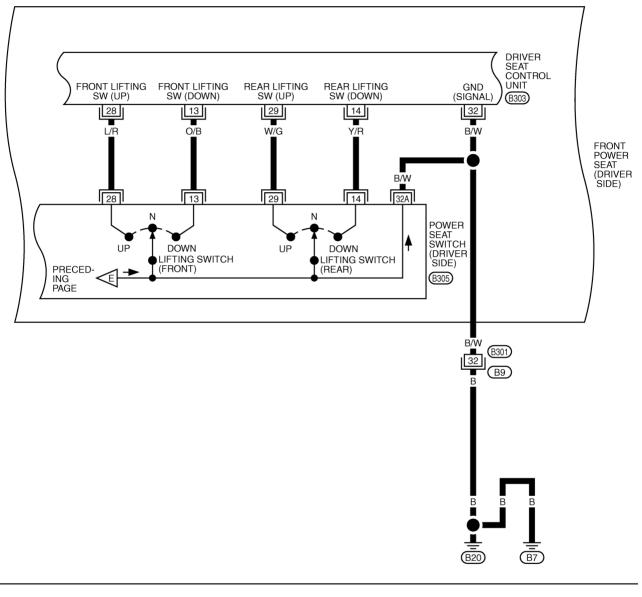
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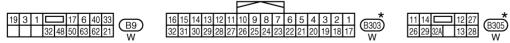


\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWA0521E

### SE-AUT/DP-06

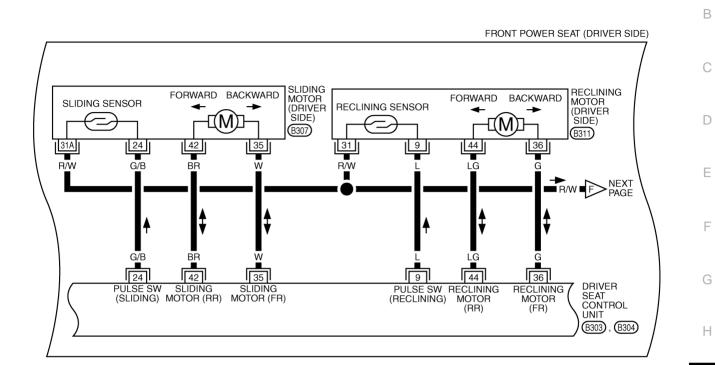




\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWA0522E

### SE-AUT/DP-07

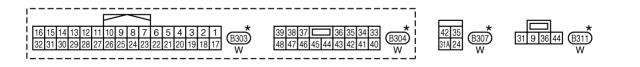


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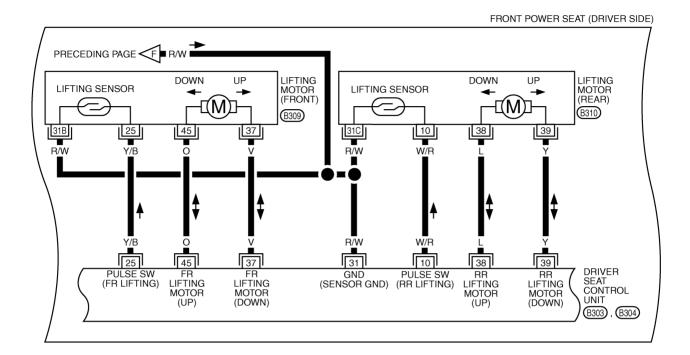
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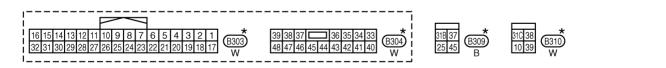


\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWA0523E

### SE-AUT/DP-08





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

TIWA0524E

SE-AUT/DP-09

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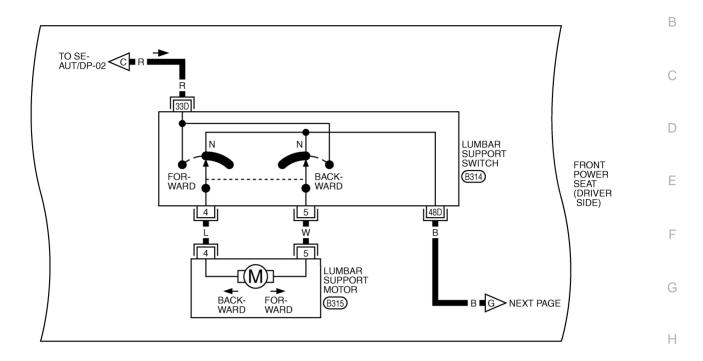
SE

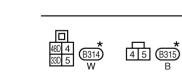
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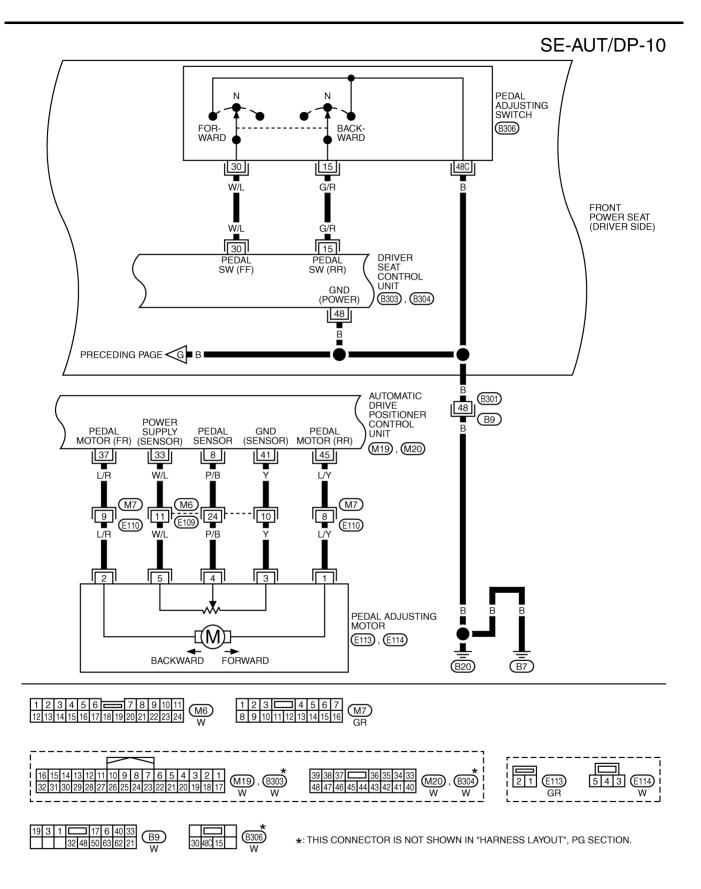
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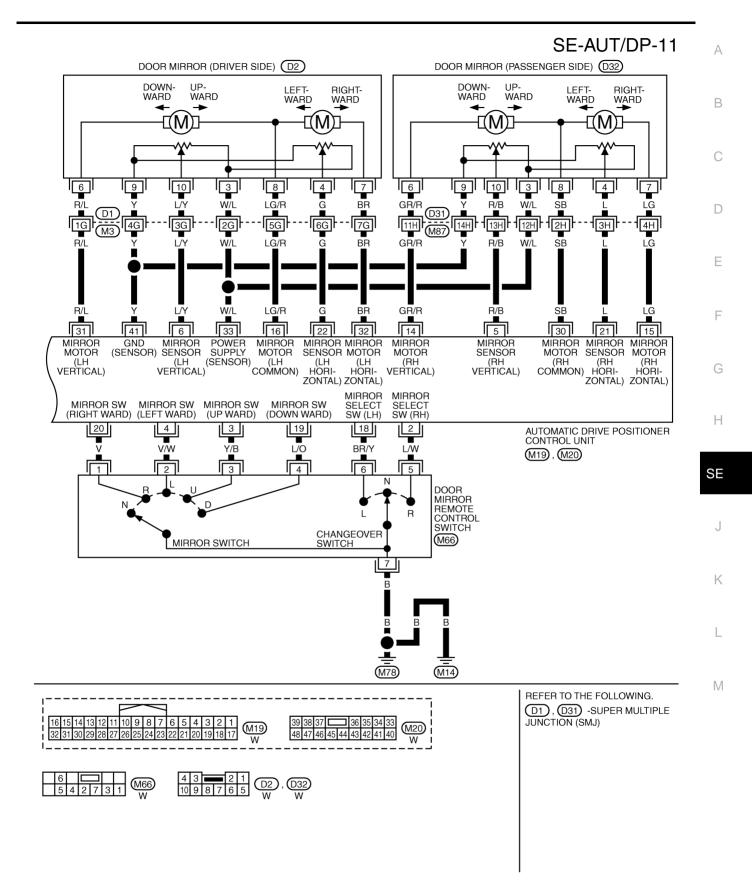


\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

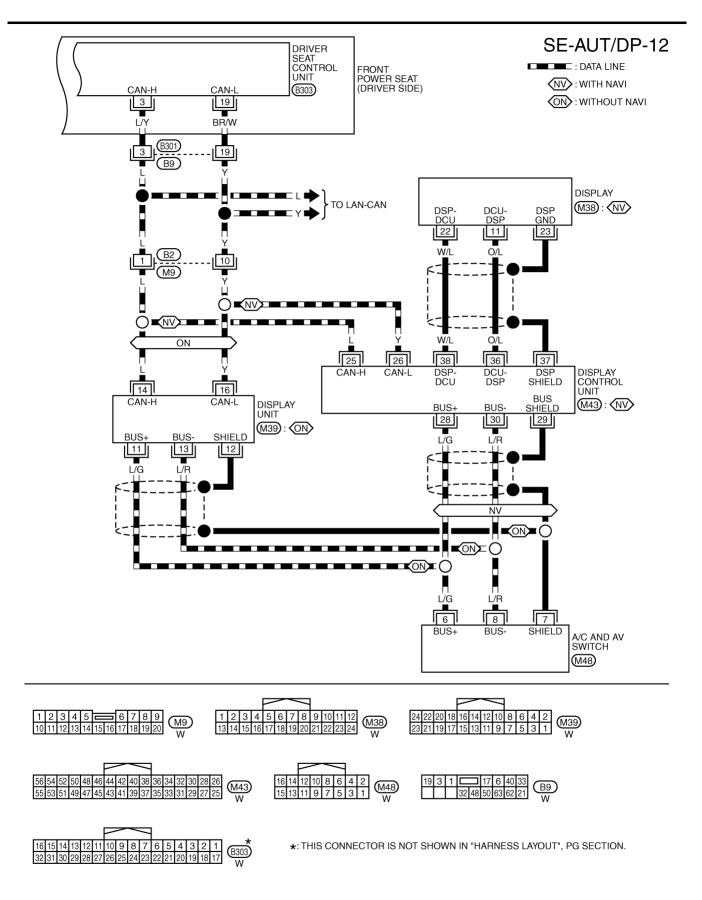
TIWA0525E



TIWA0526E



TIWA0527E



TIWA0528E

### Terminals and Reference Values for BCM

ERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx)
11	P/B	Ignition switch ACC power supply	Ignition switch (ACC or ON position)	Battery voltage
27	P/D	Kay awitch and kay look aslansid	Key switch ON (key is inserted in ignition key cylinder)	Battery voltage
31	37 B/R	Key	Key switch OFF (key is removed from ignition key cylinder)	0
38	R	Ignition switch ON power supply	Ignition switch (ON or START position)	Battery voltage
39	L	CAN-H	—	_
40	Y	CAN-L		_
42	GR	Power source (Fuse)	—	Battery voltage
49	В	Ground (Signal)	—	0
52	В	Ground (Power)	—	0
55	W/B	Power source (Fusible link)	—	Battery voltage
62	SB	Drive side door switch	ON (Open) $\rightarrow$ OFF (Closed)	$0 \rightarrow Battery voltage$

#### **Terminals and Reference Values for Driver Seat Control Unit**

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AIS003GJ

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx)	ŀ
1	Y/W	UART LINE (RX)	Pedal adjusting switch ON (FR or RR operation)	(V) 6 4 2 0 1 ms	SE
3	L/Y	CAN-H	_	_	ŀ
6	Y/G	Ignition switch START power supply	Ignition switch (START position)	Battery voltage	
9	L	Reclining sensor signal	ON (seat reclining motor opera- tion)	(V) 4 2 0 • • • 50ms SIIA0692J	ľ
			Other than above	0 or 5	
10	W/R	Rear lifting sensor signal	ON (rear lifting motor operation)	(V) 4 2 0 •••50ms SIIA0693J	
			Other than above	0 or 5	
11	W/V	Sliding switch backward signal	ON (seat sliding switch backward operation)	0	
			OFF	Battery voltage	

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx)
12	G/Y	Reclining switch backward sig-	ON (seat reclining switch back- ward operation)	0
		nal	OFF	Battery voltage
13	O/B	Front lifting switch DOWN signal	ON (front lifting switch DOWN operation)	0
			OFF	Battery voltage
14	Y/R	Rear lifting switch DOWN signal	ON (rear lifting switch DOWN operation)	0
			OFF	Battery voltage
15	G/R	Pedal adjusting switch backward signal	ON (pedal adjusting switch back- ward operation)	0
		Signal	OFF	Battery voltage
17	Y/L	UART LINE (TX)	Pedal adjusting switch ON (FR or RR operation)	1 (V) 6 4 2 0 2 ms
19	BR/W	CAN-L	_	_
			Selector lever P position With ignition key in ignitoin key cylinder	0
21	R/L	Detention switch signal	Selector lever other than P posi- tion With ignition key in ignition key cylinder	Battery voltage
24	G/B	Seat sliding sensor signal	ON (seat sliding motor operation)	(V) 6 2 0 50 ms PIIA3277E
			Other than above	0 or 5
25	Y/B	Front lifting sensor signal	ON (front lifting motor operation)	(V) 6 2 0 • • • • • • • • • • • • •
			Other than above	0 or 5
26	G/W	Seat sliding switch forward sig-	ON (seat sliding switch forward operation)	0
		nal	OFF	Battery voltage
27	L/W	Seat reclining switch forward	ON (seat reclining switch forward operation)	0
	_,	signal	OFF	Battery voltage

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx)							
28	L/R	Front lifting switch UP signal	ON (front lifting switch UP opera- tion)	0							
			OFF	Battery voltage							
29	29 W/G	W/G		ON (rear lifting switch UP opera- tion)	0						
			OFF	Battery voltage							
30	W/L Pedal adjusting switch forward	ON (pedal adjusting switch for- ward operation)	0								
		signal	OFF	Battery voltage							
31	R/W	Sensor ground	_	0							
32	B/W	Ground (Signal)	_	0							
33	R	Power source (Fucible link)	_	Battery voltage							
35	W	Sliding motor forward output sig- nal	Sliding switch forward operation (Motor operated)	Battery voltage							
			OFF	0							
36	G	G	G	G	G	G	G	Reclining motor forward output	Reclining switch forward operation (Motor operated)	Battery voltage	
		signal	OFF	OFF	0						
37	V	V	V	V			V	Front lifting motor DOWN output	Front lifting switch down operation (Motor operated)	Battery voltage	
						signal	OFF	0			
38	L	Rear lifting motor UP output sig-	Rear end lifting switch up opera- tion (Motor operated)	Battery voltage							
		nal	OFF	0							
39	Y	Rear lifting motor DOWN output	Rear end lifting switch down oper- ation (Motor operated)	Battery voltage							
		signal	OFF	0							
40	W/B	Power source (Fuse)	—	Battery voltage							
42	BR				Battery voltage						
			OFF	0							
44	LG	Reclining motor backward out-	Reclining switch backward opera- tion (Motor operated)	Battery voltage							
		put signal	OFF	0							
45	Ο	Front lifting motor UP output sig-	Front lifting switch upward opera- tion (Motor operated)	Battery voltage							
		nal	OFF	0							
48	В	Ground (Power)	_	0							

#### Terminals and Reference Values for Automatic Driver Positioner Control Unit

AIS003GK

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx)
2 L/W	Changes witch DU signal	When changeover switch in RH position	0	
2	L/VV	Changeover switch RH signal	When changeover switch in neutral position	5

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx)		
			When mirror switch in UP position	0		
3	Y/B	Mirror switch UP signal	When mirror switch in neutral posi- tion	5		
			When mirror switch in LEFT position	0		
4	V/W	Mirror switch LEFT signal	When mirror switch in neutral posi- tion	5		
5	R/B	Mirror sensor (RH vertical) sig- nal	When mirror motor RH is UP or DOWN operation	Changes between 3.4 (close to perk) 0.6 (close to valley)		
6	L/Y	Mirror sensor (LH vertical) sig- nal	When mirror motor LH is UP or DOWN operation	Changes between 3.4 (close to perk) 0.6 (close to valley)		
	D/D		Pedal position front end	0.5		
8	P/B	Pedal sensor input signal	Pedal position rear end	4.5		
		Power seat memory switch 1	Memory switch 1 ON	0		
9	LG/B	signal	Memory switch 1 OFF	5		
10	R	UART LINE (TX)	Pedal adjusting switch ON (FR or RR operation)	(V) 6 4 2 0 1 ms		
10		Power seat memory switch	Memory switch 1 ON	1		
12	GR/L	indictor 1 signal	Memory switch 1 OFF	Battery voltage		
		Power seat memory switch	Memory switch 2 ON	1		
13	Y/G	indictor 2 signal	Memory switch 2 OFF	Battery voltage		
14	GR/R	Mirror motor RH UP signal	When mirror motor RH UP opera- tion	1.5 - Battery voltage		
			Mirror motor RH OFF	0		
15	LG	LG	15 LG	Mirror motor RH LEFT signal	When mirror motor RH LEFT opera- tion	1.5 - Battery voltage
			Mirror motor RH OFF	0		
		Mirror motor LH DOWN signal LG/R Mirror motor LH RIGHT signal	When mirror motor LH DOWN oper- ation	1.5 - Battery voltage		
16	I G/P		Mirror motor LH OFF	0		
10	20/1		When mirror motor LH RIGHT oper- ation	1.5 - Battery voltage		
			Mirror motor LH OFF	0		
18	BR/Y	BR/Y Changeover switch LH signal	When changeover switch in LH position	0		
. •			When changeover switch in neutral position	5		
19	L/O Mirror switch DOWN signal	When mirror switch in DOWN position	0			
		L/O Mirror switch DOWN signal	When mirror switch in neutral posi- tion	5		
20	V	Mirror switch RIGHT signal	When mirror switch in RIGHT position	0		
20	20	, v		When mirror switch in neutral posi- tion	5	

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx)
21	L	Mirror sensor (RH horizontal) signal	When mirror motor RH is LEFT or RIGHT operation	Changes between 3.4 (close to left edge) 0.6 (close to right edge)
22	G	Mirror sensor (LH horizontal) signal	When mirror motor LH is LEFT or RIGHT operation	Changes between 3.4 (close to left edge) 0.6 (close to right edge)
24	DM	Dever eact act owitch signal	Set switch 1 ON	0
24	R/Y	Power seat set switch signal	Set switch 1 OFF	5
25	D/I	Power seat memory switch 2	Memory switch 2 ON	0
25	P/L	signal	Memory switch 2 OFF	5
26	R/G	UART LINE (RX)	Pedal adjusting switch ON (FR or RR operation)	(V) 6 4 2 0 2 ms PIIA4814E
	Mirror motor RH DO	Mirror motor RH DOWN signal	When mirror motor RH DOWN operation	1.5 - Battery voltage
30	SB		Mirror motor RH OFF	0
30	30	Mirror motor RH RIGTH signal	When mirror motor RH RIGHT oper- ation	1.5 - Battery voltage
		-	Mirror motor RH OFF	0
24	D/I		When mirror motor LH UP operation	1.5 - Battery voltage
31	R/L	Mirror motor LH UP signal	Mirror motor LH OFF	0
32	BR	Mirror motor LH LEFT signal	When mirror motor LH LEFT opera- tion	1.5 - Battery voltage
			Mirror motor LH OFF	0
33	W/L	Sensor power supply	—	5
34	Y/R	Power source (Fuse)	—	Battery voltage
37	L/R	Pedal adjust motor forward	Pedal adjust motor forward opera- tion (Motor operated)	Battery voltage
		signal	OFF	0
39	W/R	Power source (Fusible link)	—	Battery voltage
40	В	Ground (Signal)	—	0
41	Y	Sensor ground	—	0
45	L/Y	Pedal adjust motor RR signal	Pedal adjust motor backward oper- ation (Motor operated)	Battery voltage
			OFF	0
48	В	Ground (Power)		0

## **Work Flow**

- 1. Check the symptom and customer's requests.
- 2. Understand the system description. Refer to <u>SE-12, "System Description"</u>.
- 3. Perform the preliminary check, refer to SE-38, "Preliminary Check" .
- 4. Check the self-diagnosis, results using CONSULT-II refer to SE-42, "CONSULT-II Function" .
- 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-46</u>, <u>"Symptom Chart"</u>.
- Does the automatic drive positioned 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 position 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 following 3 modes.	80mm	—	_	_
		150mm		_	_
Sliding Driver Seat When Entry/ Exiting	5		ON: Indicator lamp ON	_	×
Vehicle	(not operated)	OFF	OFF OFF: Indicator lamp OFF >		
Reset custom settings*	All settings to default.	_	Default: Setting button ON	_	_

#### It is possible to set sliding driver 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 oper- ated.	Press the set switch for than 10 seconds	Blinking twice	
The seat sliding turnout and return at entry/exit can be not operated.		Blinking once	

\*: Setting of sliding driver 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.

AIS003GM

#### POWER SUPPLY AND GROUND CIRCUIT CHECK

## 1. CHECK FUSE

Unit	Power source	Fuse No.	
		F (50A)	
BCM	Battery power supply	18(10A)	
	Ignition switch ON or STRAT signal	1 (10A)	
	Ignition switch ACC or ON signal	6 (10A)	

#### NOTE:

NG

Refer to SE-17, "Component Parts And Harness Connector Location" .

## OK or NG

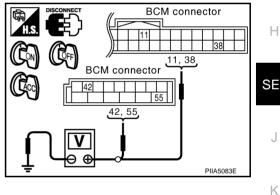
OK >> GO TO 2.

> >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to PG-3, "POWER SUPPLY ROUTING CIRCUIT" .

## 2. CHECK POWER SUPPLY CIRCUIT (BCM)

- 1. Turn igniton switch OFF.
- 2. Disconnect BCM connector.
- 3. Check voltage between BCM connector and ground.

Connector	Terminals (Wire color)		Power source	Condition	Voltage (V) (Approx)
	(+)	(-)	Source		(Applox)
M34	11 (P/B)		ACC power supply	Ignition switch ACC	
10134	38 (R)	Ground	Ignition power supply	Ignition switch ON	Battery voltage
M35	42 (GR), 55 (W/B)	1	Battery power supply	lgnition switch OFF	1



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#### OK or NG

OK >> GO TO 3.

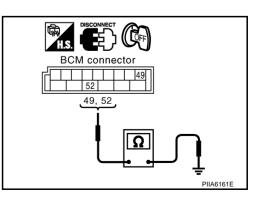
NG >> Repair or replace the harness between BCM and fuse.

## 3. CHECK GROUND CIRCUIT (BCM)

- 1. Turn ignition switch OFF.
- Check continuity between BCM connector M35 terminal 49 (B), 2. 52 (B) and ground.
  - 49 (B) Ground
  - 52 (B) Ground
- : Continuity should exist.

#### : Continuity should exist.

- OK >> BCM circuit is OK. Check the driver seat control unit. GO TO 4.
- NG >> Repair or replace the harness between BCM and ground.



## 4. CHECK FUSE

Make sure any of the following fuse in the driver seat control unit and automatic drive positioner control unit are blown.

Unit	Power source	Fuse No.
Driver seat control unit	Ignition switch START signal	9 (10A)
	Battery power supply	21 (10A)

#### NOTE:

Refer to SE-17, "Component Parts And Harness Connector Location" .

#### OK or NG

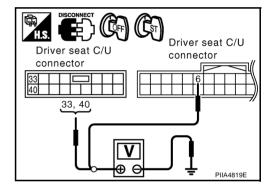
OK >> GO TO 5.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to <u>PG-</u> <u>3, "POWER SUPPLY ROUTING CIRCUIT"</u>.

## 5. CHECK POWER SUPPLY CIRCUIT (DRIVER SEAT CONTROL UNIT)

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

Connector		ninals color)	Power source	condition		
	(+)	(-)	source		(Approx)	
B303	33 (R), 40 (W/B)	Ground	Battery power supply	lgnition switch OFF	Battery	
	6 (Y/G)	Ground	START power supply	Ignition switch START	voltage	



#### OK or NG

OK >> GO TO 6.

NG >> Repair or replace harness between driver seat control unit and fuse block (J/B).

## 6. CHECK GROUND CIRCUIT (DRIVER SEAT CONTROL UNIT)

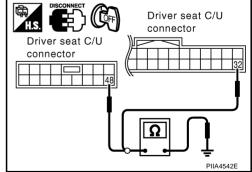
- 1. Turn ignition switch OFF.
- 2. Check continuity between the driver seat control unit connector B303 terminal 32 (B/W), 48 (B) and ground.
  - 32 (B/W) Ground

: Continuity should exist.

48 (B) – Ground

: Continuity should exist.

- OK >> Driver seat control unit circuit check is OK, GO TO 7.
- NG >> Repair or replace harness between driver seat control unit and ground.

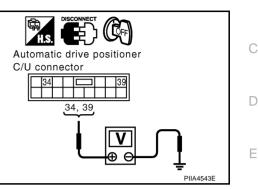


## 7. CHECK POWER SUPPLY CIRCUIT (AUTOMATIC DRIVE POSITIONER CONTROL UNIT)

- 1. Disconnect automatic drive positioner control unit connector.
- 2. Check voltage between automatic drive positioner control unit connector M20 terminal 34 (Y/R), 39 (W/R) and ground.
  - 34 (Y/R) Ground 39 (W/R) – Ground
- : Battery voltage
- : Battery voltage

#### OK or NG

- OK >> GO TO 8.
- NG >> Repair or replace harness between driver seat control unit and fuse block (J/B).



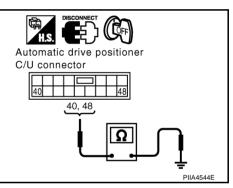
## 8. CHECK GROUND CIRCUIT (AUTOMATIC DRIVE POSITIONER CONTROL UNIT)

Check continuity between the automatic drive positioner control unit connector M20 terminal 40 (B), 48 (B) and ground.

- 40 (B) 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 between automatic drive positioner control unit and ground.



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## **CONSULT-II** Function

AIS003GN

The following functions are executed by combining data received and command transmitted via the communication line from the driver seat control unit.

Inspection item	, self-diagnosis mode	Content		
WORK SUPPORT*1		Changes the setting for each function.		
SELF-DIG RESULT	S	Check the self-diagnosis results.		
DATA MONITOR	Selection from menu	Displays the input data to driver seat control unit driver seat control unit and automatic driving positioned control unit on real-time basis.		
CAN DIAGNOSTIC SUPPORT MONITOR		The results of transmit / receive doagnosis of CAN communication can be read		
ACTIVE TEST		Gives a drive signal to a load to check the operation.		
DRIVER SEAT CONTROL UNIT PART NUM- BER		Displays driver seat control unit part No.		
DATA MONITOR	Selection from menu	Displays the input data to BCM on real-time basis		
	WORK SUPPORT*1 SELF-DIG RESULT DATA MONITOR CAN DIAGNOSTIC S ACTIVE TEST DRIVER SEAT CON BER	SELF-DIG RESULTS         DATA MONITOR       Selection from menu         CAN DIAGNOSTIC SUPPORT MONITOR         ACTIVE TEST         DRIVER SEAT CONTROL UNIT PART NUMBER		

\*1: For setting seat functions only.

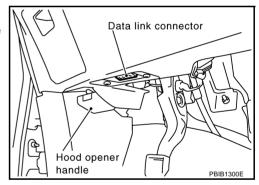
\*2: Refer to <u>BL-63</u>.

#### **CONSULT-II INSPECTION PROCEDURE**

#### **CAUTION:**

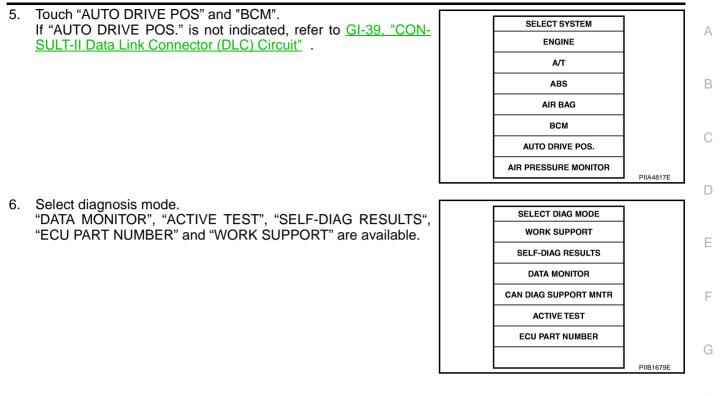
If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

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



- 3. Turn ignition switch "ON".
- 4. Touch "START (NISSAN BASED VHCL)".

NISSAN	
CONSULT -II	
ENGINE	
START (NISSAN BASED VH	CL)
START (RENAULT BASED VH	ICL)
SUB MODE	
	MBIB0233E



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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.	<u>SE-46</u>
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-48</u> <u>SE-59</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-49</u> <u>SE-60</u>
SEAT LIFTER FR [B2114]	Seat lifting FR motor any motor operations of seat lifting FR is detected for 0.1 second or		<u>SE-50</u> <u>SE-61</u>
SEAT LIFTER RR [B2115]	R Seat lifting RR motor When any manual and automatic operations are not performed, i any motor operations of seat lifting RR is detected for 0.1 second more, status is judged "Output error".		<u>SE-52</u> <u>SE-62</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-53</u> <u>SE-63</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-63</u>
DETENT SW [B2126]	Detente SW	With the CVT selector lever in P position (Detente switch OFF), if the vehicle speed of 7 km/h (4 MPH) or higher was input the detente switch input system is judged malfunctioning.	<u>SE-84</u>
UART COMM [B2128]	UART communica- tion	Malfunction is detected in UART communication.	<u>SE-88</u>

#### NOTE:

- If detection 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 detection 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".

#### CAN DIAGNOSIS SUPPORT 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]	

## DATA MONITOR SELECTIOM FROM MEMU

Monitor item [OPERAT	ION 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 remote control switch (UP) signal is displayed.		
MIR CON SW-DN	"ON/OFF"	ON/OFF status judged from the door mirror remote control switch (DOWN) signal is displayed.		
MIR CON SW-RH	"ON/OFF"	ON/OFF status judged from the door mirror remote control switch (RIGHT) signal is displayed.		
MIR CON SW-LH	"ON/OFF"	ON/OFF status judged from the door mirror remote control switch (LEFT) signal s displayed.		
MIR CHNG SW-R	"ON/OFF"	ON/OFF status judged from the door mirror remote control switch (switching to RIGHT) signal is displayed.		
MIR CHNG SW-L	"ON/OFF"	ON/OFF status judged from the door mirror remote control 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 detention 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.

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#### 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 front end lifter motor is activated by receiving the drive signal.
SEAT LIFTER RR	The rear end lifter motor 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)

AIS003KM

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.

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

#### Displayed U1000?

Yes >> Inspection End

No >> Refer to <u>LAN-6</u>, "Precautions When Using CONSULT-II".

## Symptom Chart

AIS003GP

Symptom	Diagnoses / service procedure		Refer to page
	1. Preliminary check		<u>SE-38</u>
	2. CAN communication inspe diagnosis)	ection using CONSULT-II (self-	<u>SE-46</u>
Only setting change function cannot be set with display.	3. If the above system are	Interacted display system (with out NAVI)	<u>AV-73</u>
	normal, check display sys- tem	Navigation system (with NAVI)	<u>AV-103</u>
	1.Sliding motor circuit check		<u>SE-48</u>
	2. Reclining motor circuit check		<u>SE-49</u>
A part of seat system does not operate (both automati-	3. Front lifting motor circuit check		<u>SE-50</u>
cally and manually).	4. Rear lifting motor circuit check		<u>SE-52</u>
	5. If the above systems are normal, replace the driver seat control unit		<u>SE-17</u>
	1. Pedal adjusting motor circuit check		<u>SE-53</u>
A part of padal adjust and door mirror doop not approte	2. Mirror motor LH circuit check		<u>SE-55</u>
A part of pedal adjust and door mirror does not operate (both automatically and manually).	3. Mirror motor RH circuit check		<u>SE-56</u>
	4. If the above systems are normal, replace the automatic drive positioner control unit.		<u>SE-17</u>

Symptom	Diagnoses / service procedure	Refer to page	
	1. Sliding sensor circuit check	<u>SE-59</u>	-
	2. Reclining sensor circuit check	<u>SE-60</u>	_
A part of seat system does not operate (only automatic	3. Front lifting sensor circuit check	<u>SE-61</u>	-
operation).	4. Rear lifting sensor circuit check	<u>SE-62</u>	-
	5. If the above systems are normal, replace the driver seat control unit	<u>SE-17</u>	-
	1. Mirror sensor LH circuit check	<u>SE-64</u>	-
A part of door mirror system does not operate (only	2. Mirror sensor RH circuit check	<u>SE-66</u>	-
automatic operation).	3. If the above systems are normal, replace the automatic drive positioner control unit.	<u>SE-17</u>	-
	1. Key switch and key lock solenoid circuit check	<u>SE-86</u>	-
	2. Detention switch circuit check	<u>SE-84</u>	-
All the outemptic operations do not operate	3. UART communication line circuit check	<u>SE-88</u>	-
All the automatic operations do not operate.	4. Pedal adjusting sensor circuit check	<u>SE-63</u>	-
	5. If all the above systems are normal, replace the auto- matic drive positioner control unit.	<u>SE-17</u>	
	1. Sliding switch circuit check	<u>SE-68</u>	_
	2. Reclining switch circuit check	<u>SE-69</u>	-
A part of seat system does not operate (only manual	3. Front lifting switch circuit check	<u>SE-71</u>	-
operation).	4. Rear lifting switch circuit check	<u>SE-72</u>	-
	5. If the above systems are normal, replace the driver seat control unit	<u>SE-17</u>	-
	1. Pedal adjusting switch circuit check	<u>SE-74</u>	- 1
	2. Door mirror remote control switch (change over switch) circuit check	<u>SE-76</u>	-
A part of pedal adjust and door mirror does not operate (only manual operation).	3. Door mirror remote control switch (mirror switch) switch- ing circuit check	<u>SE-77</u>	-
	4. If the above systems are normal, replace the automatic drive positioner control unit	<u>SE-17</u>	-
	1. Seat memory switch circuit check	<u>SE-80</u>	-
Only memory switch operation.	2. If the above systems are normal, replace the driver seat control unit	<u>SE-17</u>	-
	1. Seat memory indicator lamp circuit check	<u>SE-82</u>	-
Seat memory indicator lamps 1 and 2 do not illuminate.	2. If all the above systems are normal, replace the driver seat control unit.	<u>SE-17</u>	-
The Entry/Exiting does not operated when door is	1. Front door switch circuit check	<u>BL-37</u>	-
opened and closed. (The Entry/Exiting operates with key switch)	2. If all the above systems are normal, replace the BCM.	<u>SE-17</u>	_
Only door mirror system does not operate (only manual operation).	Door mirror remote control switch ground circuit check	<u>SE-79</u>	
Only door mirror system does not operated (only auto- matic operation).	Door mirror sensor power supply and ground circuit check	<u>SE-83</u>	-
Only seat system does not operate (only manual opera-	Power seat switch ground circuit check	<u>SE-73</u>	-
tion).			

## Sliding Motor Circuit Check

1. CHECK SEAT SLIDING MECHANISM

Check the following.

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

#### OK or NG

OK >> GO TO 2.

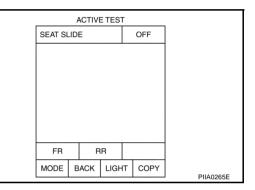
NG >> Repair the malfunctioning part and check again.

## 2. CHECK FUNCTION

#### 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.



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## Nithout CONSULT-II

ĞO TO 3.

OK or NG

OK >> Sliding motor circuit is OK.

NG >> GO TO 3.

## 3. CHECK SLIDING MOTOR CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector and sliding motor connector.
- Check continuity between driver seat control unit connector B304 terminals 35 (W), 42 (BR) and sliding motor connector B307 terminals 35 (W), 42 (BR).

```
35 (W) – 35 (W)
42 (BR) – 42 (BR)
```

: Continuity should exist. : Continuity should exist.

Check continuity between driver seat control unit connector B304 terminals 35 (W), 42 (BR) and ground.

35 (W) – Ground 42 (BR) – Ground

: Continuity should not exist. : Continuity should not exist.



4.

OK >> GO TO 4.

NG >> Repair or replace harness between driver seat control unit and sliding motor.

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Sliding motor

35, 42

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connector

Driver seat C/U

35, 42

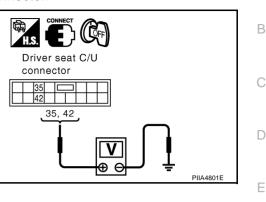
connector

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## 4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx)
	(+)	(–)		(Applox)
B304	35 (W)		Sliding switch ON (FR operation)	Battery voltage
		Ground	Sliding switch OFF	0
	42 (BR)	Giounu	Sliding switch ON (RR operation)	Battery voltage
			Sliding switch OFF	0



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#### OK or NG

OK >> Replace sliding motor.

NG >> Replace driver seat control unit.

## Reclining Motor Circuit Check 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

#### With CONSULT-II

Check operation with "SEAT RECLINING" in ACTIVE TEST.

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

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	ACTIV	E TES	Г			
SEAT RI	ECLINING	à		OFF		
						L
						M
FR	F	R				
MODE	BACK	LIGH	IT	COPY	PIIA0268E	
					F IIAU200E	

#### **Without CONSULT-II** GO TO 3.

- OK >> Reclining motor circuit is OK.
- NG >> GO TO 3.

# 3. CHECK RECLINING MOTOR CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector and reclining motor connector.
- 3. Check continuity between driver seat control unit connector B304 terminals 36 (G), 44 (LG) and reclining motor connector B311 terminals 36 (G), 44 (LG).

36 (G) – 36 (G) 44 (LG) – 44 (LG) : Continuity should exist. : Continuity should exist.

4. Check continuity between driver seat control unit connector B304 terminals 36 (G), 44 (LG) and ground.

36 (G) – Ground

44 (LG) – Ground

: Continuity should not exist. : Continuity should not exist.

#### OK or NG

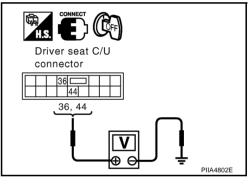
OK >> GO TO 4.

NG >> Repair or replace harness between driver seat control unit and reclining motor.

## 4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx)		
	(+)	(-)		(Applox)		
B304	36 (G)		Reclining switch ON (FR operation)	Battery voltage		
		Ground	Reclining switch OFF	0		
	44 (LG)	Giouna	Reclining switch ON (RR operation)	Battery voltage		
			Reclining switch OFF	0		



#### OK or NG

OK >> Replace reclining motor.

NG >> Replace driver seat control unit.

# Front Lifting Motor Circuit Check

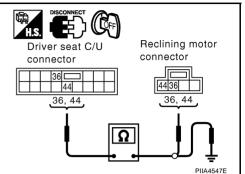
#### 1. CHECK FRONT END SEAT LIFTING MECHANISM

#### Check the following.

- Operation malfunction caused by lifter mechanism deformation or pinched harness or other foreign materials
- Operation malfunction caused by foreign materials adhered to the lifter motor 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.



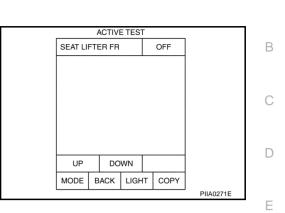
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# 2. CHECK FUNCTION

#### (P) With CONSULT-II

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

Test item	Description
SEAT LIFTER FR	The front end lifter motor is activated by receiving the drive signal.



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#### **Without CONSULT-II**

ĞO TO 3.

#### OK or NG

OK >> Front lifting motor circuit is OK. NG >> GO TO 3.

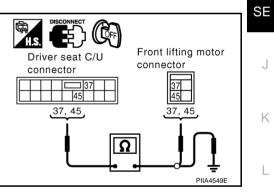
## 3. CHECK FRONT LIFTING MOTOR CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector and front lifting motor connector.
- 3. Check continuity between driver seat control unit connector B304 terminals 37 (V), 45 (O) and front lifting motor connector B309 terminals 37 (V), 45 (O).

37 (V) – 37 (V) 45 (O) – 45 (O) : Continuity should exist. : Continuity should exist.

- 4. Check continuity between driver seat control unit connector B304 terminals 37 (V), 45 (O) and ground.
  - 37 (V) Ground
  - 45 (O) Ground
- : Continuity should not exist.
- : Continuity should not exist.

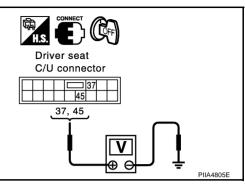
- OK >> GO TO 4. NG >> Repair or
  - >> Repair or replace harness between driver seat control unit and front lifting motor.



## 4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx)	
	(+)	(-)		(Approx)	
B304	37 (V) 45 (O)	Ground	Front lifting switch ON (DOWN operation)	Battery voltage	
			Front lifting switch OFF	0	
			Front lifting switch ON (UP operation)	Battery voltage	
			Front lifting switch OFF	0	



#### OK or NG

OK >> Replace front lifting motor.

NG >> Replace driver seat control unit.

## Rear Lifting Motor Circuit Check 1. CHECK REAR END SEAT LIFTING MECHANISM

Check the following.

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

OK or NG

OK >> GO TO 2.

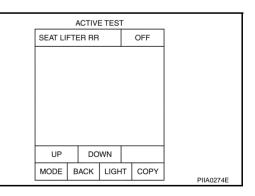
NG >> Repair the malfunctioning part and check again.

## 2. CHECK FUNCTION $\mathbf{2}$

#### B With CONSULT-II

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

Test item	Description
SEAT LIFTER RR	The rear end lifter motor is activated by receiving the drive signal.



#### **Without CONSULT-II**

ĞO TO 3.

OK or NG

OK >> Rear lifting motor circuit is OK.

NG >> GO TO 3.

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# $\overline{\mathbf{3.}}$ check rear lifting motor circuit harness continuity

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector and rear lifting motor connector.
- Check continuity between driver seat control unit connector B304 terminals 38 (L), 39 (Y) and rear lifting motor connector B310 terminals 38 (L), 39 (Y).
  - 38 (L) 38 (L) 39 (Y) - 39 (Y)
- : Continuity should exist. : Continuity should exist.
- 4. Check continuity between driver seat control unit B304 terminals 38 (L), 39 (Y) and ground.
  - 38 (L) Ground
  - 39 (Y) Ground
- : Continuity should not exist.
- ound : Continuity should not exist.

#### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness between driver seat control unit and rear lifting motor.

#### 4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

Connector	Terminals (Wire color)		Condition	Voltage (V)		
	(+)	(-)		(Approx)		
B304	38 (L)	Ground	Rear lifting switch ON (UP operation)	Battery voltage		
			Rear lifting switch OFF	0		
	39 (Y)		Rear lifting switch ON (DOWN operation)	Battery voltage		
			Rear lifting switch OFF	0		



OK >> Replace rear lifting motor.

NG >> Replace driver seat control unit.

## Pedal Adjusting Motor Circuit Check 1. CHECK PEDAL ADJUSTING MECHANISM

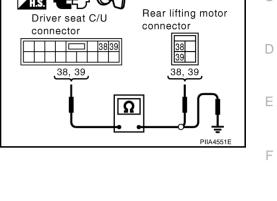
#### Check the following.

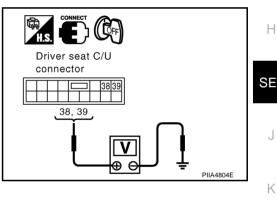
- Operation malfunction caused by pedal adjusting mechanism deformation or pinched harness or other foreign materials
- Operation malfunction and interference with other parts by poor installation

#### OK or NG

OK >> GO TO 2.

NG >> Repair the malfunctioning part and check again.





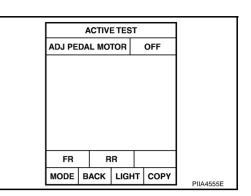


## 2. CHECK FUNCTION

#### With CONSULT-II

Check operation with "PEDAL" in ACTIVE TEST.

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



#### **Without CONSULT-II**

ĞO TO 3.

#### OK or NG

OK >> Pedal adjusting motor circuit is OK.

NG >> GO TO 3.

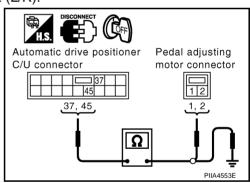
## 3. CHECK PEDAL ADJUSTING MOTOR CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and pedal adjusting motor connector.
- Check continuity between automatic drive positioner control unit connector M20 terminals 37 (L/R), 45 (L/Y) and pedal adjusting motor connector E113 terminals 1 (L/Y), 2 (L/R).

37 (L/R) – 2 (L/R) 45 (L/Y) – 1 (L/Y) : Continuity should exist. : Continuity should exist.

- 4. Check continuity between automatic drive positioner control unit connector M20 terminals 37 (L/R), 45 (L/Y) and ground.
  - 37 (L/R) Ground
  - 45 (L/Y) Ground
- : Continuity should not exist.
- : Continuity should not exist.

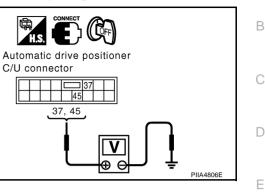
- OK >> GO TO 4. NG >> Repair or
  - >> Repair or replace harness between automatic drive positioner control unit and pedal adjust motor.



## 4. CHECK AUTOMATIC DRIVE POSITINER CONTROL UNIT OUTPUT SIGNAL

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

Connector	Termi (Wire		Condition	Voltage (V) (Approx)	
	(+)	(-)		(/ ())	
	37 (L/R)		Pedal adjusting switch ON (FR operation)	Battery voltage	
M20		Ground	Pedal adjusting switch OFF	0	
	45 (L/Y)	Ground	Pedal adjusting switch ON (RR operation)	Battery voltage	
			Pedal adjusting switch OFF	0	



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#### OK or NG

OK >> Replace pedal adjusting motor.

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.

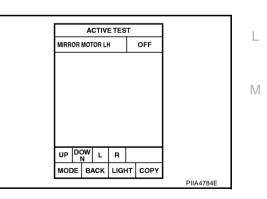
NG >> Repair the malfunctioning parts, and check the symptom again.

## 2. CHECK FUNCTION

#### With CONSULT-II

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

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



#### **Without CONSULT-II**

ĞO TO 3.

OK or NG

OK >> Mirror motor LH circuit is OK.

NG >> GO TO 3.

# 3. CHECK MIRROR MOTOR LH CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror (driver side) connector.
- 3. Check continuity between automatic drive positioner control unit connector M19 terminal 16 (LG/R), 31 (R/L), 32 (BR) and door mirror (driver side) connector D2 terminal 6 (R/L), 7 (BR), 8 (LG/R).

16 (LG/R) – 8 (LG/R)
31 (R/L) – 6 (R/L)
32 (BR) – 7 (BR)

:Continuity should exist. :Continuity should exist.

:Continuity should exist.

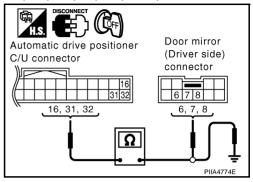
:Continuity should not exist.

:Continuity should not exist.

:Continuity should not exist.

 Check continuity between automatic drive positioner control unit connector M19 terminal 16 (LG/R), 31 (R/L), 32 (BR) and ground.

> 16 (LG/R) – Ground 31 (R/L) – Ground 32 (BR) – Ground



#### OK or NG

- OK >> GO TO 4.
- NG >> Repair or replace harness between automatic drive positioner control unit and door mirror (driver side).

## 4. CHECK MIRROR MOTOR SIGNAL

- 1. Connect automatic drive positioner control unit connector.
- 2. Turn ignition switch ACC.
- 3. Check voltage between door mirror (driver side) connector and ground.

Connector	ctor Terminals (Wire color) (+) (-)		(Wire color)         Condition         Voltage (V)           (Approx)		
					Door mirror (Driver side) connector
	6 (P/L)		When motor is UP operation	1.5 - Battery voltage	
	(R/L)		Mirror motor LH OFF	0	<u>6, 7, 8</u>
D2	7 (BR)	7 (BR) Ground	When motor is LEFT operation	1.5 - Battery voltage	
	(BI()		Mirror motor LH OFF	0	Plia4775E
	8 (LG/R)		When motor is DOWN or RIGHT operation	1.5 - Battery voltage	
			Mirror motor LH OFF	0	

#### OK or NG

OK >> Replace door mirror motor (driver side).

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

## **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.

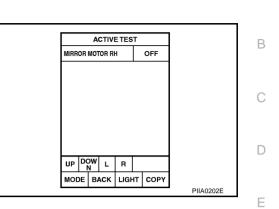
AIS003HD

## 2. CHECK FUNCTION

#### () With CONSULT-II

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

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



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#### **Without CONSULT-II**

ĞO TO 3.

#### OK or NG

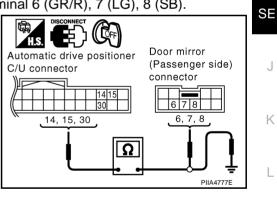
OK >> Mirror motor RH circuit is OK. NG >> GO TO 3.

## 3. CHECK DOOR MIRROR RH CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror (passenger side) connector.
- Check continuity between automatic drive positioner control unit connector M19 terminal 14 (GR/R), 15 (LG), 30 (SB) and door mirror (passenger side) connector D2 terminal 6 (GR/R), 7 (LG), 8 (SB).

14 (GR/R) – 6 (GR/R)	:Coi
15 (LG) – 7 (LG)	:Coi
30 (SB) – 8 (SB)	:Coi

- :Continuity should exist. :Continuity should exist. :Continuity should exist.
- 4. Check continuity between automatic drive positioner control unit connector M19 terminal 14 (GR/R), 15 (LG), 30 (SB) and ground.
  - 14 (GR/R) Ground:Continuity should not exist.15 (LG) Ground:Continuity should not exist.30 (SB) Ground:Continuity should not exist.

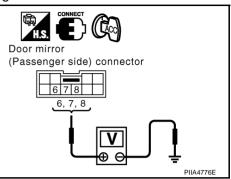


- OK >> GO TO 4.
- NG >> Repair or replace harness between automatic drive positioner control unit and door mirror (passenger side).

# 4. CHECK MIRROR MOTOR SIGNAL

- 1. Connect automatic drive positioner control unit connector.
- 2. Turn ignition switch ACC.
- 3. Check voltage between door mirror (passenger side) connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx)	
	(+)	(-)		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	6 (GR/R)		When motor is UP operation	1.5 - Battery voltage	
D32 7 (LG)		Ground	Mirror motor RH OFF	0	
	7 (LG)		When motor is LEFT operation	1.5 - Battery voltage	
				Mirror motor RH OFF	0
	8 (SB)		When motor is DOWN or RIGHT operation	1.5 - Battery voltage	
			Mirror motor RH OFF	0	



#### OK or NG

OK >> Replace door mirror motor (passenger side).

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

## **Sliding Sensor Circuit Check**

#### 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 dis- played

C II	ic pui	30		ung		5.			
		D/	ата м	ONITO	R		1		
	SEL	EC	т мо	NITOF	2	ГЕМ	1		
		s	LIDE	PULS	Ξ				С
		R	ECLN	PULS	Е				
		LI	FT FR	PULS	E				
	LIFT RR PULSE								D
	MIR/SEN RH U-D								
	Page Up Page Down					1			
	SETTIN	G	Num Dis	erical play			1		F
	MODE	в	АСК	LIGH	т	СОРУ	1		
							-	PIIA4558E	

#### **Without CONSULT-II**

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

Connector	Terminals (Wire color)		Condition Signal (Reference value)		Driver seat C/U connector	н
	(+)	(-)		(Reference value)		
			Sliding	(V) 6 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		SE
B303	24 (G/B)	Ground	motor operation	0 50 ms	PIIA4556E	J
				PIIA3277E		

#### OK or NG

OK >> Sliding sensor circuit is OK.

NG >> GO TŎ 2.

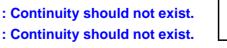
## 2. CHECK SLIDING SENSOR CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and sliding motor connector.
- 2. Check continuity between driver seat control unit connector B303 terminals 24 (G/B), 31 (R/W) and sliding motor B307 terminals 24 (G/B), 31A (R/W).

: Continuity should exist. : Continuity should exist.

- 3. Check continuity between driver seat control unit B303 terminals 24 (G/B), 31 (R/W) and ground.
  - 24 (G/B) Ground

31 (R/W) - Ground



#### OK or NG

OK >> Replace sliding motor.

NG >> Repair or replace harness between driver seat control unit and sliding motor.

Sliding motor connector 24, 31

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## **Reclining Sensor Circuit Check**

#### 1. CHECK FUNCTION

#### (R) With CONSULT-II

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

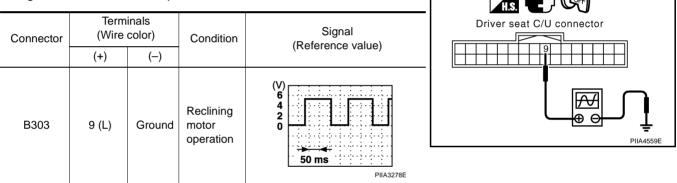
Monitor item [POER	ATION or UNIT]	Contents		
RECLN PULSE	_	The seat reclining position (pulse) judged from the reclining sensor is displayed		

DATA MONITOR						]
SEL	EC	]				
	s	LIDE	PULS			
	R	ECLN	PULS	E		
	LI	FT FR	PULS	Е		
LIFT RR PULSE						
	МΙ					
Page Up Pag			Down			
			erical play			]
MODE BACK			LIGH	т	СОРҮ	PIIA4558E
	Page U SETTIN	SELEC S R LI LI Page Up SETTING	SELECT MO SLIDE RECLN LIFT FR LIFT RF MIR/SEN Page Up Page SETTING Num Dis	SELECT MONITOR SLIDE PULSE RECLN PULS LIFT FR PULS LIFT RR PULS MIR/SEN RH U Page Up Page Down SETTING Numerical Display	SELECT MONITOR IT SLIDE PULSE RECLN PULSE LIFT FR PULSE LIFT RR PULSE MIR/SEN RH U-D Page Up Page Down SETTING Numerical Display	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

AIS003GW

## **Without CONSULT-II**

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



#### OK or NG

OK >> Reclining sensor circuit is OK.

NG >> GO TO 2.

## 2. CHECK RECLINING SENSOR CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and reclining motor connector.
- 2. Check continuity between driver seat control unit connector B303 terminals 9 (L), 31 (R/W) and reclining motor connector B311 terminals 9 (L), 31 (R/W).

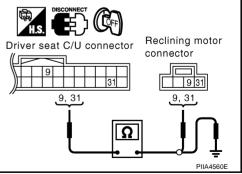
```
9 (L) – 9 (L)
31 (R/W) - 31 (R/W)
```

: Continuity should exist. : Continuity should exist.

Check continuity between driver seat control unit connector 3. B303 terminals 9 (L), 31 (R/W) and ground.

9 (L) – Ground

: Continuity should not exist. 31 (R/W) – Ground : Continuity should not exist.



- OK >> Replace reclining motor.
- NG >> Repair or replace harness between connectors driver seat control unit and reclining motor.

## Front Lifting Sensor Circuit Check

#### 1. CHECK FUNCTION

#### (P) With CONSULT-II

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

The front lifting position (pulse) judged from the front lifting sensor is displayed

uie	ine pui	ise changes.		
	D	ATA MONITOR		
	SELEC	CT MONITOR ITEM		
	5		С	
	R	ECLN PULSE		
	L	IFT FR PULSE		
	LI	IFT RR PULSE		D
	м	IR/SEN RH U-D		
	Page Up	Page Down		
	SETTING	Numerical Display		E
	MODE B	BACK LIGHT COPY	PIIA4558E	
			1 1/14-000L	

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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.

U		•				
Connector		inals color)	Condition	Signal (Reference value)	Driver seat C/U connector	Н
	(+)	()				
B303	25 (Y/B)	Ground	Front lift- ing motor operation	(V) 6 4 2 0 50 ms PIIA3278E		SE

#### OK or NG

OK >> Front lifting sensor is OK.

NG >> GO TO 2.

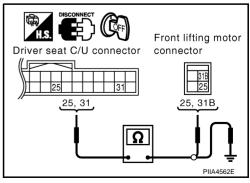
#### 2. CHECK FRONT LIFTINGS SENSOR CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and front lifting motor connector.
- 2. Check continuity between driver seat control unit connector B303 terminals 25 (Y/B), 31 (R/W) and front lifting motor connector B309 terminals 25 (Y/B), 31B (R/W).

```
25 (Y/B) – 25 (Y/B)
```

- 31 (R/W) 31B (R/W)
- : Continuity should exist. : Continuity should exist.
- 3. Check continuity between driver seat control unit connector B303 terminals 25 (Y/B), 31 (R/W) and ground.
  - 25 (Y/B) Ground
  - 31 (R/W) Ground
- : Continuity should not exist.
- : Continuity should not exist.

- OK >> Replace front lifting motor.
- NG >> Repair or replace harness between driver seat control unit and front lifting motor.



## **Rear Lifting Sensor Circuit Check**

## 1. CHECK REAR END LIFTING SENSOR INPUT/OUTPUT SIGNAL

#### With CONSULT-II

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

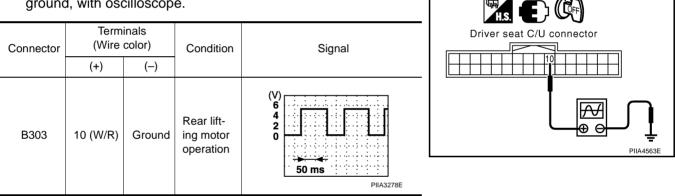
Monitor item [OPEF	RATION or UNIT	
LIFT RR PULSE	—	The rear lifting position (pulse) judged from the rear lifting sensor is displayed.

	D/					
SEL	EC					
	S					
	R	ECLN	PULS	Е		
	LI					
LIFT RR PULSE						
MIR/SEN RH U-D						
Page Up Page Down						
SETTING Numerical Display					]	
MODE BACK			LIGH	т	СОРҮ	PIIA4558E

AIS003GY

#### **Without CONSULT-II**

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



#### OK or NG

OK >> Rear lifting sensor circuit is OK.

NG >> GO TO 2.

## 2. CHECK REAR LIFTING SENSOR CIRCUIT HARNESS CONTINUITY

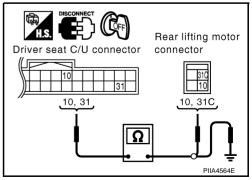
- 1. Disconnect driver seat control unit connector and rear lifting motor connector.
- 2. Check continuity between driver seat control unit connector B303 terminals 10 (W/R), 31 (R/W) and rear lifting motor connector B310 terminals 10 (W/R), 31C (R/W).

```
10 (W/R) – 10 (W/R)
```

: Continuity should exist.

- 31 (R/W) 31C (R/W) : Continuity should exist.
- 3. Check continuity between driver seat control unit connector B303 terminals 10 (W/R), 31 (R/W) and ground.
  - 10 (W/R) Ground
  - 31 (R/W) Ground
- : Continuity should not exist. : Continuity should not exist.

- OK >> Replace rear lifting motor.
- NG >> Repair or replace harness between driver seat control unit and rear lifting motor.



## Pedal Adjusting Sensor Circuit Check

## 1. CHECK FUNCTION

#### () 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.

		B
DATA MONITOR		
SELECT MONITOR ITEM		
MIR/SEN RH U-D		
MIR/SEN RH R-L		С
MIR/SEN LH U-D		
MIR/SEN LH R-L		
PEDAL SEN		D
Page Up Page Down		
SETTING Numerical Display		
MODE BACK LIGHT COPY	DUA (5005	E
	PIIA4568E	

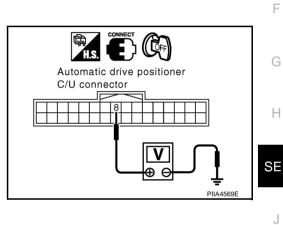
AIS003GZ

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#### **Without CONSULT-II**

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

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx)	
	(+)	(-)		(Αρριοχ)	
M19	M40 0 (D/D)	Ground	Pedal front end position	0.5	
M19 8 (P/B)	Ground	Pedal back end position	4.5		



#### OK or NG

- OK >> Pedal adjusting sensor circuit is OK.
- NG >> GO TO 2.

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# $\overline{2.}$ check pedal adjusting sensor circuit harness continuity

- 1. Disconnect automatic drive positioner control unit and pedal adjusting sensor connector.
- Check continuity between automatic drive positioner connector M19, M20 terminals 8 (P/B), 33 (W/L), 41 (Y) and pedal adjusting sensor connector E114 terminals 3 (Y), 4 (P/B), 5 (W/L).
  - 8 (P/B) 4 (P/B) 33 (W/L) – 5 (W/L) 41 (Y) – 3 (Y)
- : Continuity should exist.

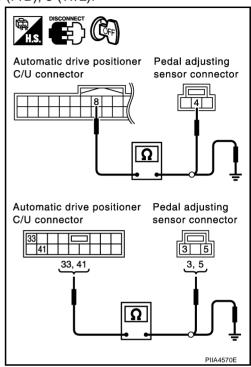
: Continuity should not exist.

: Continuity should not exist.

- : Continuity should exist.
  - : Continuity should exist.
- Check continuity between automatic drive positioner control unit connector E114 terminals 8 (P/B), 33 (W/L), 41 (Y) and ground.
  - 8 (P/B) Ground : Continuity should not exist.
  - 33 (W/L) Ground
  - 41 (Y) Ground

#### OK or NG

- OK >> Replace pedal adjusting motor.
- NG >> Repair or replace harness between automatic drive positioner and pedal adjusting sensor.



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## 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.

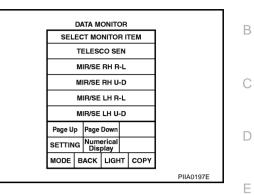
NG >> Repair the malfunctioning parts, and check the symptom again.

# 2. CHECK MIRROR SENSOR CHECK

#### (P) 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 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.



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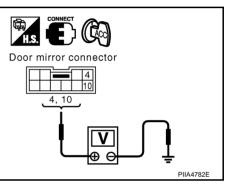
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## **Without CONSULT-II**

- 1. Turn ignition switch ACC.
- 2. Check voltage between door mirror (driver side) connector and ground.

Con-			Condition	Voltage (V) (Approx,)	
nector			Condition		
ר2	4 (G)	Ground	When motor is LEFT or RIGHT operation	Changes between 3.4 (close to right edge) – 0.6 (close to left edge)	
D2 Ground 10 (L/Y)	Orbana	When motor is UP or DOWN operation	Changes between 3.4 (close to peak) – 0.6 (close to valley)		



OK or NG

OK >> Mirror sensor LH is OK.

NG >> GO TO 3.

## 3. CHECK HARNESS CONTINUITY 1

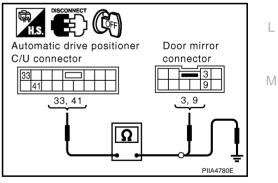
- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector and door mirror (driver side) connector.
- 3. Check continuity between automatic drive positioner control unit connector M20 terminal 33 (W/L), 41 (Y) K and door mirror (driver side) connector D2 terminal 3 (W/L), 9 (Y).

33 (W/L) – 3 (W/L) 41 (Y) – 9 (Y) :Continuity should exist.

- ) :Continuity should exist.
- 4. Check continuity between automatic drive positioner control unit connector M20 terminal 33 (W/L), 41 (Y) and ground.

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

- OK >> GO TO 4.
- NG >> Repair or replace harness between automatic drive positioner contorl unit and door mirror (driver side).



## 4. CHECK HARNESS CONTINUITY 2

1. Check continuity between automatic drive positioner control unit connector M19 terminal 6 (L/Y), 22 (G) and door mirror (driver side) connector D2 terminal 4 (G), 10 (L/Y).

6 (L/Y) – 10 (L/Y) 22 (G) – 4 (G) :Continuity should exist. :Continuity should exist.

- 2. Check continuity between automatic drive positioner control unit connector M19 terminal 6 (L/Y), 22 (G) and ground.
  - 6 (L/Y) Ground 22 (G) – Ground
- :Continuity should not exist.

:Continuity should not exist.

## OK or NG

- OK >> Replace door mirror (driver side).
- NG >> Repair or replace harness between automatic drive positioner control unit and door mirror (driver side).

## 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

<u>OK OF NG</u>

OK >> GO TO 2.

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

## 2. CHECK MIRROR SENSOR CHECK

#### 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 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.

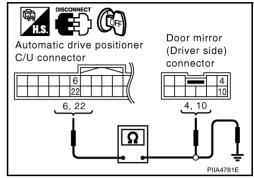
## **Without CONSULT-II**

- 1. Turn ignition switch ACC.
- 2. Check voltage between door mirror (passenger side) connector and ground.

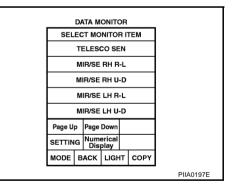
Con-	Terminals	(Wire color)	Condition	Voltage(V)
nector	(+)	(-)	Condition     Condition       (-)     (Approx.)       When motor is LEFT or RIGHT operation     Changes between 3.4 (close to left edge 0.6 (close to right edg 0.6 (close to right edg 0.4 (close to peak) - 3.4 (close to peak) -	(Approx,)
D32	4 (L)	Ground	LEFT or RIGHT	Changes between 3.4 (close to left edge) – 0.6 (close to right edge)
032	10 (R/B)	Ground	UP or DOWN	Changes between 3.4 (close to peak) – 0.6 (close to valley)

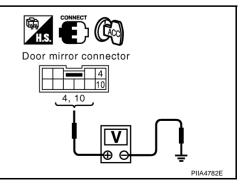
OK or NG

OK >> Mirror sensor RH is OK. NG >> GO TO 3.



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# $\overline{\mathbf{3}}$ . CHECK HARNESS CONTINUITY 1

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror (passenger side) connector.
- 3. Check continuity between automatic drive positioner control unit connector M20 terminal 33 (W/L), 41 (Y) <sup>B</sup> and door mirror (passenger side) connector D32 terminal 3 (W/L), 9 (Y).

33 (W/L) – 3 (W/L) 41 (Y) – 9 (Y) :Continuity should exist. :Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M20 terminal 33 (W/L), 41 (Y) and ground.

33 (W/L) – Ground

41 (Y) – Ground

:Continuity should not exist. :Continuity should not exist.

#### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness between automatic drive positioner control unit and door mirror (passenger side).

#### 4. CHECK HARNESS CONTINUITY 2

1. Check continuity between automatic drive positioner control unit connector M19 terminal 5 (R/B), 21 (L) and door mirror (passenger side) connector D32 terminal 4 (L), 10 (R/B).

5 (R/B) – 10 (R/B) 21 (L) – 4 (L)

2. Check continuity between automatic drive positioner control unit connector M19 terminal 5 (R/B), 21 (L) and ground.

5 (R/B) – Ground :Continu

21 (L) – Ground

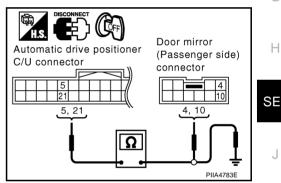
:Continuity should not exist. :Continuity should not exist.

:Continuity should exist.

:Continuity should exist.

#### OK or NG

- OK >> Replace door mirror (passenger side).
- NG >> Repair or replace harness between automatic drive positioner control unit and door mirror (passenger side).



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Automatic drive positioner

33, 41

C/U connector

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Door mirror

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9

PIIA4780E

connector

## Sliding Switch Circuit Check

## 1. CHECK FUNCTION

## BWith CONSULT-II

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

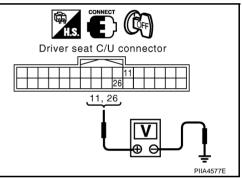
Monitor item   ATION or U		Contents
SLIDE SW- FR	"ON/ OFF"	ON / OFF status judged from the sliding switch (FR) sig- nal is displayed.
SLIDE SW- RR	"ON/ OFF"	ON / OFF status judged from the sliding switch (RR) signal is displayed.

DATA MONITOR SELECT MONITOR ITEM SLIDE SW-FR SLIDE SW-RR RECLN SW-FR RECLN SW-RR LIFT FR SW-UP							
SE	LEC	ст мо	NITOF	R IT	EM		
	ę	SLIDE	SW-FF	R			
	5	SLIDE	SW-RI	٦			
	F	ECLN	SW-F	R			
	R	ECLN	SW-R	R			
	L	FT FR	SW-U	IP			
		Page	Down			-	
SETTIN	G					1	
MODE	В	ACK	LIGH	IT	COPY	1	DUADOADE
	LIFT FR SW-UP Page Down TTING Numerical Display						

## Without CONSULT-II

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

Connector	Term (Wire		Condition	Voltage (V) (Approx)
	(+)	(-)		(Approx)
	11 (W/V)	Ground	Sliding switch ON(RR operation)	0
B303			Sliding switch OFF	Battery voltage
В303	26 (G/W)	Ground	Sliding switch ON(FR operation)	0
			Sliding switch OFF	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 connector.
- Check continuity between driver seat control unit connector B303 terminals 11 (W/V), 26 (G/W) and power seat switch connector B305 terminals 11 (W/V), 26 (G/W).

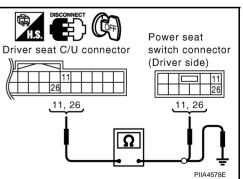
: Continuity should exist. : Continuity should exist.

- 3. Check continuity between driver seat control unit connector B303 terminals 11 (W/V), 26 (G/W) and ground.
  - 11 (W/V) Ground

: Cont	inuity	should	not	exist.
: Cont	inuity	should	not	exist.



- OK or NG
  - OK >> GO TO 3.
  - NG >> Repair or replace harness between driver seat control unit and power seat switch.



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# 3. CHECK SLIDING SWITCH

Check continuity between power seat switch as follows.

Term	ninal	Condition	Continuity
11		Sliding switch ON (RR operation)	Yes
	32A	Sliding switch OFF	No
26	JZA	Sliding switch ON (FR operation)	Yes
20		Sliding switch OFF	No

#### OK or NG

OK >> Check the condition of the harness and connector. NG >> Replace power seat switch.

## **Reclining Switch Check**

## 1. CHECK FUNCTION

#### (I) With CONSULT-II

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

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

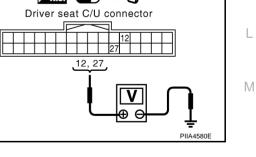
	D	ATA M	ONITC	R		_
SEI	_EC	ст мо	NITOF	R IT	EM	
	5	SLIDE	SW-FF	R		
	S	SLIDE	SW-RI	7		
	R	ECLN	SW-F	R		
	R	ECLN	SW-R	R		
	LI	FT FR	SW-U	IP		
		Page	Down			
SETTIN	G	Num Dis				
MODE	В	ACK	LIG⊦	ΙТ	COPY	PIIA0313

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#### **Without CONSULT-II**

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

Connector	Term (Wire		Condition	Voltage (V) (Approx)	
	(+)	(-)		(Applox)	
	12 (G/Y)		Reclining switch ON (RR operation)	0	
P202	12 (G/T)	Ground	Reclining switch OFF	Battery voltage	
B303	27 (1 /\\/\	Ground	Reclining switch ON (FR operation)	0	
	27 (L/W)		Reclining switch OFF	Battery voltage	



## OK or NG

OK >> Reclining switch circuit is OK.

NG >> GO TO 2. Ω PIIA4579E 41500345

Power seat switch (Driver side) 11 32A 26 11, 26



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# $\overline{2.}$ check reclining switch circuit harness continuity

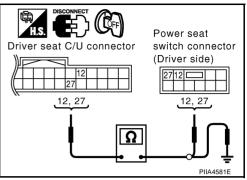
- 1. Disconnect driver seat control unit connector and power seat switch connector.
- Check continuity between driver seat control unit connector B303 terminals 12 (G/Y), 27 (L/W) and power seat switch connector B305 terminals 12 (G/Y), 27 (L/W).

12 (G/Y) – 12 (G/Y) 27 (L/W) – 27 (L/W) : Continuity should exist.

) : Continuity should exist.

3. Check continuity between driver seat control unit connector B303 terminals 12 (G/Y), 27 (L/W) and ground.

12 (G/Y) – Ground 27 (L/W) – Ground : Continuity should not exist. : Continuity should not exist.



#### OK or NG

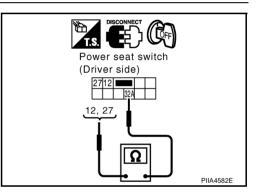
OK >> GO TO 3.

NG >> Repair or replace harness between driver seat control unit and power seat switch.

## **3.** RECLINING SWITCH CHECK

Check continuity between driver seat switch as follows.

Terr	ninal	Condition	Continuity
12		Reclining switch ON (RR operation)	Yes
12	32A	Reclining switch OFF	No
27	32A	Reclining switch ON (FR operation)	Yes
21		Reclining switch OFF	No



OK or NG

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

NG >> Replace power seat switch.

## **Front Lifting Switch Circuit Check**

#### 1. CHECK FUNCTION

#### (P) With CONSULT-II

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

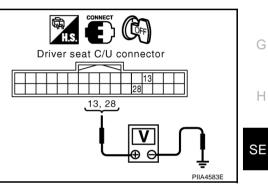
Monitor item [O TION or UN		Contents
LIFT FR SW- DN	"ON/ OFF"	ON / OFF status judged from the FR lifter switch (DOWN) signal is displayed.
LIFT RR SW- UP	"ON/ OFF"	ON / OFF status judged from the RR lifter switch (UP) signal is displayed.

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SE	LEC	ст мо	NITOF	R IT	EM	]			
	LI	FT FR	SW-D	N					
	LI	FT RF	SW-U	IP					
	LI	FT RR	SW-D	N					
	MI	R CO	N SW-L	JP					
	MI	R CON	NSW-E	DN					
Page U	lр	Page	Down			1			
SETTIN	G		erical play						
MODE	в	ACK	LIGH	Т	COPY	1			
L						-	PIIA032	23E	

#### **Without CONSULT-II**

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

Connector	Term (Wire		Condition	Voltage (V) (Approx)
	(+)	()		
B303	13 (O/B)	Ground	Front lifting switch ON (DOWN operation)	0
			Front lifting switch OFF	Battery voltage
	28 (L/R)		Front lifting switch ON (UP operation)	0
			Front lifting switch OFF	Battery voltage



#### OK or NG

OK >> Front lifting switch circuit is OK.

NG >> GO TO 2.

# 2. CHECK FROUNT RIFTING SWITCH CIRCUIT HARNESS CONTINUITY

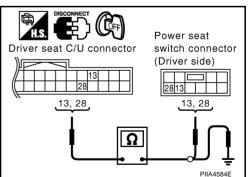
- Disconnect driver seat control unit connector and power seat switch connector. 1.
- 2. Check continuity between driver seat control unit connector B303 terminals 13 (O/B), 28 (L/R) and driver seat switch connector B305 terminals 13 (O/B), 28 (L/R).
  - 13 (O/B) 13 (O/B) 28 (L/R) - 28 (L/R)
- : Continuity should exist. : Continuity should exist.
- 3. Check continuity between driver seat control unit connector B303 terminals 13 (O/B), 28 (L/R) and ground
  - 13 (O/B) Ground 28 (L/R) – Ground
- : Continuity should not exist. : Continuity should not exist.

#### OK or NG

OK >> GO TO 3.

Revision: 2004 November

NG >> Repair or replace harness between driver seat control unit and power seat switch.



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# $\overline{\mathbf{3}}$ . CHECK FRONT LIFTING SWITCH

#### Check continuity between driver seat switch as follows.

Term	inals	Condition	Continuity
13		Front lifting switch ON (DOWN operation)	Yes
15	32A	Front lifting switch OFF	No
28		Front lifting switch ON (UP operation)	Yes
		Front lifting switch OFF	No

#### OK or NG

OK >> Check the condition of the harness and connector. NG >> Replace power seat switch (driver side).

## **Rear Lifting Switch Circuit Check**

## 1. CHECK FUNCTION

#### 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 [OPE UNIT]	RATION or	Contents		
LIFT RR SW-UP	"ON/OFF"	Operation (ON)/open (OFF) status judged from the RR lifter switch (UP) signal is dis- played.		
LIFT RR SW-DN	"ON/OFF"	Operation (ON)/open (OFF) status judged from the RR lifter switch (DOWN) signal is displayed.		

# Power seat switch (Driver side)

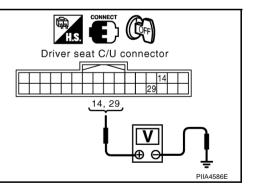
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	D.					
SELECT MONITOR ITEM						
LIFT FR SW-DN						
LIFT RR SW-UP						
LIFT RR SW-DN						
MIR CON SW-UP						
MIR CON SW-DN						
Page Up Page		Page	Down			
		erical olay			]	
MODE BAC		ACK	LIGH	П	COPY	PIIA0323E
						- FIRAU323E

#### **Without CONSULT-II**

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

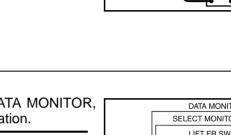
Connector	Termi (Wire		Condition	Voltage (V) (Approx)
	(+)	(-)		
B303 -	14 (Y/R)	Ground	Rear lifting switch ON (DOWN operation)	0
			Rear lifting switch OFF	Battery voltage
	29 (W/G)		Rear lifting switch ON (UP operation)	0
			Rear lifting switch OFF	Battery voltage



#### OK or NG

OK >> Rear lifting switch circuit is OK.

NG >> GO TO 2.



## $\overline{2.}$ check power seat switch circuit harness continuity

- 1. Disconnect driver seat control unit connector and power seat switch connector.
- Check continuity between driver seat control unit connector B303 terminals 14 (Y/R), 29 (W/G) and power seat switch connector B305 terminals 14 (Y/R), 29 (W/G).

14 (Y/R) – 14 (Y/R) 29 (W/G) – 29 (W/G) : Continuity should exist.

: Continuity should exist.

3. Check continuity between driver seat control unit connector B303 terminals 14 (Y/R), 29 (W/G) and ground.

14 (Y/R) – Ground

29 (W/G) - Ground

: Continuity should not exist. : Continuity should not exist.

#### Power seat switch connector (Driver side) 14, 29 14,

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#### OK or NG

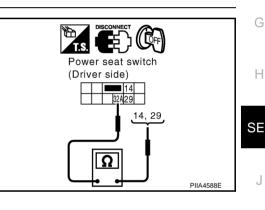
OK >> GO TO 3.

NG >> Repair or replace harness between driver seat control unit and power seat switch.

#### **3. CHECK REAR LIFTING SWITCH**

Check continuity between driver seat switch as follows.

Termi	inals	Condition	Continuity
14		Rear lifting switch ON (DOWN operation)	Yes
14	32A	Rear lifting switch OFF	No
29	328	Rear lifting switch ON (UP operation)	Yes
29		Rear lifting switch OFF	No



#### OK or NG

OK >> Check the condition of the harness and connector. NG >> Replace power seat switch.

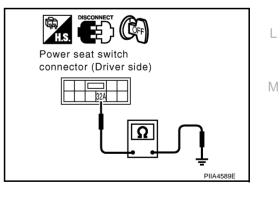
# Power Seat Switch Ground Circuit Check

### 1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check continuity between power seat switch connector B305 terminal 32A (B/W) and ground.

32A (B/W) – Ground

: Continuity should exist.



#### OK or NG

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

NG >> Repair or replace harness between power seat switch and ground.

### Pedal Adjusting Switch Circuit Check

#### 1. CHECK FUNCTION

#### 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 [OPEF UNIT]	RATION or	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.

 DATA MONITOR

 SELECT MONITOR ITEM

 MIR CHNG SW-R

 MIR CHNG SW-L

 PEDAL SW-FR

 PEDAL SW-RR

 DETENT SW

 Page Up
 Page Down

 SETTING
 Numerical

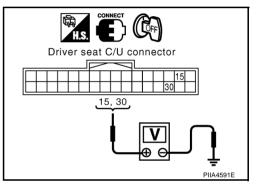
 Display

 MODE
 BACK

### **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)	
	(+) (-)			(Applox)	
	15 (G/R) 30 (W/L)		Pedal adjusting switch ON (RR operation)	0	
B303		Ground	Pedal adjusting switch OFF	Battery voltage	
			Pedal adjusting switch ON (FR operation)	0	
			Pedal adjusting switch OFF	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 connector and pedal adjusting switch connector.
- 2. Check continuity between driver seat control unit connector B303 terminals 15 (G/R), 30 (W/L) and pedal adjusting switch connector B306 terminals 15 (G/R), 30 (W/L).

```
15 (G/R) – 15 (G/R)
30 (W/L) – 30 (W/L)
```

: Continuity should exist.

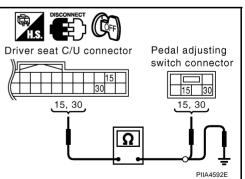
- : Continuity should exist.
- Check continuity between driver seat control unit connector B303 terminals 15 (G/R), 30 (W/L) and ground.

15 (	( <b>G/</b> R)	– Ground
30 (	(W/L)	– Ground

: Continuity should not exist. : Continuity should not exist.

#### OK or NG

- OK >> GO TO 3.
- NG >> Repair or replace harness between driver seat control unit and pedal adjusting switch.



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# $\overline{\mathbf{3}}$ . CHECK PEDAL ADJUSTING SWITCH

Check continuity between pedal adjust switch as follows.

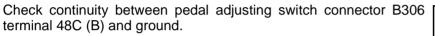
Terminals		Condition	Continuity
15		Pedal adjusting switch ON (RR operation)	Yes
15	48C	Pedal adjusting switch OFF	No
30		Pedal adjusting switch ON (FR operation)	Yes
30		Pedal adjusting switch OFF	No

#### OK or NG

OK >> GO TO 4.

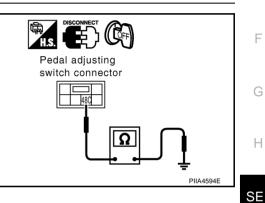
NG >> Replace pedal adjusting switch.

### 4. CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT



48C (B) - Ground

: Continuity should exist.



#### OK or NG

- >> Check the condition of the harness and connector. OK
- NG >> Replace or replace harness between pedal adjusting switch and ground.

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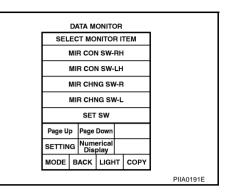
### Door Mirror Remote Control Switch (Changeover Switch) Circuit Check

#### 1. CHECK FUNCTION

#### BWith 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 remote control switch (switching to RIGHT) signal is displayed.
MIR CHNG S W-L	"ON/OFF"	ON/OFF status judged from the door mirror remote control switch (switching to LEFT) signal is displayed.

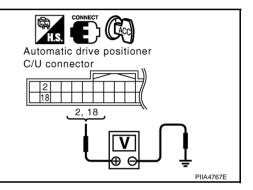


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### Without CONSULT-II

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

Connector	Terminals (	Wire color)	Condition	Voltage (V)
Connector	(+)	(-)	Condition	(Approx)
M19	2 (L/W)		Changeover switch RIGHT position	0
	2 (L/VV)	Ground	Changeover switch neutral position	5
	19 (DD/V)		Changeover switch LEFT position	0
	18 (BR/Y)	Changeover switch neutral position	5	



#### OK or NG

- OK >> Door mirror remote control switch (changeover switch) is OK.
- NG >> GO TO 2.

### 2. CHECK DOOR MIRROR REMOTE CONTROL SWITCH CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror remote control switch connector.
- 3. Check continuity between automatic drive positioner control unit connector M19 terminal 2 (L/W), 18 (BR/Y) and door mirror remote control switch connector M66 terminal 5 (L/W), 6 (BR/Y).

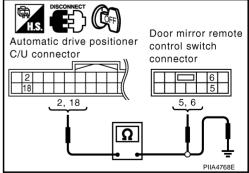
2 (L/W) – 5 (L/W) 18 (BR/Y) – 6 (BR/Y) :Continuity should exist. :Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M19 terminal 2 (L/W), 18 (BR/Y) and ground.

2 (L/W) – Ground 18 (BR/Y) – Ground :Continuity should not exist. :Continuity should not exist.

OK or NG

- OK >> GO TO 3.
- NG >> Repair or replace harness between automatic drive positioner control unit and door remote control switch.



## 3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH (CHANGEOVER SWITCH)

Check continuity between door mirror remote control switch as follows.

Term	ninals	Condition	Continuity
5		Changeover switch RIGHT position	Yes
5	7	Changeover switch neutral position	No
6		Changeover switch LEFT position	Yes
0		Changeover switch neutral position	No

#### OK or NG

OK >> Check the condition of the harness and the connector. NG >> Replace door mirror remote control switch.

Door Mirror Remote Control Switch (Mirror Switch) Circuit Check 1. CHECK DOOR MIRROR REMOTE CONTROL SWITCH(MIRROR SWITCH) SIGNAL

#### (P) With CONSULT-II

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

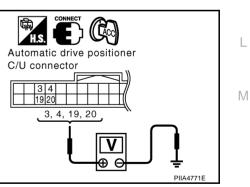
Monitor item [OPERATION or UNIT]		Contents
MIR CON SW UP	"ON/OFF"	ON/OFF status judged from the door mirror remote control switch (UP) signal is displayed.
MIR CON SW -DN	"ON/OFF"	ON/OFF status judged from the door mirror remote control switch (DOWN) signal is displayed.
MIR CON SW -RH	"ON/OFF"	ON/OFF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

	DA	ТА М					
SEL	EC	т мо	NITO	R ľ	ТЕМ	]	
	LII	FT RF	sw-i	DN		1	
	MII	R COI	v sw-	UP		1	
	MIR	R COI	v sw-	DN	1	1	
1	MIR	R COI	v sw-	RH	I	1	
	мι	R COI	v sw-	LH		1	
Page U	,	Page	Down			1	
SETTING Numerical Display						1	
MODE BACK LIGHT COPY							
						-	PIIA0199E

### Without CONSULT-II

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

Connector	Terminals	(Wire color)	Condition	Voltage (V)	
Connector	(+)	(-)	Condition	(Approx)	
	3 (Y/B)		Mirror switch UP operation	0	
	3 (1/b)	Ground	Mirror switch neutral position	5	
M19	4 (V/W)		Mirror switch LEFT operation	0	
			Mirror switch neutral position	5	
10119	19 (L/O)		Mirror switch DOWN operation	0	
-			Mirror switch neutral position	5	
	20 (\/)		Mirror switch RIGHT operation	0	
	20 (V)		Mirror switch neutral position	5	



#### OK or NG

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

NG >> GO TO 2.

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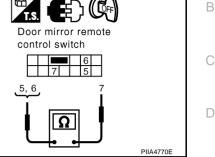
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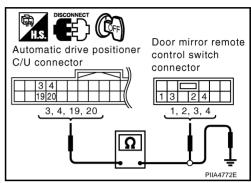
## $\overline{2}$ . CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and door mirror remote control switch connector.
- Check continuity between automatic drive positioner control unit connector M19 terminal 3 (Y/B), 4 (V/W), 19 (L/O), 20 (V) and door mirror remote control switch connector M66 terminal 1 (V), 2 (V/W), 3 (Y/B), 4 (L/O).

3 (Y/B) – 3 (Y/B)	:Contir
4 (V/W) – 2 (V/W)	:Contir
19 (L/O) – 4 (L/O)	:Contir
20 (V) – 1 (V)	:Contir

- :Continuity should exist. :Continuity should exist. :Continuity should exist. :Continuity should exist.
- 4. Check continuity between automatic drive positioner control unit connector M19 terminal 3 (Y/B), 4 (V/W), 19 (L/O), 20 (V) and ground.

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



#### OK or NG

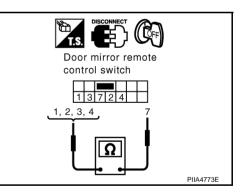
OK >> GO TO 3.

NG >> Repair or replace harness between automatic drove positioner control unit and door mirror remote control switch.

## 3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH (MIRROR SWITCH)

Check continuity between door mirror remote control switch as follows.

Terminals		Switch condition	Continuity
4		Mirror switch RIGHT operation	Yes
1		Mirror switch neutral position	No
0		Mirror switch LEFT operation	Yes
2	Mirror switch neutral position	No	
3 7	Mirror switch UP operation	Yes	
	Mirror switch neutral position	No	
4	Mirror switch DOWN operation	Yes	
	Mirror switch neutral position	No	



OK or NG

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

NG >> Replace door mirror remote control switch.

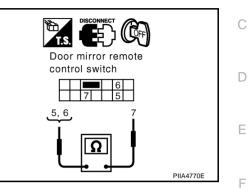
### Door Mirror Remote Control Switch Ground Circuit Check 1. CHECK DOOR MIRROR REMOTE CONTROL SWITCH (CANGEOVER SWITCH)

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch.
- 3. Check continuity between door mirror remote control switch as follows.

Term	ninals	Condition	Continuity
5	7	Changeover switch RIGHT position	Yes
5		Changeover switch neutral position	No
6		Changeover switch LEFT position	Yes
0	Changeover switch neutral position	No	

#### OK or NG

OK >> Check the condition of the harness and the connector. NG >> Replace door mirror remote control switch.



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### 2. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

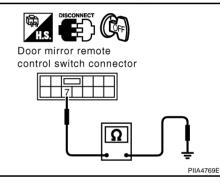
Check continuity between door mirror remote control switch connector M66 terminal 7 (B) and ground.

#### 7 (B) - Ground

: Continuity should exist.

#### OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace harness between door mirror remote control switch and ground.



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### Seat Memory Switch Circuit Check

### 1. CHECK FUNCTION

#### (P) With CONSULT-II

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

Monitor item [OPERATION or 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	ONITOR		
MONITO	R			
SLIDE S SLIDE S RECLN RECLN LIFT FR LIFT FR LIFT RR	W-RR SW-FR SW-RR SW-UP SW-DN		OFF OFF OFF OFF OFF OFF	
LIFT RR SET SW			OFF OFF	
		Page	Down	
		REC	ORD	
MODE	BACK	LIGHT	COPY	
MONITO		ONITOR		
TELESC TILT SW TILT SW MEMOR MEMOR CANCEI DOOR S	-DOWN Y SW 1 Y SW 2 _ SW		OFF OFF OFF OFF OFF OFF OFF <7km/	
Page	e Up	Page	Down	
			ORD	
MODE	MODE BACK		COPY	
				PIIA0309E

#### **Without CONSULT-II**

#### ĞO TO 2.

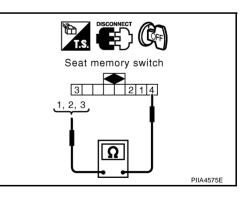
OK or NG

- OK >> Seat memory switch circuit is OK.
- NG >> GO TO 2.

## 2. CHECK SEAT MEMORY SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect seat memory switch connector.
- 3. Check continuity between seat memory switch as follows.

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



OK or NG

OK >> GO TO 3.

NG >> Replace seat memory switch.



Automatic drive

9

2425

positioner C/U connector

9, 24, 25

## 3. CHECK HARNESS CONTINUITY

- 1. Disconnect automatic drive positioner control unit connector.
- Check continuity between automatic drive positioner control unit connector M19 terminals 9 (LG/B), 24 (R/Y), 25 (P/L) and seat memory switch connector D3 terminals 1 (LG/B), 2 (P/L), 3 (R/ Y).
  - 9 (LG/B) 1 (LG/B) 24 (R/Y) – 3 (R/Y) 25 (P/L) – 2 (P/L)
- : Continuity should exist. : Continuity should exist.
- : Continuity s
  - : Continuity should exist.
- 3. Check continuity between automatic drive positioner control unit connector M19 terminals 9 (LG/B), 24 (R/Y), 25 (P/L) and ground.
  - 9 (LG/B) Ground
- : Continuity should not exist.
- : Continuity should not exist.
- 24 (R/Y) Ground 25 (P/L) – Ground
- : Continuity should not exist.

#### OK or NG

- OK >> GO TO 4.
- NG >> Repair or replace harness between automatic drive positioner control unit and seat memory switch.

#### 4. CHECK SEAT MEMORY SWITCH GROUND CIRCUIT

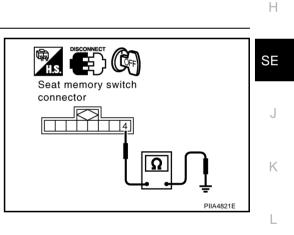
Check continuity between seat memory switch D3 terminal 4 (B) and ground.

#### 4 (B) – Ground

: Continuity should exist.

#### OK or NG

- OK >> Replace automatic drive positioner control unit.
- NG >> Repair or replace harness between seat memory switch and ground.



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Seat memory

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switch connector

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PIIA4576F

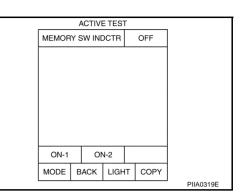
## Seat Memory Indicator Lamp Circuit Check

### 1. CHECK FUNCTION

### B 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

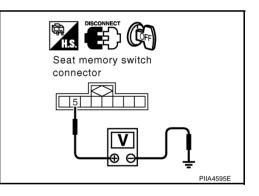
OK >> Seat memory indicator lamp circuit is OK.

NG >> GO TO 2.

## 2. CHECK SEAT MEMORY SWITCH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect seat memory switch connector.
- Check voltage between seat memory switch connector D3 terminal 5 (Y/R) and ground.

5 (Y/R) – Ground : Battery voltage



#### OK or NG

- OK >> GO TO 3.
- NG >> Repair or replace harness between fuse block (J/B) and seat memory switch.

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## $\overline{\mathbf{3}}$ . CHECK SEAT MEMORY INDICATOR CIRCUIT HARNESS CONTINUITY

- 1. Disconnect automatic drive positioner control unit connector.
- 2. Check continuity between automatic drive positioner control unit connector M19 terminals 12 (GR/L), 13 (Y/G) and seat memory switch connector D3 terminals 6 (GR/L), 7 (Y/G).

12 (GR/L) - 6 (GR/L) 13 (Y/G) - 7 (Y/G)

- : Continuity should exist.
- : Continuity should exist.

: Continuity should not exist.

: Continuity should not exist.

- Check continuity between automatic drive positioner control unit 3. connector M19 terminals 12 (GR/L), 13 (Y/G) and ground.
  - 12 (GR/L) Ground
  - 13 (Y/G) Ground

Sef) Automatic drive positioner Seat memory C/U connector switch connector 12 1 67 12, 13 6, 7 Ω PIIA45968

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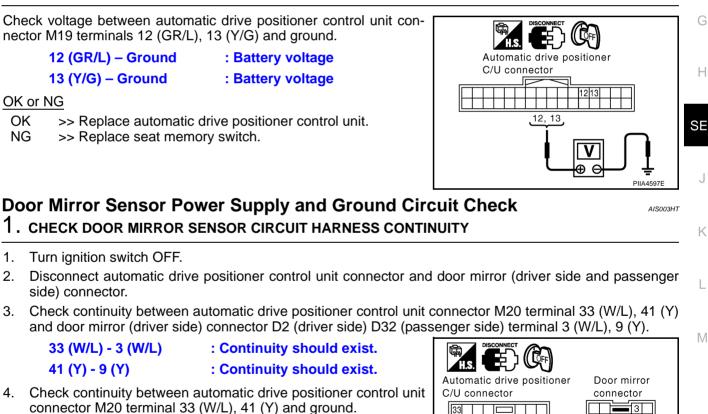
E

#### OK or NG

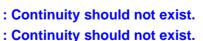
OK >> GO TO 4.

NG >> Repair or replace harness between automatic drive positioner control unit and memory switch.

#### 4. CHECK SEAT MEMORY SWITCH INDICATOR SIGNAL



- 33 (W/L) Ground
- 41 (Y) Ground







OK	>> GO TO 2.
NG	>> Repair or

>> Repair or replace harness between automatic drive positioner control unit and door mirror (driver side and passenger side)

Revision: 2004 November

2004 Murano

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33, 41

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## 2. CHECK MIRROR SENSOR POWER SUPPLY

- Connector automatic drive positioner control unit connector and 1. door mirror (driver side).
- 2. Turn ignition switch ACC.
- 3. Check voltage between automatic drive positioner control unit connector M20 terminal 33 (W/L) and ground.

#### 33 (W/L) - Ground

: Approx. 5V

#### OK or NG

- OK >> GO OT 3.
- NG >> Replace automatic drive positioner control unit.

## 3. CHECK MIRROR SENSOR GROUND CIRCUIT

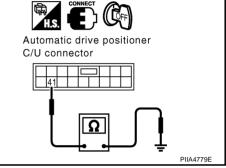
- Turn ignition switch OFF. 1.
- 2. Check continuity between automatic drive positioner control unit connector M20 terminal 41 (Y) and ground.

#### 41 (Y) - Ground

#### : Continuity should exist.

#### OK or NG

- OK >> Check the condition of the harness and connector.
- NG >> Replace automatic drive positioner control unit.



**Detention Switch Circuit Check** 

### **1. CHECK FUNCTION**

#### (P) With CONSULT-II

Check that when the CVT selector 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 detente switch signal is displayed.

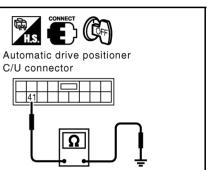
	DATA MONITOR					
SELE	SELECT MONITOR ITEM					
	MEMORY SW 2					
	CANC	EL SW				
	DOOR	SW-DF	7			
	VHCL SPEED SE					
	DETENT SW					
Page Up	Page Up Page Down					
SETTING	TTING Numerical Display					
MODE	BACK LIGH		т	COPY		DUA 00045
Long to the second s						PIIA0291E

#### **Without CONSULT-II**

ĞO TO 2.

OK or NG

- OK >> Detention switch circuit is OK.
- >> GO TO 2. NG



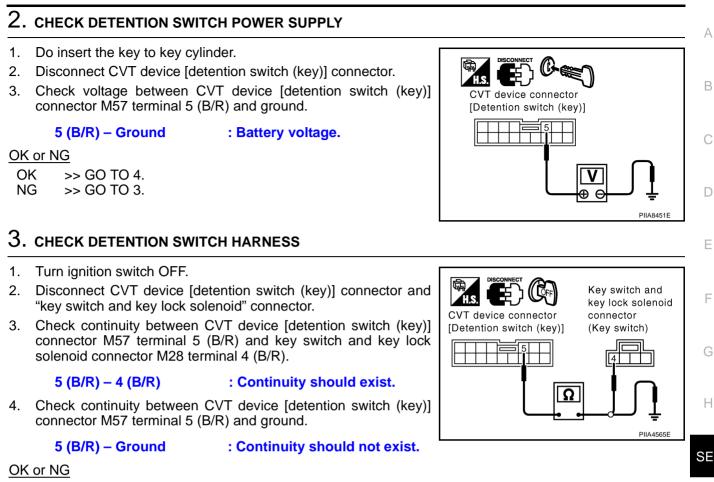
Automatic drive positioner

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C/U connector

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PIIA4778E

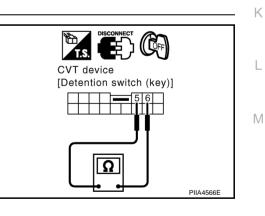


- OK >> Check the condition of the harness and connector.
- NG >> Repair or replace harness between CVT device [detention switch (key)] and key switch and key lock solenoid.

### 4. CHECK DETENTION SWITCH

Check continuity between detection switch as follows.

Terminals		Condition	Continuity
5	6	P-position	Yes.
5	0	Other than P-position	No.



OK or NG

- OK >> GO TO 5.
- NG >> Replace CVT device [detention switch (key)].

### 5. CHECK DETENTION SWITCH SIGNAL CIRCUIT HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector.
- Check continuity between driver seat control unit connector B303 terminal 21 (R/L) and CVT device [detention switch (key)] connector M57 terminal 6 (L).

21 (R/L) – 6 (L)

: Continuity should exist.

 Check continuity between driver seat control unit connector B303 terminal 21 (R/L) and ground.

#### 21 (R/L) – Ground

#### : Continuity should not exist.

#### OK or NG

- OK >> Replace driver seat control unit.
- NG >> Repair or replace harness between automatic drive positioner control unit and CVT device [detention switch (key)].

## Key Switch and Key Lock Solenoid Circuit Check

### 1. CHECK KEY SWITCH AND KEY LOCK SOLENOID

#### (P) With CONSULT-II

Touch "BCM". With "IGN KEY SW" on the DATA MONITOR, Check ON/OFF operation.

Monitor item [OPERA- TION or UNIT]		Contents
IGN KEY SW*	"ON/ OFF"	Key inserted (ON)/key removed (OFF) status judged from the key-in detection switch is displayed.

\*:Refer to SE-45, "DATA MONITOR" .

		IGN A	JC 3W							
	ю	GN ST/	ART S	N						
		IGN KI	EY SW	r						
	R	POSIT	TION S	w						
Page U	p	Page	Down							
SETTIN	G		erical play							
MODE	B	ACK	LIG⊦	т	COPY		P	IIA02	98E	

DATA MONITOR

SELECT MONITOR ITEM IGN ON SW

#### **Without CONSULT-II**

ĞO TO 2.

#### OK or NG

- OK >> Key switch and key lock solenoid circuit is OK.
- NG >> GO TO 2.

### 2. KEY SWITCH AND KEY LOCK SOLENOID (KEY SWITCH) POWER SUPPLY CIRCUIT CHECK

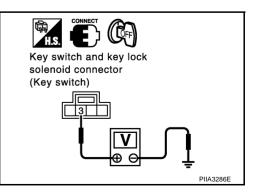
- 1. Turn ignition switch OFF.
- 2. Check voltage between key switch and key lock solenoid connector M28 terminal 3 (Y/R) and ground.

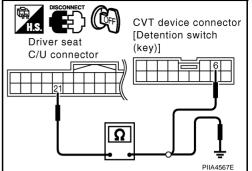
#### 3 (Y/R) – Ground

: Battery voltage.

#### OK or NG

- OK >> GO TO 3.
- NG >> Check harness between key switch and key lock solenoid and fuse.



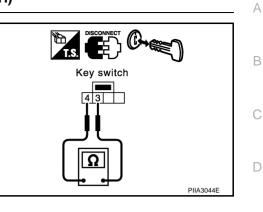


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## $\overline{\mathbf{3.}}$ check key switch and key lock solenoid (key switch)

Check continuity between key switch and key lock solenoid (key switch) as follows.

Terminals		Condition	Continuity	
2	4	Key is inserted in ignition key cylinder.	Yes	
5	4	Key is removed from ignition key cylinder.	No	



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#### OK or NG

OK >> GO TO 4.

NG >> Replace key switch and key lock solenoid (key switch).

### 4. CHECK HARNESS CONTINUITY

1. Check continuity between BCM connector M34 terminal 37 (B/R) and key switch and key lock solenoid (key switch) connector M28 terminal 4 (B/R).

#### 37 (B/R) – 4 (B/R)

: Continuity should exist.

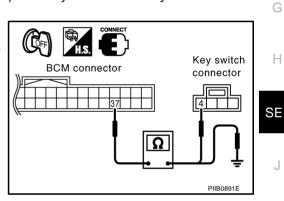
 Check continuity between BCM connector M34 terminal 37 (B/ R) and ground.

#### 37 (B/R) – Ground

: Continuity should not exist.

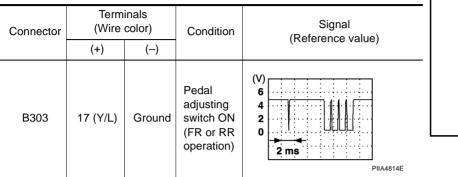
#### OK or NG

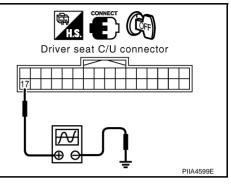
- OK >> Key switch and key lock solenoid circuit is OK.
- NG >> Repair or replace harness between key switch and key lock solenoid (key switch) and BCM.



### **UART Communication Line Circuit Check** 1. CHECK UART LINE INPUT/OUTPUT SIGNAL 1

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





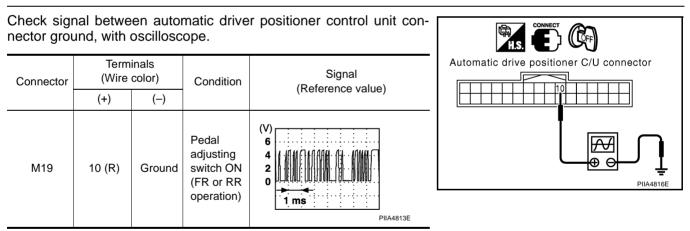
#### OK or NG

OK >> GO TO 2.

NG >> Check the following.

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

### 2. CHECK UART LINE INPUT/OUTPUT SIGNAL 2



OK or NG

OK >> GO TO 3.

NG >> Check the following.

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

AIS003HB

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Driver seat C/U

1, 17

connector

## $\overline{3}$ . CHECK UART LINE HERNESS

- 1. Disconnect driver seat control unit connector and automatic drive positioner control unit connector.
- 2. Check continuity between driver seat control unit connector B303 terminal 1 (Y/W), 17 (Y/L) and automatic drive positioner connector M19 terminal 10 (R), 26 (R/G).
  - 1 (Y/W) 10 (R)
  - 17 (Y/L) 26 (R/G)
- : Continuity should exist. : Continuity should exist.
- Check continuity between driver seat control unit connector 3. B303 terminal 1 (Y/W), 17 (Y/L) and ground.
  - 1 (Y/W) Ground
  - 17 (Y/L) Ground
- OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness between driver seat control unit and automatic drive positioner control unit.

: Continuity should not exist.

: Continuity should not exist.

### 4. CHECK DRIVER SEAT CONTROL UNIT

Dose the automatic drive positioner operate, when the driver control unit exchanged?

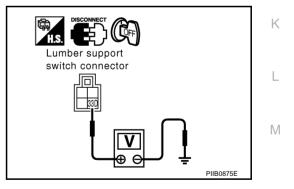
#### OK or NG

- OK >> Replace automatic drive positioner control unit.
- NG >> Replace driver seat control unit.

### Lumber Support Circuit Check

- 1. CHECK LUMBER SUPPORT SWITCH POWER SUPPLY
- 1. Turn ignition switch OFF.
- 2. Disconnect memory switch and lumber support switch connector.
- Check voltage between I"memory switch and lumber support 3. switch" connector B316 terminal 33D (R) and ground.

#### 33D (R) – Ground: : Battery voltage



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Automatic drive

positioner C/U

connector

10

26

10, 26

PIIA4598

#### OK or NG

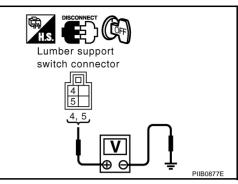
OK >> GO TO 2.

NG >> Repair or replace harness between fuse block (J/B) and I"memory switch and lumber support switch".

## 2. CHECK LUMBER SUPPORT SWITCH

Check voltage between	number support switch	connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)	
	(+)	(-)		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
B314	4 (L)	Ground	Lumber support switch turned to forward	Battery voltage	
			Lumber support switch neutral position	0	
	5 (W)		Lumber support switch turned to backward	Battery voltage	
			Lumber support switch neutral position	0	



#### OK or NG

OK >> GO TO 3.

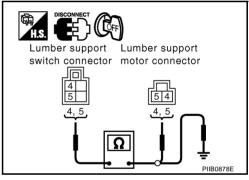
NG >> Replace power seat switch.

## 3. CHECK LUMBER SUPPORT MOTOR HARNESS

- 1. Disconnect lumber support motor connector.
- Check continuity between I"memory switch and lumber support switch" connector B314 terminal 4 (L), 5 (W) and lumber support motor connector B315 terminal 4 (L), 5 (W).
  - 4 (L) 4 (L)
  - 5 (W) 5 (W)

: Continuity should exist. : Continuity should exist.

- 3. Check continuity between I"memory switch and lumber support switch" connector B159 terminal 4 (L), 5 (W) and ground.
  - 4 (L) Ground
  - 5 (W) Ground
- : Continuity should not exist.
- : Continuity should not exist.



#### OK or NG

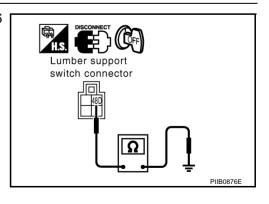
- OK >> GO TO 4.
- NG >> Repair or replace harness between I"memory switch and lumber support switch" and lumber support motor.

### 4. CHECK LUMBER SUPPORT SWITCH GROUND CIRCUIT

Check continuity between lumber support switch connector B306 terminal 48D (B) and ground.

48D (B) – Ground

: Continuity should exist.



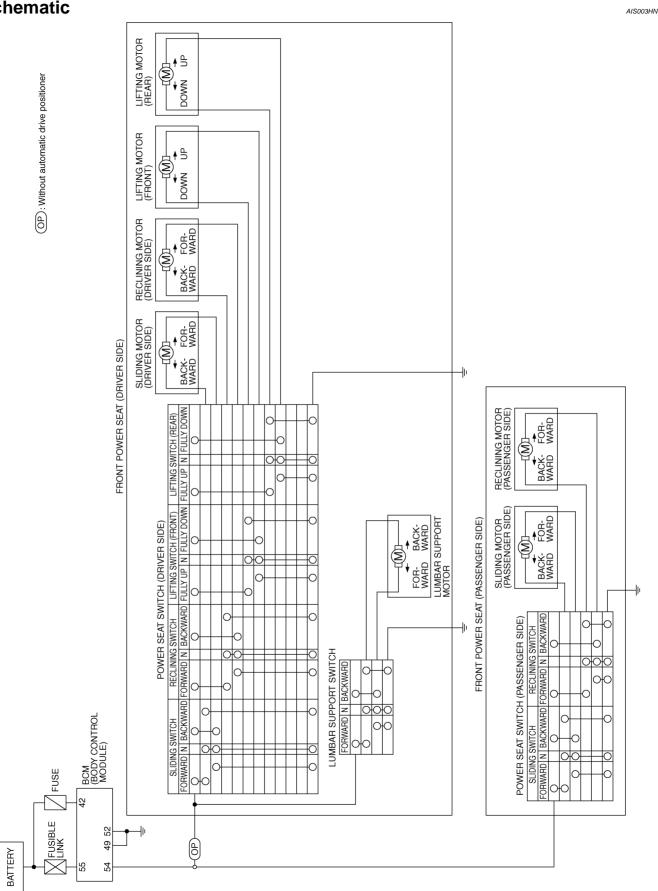
#### OK or NG

- OK >> Check the condition of the harness and connector.
- NG >> Repair or replace harness between I"memory switch and lumber support switch" and ground.

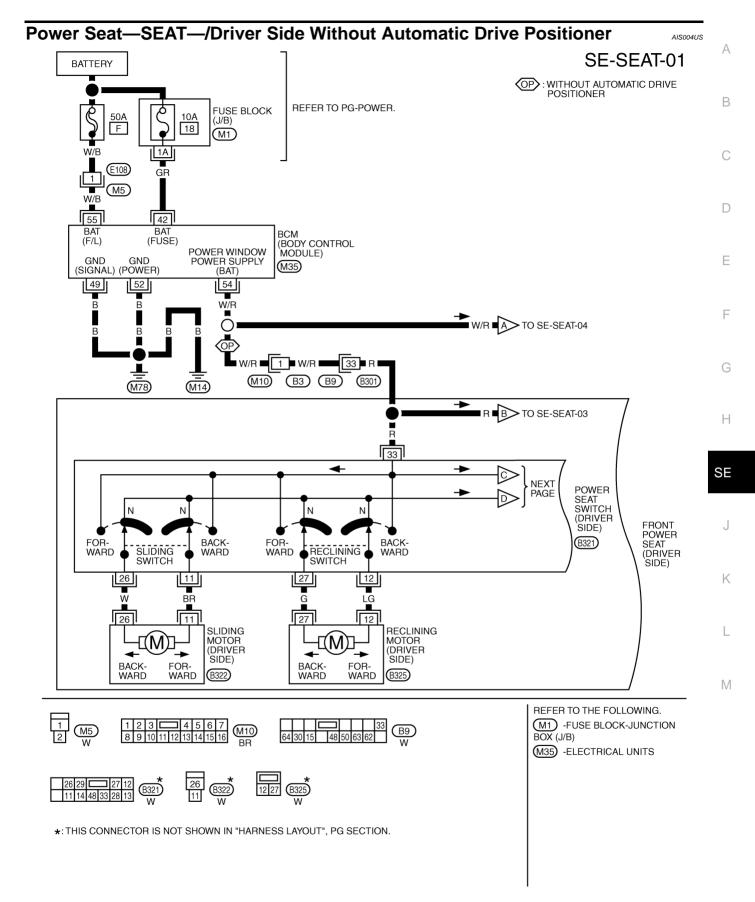
POWER SEAT	PFP:87016
Automatic Drive Positioner Interlocking Power Seat	AIS003HO
Automatic drive positioner interlocking power seat. Refer to <u>SE-12, "AUTOMATIC DRIVE POSITION</u>	IER" .

### Schematic



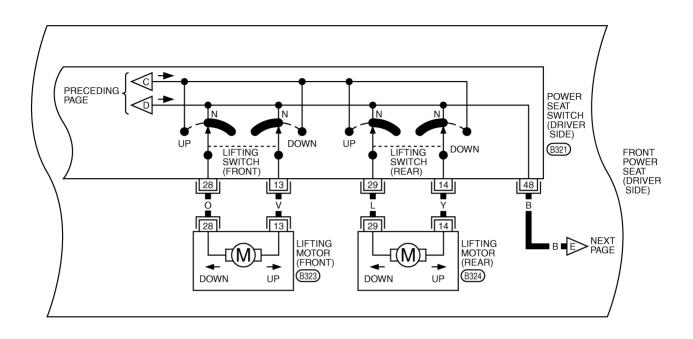


TIWA0529E



TIWA0530E

SE-SEAT-02



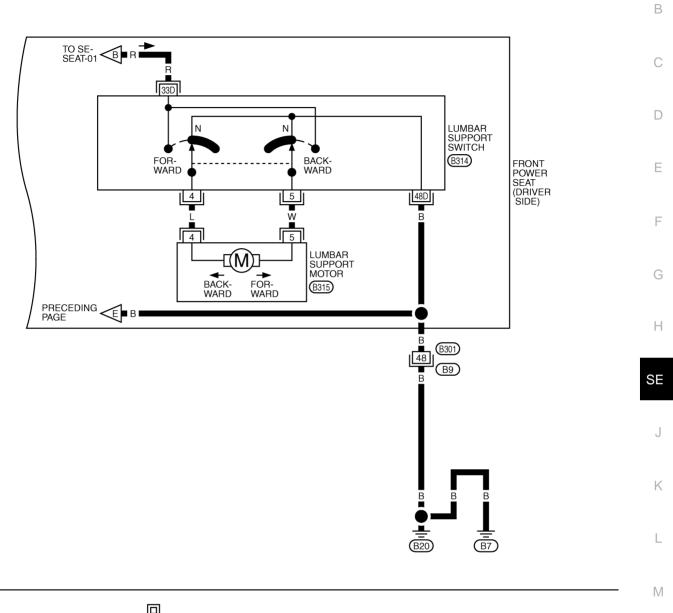


\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWA0531E

SE-SEAT-03

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 W
 B9
 B314
 B314
 B315
 B315

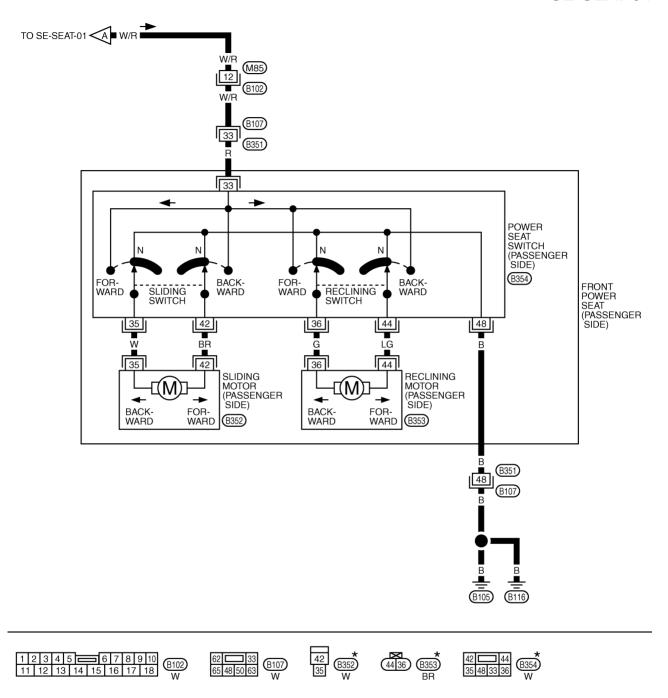
\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWA0532E

### Power Seat—Seat—/Passenger Side

SE-SEAT-04

AIS004UT



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

TIWA0533E

ATED SEAT			PFP:87335
scription			AIS001TH
When handling seat, be extremely careful not to scrate To replace heating unit, seat trim and pad should be se Do not use any organic solvent, such as thinner, benze	eparated.	to clean trims.	
	Seatback trim		
Heating unit	ostat		
	Trim temperature °C (°F)	Increasing to 35 - 45 (95 - 113)	Decreasing to 25 - 35 (77 - 95)
	Thermostat operation	OFF	ON
/ Seat cushion trim			

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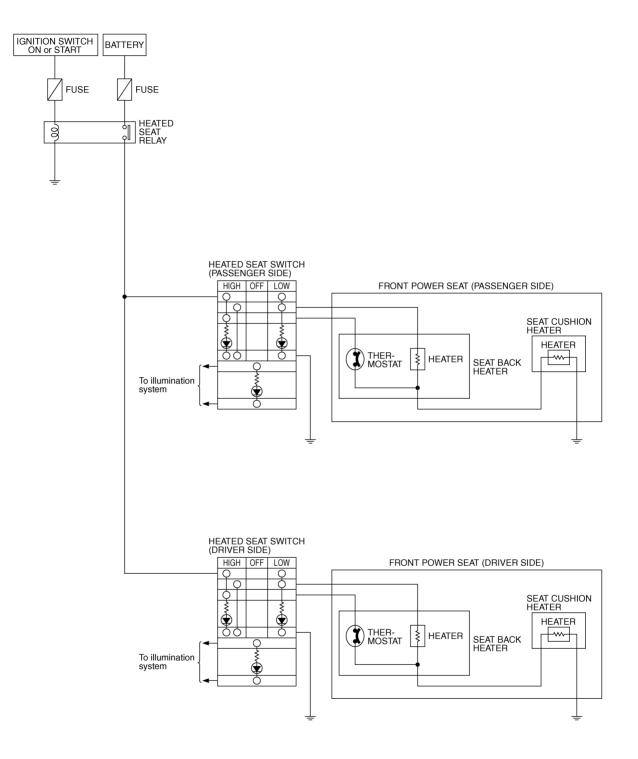
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### Schematic

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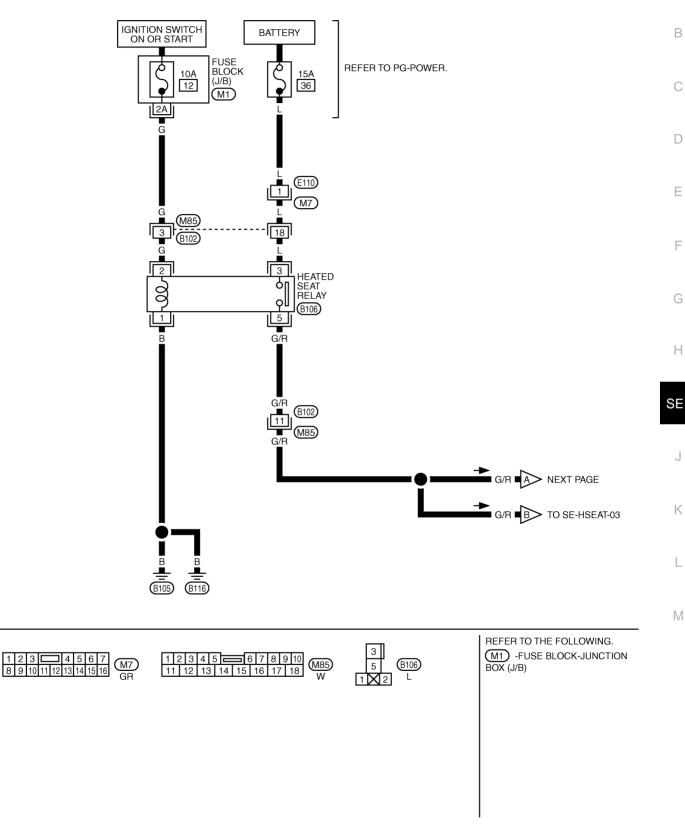
TIWA0319E

### Wiring Diagram—HSEAT—

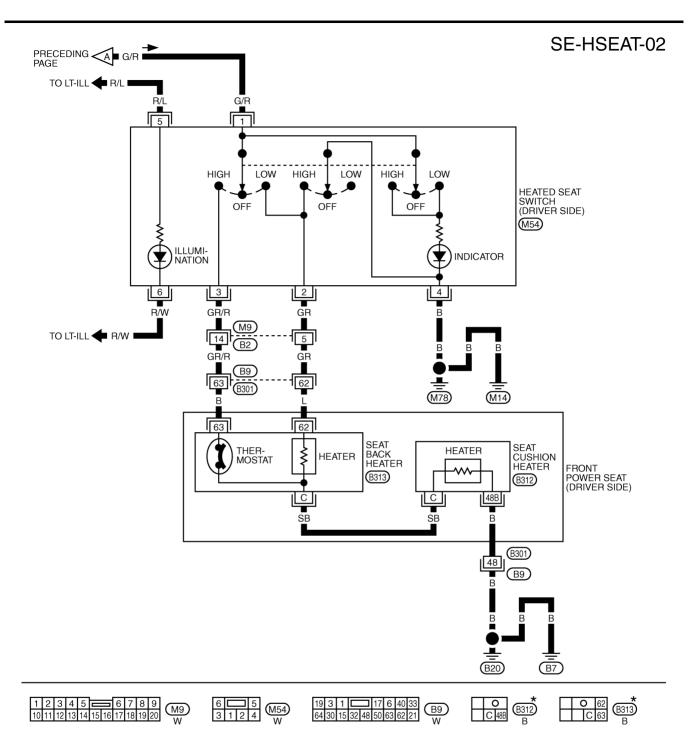


AIS001TM

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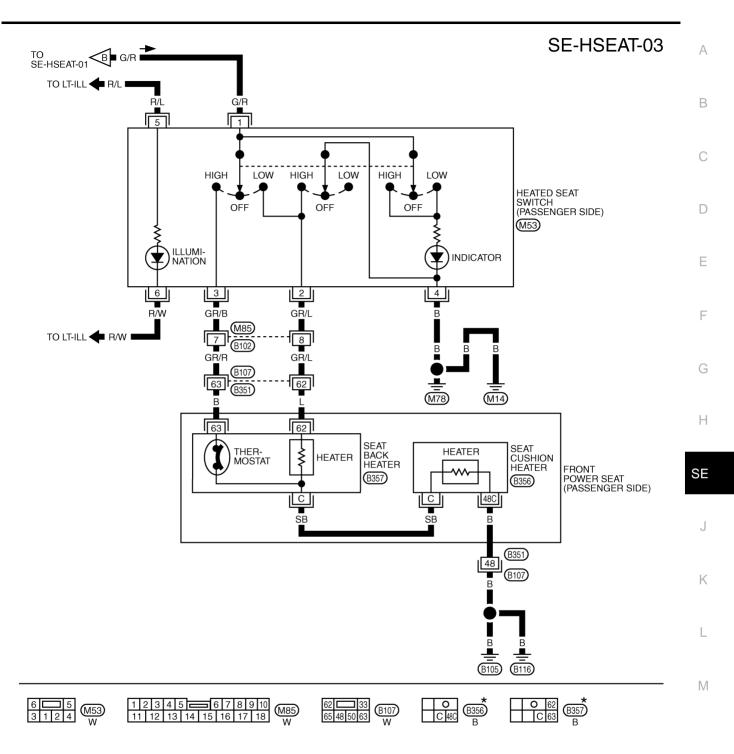


TIWA0320E



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

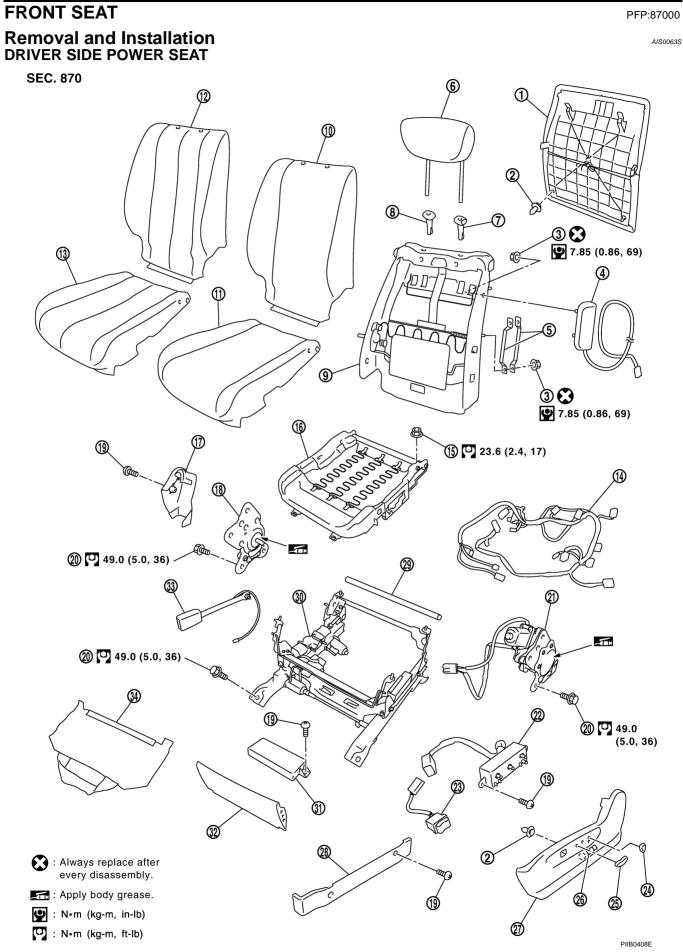
TIWA0321E



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

TIWA0322E

### **FRONT SEAT**



2004 Murano

### **FRONT SEAT**

- 1. Seatback board
- 4. Side air bag module
- 7. Headrest holder (locked)
- 10. Seatback pad
- 13. Seat cushion trim
- 16. Seat cushion frame
- 19. Screw
- 22. Power seat switch
- 25. Slide & lifter switch knob
- 28. Seat cushion outer cover
- 31. Seat control unit
- 34. Seat cushion under cover

- 2. Clip (C101)
- 5. Inner stay
- 8. Headrest holder (free)
- 11. Seat cushion pad
- 14. Power seat harness
- 17. Seat cushion inner finisher
- 20. Bolt
- 23. Pedal adjusting switch
- 26. Lumbar support switch knob
- 29. Reclining device rod
- 32. Seat cushion front finisher
- 3. Nut А 6. Headrest Seatback frame 9. 12. Seatback trim В Nut 15. Reclining inner device 18. Reclining outer device 21. С 24. Reclining switch knob 27. Seat cushion outer finisher Seat lifter link slide assembly 30. D
- 33. Seat belt buckle

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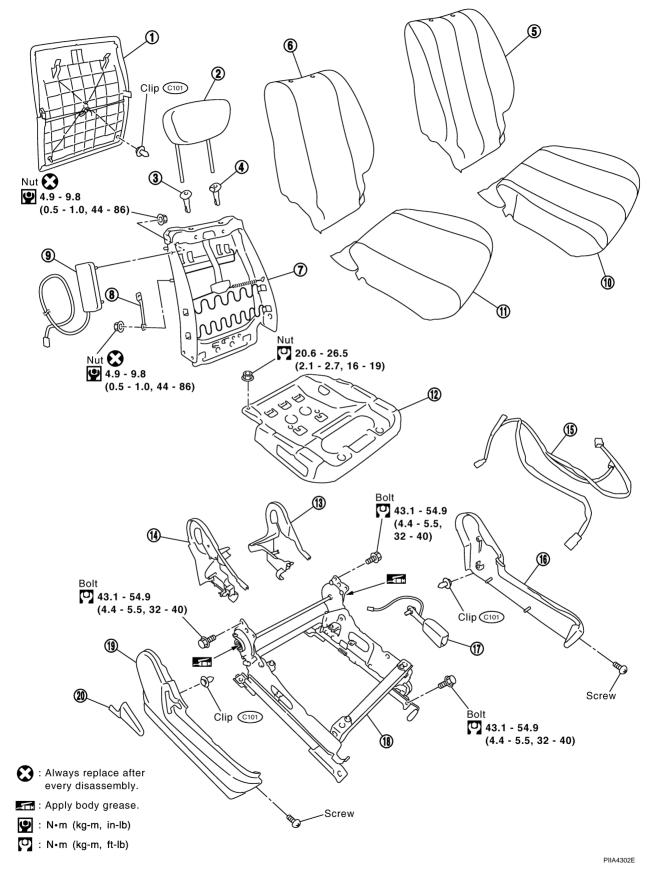
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#### PASSENGER SIDE MANUAL SEAT

SEC. 870



### **FRONT SEAT**

- 1. Seatback board
- 4. Headrest holder (locked)
- 7. Seatback frame
- 10. Seat cushion trim
- 13. Seat cushion inner cover
- 16. Seat cushion inner finisher
- 19. Seat cushion outer finisher
- 2. Headrest
- 5. Seatback trim
- 8. Inner stay
- 11. Seat cushion pad
- 14. Seat cushion outer cover
- 17. Seat belt buckle
- 20. Reclining lever knob

- Headrest holder (free)
- 6. Seatback pad

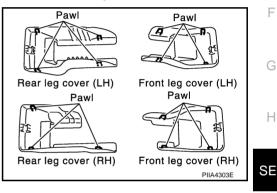
3

- 9. Side air bag module
- 12. Seat cushion frame
- 15. Seat harness
- 18. Seat slide assembly

REMOVAL

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

- Before removing the front seat, turn ignition switch OFF, disconnect both battery cables and wait and 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 installing in the seat. Always handle it with care.
- 1. Remove the front leg cover and rear leg cover (LH/RH).



#### NOTE:

- Slide the seat backward, and disconnect the front tabs on the front leg cover. Then move the cover J toward the rear of the vehicle, and pull up to remove.
- Slide the seat forward, then disengage the tabs on the front LH/RH of the rear leg cover and tabs engaged into the rail. Then pull the cover toward the rear of the vehicle.

2. Slide the seat until the body mounting bolts are visible and a tool can be inserted.

#### NOTE:

When disassembling the driver seat after removal, set the front/rear cushion lifter to the top position.

- 3. Remove the body mounting bolts.
- 4. Disconnect both battery cables.
- 5. Remove the harness connector for the side air bag module.
- 6. Remove the power seat harness connector and vehicle harness fixing clip out of the vehicle.

#### NOTE:

When removing and installing, using shop clothes, protect the parts from damage where it may interfere with others.

### INSTALLATION

Install in the reverse order of removal.

#### NOTE:

Be sure to insert the rear end tab of the rear leg cover under the rail.

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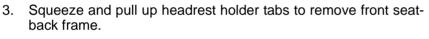
## SEATBACK TRIM AND PAD

# Removal NOTE:

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

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

2. Remove the retainer.

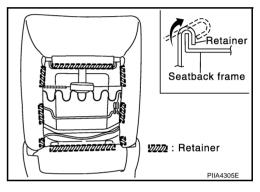


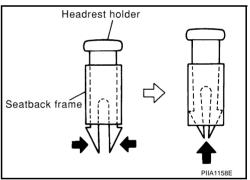
#### NOTE:

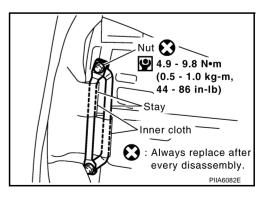
4.

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

Seatback board Hook







5. Remove the seat heater harness connector. After removing the seatback trim & pad, remove the hog ring to separate the trim, pad, and seatback heater unit.

#### Installation

Install in the reverse order of removal.

Remove the stay securing the inner cloth.

### **REMOVAL OF SEATBACK ASSEMBLY**

- 1. After completing the steps 1 and 2 of "SEATBACK TRIM AND PAD", remove the harness connectors for A the reclining motor and lumbar support motor (driver seat only).
- 2. Pull out the harness connector for the side air bag from the seat cushion.
- 3. Remove the reclining device mounting bolts on the seatback frame, and remove the seatback assembly. <sup>B</sup> **NOTE:**

When assembling the seatback frame, make sure that the reclining device are locked on both sides, and be sure to temporarily tighten the bolts, then tighten them finally.

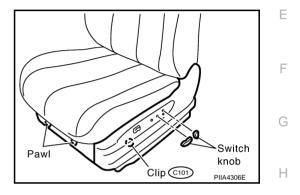
#### INSTALLATION OF SEATBACK ASSEMBLY

Install in the reverse order of removal.

### SEAT CUSHION TRIM AND PAD (POWER SEAT)

#### Removal

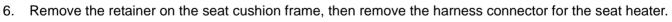
- 1. Remove the seat cushion front finisher.
- 2. Remove the power seat switch knob.
- 3. Remove the seat cushion outer finisher.



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- 4. Remove the power seat switch assembly.
- 5. Partially pull off the trim at the rear of the seat cushion forward, and remove the hog rings on the seat cushion pad.



7. After removing the seat cushion trim & pad, remove the hog rings to separate the trim and pad.

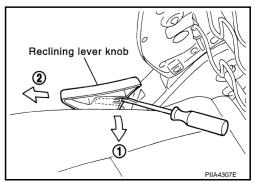
### Installation

Install in the reverse order of removal.

## SEAT CUSHION TRIM AND PAD (MANUAL SEAT)

### Removal

1. Pull up tabs of reclining lever inside. Slide knob forward to remove.



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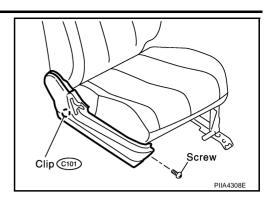
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Trim

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### FRONT SEAT

2. Remove the seat cushion outer finisher and inner finisher.

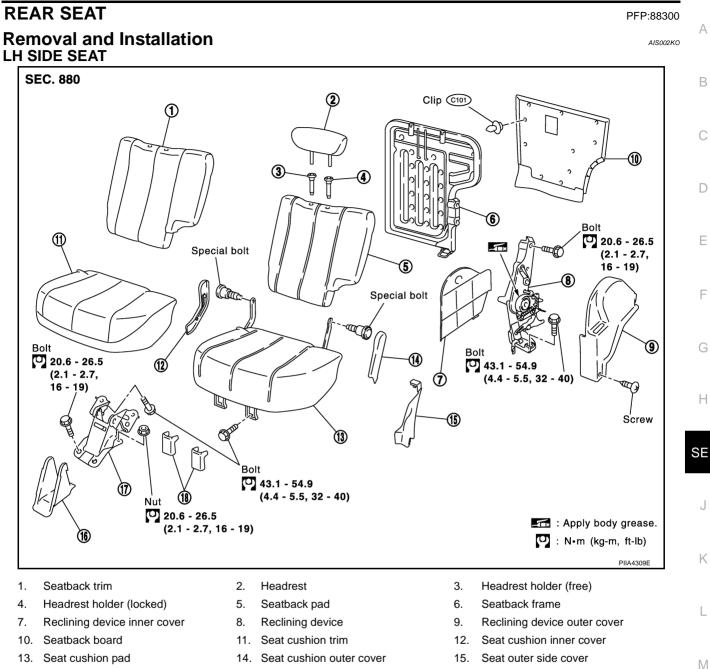


- 3. Remove bolts on the under side of seat cushion.
- 4. Remove hog ring from under seat cushion frame.
- 5. After removing the seat cushion trim & pad, remove the hog ring to separate the trim and pad.

#### Installation

Install in the reverse order of removal.

### **REAR SEAT**



- Seat cushion center bracket cover 16. (LH seat RH seat sharing)
- 14. Seat cushion outer cover
- Seat cushion center bracket 17. (LH seat RH seat sharing)
- Seat outer side cover
- 18. Leg cover

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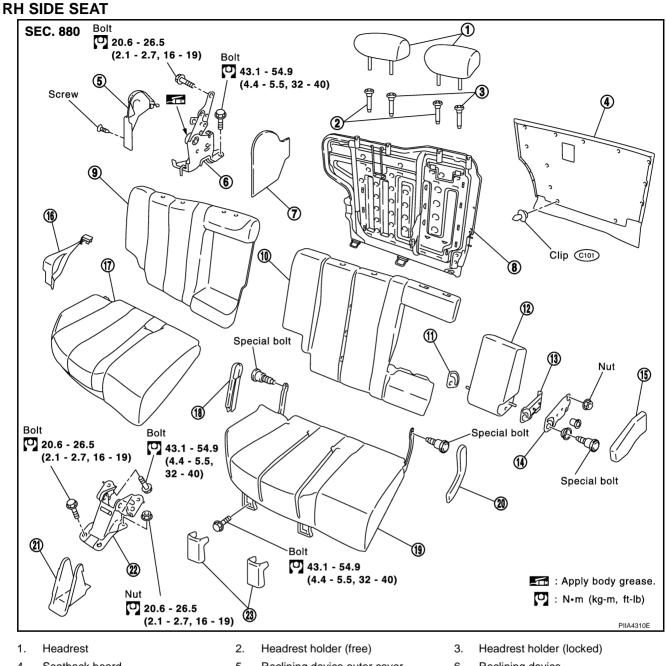
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### **REAR SEAT**



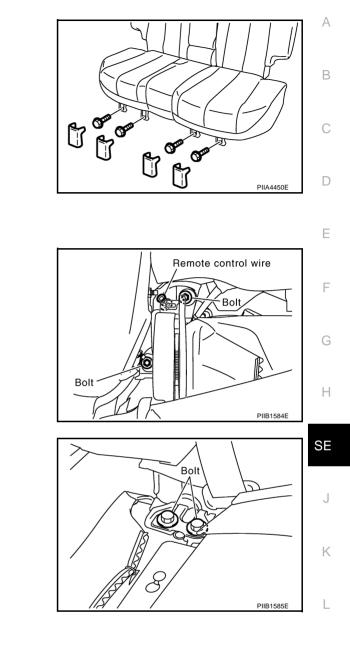
- 4. Seatback board
- 7. Reclining device inner cover
- 10. Seatback pad
- Armrest inner cover 13.
- 16. Seat outer side cover
- 19. Seat cushion pad
- Seat cushion center bracket 22. (LH seat RH seat sharing)

- 5. Reclining device outer cover
- 8. Seatback frame
- 11. Armrest inner bracket
- Armrest outer bracket 14.
- Seat cushion trim 17.
- 20. Seat cushion inner cover
- 23. Leg cover

- Reclining device 6.
- Seatback trim 9.
- 12. Armrest trim and pad
- 15. Armrest outer cover
- 18. Seat cushion outer cover
- Seat cushion center bracket cover 21.
- (LH seat RH seat sharing)

#### REMOVAL

- 1. Remove the leg cover.
- 2. Remove the seat mounting bolts.



- 3. Fold the seatback forward.
- 4. Remove the seat outer side cover.
- 5. Remove the seat mounting bolts.
- 6. Remove the remote control wire.

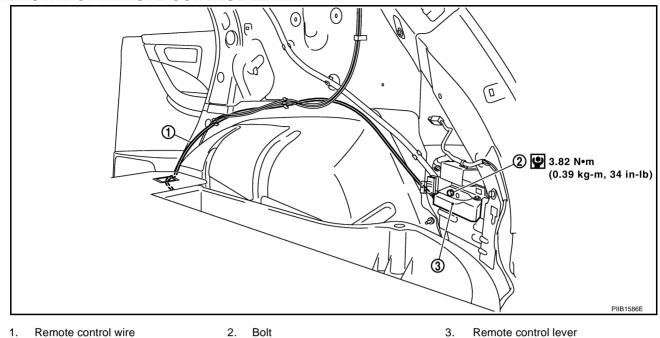
7. Remove the seat mounting bolts.

INSTALLATION

Install in the reverse order of removal.

### **REAR SEAT**

#### **REMOVAL OF REMOTE CONTROL LEVER**



- 1. Remove the rear seat. Refer to <u>SE-111, "REMOVAL"</u>.
- 2. Remove the luggage side finisher lower. Refer to EI-38, "Removal and Installation" .
- 3. Remove the remote control lever mounting bolt.
- 4. Remove the remote control lever assembly.

#### INSTALLATION OF REMOTE CONTROL LEVER

Install in the reverse order of removal.