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PRECAUTIONS PFP:00001

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

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

WARNING:

 To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.

 Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.

 Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

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- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a 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 PFP:00002

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
(J39570) Chassis ear	SIIAO993E	Locating the noise
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairing the cause of noise

Commercial Service Tools

NIS000RV

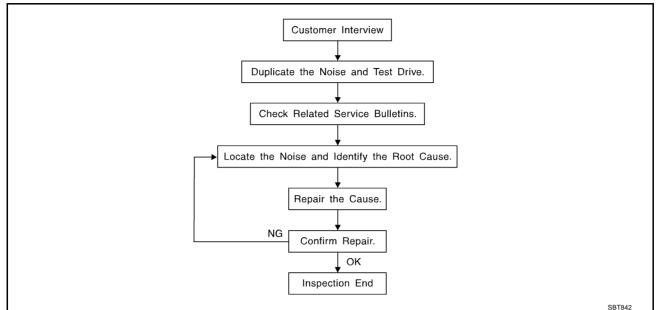
Tool name		Description
Engine ear	SIIA0995E	Locating the noise

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CUSTOMER INTERVIEW

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

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

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DUPLICATE THE NOISE AND TEST DRIVE

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

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J39570, 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</u>, "<u>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 (J43980) 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 (J43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm (3.94 \times 5.31 in)/76884-71L01: 60×85 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, 50×50 mm (1.97 \times 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97 \times 1.97 in)

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

 $68370-4B000: 15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad/}68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

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

SILICONE GREASE

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

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

- Shifter assembly cover to finisher
- A/C control unit and cluster lid C
- 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:

Revision: 2006 August

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J43980) to repair the noise.

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TRUNK

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

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

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

SUNROOF/HEADLINING

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

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

Diagnostic Worksheet

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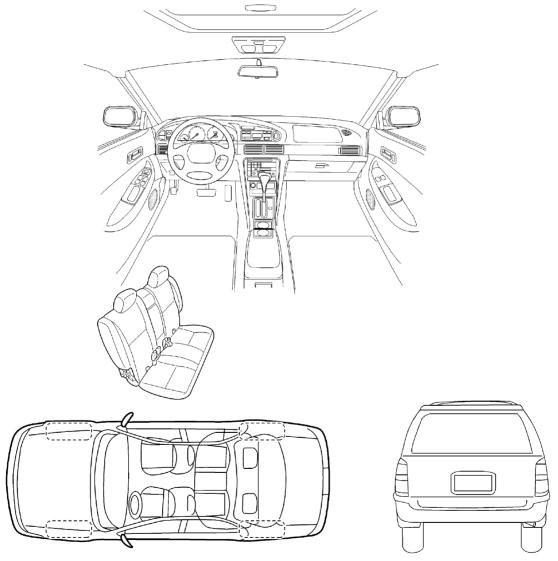
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti 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 véhicle.



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: WHEN DOES IT OCCUR? (check the boxes that apply) II. □ anvtime after sitting out in the sun ☐ 1st time in the morning ☐ when it is raining or wet ☐ only when it is cold outside ☐ dry or dusty conditions ☐ only when it is hot outside □ other: III. WHEN DRIVING: IV. WHAT TYPE OF NOISE? ☐ through driveways ☐ squeak (like tennis shoes on a clean floor) □ over rough roads ☐ creak (like walking on an old wooden floor) □ over speed bumps ☐ rattle (like shaking a baby rattle) ☐ only at about ____ mph ☐ knock (like a knock on a door) ☐ tick (like a clock second hand) ☐ on acceleration coming to a stop ☐ thump (heavy, muffled knock noise) □ buzz (like a bumble bee) ☐ on turns : left, right or either (circle) ☐ with passengers or cargo other: ☐ after driving miles or minutes TO BE COMPLETED BY DEALERSHIP PERSONNEL **Test Drive Notes:** Initials of person YES NO performing Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair VIN: ____ Customer Name: _____ W.O. #: _____ Date: ____

This form must be attached to Work Order

SBT844

AUTOMATIC DRIVE POSITIONER

PFP:28491

System Description

The system automatically moves the driver seat to facilitate entry/exit to/from the vehicle. The automatic drive positioner control unit can also store the optimum driving positions (driver seat) for 2 people. If the driver is changes, one-touch operation allows changing to the other driving position.

Using CONSULT-II, the seat slide amount at entry/exit setting can be changed.

MANUAL OPERATION

The driving position [seat position, steering wheel position (tilt, telescopic)] can be adjusted with the power seat switch or ADP steering switch.

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NOTE:

The seat can be manually operated with the ignition switch OFF.

AUTOMATIC OPERATION

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Function Memory switch operation		Description The seat, steering move to the stored driving position by pushing memory switch (1 or 2)	
Entry/Exiting function	Entry operation	At entry, the seat and steering wheel returns from the exiting position to the previous driving position.	
Keyfob interlock operation		Perform memory operation and exiting operation by pressing keyfob unlock button.	

NOTE:

• Disconnecting the battery erases the stored memory.

- After connecting the battery, insert the key into the ignition cylinder and turn the driver door switch ON (open)→OFF (close)→ON (open), the Entry/ Exiting operation becomes possible.
- After exiting operation is carried out, entry operation can be operated.

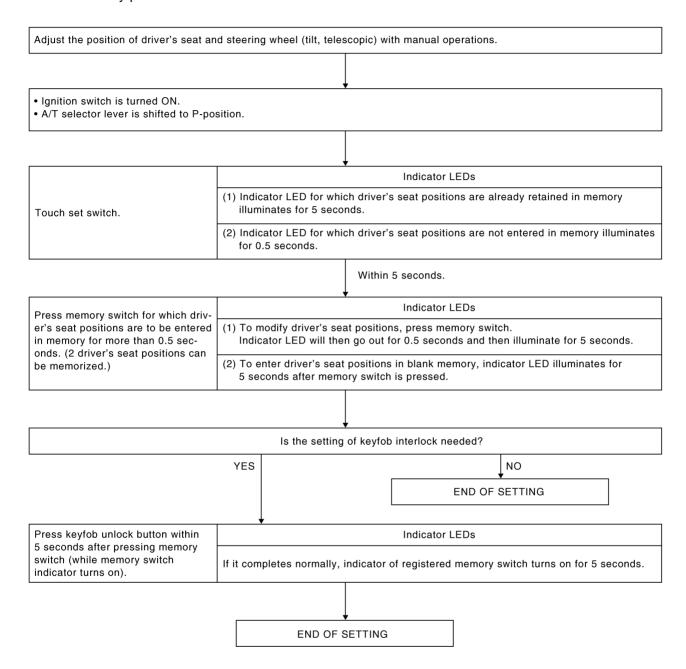
Auto operation temporary stop conditions.	When ignition switch turned to START during memory switch operation and return oper ation, memory switch operation and entry operation is stopped.
	When the vehicle speed becomes 7 km/h (4 MPH) or higher.
	When the setting switch, memory switch 1, or 2 are pressed.
Auto operation stop conditions.	When A/T selector lever is in any position other than P.
	When power seat switch turned ON.
	When ADP steering switch turned ON (telescopic operation or tilt operation).
	When driver seat sliding Entry/Exiting setting is OFF (only entry/exiting operation).
	 When steering wheel tilt and telescopic Entry/Exiting setting is OFF (only entry/exiting operation).
	When the tilt and telescopic sensor malfunction is detected.

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

MEMORY STORING AND KEYFOB INTERLOCK STORING

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



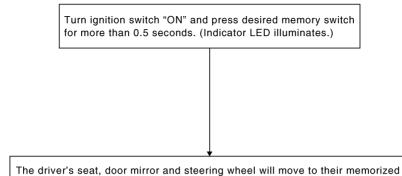
PIIB3489E

NOTE:

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

MEMORY SWITCH OPERATION

Selecting the memory



positions. (During adjustments, indicator LED flashes, then illuminates for 5

PIIA6137E

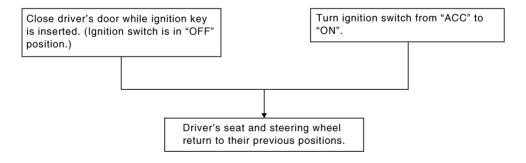
NOTE:

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

Priority	Function	Priority	Function
1	Seat sliding	4	Seat reclining
2	Steering wheel telescoping	5	Seat lifter-FR
3	Steering wheel tilt	6	Seat lifter-RR

ENTRY OPERATION

When the seat are on the exiting positions, the following operation moves the seat to the previous position before the exiting operation.

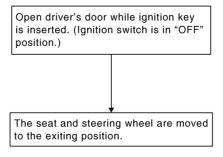


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EXITING OPERATION

At exit, the seat are automatically moved to the exiting position.

seconds after adjustment.)



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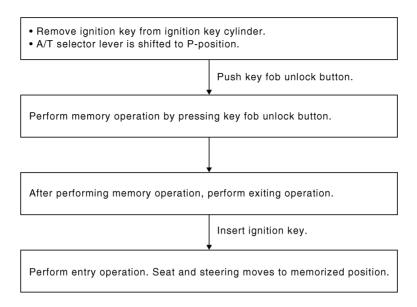
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KEYFOB INTERLOCK OPERATION

Perform memory operation, exiting operation and entry operation by pressing keyfob unlock button.



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NOTE:

- If steering wheel operation is cancelled, the system performs seat and mirror operation only.
- If Entry/Exiting operation is cancelled, the system performs steering wheel operation and mirror 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.

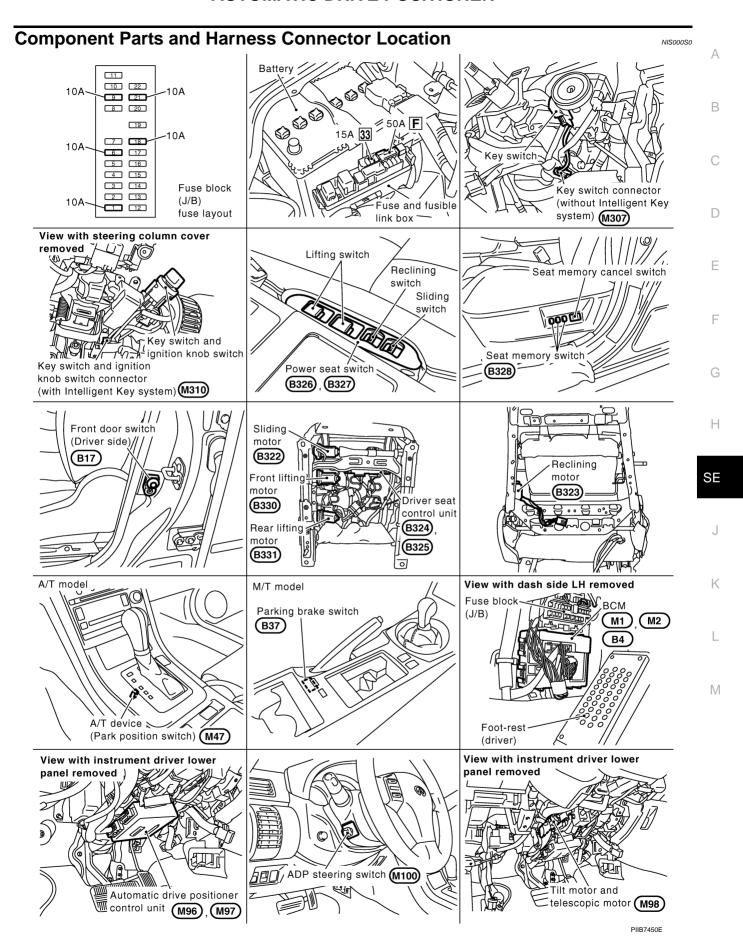
FAIL-SAFE MODE

When any manual and automatic operations are not performed, if any motor operations of seats or tilt of steering are detected for approx. 0.1 sec or more, status is judged "Output malfunction". Motor operation will be suspended automatically, and all automatic operations will be ineffective (in this case, the motor will not operate manually).

OPERATED PORTION	Seat sliding
	Seat reclining
	Seat lifting (Front)
	Seat lifting (Rear)
	Steering tilt
	Steering telescopic

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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CAN Communication System Description

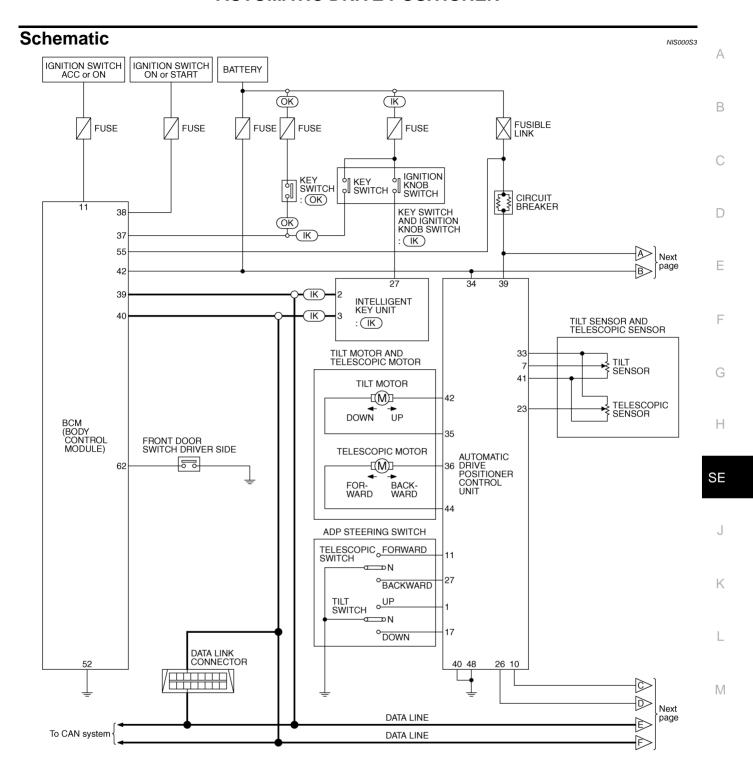
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CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped 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

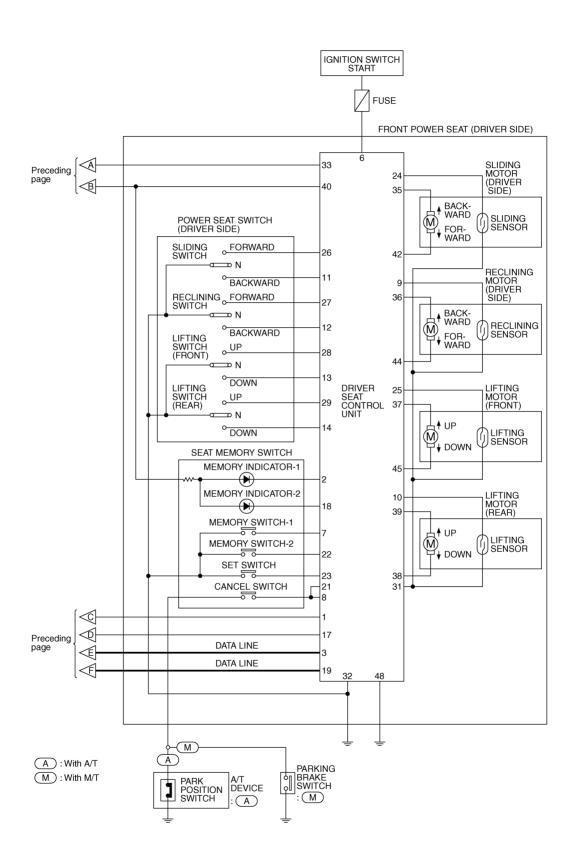
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Refer to LAN-27, "CAN Communication Unit".

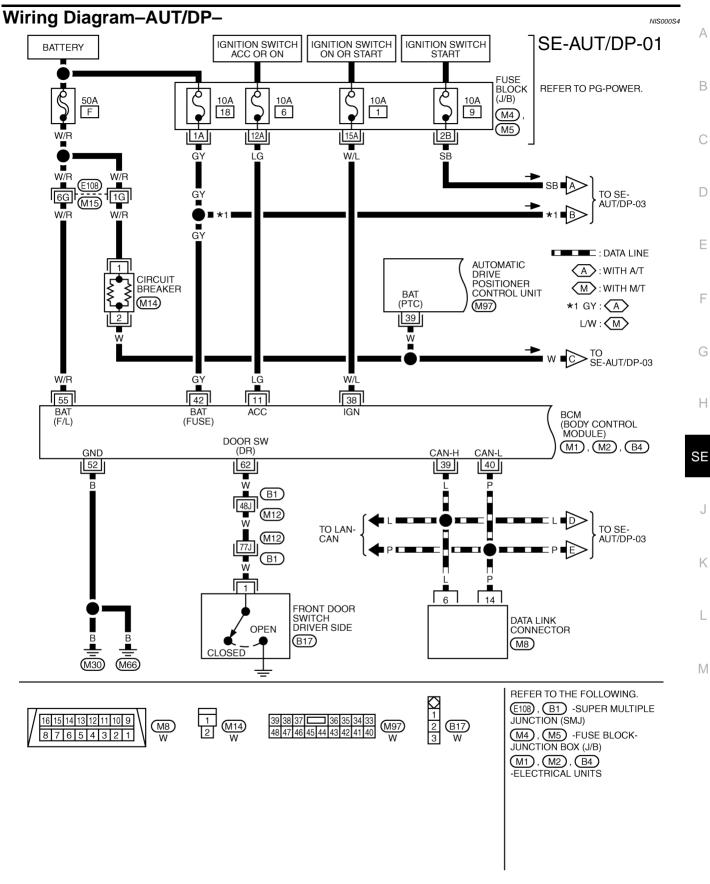


IK : With Intelligent Key
OK : Without Intelligent Key

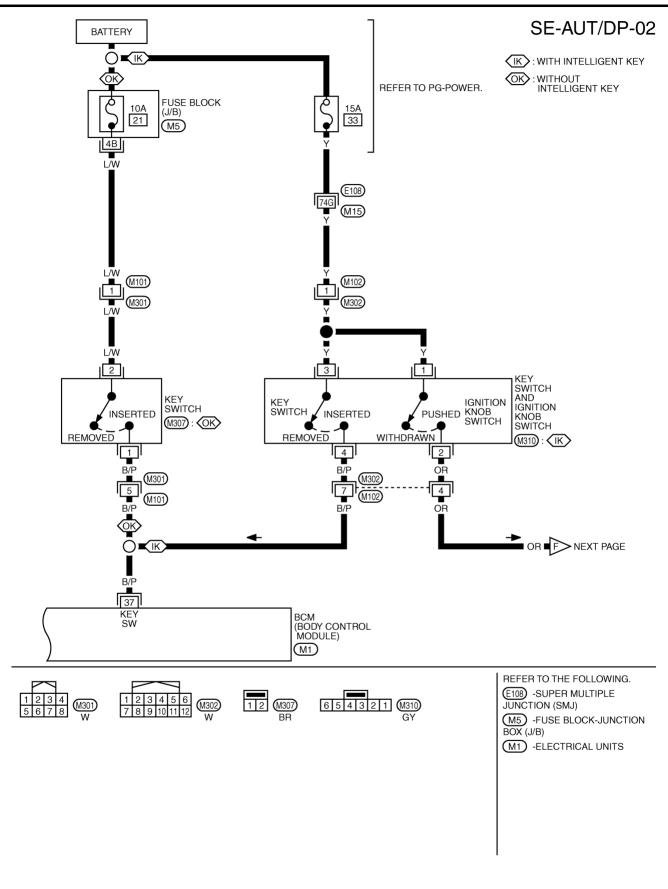
TIWM1453E



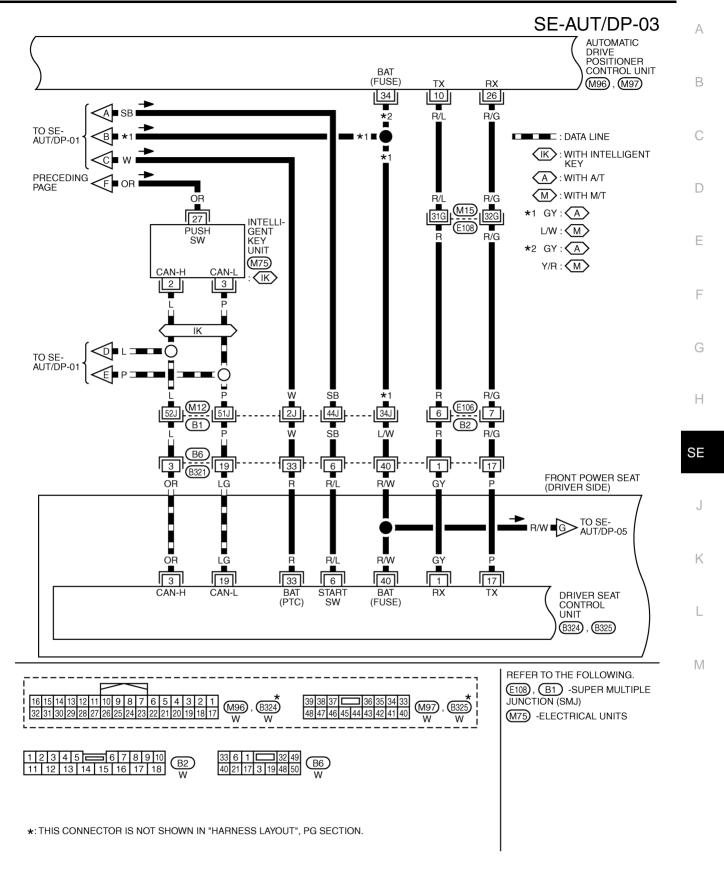
TIWM1093E



TIWM1454E

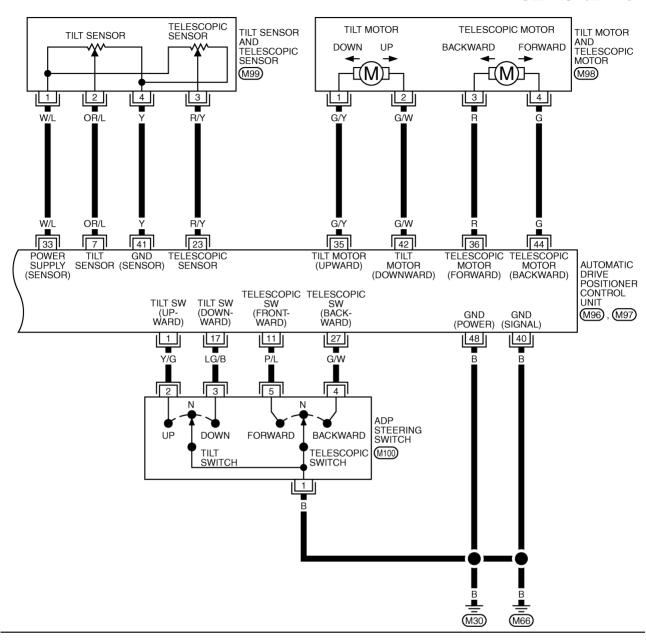


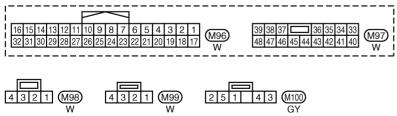
TIWM1455E



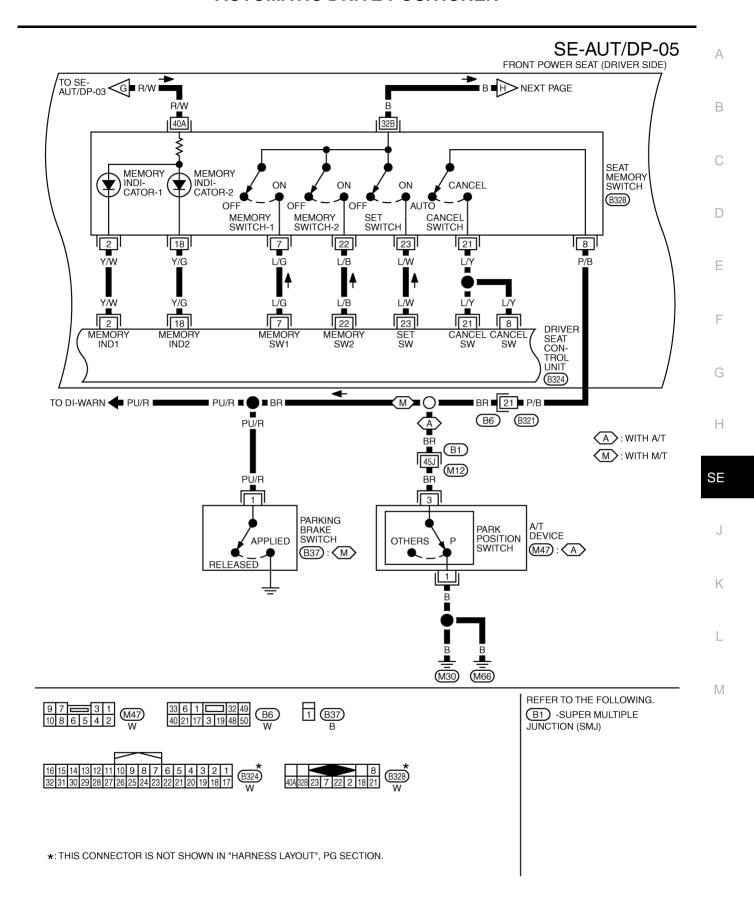
TIWM1456E

SE-AUT/DP-04



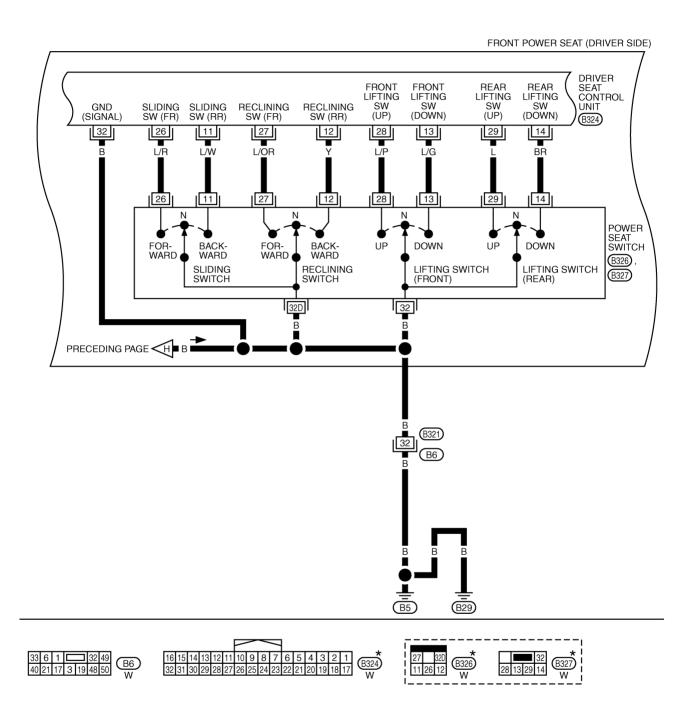


TIWM1097E



TIWM1457E

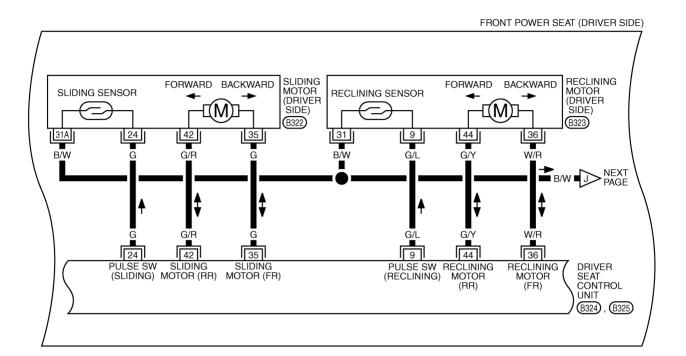
SE-AUT/DP-06



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

TIWM1099E

SE-AUT/DP-07



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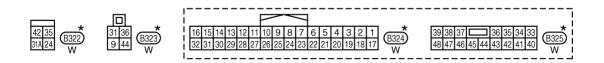
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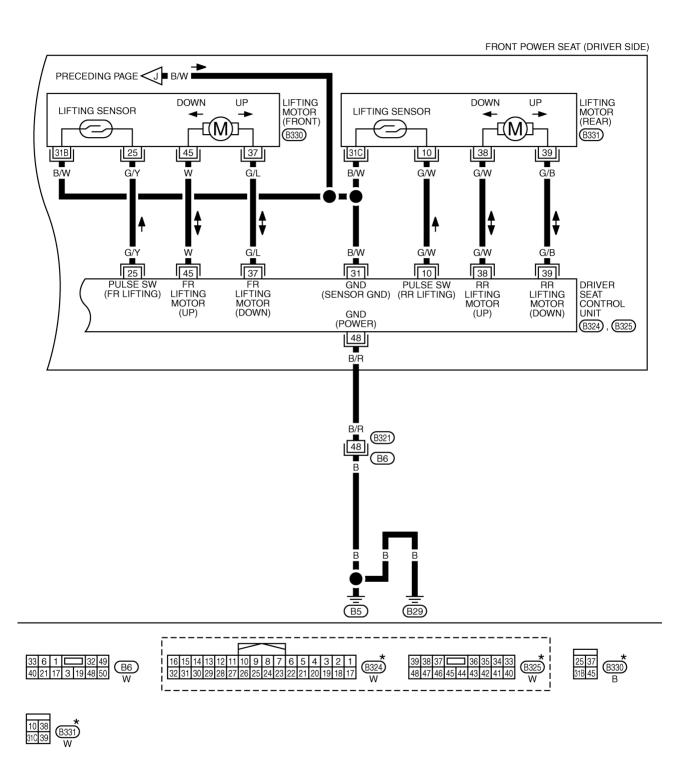
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*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWM1101E

SE-AUT/DP-08



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

TIWM1102E

Terminals and Reference Values for BCM				NIS000S5
TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
11	LG	Ignition switch (ACC)	Ignition switch (ACC or ON position)	Battery voltage
37 B/P F	Key switch signal	Key switch ON (key is inserted in ignition key cylinder)	Battery voltage	
		Key switch OFF (key is removed from ignition key cylinder)	0	
38	W/L	Ignition switch (ON)	Ignition switch (ON or START position)	Battery voltage
39	L	CAN-H	_	_
40	Р	CAN-L	_	_
42	GY	Power source (Fuse)	_	Battery voltage
52	В	Ground	_	0
55	W/R	Power supply (Fusible link)	_	Battery voltage
62	W	Front door switch (driver side)	ON (Open) → OFF (Closed)	0 → Battery voltage

Terminals and Reference Values for Automatic Drive Positioner Control Unit

				NIS000S6
TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
	V/O	Tile and the LIDWARD airead	Tilt switch turned to upward	0
1	Y/G	Tilt switch UPWARD signal	Other than above	5
7	OD/I	Tilt annual signal	Tilt position, top	1
7	OR/L	Tilt sensor signal	Tilt position, bottom	4
10	R/L	UART LINE (TX)	Memory switch 1 or 2 operated	(V) 6 4 2 0 1 ms
11	P/L	Telescopic switch	Telescopic switch turned to forward	0
11	P/L	FORWARD signal	Other than above	5
47	L C/D	LG/B Tilt switch DOWNWARD signal	Tilt switch turned to downward	0
17	LG/B		Other than above	5
22	504 71 1 1	Telescopic position, top	0.4	
23	R/Y	Telescopic sensor input	Telescopic position, bottom	0.6
26	R/G	UART LINE (RX)	Memory switch 1 or 2 operated	(V) 6 4 2 0 2 ms
27	G/W	Telescopic switch	Telescopic switch turned to backward	0
	BACKWARD signal	Other than above	Other than above	5
33	W/L	Sensor power supply	_	5

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TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)		
34	GY ^{*1} or Y/R* ²	Power source (Fuse)	_	Battery voltage		
35	G/Y	Tilt motor UPWARD signal	Tilt switch turned to upward	Battery voltage		
33	G/1	Till Holor OF WARD Signal	Other than above	0		
26	36 R	Б	D	Telescopic motor	Telescopic switch turned to forward	Battery voltage
30		FORWARD signal	OFF	0		
39	W	Battery power supply	_	Battery voltage		
40	В	Ground (signal)	_	0		
41	Y	Sensor ground	_	0		
42	G/W	Tilt motor DOWNWARD signal	Tilt switch turned to downward	Battery voltage		
42	G/VV	The motor bownward signal	Other than above	0		
44	G	Telescopic motor BACKWARD signal	Telescopic switch turned to backward	Battery voltage		
		DACKWAIND SIGNAL	Other than above	0		
48	В	Ground (power)		0		

^{*1:} With A/T

Terminals and Reference Values for Driver Seat Control Unit

NIS000S7

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
1	GY	UART LINE (RX)	Memory switch 1 or 2 switch operated	(V) 6 4 2 0 1 ms
2	Y/W	Power seat memory switch	Memory switch 1: ON	1
2	indictor 1 signal		Memory switch 2: OFF	Battery voltage
3	OR	CAN-H	_	_
6	R/L	Ignition switch (START)	Ignition switch (START position)	Battery voltage
7	L/G	Power seat memory switch 1	Memory switch 1: ON	0
,	L/G	signal	Memory switch 1: OFF	5
8	L/Y	Cancel switch signal	Cancel switch: CANCEL	0
O	L/ I	Cancer switch signal	Cancel switch: AUTO	5
9	G/L	Reclining sensor signal	ON (reclining motor operation)	(V) 6 4 2 0 ****50ms
			Other than above	0 or 5

^{*2 :} With M/T

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)	Δ
10	G/W	Rear lifting sensor signal	ON (rear lifting motor operation)	(V) 6 4 2 0 	E
			Other than above	0 or 5	
11	L/W	Seat sliding switch	When seat sliding switch BACKWARD operation	0	
		BACKWARD signal	Other than above	Battery voltage	
12	Y	Seat reclining switch BACKWARD signal	When seat reclining switch BACKWARD operation	0	E
		BACKWARD Signal	Other than above	Battery voltage	
13	L/G	Front lifting switch DOWN signal	When front lifting switch DOWN operation	0	F
		DOWN Signal	Other than above	Battery voltage	
14	BR	Rear lifting switch DOWN signal	When rear lifting switch DOWN operation	0	
		DOWN signal	Other than above	Battery voltage	-
17	Р	UART LINE (TX)	Memory switch 1 or 2 operated	(V) 6 4 2 0 2 ms	SI
		Power seat memory switch	Memory switch 2: ON	1	
18	Y/G	indictor 2 signal	Memory switch 2: OFF	Battery voltage	k
19	LG	CAN-L	_	_	ľ
21	L/Y	Cancel switch signal	Cancel switch: CANCEL	0	
۷1	L/ I	Carloot Switch Signal	Cancel switch: AUTO	5	
22	L/B	Power seat memory switch 2	Memory switch 2: ON	0	
	20	signal	Memory switch 2: OFF	5	
23	L/W	Set switch signal	Set witch: ON	0	- 1
		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Set witch: OFF	5	
24	G	Seat sliding sensor signal	ON (sliding motor operation)	(V) 4 2 0 50 ms	
			Other than above	0 or 5	

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TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
25 G/Y		Front lifting sensor signal	ON (front lifting motor operation)	(V) 6 4 2 0 ***50ms
			Other than above	0 or 5
26	L/R	Seat sliding switch FORWARD signal	When seat sliding switch FORWARD operation	0
		T GTTT IT GIGITAL	Other than above	Battery voltage
27	L/OR	Seat reclining switch FORWARD signal	When seat reclining switch FORWARD operation	0
			Other than above	Battery voltage
28	L/P	Front lifting switch UP signal	When front lifting switch UP operation	0
			Other than above	Battery voltage
29	29 L	Rear lifting switch UP signal	When rear lifting switch UP operation	0
			Other than above	Battery voltage
31	B/W	Sensor ground	_	0
32	В	Ground (signal)	_	0
33	R	Power source	When aliding mater	Battery voltage
35	G	Sliding motor FORWARD signal	When sliding motor FORWARD operation	Battery voltage
			Other than above	0
36	W/R	Reclining motor FORWARD signal	When reclining motor FORWARD operation	Battery voltage
		-	Other than above	0
37	G/L	Front lifting motor DOWN signal	When front lifting motor DOWN operation	Battery voltage
		2 0 1111 o.ig.r.a.	Other than above	0
38	G/W	Rear lifting motor UP signal	When rear lifting motor UP operation	Battery voltage
			Other than above	0
39	G/B	Rear lifting motor DOWN signal	When rear lifting motor DOWN operation	Battery voltage
		_ J TTT Signal	Other than above	0
40	R/W	Power source (Fuse)	_	Battery voltage
42	G/R	Sliding motor BACKWARD signal	When sliding motor BACKWARD operation	Battery voltage
			Other than above	0
44	G/Y	Reclining motor BACKWARD signal	When reclining motor BACKWARD operation	Battery voltage
			Other than above	0
45	W	Front lifting motor UP output signal	When front lifting motor UP operation	Battery voltage
			Other than above	0
48	B/R	Ground (power)	_	0

Work Flow NIS000S8

- Check the symptom and customer's requests.
- Understand the system description. Refer to SE-11, "System Description" .
- Perform the preliminary check, refer to SE-31, "Preliminary Check". 3.
- 4. Perform the CAN communication inspection using CONSULT-II, refer to SE-34, "CONSULT-II Function (AUTO DRIVE POS.)".
- Perform the self-diagnosis. Refer to SE-38, "Check Can Communication System Inspection".
- Repair or replace depending on the self-diagnostic results.
- Based on the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to SE-38, "Symptom Chart".
- Does the automatic drive positioner system operate normally? If it is normal, GO TO 8. If it is not normal, GO TO 3.
- 9. INSPECTION END

Preliminary Check SETTING CHANGE FUNCTION

NISOOOSS

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

x: Applicable -: Not applicable

			A. Applicable —. No	n applicable
Setting item	Content	CONSULT-II (WORK SUPPORT)	Display unit	Factory setting
	The distance at retain operation	40 mm		×
Change seat sliding volume setting	can be selected from the following	80 mm	_	_
g	3 modes.	150 mm		_
Change the Entry/Exit seat	The seat sliding turnout and return	ON	ON: Indicator lamp ON	×
slide function setting	at entry/exit can be selected: ON (operated) – OFF (not operated)	OFF	OFF: Indicator lamp OFF	_
	Lift up and backward steering	ON	ON: Indicator lamp ON	×
Change the Entry/Exit tilt steering wheel function setting	wheel at entry and exit can be selected: ON (operated) - OFF (not operated)	OFF	OFF: Indicator lamp OFF	_
Reset custom settings	All settings to default.	_	Default: Setting button OFF	_

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 steering wheel up/backward at entry/exit can be operated.	Press the set switch for more than 10 seconds	Blinking twice
The seat sliding turnout and steering wheel up/backward at entry/exit can be not operated.	Tress the set switch for more than to seconds	Blinking ones

NOTE:

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

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CHECK POWER SUPPLY AND GROUND

1. CHECK FUSE

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

- Check 50A fusible link (letter F, located in the fuse and fusible link box.)
- Check 10A fuse [No.18, located in the fuse block (J/B)]
- Check 10A fuse [No.1, located in the fuse block (J/B)]
- Check 10A fuse [No.6, located in the fuse block (J/B)]

NOTE:

NG

Refer to SE-15, "Component Parts and Harness Connector Location".

OK or NG

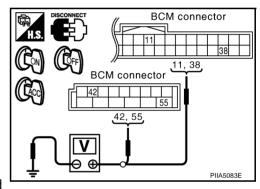
OK >> GO TO 2.

>> If fuse is blownout, be sure to eliminate cause of malfunction before installing new fuse. Refer to SE-15, "Component Parts and Harness Connector Location".

2. CHECK POWER SUPPLY CIRCUIT (BCM)

- Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- Check voltage between BCM connector and ground.

Connector	Terminals (Wire color)		Ignition	Voltage (V)	
Connector	(+)	(-)	switch	(Approx.)	
M1	11 (LG)		ACC	Battery voltage	
IVI I	38 (W/L)	Ground	ON		
M2	42 (GY)	Giodila	OFF	Battery voltage	
	55 (W/R)		OFF		



OK or NG

OK >> GO TO 3.

NG >> Check harness for open and short between BCM and fuse or fusible link.

3. CHECK GROUND CIRCUIT (BCM)

- 1. Turn ignition switch OFF.
- 2. Check continuity between BCM connector M2 terminal 52 and ground.

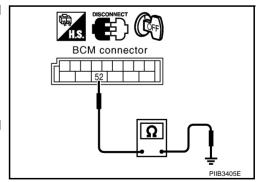
: Continuity should exist.

OK or NG

NG

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

>> Repair or replace the harness between BCM and ground.



4. CHECK FUSE

• Check 10A fuse [No.9, located in fuse block (J/B)].

NOTE:

Refer to SE-15, "Component Parts and Harness Connector Location".

OK or NG

OK >> GO TO 5.

NG >> If fuse is blownout, be sure to eliminate cause of malfunction before installing new fuse. Refer to SE-15, "Component Parts and Harness Connector Location".

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

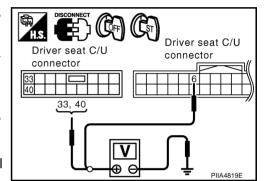
- 1. Disconnect driver seat control unit connector.
- 2. Check voltage between driver seat control unit and ground.

Connector	Terminals (Wire color)		Ignition	Voltage (V)	
Connector	(+)	(-)	switch	(Approx.)	
B324	6 (R/L)		START		
B325	33 (R)	Ground	OFF	Battery voltage	
B323	40 (R/W)		OFF		

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)

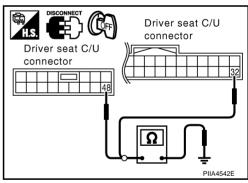
- 1. Turn ignition switch OFF.
- Check continuity between the driver seat control unit connector B324, B325 terminal 32, 48 and ground.

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

OK or NG

OK >> GO TO 7.

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



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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 and ground.

Connector	Terminals (Wire color)		Ignition	Voltage (V)
	(+)	(–)	switch	(Approx.)
M97	34 (GY ^{*1} or Y/R* ²)	Ground	OFF	Battery voltage
	39 (W)			

^{*1:} With A/T

OK or NG

OK >> GO TO 8.

NG >> Repair or replace harness between automatic drive positioner 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 M97 terminal 40, 48 and ground.

40 (B) – Ground

: Continuity should exist.

48 (B) - Ground

: Continuity should exist.

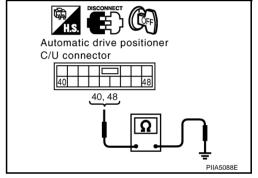
OK or NG

OK

>> Driver seat control unit circuit is OK.

NG

>> Repair or replace harness between automatic drive positioner control unit and ground.



Automatic drive positioner C/U connector

34, 39

CONSULT-II Function (AUTO DRIVE POS.)

NIS000SA

PIIR3406F

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

CONSULT-II diagnosis items	Inspection item, self-diagnosis mode		Content	Reference page
	WORK SUPPORT*1		Changes the setting for each function.	_
	SELF-DIG RESULTS	S	Check the self-diagnosis results.	<u>SE-35</u>
AUTO DRIVE POSITIONER	DATA MONITOR	Selection from menu	Displays the input data to driver seat control unit and automatic driving positioned control unit on real-time basis.	<u>SE-36</u>
TOOTHONER	CAN DIAG SUPPORT MONITOR		The results of transmit / receive diagnosis of CAN communication can be read	<u>LAN-15</u>
	ACTIVE TEST*2		Gives a drive signal to a load to check the operation.	<u>SE-37</u>
	ECU PART NUMBER		Displays driver seat control unit part No.	_
ВСМ	DATA MONITOR	Selection from menu	Displays the input data to BCM on real-time basis	<u>BL-37</u>

^{*1:} For setting automatic drive positioner functions only.

CONSULT-II INSPECTION PROCEDURE

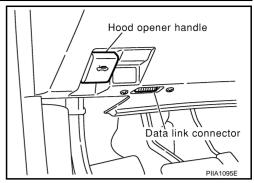
CAUTION:

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.

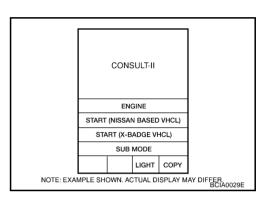
^{*2:} With M/T

^{*2:} During vehicle driving, do not perform active test.

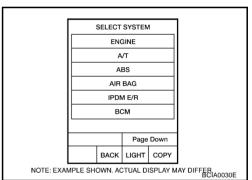
- 1. Turn ignition switch "OFF".
- Connect "CONSULT-II" and "CONSULT-II CONVERTER" to the data link connector.



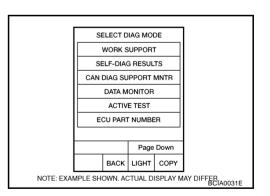
- Turn ignition switch "ON".
- 4. Touch "START (NISSAN BASED VHCL)".



Touch "AUTO DRIVE POS" and "BCM".
 If "AUTO DRIVE POS." is not indicated, refer to GI-39, "CON-SULT-II Data Link Connector (DLC) Circuit".



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



SELF-DIAGNOSIS RESULTS Display Item List

CONSULT-II display	Item	em Malfunction is detected when	
CAN COMM CIRC [U1000]	CAN communication	Malfunction is detected in CAN communication.	<u>SE-38</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-39</u> <u>SE-48</u>

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CONSULT-II display	Item	Malfunction is detected when	Reference page
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-41</u> <u>SE-49</u>
SEAT LIFTER FR [B2114]	Seat lifting FR motor	When any manual and automatic operations are not performed, if any motor operations of seat lifting FR is detected for 0.1 second or more, status is judged "Output error".	<u>SE-42</u> <u>SE-50</u>
SEAT LIFTER RR [B2115]	Seat lifting RR motor	When any manual and automatic operations are not performed, if any motor operations of seat lifting RR is detected for 0.1 second or more, status is judged "Output error".	<u>SE-44</u> <u>SE-51</u>
TILT OUTPUT [B2116]	Tilt motor	When any manual and automatic operations are not performed, if any motor operations of seat tilt is detected for 0.1 second or more, status is judged "Output error".	<u>SE-46</u>
TILT SENSOR [B2118]	Tilt sensor	When tilt sensor detects 0.1V or lower, or 4.9V or higher, for 0.5 seconds or more.	<u>SE-53</u>
TELESCO SEN- SOR [B2119]	Telescopic sensor	When telescopic sensor detects 0.1V or lower, or 4.9V or higher, for 0.5 seconds or more.	<u>SE-52</u>
DETENT SW [B2126]	Detente SW	With the A/T 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-67</u>
PARKING BRAKE [B2127]	Parking brake	With parking brake use (Parking brake switch ON), if a vehicle speed of 7km/h (4MPH) or higher is input, the parking brake switch input system is judged malfunctioning.	<u>SE-69</u>
UART COMM [B2128]	UART communica- tion	Malfunction is detected in UART communication.	<u>SE-77</u>

NOTE:

- The displays of CAN communication and P range 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 P range switch count error detection frequency occurred after erase history to "1-127".
- If error was detected in the past, error detection frequency from memory erase to the present is displayed on "TIME".
- If error has never been detected, nothing is displayed on "TIME".
- Can clear the detected memory.
 Normal: Clear memory in normal condition, history is erased and nothing is displayed on "TIME".
 Error: Clear memory in error condition, error is detected again and "1" is displayed on "TIME".

DATA MONITOR

Selection from Menu

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

Monitor item [OPERATION	ON or UNIT]	Contents
TELESCO SW-FR	"ON/OFF"	ON/OFF status judged from the telescoping switch (FR) signal is displayed.
TELESCO SW-RR	"ON/OFF"	ON/OFF status judged from the telescoping switch (RR) signal is displayed.
TILT SW-UP	"ON/OFF"	ON/OFF status judged from the tilt switch (UP) signal is displayed.
TILT SW-DOWN	"ON/OFF"	ON/OFF status judged from the tilt switch (DOWN) signal is displayed.
SET SW	"ON/OFF"	ON/OFF status judged from the setting switch 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 RULSE	_	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.
TILT SEN	"V"	The tilt position (voltage) judged from the tilt sensor signal is displayed.
TELESCO SEN	"V"	The telescoping position (voltage) judged from the telescoping sensor signal is displayed.
PARK BRAKE SW	"ON/OFF"	"ON/OFF" status from the parking brake switch signal is displayed.

ACTIVE TEST

CAUTION:

During vehicle driving, do not perform active test.

NOTE:

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

Display Item List

Test item	Description
TILT MOTOR	The tilt motor is activated by receiving the drive signal.
TELESCO MOTOR	The telescopic motor is activated by receiving the drive signal.
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.
MEMORY SW INDCTR	The memory switch indicator is lit by receiving the drive signal.

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Check Can Communication System Inspection

NIS000SB

1. CHECK SELF-DIAGNOSTIC RESULT

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.

(II) With CONSULT-II

- 1. Connect CONSULT-II, and turn ignition switch ON.
- 2. Touch "AUTO DRIVE POS" on "SELECT SYSTEM" screen.
- 3. Touch "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
- 4. Check display content in self-diagnostic results.

Displayed U1000?

Yes >> GO TO LAN-3, "Precautions When Using CONSULT-II".

No >> Inspection END.

Symptom Chart

NIS000SC

Symptom	Diagnoses / service procedure	Reference page
	Check sliding motor circuit	<u>SE-39</u>
	2. Check reclining motor circuit	<u>SE-41</u>
A part of seat system does not operate (both automati-	3. Check front lifter motor circuit	SE-42
cally and manually).	4. Check rear lifter motor circuit	<u>SE-44</u>
	If the above systems are normal, replace the driver seat control unit.	<u>SE-15</u>
	1.Check tilt motor circuit	SE-46
A part of steering tilt and telescopic does not operate	2. Check telescopic motor circuit	SE-45
(both automatically and manually).	3. If the above systems are normal, replace the automatic drive positioner control unit.	<u>SE-15</u>
	Check sliding sensor circuit	SE-48
	2. Check reclining sensor circuit	SE-49
A part of seat system does not operate (only automatic	3. Check front lifting sensor circuit	SE-50
operation).	Check rear lifting sensor circuit	<u>SE-51</u>
	5. If the above systems are normal, replace the driver seat control unit.	SE-15
	Check park position switch (P range switch) circuit (A/T models)	<u>SE-67</u>
	2. Check parking brake switch circuit	SE-69
	Check key switch and ignition knob switch circuit (with intelligent key)	<u>SE-70</u>
All the automatic operations do not operate.	4. Check key switch circuit (without intelligent key)	<u>SE-71</u>
	5. Check UART communication line circuit	<u>SE-77</u>
	6. Check tilt sensor circuit	SE-53
	7. Check telescopic sensor circuit	SE-52
	If all the above systems are normal, replace the automatic drive positioner control unit.	<u>SE-15</u>

Symptom	Diagnoses / service procedure	Reference page
	Check sliding switch circuit	<u>SE-57</u>
	2. Check reclining switch circuit	<u>SE-58</u>
A part of seat system does not operate (only manual	3. Check front lifting switch circuit	<u>SE-60</u>
operation).	4. Check rear lifting switch circuit	<u>SE-61</u>
	5. If the above systems are normal, replace the driver seat control unit.	<u>SE-15</u>
	1. Check tilt switch	<u>SE-65</u>
A part of steering tilt and telescopic do not operate (only	2. Check telescopic switch	<u>SE-63</u>
manual operation).	3. If the above systems are normal, replace the automatic drive positioner control unit.	<u>SE-15</u>
Only past manner, and act assistable analysis of account	Check seat memory and set switch circuit	<u>SE-73</u>
Only seat memory and set switch operation does not operate.	If the above systems are normal, replace the driver seat control unit.	<u>SE-15</u>
Only and many and an included a section of a section of	Check seat memory cancel switch circuit	<u>SE-74</u>
Only seat memory cancel switch operation does not operate.	If the above systems are normal, replace the driver seat control unit.	<u>SE-15</u>
	Check seat memory indicator lamp circuit	<u>SE-75</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-15</u>
The Entry/Exiting does not operated when door is opened	1.Check front door switch (driver side) circuit	<u>SE-55</u>
and closed. (The Entry/Exiting operates with key switch)	2. If all the above systems are normal, replace the BCM	<u>SE-15</u>
Only steering system does not operated	Check tilt sensor and telescopic sensor power supply and ground circuit	<u>SE-54</u>
Only seat sliding and reclining operation does not operation	Check sliding and reclining switch ground circuit	<u>SE-62</u>
Only seat lifting (front and rear) operation does not operation	Check lifting switch (front and rear) ground circuit	<u>SE-63</u>

Check Sliding Motor Circuit

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.

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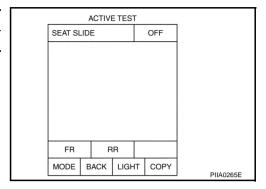
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$\overline{2}$. CHECK FUNCTION

(P) With CONSULT-II

Check operation with "SEAT SLIDE" in ACTIVE TEST.

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



(R) Without CONSULT-II

GO TO 3.

OK or NG

OK >> Sliding motor circuit is OK.

NG >> GO TO 3.

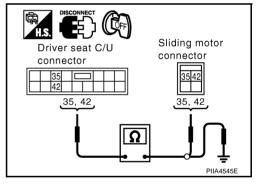
3. CHECK SLIDING MOTOR HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector and sliding motor connector.
- 3. Check continuity between driver seat control unit connector B325 terminals 35, 42 and sliding motor connector B322 terminals 35, 42.

35 (G) – 35 (G) : Continuity should exist. 42 (G/R) – 42 (G/R) : Continuity should exist.

4. Check continuity between driver seat control unit connector B325 terminals 35, 42 and ground.

35 (G) – Ground : Continuity should not exist. 42 (G/R) – Ground : Continuity should not exist.



OK or NG

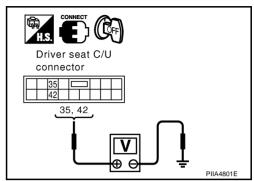
OK >> GO TO 4.

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

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

- 1. Connect the driver seat control unit connector.
- 2. Sliding switch operate, check voltage between driver seat control unit connector and ground.

Connec- tor	Terminals (Wire color)		Sliding switch condition	Voltage (V) (Approx.)
	(+)	(-)		(дрргох.)
B325 -	35 (G)	Ground	FORWARD	Battery voltage
			Other than above	0
	42 (G/R)		BACKWARD	Battery voltage
			Other than above	0



OK or NG

OK >> Replace sliding motor.

NG >> Replace driver seat control unit.

Check Reclining Motor Circuit

1. CHECK SEAT RECLINING MECHANISM

Check the following.

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

OK or NG

OK >> GO TO 2.

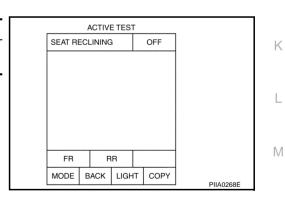
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

(P) With CONSULT-II

Check operation with "SEAT RECLINING" in ACTIVE TEST.

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



N Without CONSULT-II

GO TO 3.

OK or NG

OK >> Reclining motor circuit is OK.

NG >> GO TO 3.

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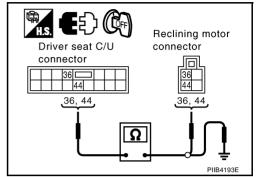
3. CHECK RECLINING MOTOR HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector and reclining motor connector.
- Check continuity between driver seat control unit connector B325 terminals 36, 44 and reclining motor connector B323 terminals 36, 44.

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

4. Check continuity between driver seat control unit connector B325 terminals 36, 44 and ground.

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



OK or NG

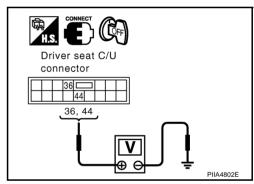
OK >> GO TO 4.

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.
- 2. Reclining switch operate, check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Reclining switch condition	Voltage (V) (Approx.)
•	(+)	(–)		(Арргох.)
B325	36 (W/R)	Ground	FORWARD	Battery voltage
			Other than above	0
			BACKWARD	Battery voltage
	44 (0/1)		Other than above	0



OK or NG

OK >> Replace reclining motor.

NG >> Replace driver seat control unit.

Check Front Lifting Motor Circuit

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.

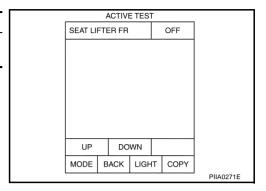
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$\overline{2}$. CHECK FUNCTION

(II) 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.



⋈ Without CONSULT-II

GO TO 3.

OK or NG

OK >> Front lifting motor circuit is OK.

NG >> GO TO 3.

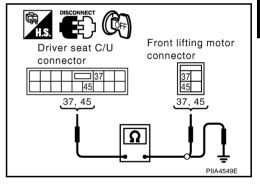
3. CHECK FRONT LIFTING MOTOR HARNESS CONTINUITY

- 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 B325 and terminals 37, 45 and front lifting motor connector B330 terminals 37, 45.

37 (G/L) - 37 (G/L) : Continuity should exist. 45 (W) - 45 (W) : Continuity should exist.

4. Check continuity between driver seat control unit connector B325 and terminals 37, 45 and ground.

37 (G/L) – Ground : Continuity should not exist. 45 (W) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 4.

NG >> 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.
- 2. Front lifting switch operate, check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Front lifting switch condition	Voltage (V) (Approx.)
	(+)	(-)		(Арргох.)
B325	37 (G/L)	Ground	DOWN	Battery voltage
			Other than above	0
	45 (W)		UP	Battery voltage
			Other than above	0
014 110				

Driver seat C/U connector 37 45 PIIA4805E

OK or NG

OK >> Replace front lifting motor.

NG >> Replace driver seat control unit.

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Check Rear Lifting Motor Circuit

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.

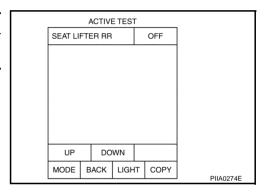
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

(P) 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

GO TO 3.

OK or NG

OK >> Rear lifting motor check is OK.

NG >> GO TO 3.

3. CHECK REAR LIFTING HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- Disconnect driver seat control unit connector and rear lifting motor connector.
- Check continuity between driver seat control unit connector B325 terminals 38, 39 and lifting motor connector B331 terminals 38, 39.

38 (G/W) – 38 (G/W) : Continuity should exist. 39 (G/B) – 39 (G/B) : Continuity should exist.

 Check continuity between driver seat control unit B325 terminals 38, 39 and ground.

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

Driver seat C/U connector 38,39 38,39 38,39 PIIA4551E

OK or NG

OK >> GO TO 4.

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

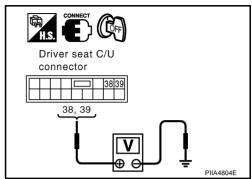
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4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

- 1. Connect the driver seat control unit connector.
- 2. Rear lifting switch operate, check voltage between driver seat control unit connector and ground.

Connector	Terminals (Wire color)		Rear lifting switch condition	Voltage (V) (Approx.)
	(+)	(–)		(другох.)
B325	38 (G/W)	Ground	UP	Battery voltage
			Other than above	0
	20 (C/D)		DOWN	Battery voltage
	39 (G/B)		Other than above	0



OK or NG

OK >> Replace rear lifting motor.

NG >> Replace driver seat control unit.

Check Telescopic Motor Circuit

1. CHECK STEERING WHEEL TELESCOPIC MECHANISM

Check following.

- Operation malfunction caused by steering wheel telescopic 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

(II) With CONSULT-II

Check operation with "TELESCO MOTOR" in ACTIVE TEST.

Test item	Description
TELESCO MOTOR	The telescopic motor is activated by receiving the drive signal.

	ACTIVE	E TEST	Г		
TELESCO	отом с	R		OFF	
FR	T B	R			
MODE	BACK	LIGH	тΙ	COPY	
					PIIA0277E

Without CONSULT-II

GO TO 3.

OK or NG

OK >> Steering telescopic motor circuit is OK.

NG >> GO TO 3.

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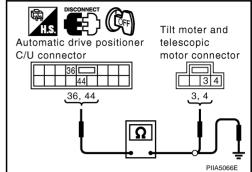
$\overline{3}$. Check telescopic motor harness continuity

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit and tilt motor and telescopic motor connector.
- 3. Check continuity between automatic drive positioner control unit connector M97 terminals 36, 44 and tilt motor and telescopic motor connector M98 terminals 3, 4.

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

4. Check continuity between automatic drive positioner control unit connector M97 terminals 36, 44 and ground.

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



OK or NG

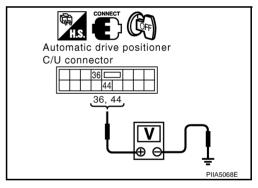
OK >> GO TO 4.

NG >> Repair or replace harness between automatic drive positioner control unit and tilt motor and telescopic motor.

4. CHECK BCM OUTPUT SIGNAL

- 1. Connect the automatic drive positioner control unit connector.
- Telescopic switch operate, check voltage between automatic drive positioner control unit connector and ground.

Connector	Connector Terminals (Wire color) Teles		Telescopic switch condition	Voltage (V) (Approx.)
	36 (R)	Ground	FORWARD	Battery voltage
M97			Other than above	0
W97			BACKWARD	Battery voltage
	44 (G)		Other than above	0



OK or NG

OK >> Replace tilt and telescopic motor.

NG >> Replace automatic drive positioner control unit.

Check Tilt Motor Circuit

1. CHECK STEERING WHEEL TILT MECHANISM

Check following.

- Operation malfunction caused by steering wheel tilt mechanism deformation or pinched harness and 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.

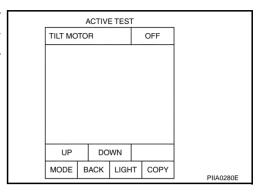
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$\overline{2}$. CHECK FUNCTION

(II) With CONSULT-II

Check operation with "TILT MOTOR" in ACTIVE TEST.

Test item	Description
TILT MOTOR	The tilt motor is activated by receiving the drive signal.



⋈ Without CONSULT-II

GO TO 3.

OK or NG

OK >> Steering tilt motor circuit is OK.

NG >> GO TO 3.

3. CHECK TILT MOTOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.

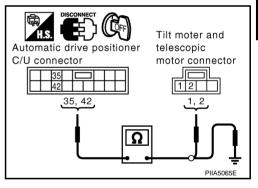
2. Disconnect automatic drive positioner control unit connector and tilt and telescopic motor connector.

 Check continuity between automatic drive positioner control unit connector M97 terminals 35, 42 and tilt and telescopic motor connector M98 terminals 1, 2.

> 35 (G/Y) – 1 (G/Y) : Continuity should exist. 42 (G/W) – 2 (G/W) : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M97 terminals 35, 42 and ground.

35 (G/Y) – Ground : Continuity should not exist. 42 (G/W) – Ground : Continuity should not exist.



OK or NG

NG

OK >> GO TO 4.

>> Repair or replace harness between automatic drive positioner control unit and tilt and telescopic motor.

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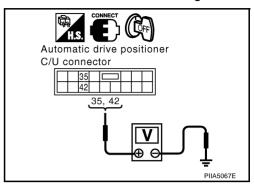
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4. CHECK BCM OUTPUT SIGNAL

- 1. Connect automatic drive positioner control unit connector and tilt and telescopic motor connector.
- 2. Tilt switch operate, check voltage between automatic drive positioner control unit connector and ground.

Connector	Terminals (Wire color)		Tilt switch condition	Voltage (V) (Approx.)
	(+)	(–)		(Арргох.)
M97	35 (G/Y)	Ground	UP	Battery voltage
			Other than above	0
			DOWN	Battery voltage
	42 (G/W)		Other than above	0



OK or NG

OK >> Replace tilt and telescopic motor.

NG >> Replace automatic drive positioner control unit.

Check Sliding Sensor Circuit

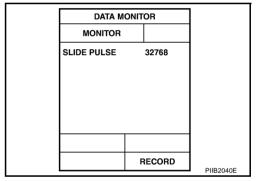
1. CHECK FUNCTION

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(P) With CONSULT-II

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

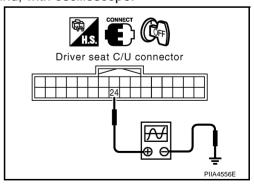
Monitor item [OPERATION or UNIT]		Contents	
SLIDE PULSE	_	The seat sliding position (pulse) judged from the sliding sensor signal is displayed.	



Without CONSULT-II

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

Connector	Terminals (Wire color)		Condition	Signal (Reference value)	
	(+)	(-)		(ixereferice value)	
B324	24 (G)	Ground	Sliding motor operation	(V) 6 4 2 0 50 ms	



OK or NG

OK >> Sliding sensor circuit is OK.

NG >> GO TO 2.

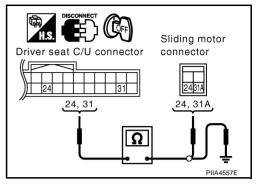
$\overline{2}$. CHECK SLIDING SENSOR HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and sliding motor connector.
- Check continuity between driver seat control unit connector B324 terminals 24, 31 and sliding motor B322 terminals 24, 31A.

24 (G) - 24 (G) : Continuity should exist. 31 (B/W) - 31A (B/W): Continuity should exist.

Check continuity between driver seat control unit B324 terminals 24, 31 and ground.

> 24 (G) - Ground : Continuity should not exist. 31 (B/W) - Ground : Continuity should not exist.



OK or NG

OK >> Replace sliding motor.

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

Check Reclining Sensor Circuit

1. CHECK FUNCTION

(P) With CONSULT-II

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

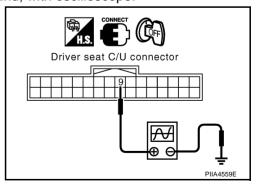
Monitor item [POERATION or UNIT]		Contents	
RECLN PULSE	_	The seat reclining position (pulse) judged from the reclining sensor is displayed	

DATA M	ONITOR	
MONITOR		
RECLN PULSE	32768	
		1
	RECORD	
		PIIB2041E

Without CONSULT-II

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

Connec- tor	Terminals (Wire color)		Condition	Signal (Reference value)	
toi	(+)	(-)		(Itelefelice value)	
B324	9 (G/L)	Ground	Reclining motor operation	(V) 6 4 2 0 •••50ms SIIA0692J	



OK or NG

OK >> Reclining sensor circuit is OK.

NG >> GO TO 2.

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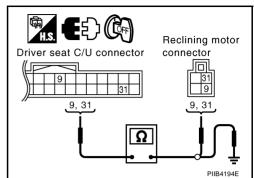
$\overline{2}$. Check reclining sensor harness continuity

- 1. Disconnect driver seat control unit connector and reclining motor connector.
- 2. Check continuity between driver seat control unit connector B324 terminals 9, 31 and reclining motor connector B323 terminals 9, 31.

9 (G/L) – 9 (G/L) : Continuity should exist. 31 (B/W) – 31 (B/W) : Continuity should exist.

 Check continuity between driver seat control unit connector B324 terminals 9, 31 and ground.

> 9 (G/L) – Ground : Continuity should not exist. 31 (B/W) – Ground : Continuity should not exist.



OK or NG

OK >> Replace reclining motor.

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

Check Front Lifting Sensor Circuit

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1. CHECK FUNCTION

(P) With CONSULT-II

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

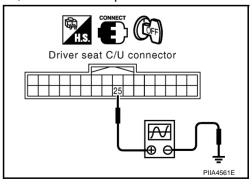
Monitor item [OPER	ATION or UNIT]	Contents	
LIFT FR PULSE	_	The front lifting position (pulse) judged from the front lifting sensor is displayed	

DATA M	ONITOR]
MONITOR		
LIFT FR PLUSE	32768	
	RECORD	
	RECORD	PIIB2045E

W 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)	
	(+)	(-)		(Itelefelice value)	
B324	25 (G/Y)	Ground	Front lift- ing motor operation	(V) 6 4 2 0 ***50ms	



OK or NG

OK >> Front lifting sensor circuit is OK.

NG >> GO TO 2.

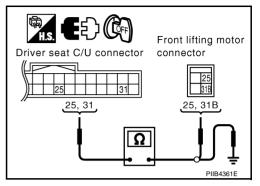
$\overline{2}$. CHECK FRONT LIFTING SENSOR HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and front lifting motor connector.
- Check continuity between driver seat control unit connector B324 terminals 25, 31 and front lifting motor connector B330 terminals 25, 31B.

25 (G/Y) - 25 (G/Y): Continuity should exist. 31 (B/W) - 31B (B/W): Continuity should exist.

Check continuity between driver seat control unit connector B324 terminals 25, 31 and ground.

> 25 (G/Y) - Ground : Continuity should not exist. 31 (B/W) - Ground : Continuity should not exist.



OK or NG

OK >> Replace front lifting motor.

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

Check Rear Lifting Sensor Circuit

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1. CHECK REAR END LIFTING SENSOR INPUT/OUTPUT SIGNAL

(P) With CONSULT-II

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

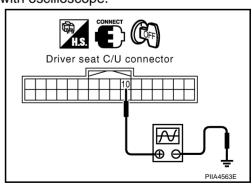
Monitor item [OPEF	RATION or UNIT	
LIFT RR PULSE	_	The rear lifting position (pulse) judged from the rear lifting sensor is displayed.

		1
DATA M	ONITOR]
MONITOR		
LIFT RR PULSE	32768	
]
	RECORD	DUDOOFOE
		PIIB2050E

Without CONSULT-II

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

Connec- tor	Term (Wire		Condition	Signal (Reference value)
	(+)	(–)		,
B324	10 (G/W)	Ground	Rear lift- ing motor operation	(V) 6 4 2 0



OK or NG

OK >> Rear lifting sensor circuit is OK.

NG >> GO TO 2.

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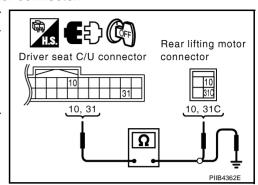
2. CHECK REAR LIFTING SENSOR HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and rear lifting motor connector.
- Check continuity between driver seat control unit connector B324 terminals 10, 31 and rear lifting motor connector B331 terminals 10, 31C.

10 (G/W) – 10 (G/W) : Continuity should exist. 31 (B/W) – 31C (B/W) : Continuity should exist.

Check continuity between driver seat control unit connector B324 terminals 10, 31 and ground.

> 10 (G/W) – Ground : Continuity should not exist. 31 (B/W) – Ground : Continuity should not exist.



OK or NG

OK >> Replace rear lifting motor.

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

Check Telescopic Sensor Circuit

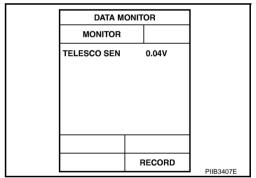
NIS000SN

1. CHECK FUNCTION

(P)With CONSULT-II

Operate the telescopic switch with "TELESCO SEN" on the DATA MONITOR to make sure the voltage changes.

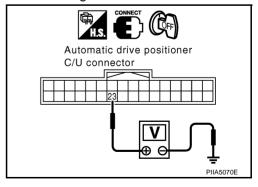
Monitor item [OPERATION or UNIT]		Contents
TELESCO SEN	"V"	The telescoping position (voltage) judged from the telescoping sensor signal is displayed.



Without CONSULT-II

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

Connector		ninals e color)	Condition	Voltage (V) (Approx.)
	(+)	(-)		(дрыох.)
M96	22 (DAY)	Ground	Telescopic top position	0.4
10190	23 (R/Y)	Giodila	Telescopic bottom position	4.6



OK or NG

OK >> Telescopic sensor circuit is OK.

NG >> GO TO 2.

$\overline{2}$. Check harness continuity

- Disconnect automatic drive positioner control unit connector and tilt sensor and telescopic sensor connector.
- 2. Check continuity harness between automatic drive positioner control unit connector M96 terminals 23 and tilt sensor and telescopic sensor connector M99 terminals 3.

23 (R/Y) - 3 (R/Y)

: Continuity should exist.

3. Check continuity harness between automatic drive positioner control unit connector M96 terminals 23 and ground.

23 (R/Y) - Ground

: Continuity should not exist.

OK or NG

OK

>> Replace tilt sensor and telescopic sensor.

NG

>> Repair or replace harness between automatic drive positioner control unit and tilt sensor and telescopic sensor.

Check Tilt Sensor Circuit

NIS000SO

1. CHECK TILT SENSOR

(II) With CONSULT-II

With "TILT SEN" on the DATA MONITOR, operate the tilt switch to make sure voltage changes.

Monitor item [OPERATION or UNIT]		Contents
TILT SEN	"V"	The tilt position (voltage) judged from the tilt sensor signal is displayed.

DATA M		
MONITOR		
TILT SEN	0.04V	
	DECODE	-
	RECORD	PIIB3408E

Without CONSULT-II

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

Connector	_	ninals color)	Condition	Voltage (V) (Approx.)	
	(+)	(-)		(Αρρίολ.)	
M96	7 (OR/L)	Ground	Tilt top position	1	
IVISO	7 (OIV/L)	Giodila	Tilt bottom position	4	

Automatic drive positioner C/U connector PIIA5069E

OK or NG

OK >> Tilt sensor circuit is OK.

NG >> GO TO 2.

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Tilt sensor and

sensor connector

telescopic

Automatic drive positioner

C/U connector

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$\overline{2}$. check harness

- Disconnect automatic drive positioner control unit connector and tilt sensor and telescopic sensor connector.
- 2. Check continuity harness between automatic drive positioner control unit connector M96 terminals 7 and tilt sensor and telescopic sensor connector M99 terminals 2.

7 (OR/L) – 2 (OR/L) : Continuity should exist.

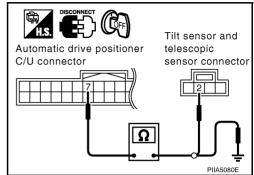
 Automatic drive positioner control unit connector M96 terminals 7 and ground.

7 (OR/L) – Ground : Continuity should not exist.

OK or NG

OK >> Replace tilt sensor and telescopic sensor.

NG >> Repair or replace harness between automatic drive positioner control unit and tilt sensor and telescopic sensor.



Check Tilt Sensor and Telescopic Sensor Power and Ground Circuit

1. CHECK TILT SENSOR AND TELESCOPIC SENSOR POWER SUPPLY

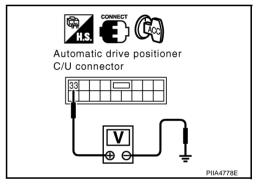
- 1. Turn ignition switch OFF.
- 2. Check voltage between automatic drive positioner control unit connector M97 terminal 33 and ground.

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

OK or NG

OK >> GO TO 2.

NG >> Replace automatic drive positioner control unit.



NIS000SP

2. CHECK TILT SENSOR AND TELESCOPIC SENSOR GROUND CIRCUIT

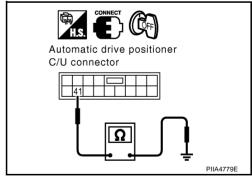
Check continuity between automatic drive positioner control unit connector M97 terminal 41 and ground.

41 (Y) – Ground : Continuity should exist.

OK or NG

OK >> GO TO 3.

NG >> Replace automatic drive positioner control unit.



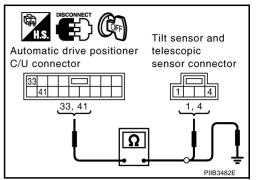
3. CHECK HARNESS CONTINUITY

- 1. Disconnect automatic drive positioner control unit and tilt sensor and telescopic sensor.
- 2. Check continuity between automatic drive positioner control unit connector M97 terminal 33, 41 and tilt sensor and telescopic sensor connector M99 terminal 1, 4.

33 (W/L) - 1 (W/L) : Continuity should exist. 41 (Y) - 4 (Y) : Continuity should exist.

3. Check continuity between automatic drive positioner control unit connector M97 terminal 33, 41 and ground.

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



OK or NG

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

NG >> Repair or replace harness between automatic drive positioner control unit and tilt sensor and telescopic sensor.

Check Front Door Switch (Driver Side) Circuit

1. CHECK FUNCTION

(I) With CONSULT-II

Touch "BCM" with "DOOR SW-DR" on the DATA MONITOR, check ON/OFF operation when the driver door is open and closed. *: Refer to <u>BL-37</u>, "<u>Data Monitor</u>".

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

			1
1 L	DATA M	ONITOR	
	MONITOR		
	DOOR SW-DR	OFF	
1 ⊨			
		RECORD	PIIB2052E
			FIIDZUSZE

Without CONSULT-II

GO TO 2.

OK or NG

OK >> Front door switch (driver side) circuit is OK.

NG >> GO TO 2.

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$\overline{2}$. CHECK FRONT DOOR SWITCH (DRIVER SIDE)

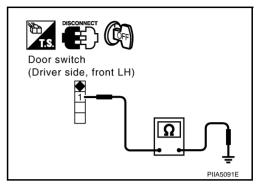
- 1. Turn ignition switch OFF.
- 2. Disconnect front door switch connector.
- 3. Check continuity between front door switch connector and ground part of door switch.

Terminals		Door switch	Continuity
1	1 Ground part of door switch	Pushed	No
ı		Released	Yes

OK or NG

OK >> GO TO 3.

NG >> Replace front door switch (driver side).



3. CHECK FRONT DOOR (DRIVER SIDE) HARNESS CONTINUITY

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM connector B4 terminal 62 and front door switch connector B17 terminal 1.

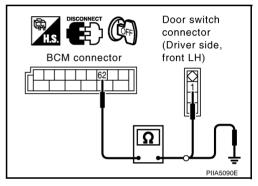
3. Check continuity between BCM connector B4 terminal 62 and ground.

OK or NG

NG

OK >> Front door switch (driver side) circuit is OK.

>> Repair or replace harness between BCM and front door switch (driver side).



Check Sliding Switch Circuit

1. CHECK FUNCTION

(II) With CONSULT-II

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

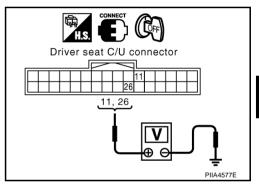
Monitor item [OPERATION or UNIT]		Contents
SLIDE SW – FR "ON/ OFF"		ON/OFF status judged from the sliding switch (FR) signal is displayed.
SLIDE SW - RR	"ON/ OFF"	ON/OFF status judged from the sliding switch (RR) signal is displayed.

DATA M	ONITOR]		
MONITOR				
SLIDE SW-FR	OFF			
SLIDE SW-RR	OFF			
		1		
	RECORD	-		
	1.230113	PIIB2055E		

⋈ Without CONSULT-II

- 1. Turn ignition switch OFF.
- 2. Sliding switch operate, check voltage between driver seat control unit connector and ground.

Connector	Term (Wire	inals color)	Sliding switch condition	Voltage (V) (Approx.)
	(+)	(-)		
'	26 (L/R)	Ground	FORWARD	0
B324			Other than above	Battery voltage
11 (L/W)	Ground	BACKWARD	0	
		Other than above	Battery voltage	



OK or NG

OK >> Sliding switch circuit is OK.

NG >> GO TO 2.

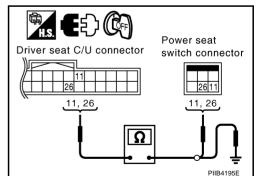
2. CHECK HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and power seat switch (driver side) connector.
- Check continuity between driver seat control unit connector B324 terminals 11, 26 and driver power seat switch connector B326 terminals 11, 26.

11 (L/W) – 11 (L/W) : Continuity should exist. 26 (L/R) – 26 (L/R) : Continuity should exist.

Check continuity between driver seat control unit connector B324 terminals 11, 26 and ground.

> 11 (L/W) – Ground : Continuity should not exist. 26 (L/R) – Ground : 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.

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$\overline{3}$. Check sliding switch

Check continuity between power seat switch as follows.

Tern	ninal	Sliding switch condition	Continuity
26		FORWARD	Yes
20	32D	Other than above	No
11	320	BACKWARD	Yes
		Other than above	No

Power seat switch 2811 11, 26

NISOOOSS

OK or NG

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

NG >> Replace driver power seat switch.

Check Reclining Switch Circuit

1. CHECK FUNCTION

(P) With CONSULT-II

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

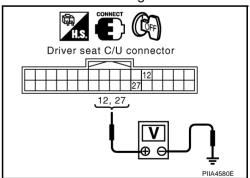
Monitor item [OPERATION or UNIT]		Contents
RECLN SW – FR "ON/ OFF"		ON/OFF status judged from the reclining switch (FR) signal is displayed.
RECLN SW - RR ON/OFF"		ON/OFF status judged from the reclining switch (RR) signal is displayed.

DATA M	ONITO	DR	
MONITOR			
RECLN SW-FR RECLN SW-RR		OFF OFF	
	R	ECORD	PIIB2056E

W Without CONSULT-II

- Turn ignition switch OFF.
- 2. Reclining switch operate, check voltage between driver seat control unit connector and ground.

Terminals (Wire color)		Reclining switch	Voltage (V) (Approx.)
(+)	(-)	Condition	(дрргох.)
27 (L/OP)	Ground	FORWARD	0
21 (L/OIX)		Other than above	Battery voltage
24		BACKWARD	0
12 (1)		Other than above	Battery voltage
	(Wire	(Wire color) (+) (-) 27 (L/OR) Ground	(Wire color) (+) 27 (L/OR) Ground Reclining switch condition FORWARD Other than above BACKWARD



OK or NG

OK >> Reclining switch is OK.

NG >> GO TO 2.

2. CHECK HARNESS CONTINUITY

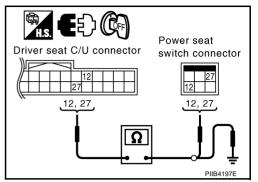
1. Disconnect driver seat control unit connector and power seat switch (driver side) connector.

 Check continuity between driver seat control unit connector B324 terminals 12, 27 and power seat switch (driver side) connector B326 terminals 12, 27.

> 12 (Y) – 12 (Y) : Continuity should exist. 27 (L/OR) – 27 (L/OR) : Continuity should exist.

3. Check continuity between driver seat control unit connector B324 terminals 12, 27 and ground.

12 (Y) – Ground : Continuity should not exist. 27 (L/OR) – Ground : 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. CHECK RECLINING SWITCH

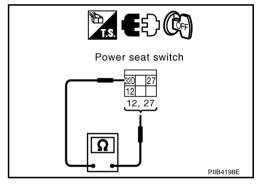
Check continuity between power seat switch as follows.

Terr	ninal	Reclining switch condition	Continuity
27		FORWARD	Yes
21	220	Other than above	No
12	32D	BACKWARD	Yes
12		Other than above	No

OK or NG

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

NG >> Replace power seat switch (driver side).



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Check Front Lifting Switch Circuit

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 [OPERATION or UNIT]		Contents
LIFT FR SW – DN 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.

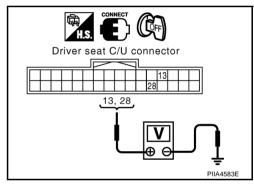
DATA M	ONITOR]
MONITOR		
	RECORD	PIIB2061E
	MONITOR	LIFT FR SW-UP OFF LIFT FR SW-DN OFF

NIS000ST

W Without CONSULT-II

- 1. Turn ignition switch OFF.
- Front lifting switch operate, check voltage between driver seat control unit connector and ground.

Connector (Wire			Front lifting switch	Voltage (V) (Approx.)
	(+)	(-)	Front lifting switch condition UP Other than above DOWN Other than above	(дрыск.)
	28 (L/P)	Ground	UP	0
B324	20 (L/F)		Other than above	Battery voltage
	Giodila	DOWN	0	
	13 (L/G)		Other than above	Battery voltage



OK or NG

OK >> Front lifting switch circuit is OK.

NG >> GO TO 2.

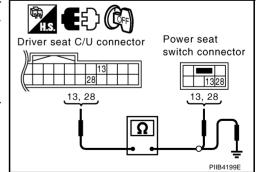
2. CHECK HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and power seat switch (driver side) connector.
- Check continuity between driver seat control unit connector B324 terminals 13, 28 and power seat switch (driver side) connector B327 terminals 13, 28.

13 (L/G) – 13 (L/G) : Continuity should exist. 28 (L/P) – 28 (L/P) : Continuity should exist.

 Check continuity between driver seat control unit connector B324 terminals 13, 28 and ground

13 (L/G) – Ground : Continuity should not exist. 28 (L/P) – Ground : 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.

$\overline{3}$. CHECK FRONT END LIFTING SWITCH

Check continuity between power seat switch as follows.

Term	inals	Front lifting switch condition	Continuity
28	22	UP	Yes
20		Other than above	No
13	32	DOWN	Yes
13		Other than above	No

Power seat switch 1328 13, 28 PIB4200E

OK or NG

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

NG >> Replace driver power seat switch.

Check Rear Lifting Switch Circuit

1. CHECK FUNCTION

(II) With CONSULT-II

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

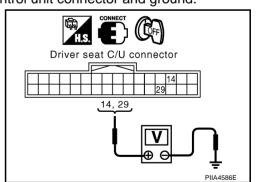
Monitor item [OPERATION or UNIT]		Contents
LIFT RR SW-UP	"ON/OFF"	(ON/OFF) status judged from the RR lifter switch (UP) signal is displayed.
LIFT RR SW-DN	"ON/OFF"	(ON/OFF) status judged from the RR lifter switch (DOWN) signal is displayed.

DATA M	ONITOR]
MONITOR		
LIFT RR SW-UP LIFT RR SW-DN	OFF OFF	
	RECORD	PIIB2066E

⋈ Without CONSULT-II

- Turn ignition switch OFF.
- 2. Rear lifting switch operate, check voltage between driver seat control unit connector and ground.

Connector Term		nals color)	Rear lifting switch condition	Voltage (V) (Approx.)
	(+)	(-)	Condition	(Арргох.)
B324 -	29 (L)	Ground	UP	0
			Other than above	Battery voltage
	14 (BR)		DOWN	0
	14 (BK)		Other than above	Battery voltage



OK or NG

OK >> Rear seat lifting switch circuit is OK.

NG >> GO TO 2.

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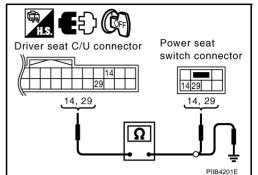
$\overline{2}$. CHECK REAR LIFTING SWITCH HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector and driver power seat switch connector.
- 2. Check continuity between driver seat control unit connector B324 terminals 14, 29 and power seat switch (driver side) connector B327 terminals 14, 29.

14 (BR) – 14 (BR) : Continuity should exist. 29 (L) – 29 (L) : Continuity should exist.

Check continuity between driver seat control unit connector B324 terminals 14, 29 and ground.

> 14 (BR) – Ground : Continuity should not exist. 29 (L) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 3.

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

3. CHECK REAR LIFTING SWITCH

Check continuity between power seat switch as follows.

Term	ninal	Rear lifting switch condition	Continuity
29		UP	Yes
29	32	Other than above	No
14		DOWN	Yes
		Other than above	No

OK or NG

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

NG >> Replace power seat switch (driver side).

Check Sliding and Reclining Switch Ground Circuit

NIS000SV

PIIR4202E

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect power seat switch (driver side) connector.
- Check continuity between power seat switch connector B326 terminal 32D and ground.

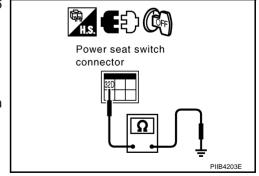
32D(B) – Ground : Continuity should exist.

OK or NG

NG

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

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



Check Lifting Switch (Front and Rear) Ground Circuit

NIS000SW

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1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch (driver side) connector.
- 3. Check continuity between power seat switch connector B327 terminal 32 and ground.

32 (B)- Ground

: Continuity should exist.

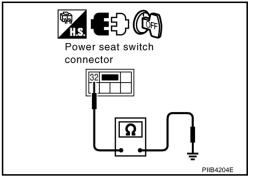
OK or NG

OK

>> Check the condition of the harness and connector.

NG

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



Check Telescopic Switch Circuit

NIS000SX

1. CHECK FUNCTION

(P) With CONSULT-II

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

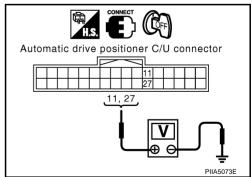
Monitor item [OPERATION or UNIT]		Contents
TELESCO SW-FR	"ON/OFF"	(ON/OFF) status judged from the telescoping switch (FR) signal is displayed.
TELESCO SW-RR	"ON/OFF"	(ON/OFF) status judged from the telescoping switch (RR) signal is displayed.

l L	DATA M		
	MONITOR		
	TELESCO SW-F	R OFF	
	TELESCO SW-R	R OFF	
		RECORD	DUD2400F
L			PIIB3409E

Without CONSULT-II

- 1. Turn ignition switch OFF.
- Telescopic switch operate, check voltage between automatic drive positioner control unit connector and ground.

Connector	Terminals (Wire color)		Telescopic switch condition	Voltage (V) (Approx.)
(+)	(+)	(–)		(Applox.)
	11 (P/L)		FORWARD	0
M96	11 (F/L)	Ground	Other than above	5
	27 (0 (1)		BACKWARD	0
	27 (G/W)		Other than above	5



OK or NG

OK >> Telescopic switch circuit is OK.

NG >> GO TO 2.

Revision: 2006 August SE-63 2006 G35 Sedan

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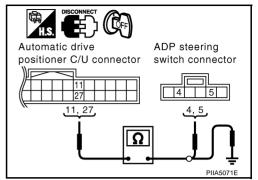
$\overline{2}$. CHECK TELESCOPIC CIRCUIT HARNESS CONTINUITY

- 1. Disconnect automatic drive positioner control unit connector and ADP steering switch connector.
- Check continuity between automatic drive positioner control unit connector M96 terminals 11, 27 and ADP steering switch connector M100 terminals 4. 5.

11 (P/L) – 5 (P/L) : Continuity should exist. 27 (G/W) – 4 (G/W) : Continuity should exist.

Check continuity between automatic drive positioner control unit connector M96 terminals 11, 27 and ground.

> 11 (P/L) – Ground : Continuity should not exist. 27 (G/W) – Ground : Continuity should not exist.



OK or NG

NG

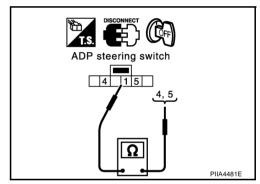
OK >> GO TO 3.

>> Repair or replace harness between automatic drive positioner control unit and ADP steering switch.

3. CHECK TELESCOPIC SWITCH

Check continuity between ADP steering switch as follows.

Tern	ninal	ADP steering switch condition	Continuity
5		FORWARD	Yes
3	1	Other than above	No
4	'	BACKWARD	Yes
4		Other than above	No



OK or NG

OK >> GO TO 4.

NG >> Replace ADP steering switch.

4. CHECK ADP STEERING SWITCH GROUND CIRCUIT

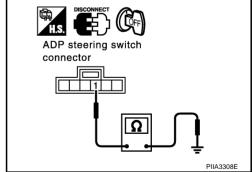
Check continuity between ADP steering switch connector M100 terminal 1 and ground.

1 (B) – Ground : Continuity should exist.

OK or NG

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

NG >> Replace or replace harness between ADP steering switch and ground.



Check Tilt Switch Circuit

1. CHECK FUNCTION

(P) With CONSULT-II

With "TILT SW-UP.TILT SW-DOWN" on the DATA MONITOR, operate the ADP steering switch to check ON/ OFF operation.

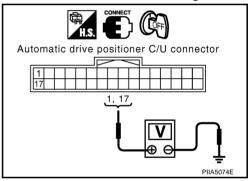
Monitor item [OPERATION or UNIT]		Contents
TILT SW-UP	"ON/OFF"	(ON/OFF) status judged from the tilt switch (UP) signal is displayed.
TILT SW-DOWN	"ON/OFF"	(ON/OFF) status judged from the tilt switch (DOWN) signal is displayed.

DATA M	ONITOR	
MONITOR		
TILT SW-UP TILT SW-DOWN	OFF OFF	
	RECORD	PIIB3410E

(W) Without CONSULT-II

- Turn ignition switch OFF.
- Tilt switch operate, check voltage between automatic drive positioner control unit connector and ground.

Connector Termin			Tilt switch condition	Voltage (V) (Approx.)
(+)	(-)			
	1 (V/C)	Ground	UP	0
M96	1 (Y/G)		Other than above	5
	17 (LG/B)		DOWN	0
			Other than above	5



OK or NG

OK >> Tilt switch circuit is OK.

NG >> GO TO 2.

2. Check tilt switch circuit harness continuity

- Disconnect automatic drive positioner control unit connector and ADP steering switch connector.
- Check continuity between automatic drive positioner control unit connector M96 terminals 1, 17 and ADP steering switch connector M100 terminals 2, 3.

1 (Y/G) - 2 (Y/G): Continuity should exist. 17 (LG/B) - 3 (LG/B): Continuity should exist.

3. Check continuity between automatic drive positioner control unit connector M96 terminals 1, 17 and ground.

> 1 (Y/G) - Ground : Continuity should not exist. 17 (LG/B) - Ground : Continuity should not exist.

Automatic drive ADP steering positioner C/U connector switch connector 1, 17 2, 3 PIIA5072E

OK or NG

OK >> GO TO 3.

Revision: 2006 August

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

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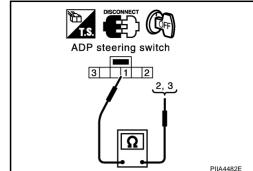
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$\overline{3}$. CHECK ADP TILT STEERING SWITCH

Check continuity between ADP steering switch as follows.

Term	ninal	ADP steering switch condition	Continuity
2	2	UP	Yes
2		Other than above	No
3	2	DOWN	Yes
3		Other than above	No



OK or NG

OK >> GO TO 6.

NG >> Replace ADP steering switch.

4. CHECK ADP STEERING SWITCH GROUND CIRCUIT

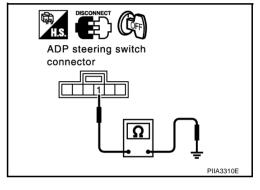
Check continuity between ADP steering switch connector M100 terminal 1 and ground.

1 (B) – Ground : Continuity should exist.

OK or NG

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

NG >> Repair or replace harness between ADP steering switch and ground.



Check Park Position Switch (P Range Switch) Circuit (A/T Models)

NIS000SZ

1. CHECK FUNCTION

(P) With CONSULT-II

Make sure when the A/T selector lever is in P position, "P POSI SW" on the DATA MONITOR becomes ON.

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

DATA M]	
MONITOR		
DETENT SW	OFF	
		1
	RECORD	1
		PIIB2072E

W Without CONSULT-II

- 1. Turn ignition switch OFF.
- Check voltage between seat memory switch connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V)
	(+)	(-)		(Approx.)
B328	0 /D/D)	Ground	Selector lever sifted to P position.	0
	8 (P/B) Ground		Selector lever other than P position.	Battery voltage

OK or NG

OK >> AT device (park position switch) circuit is OK.

NG >> GO TO 2.

2. CHECK PARK POSITION SWITCH POWER SUPPLY CIRCUIT HARNESS

- 1. Disconnect seat memory switch connector and A/T device (park position switch) connector.
- Check continuity between seat memory switch connector B328 terminal 8 and A/T device (park position switch) connector M47 terminal 3.

8 (P/B) – 3 (BR) : Continuity should exist.

Check continuity between seat memory switch connector B328 terminal 8 and ground.

8 (P/B) – Ground : Continuity should not exist.

Seat memory switch connector (Park position switch)

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness between seat memory switch and A/T device (park position switch).

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$\overline{3}$. Check park position switch

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

Term	ninal	Condition	Continuity
2	1	P position	Yes
3		Other than P position	No

A/T device (Park position switch)

OK or NG

OK >> GO TO 4.

NG >> Replace A/T device (park position switch).

4. CHECK PARK POSITION SWITCH GROUND HARNESS

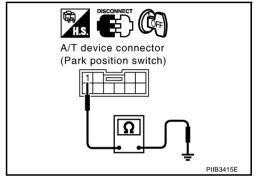
Check continuity between A/T device (park position switch) connector M47 terminal 1 and ground.

OK or NG

NG

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

>> Repair or replace harness between A/T device (park position switch) and ground.



Check Parking Brake Switch Circuit (M/T Models)

NIS000T0

1. CHECK FUNCTION

(P) With CONSULT-II

Check that when the parking brake is released, "PARKING BRAKE" on the DATA MONITOR becomes OFF.

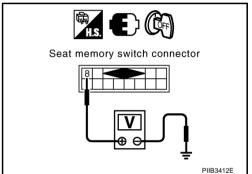
Monitor item [OPERATION or UNIT]		Contents
PARKING BRAKE	"ON/ OFF"	The parking brake is "released (OFF)/parking brake is applied (ON)" judged from the parking brake switch signal is displayed.

DATA M			
MONITOR			
PARKING BRAK	E	OFF	
	F	RECORD	DUD0 400F
			PIIB3420E

W Without CONSULT-II

- 1. Turn ignition switch OFF.
- 2. Check voltage between seat memory switch connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		(дрргох.)
B328	9 (D/B)	g (P/R) Ground	Parking brake applied.	0
B328	8 (P/B) Ground		Parking brake released.	Battery voltage



OK or NG

OK >> Parking brake switch circuit is OK.

NG >> GO TO 2.

2. CHECK PARKING BRAKE SWITCH POWER SUPPLY CIRCUIT HARNESS

- 1. Disconnect seat memory switch connector and parking brake switch connector.
- 2. Check continuity between seat memory switch connector B328 terminal 8 and parking brake switch connector B37 terminal 1.

8 (P/B) – 1 (PU/R) : Continuity should exist.

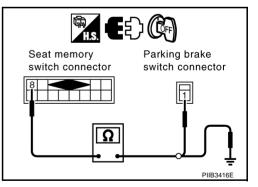
3. Check continuity between seat memory switch connector B328 terminal 8 and ground.

8 (P/B) – Ground : Continuity should not exist.

OK or NG

OK >> GO TO 3. NG >> Repair or

>> Repair or replace harness between seat memory switch and parking brake switch.



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$\overline{3}$. Check parking brake switch

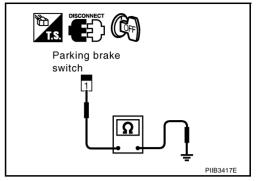
Check continuity between parking brake switch connector B37 terminal 1 and ground.

Terminal		Condition	Continuity
1	Ground	Parking brake applied.	Yes
		Parking brake released.	No

OK or NG

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

NG >> Replace parking brake switch.



NIS000T1

Check Key Switch and Ignition Knob Switch Circuit (With Intelligent Key)

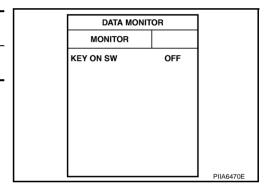
1. CHECK KEY SWITCH AND IGNITION KNOB SWITCH POWER SUPPRY CIRCUIT

(P) With CONSULT-II

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

*: Refer to BL-37, "Data Monitor" .

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



₩ Without CONSULT-II

ĞO TO 2.

OK or NG

OK >> Key switch and ignition knob switch circuit is OK.

NG >> GO TO 2.

$oldsymbol{2}.$ Check key switch and ignition knob switch power supply circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect key switch and ignition knob switch connector.
- Check voltage between key switch and ignition knob switch connector M310 terminal 3 and ground.

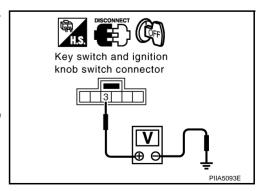
3 (Y) - Ground

: Battery voltage.

OK or NG

OK >> GO TO 3.

NG >> Check harness between key switch and ignition knob switch and fuse.



$\overline{3}$. CHECK KEY SWITCH AND IGNITION KNOB SWITCH

Check continuity between key switch and ignition knob switch connector M310 terminal 3 and 4.

Con- nector	Terminal		Condition	Continuity
M310 3	3 4	Key is inserted in ignition key cylinder.	Yes	
	4	Key is removed from ignition key cylinder.	No	

Key switch and ignition knob switch 3 4 PIIA6140E

OK or NG

OK >> GO TO 4.

NG >> Replace key switch and ignition knob switch.

4. CHECK HARNESS CONTINUITY

- Disconnect key switch and ignition knob switch connector and BCM connector.
- Check continuity between key switch and ignition knob switch connector M310 terminal 4 and BCM connector M1 terminal 37.

4 (B/P) - 37 (B/P): Continuity should exist.

Check continuity between key switch and ignition knob switch connector M310 terminal 4 and ground.

> 4 (B/P) - Ground : Continuity should not exist.

OK or NG

OK >> Key switch and ignition knob switch circuit is OK.

NG >> Repair or replace harness between key switch and ignition knob switch and BCM.

Key switch and BCM connector ianition knob switch connector PIIA5095E

NIS000T2

Check Key Switch Circuit (Without Intelligent Key)

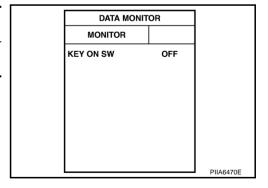
1. CHECK KEY SWITCH

(II) With CONSULT-II

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

*: Refer to BL-37, "Data Monitor".

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



W Without CONSULT-II

GO TO 2.

OK or NG

OK >> Key switch circuit is OK.

NG >> GO TO 2.

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$\overline{2}$. CHECK KEY SWITCH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect key switch connector.
- 3. Check voltage between key switch connector M307 terminal 2 and ground.

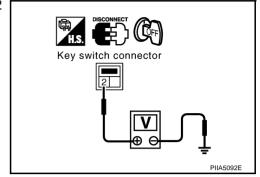
2 (L/W) - Ground

: Battery voltage.

OK or NG

OK >> GO TO 3.

NG >> Check harness between key switch and fuse.



3. CHECK KEY SWITCH

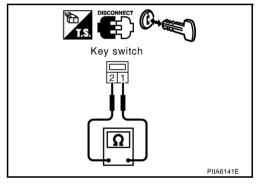
Check continuity between key switch connector M307 terminal 1 and 2.

Con- nector	Terminal		Condition	Continuity
M307 1 2	1 2	Key is inserted in ignition key cylinder.	Yes	
		Key is removed from ignition key cylinder.	No	

OK or NG

OK >> GO TO 4.

NG >> Replace key switch.



4. CHECK HARNESS CONTINUITY

- 1. Disconnect key switch and connector and BCM connector.
- Check continuity between key switch connector M307 terminal 1 and BCM connector M1 terminal 37.

1 (B/P) – 37 (B/P) : Continuity should exist.

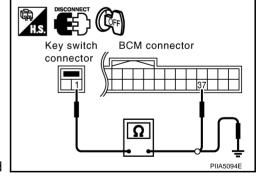
Check continuity between key switch connector M307 terminal 1 and ground.

1 (B/P) – Ground : Continuity should not exist.

OK or NG

OK >> Key switch and circuit is OK.

NG >> Repair or replace harness between key switch and BCM.



Check Seat Memory and Set Switch Circuit

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1. CHECK FUNCTION

(II) With CONSULT-II

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

Monitor item [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.			

		7
DATA M	_	
MONITOR		
MEMORY SW1	OFF	
MEMORY SW2	OFF	
SET SW	OFF	
		1
	RECORD	PIIB2076E

⋈ Without CONSULT-II

GO TO 2.

OK or NG

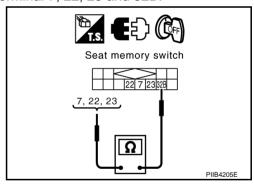
OK >> Seat memory switch circuit is OK.

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 connector B328 terminal 7, 22, 23 and 32B.

Connec- tor	Terminals		Condition	Continuity
	7	32B	Memory switch 1: ON	Yes
B328	,		Memory switch 1: OFF	No
	22		Memory switch 2: ON	Yes
			Memory switch 2: OFF	No
	23		Set switch: ON	Yes
			Set switch: OFF	No



OK or NG

OK >> GO TO 3.

NG >> Replace seat memory switch.

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$\overline{3}$. Check harness continuity

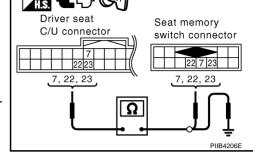
- 1. Disconnect driver seat control unit connector.
- Check continuity between driver seat control unit connector B324 terminals 7, 22, 23 and seat memory switch connector B328 terminals 7, 22, 23.

7(L/G) - 7(L/G): Continuity should exist. 22 (L/B) - 22 (L/B) : Continuity should exist. 23 (L/W) - 23 (L/W) : Continuity should exist.

Check continuity between driver seat control unit connector M324 terminals 7, 22, 23 and ground.

> 7 (L/G) - Ground : Continuity should not exist. 22 (L/B) - Ground : Continuity should not exist.

> 23 (L/W) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 4.

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

4. CHECK SEAT MEMORY SWITCH GROUND CIRCUIT

Check continuity between seat memory switch connector B328 terminal 32B and ground.

> 32B (B) - Ground : Continuity should exist.

OK or NG

NG

OK >> Replace driver seat control unit.

>> Repair or replace harness between seat memory switch and ground.

Seat memory switch connector

NIS000T4

PIIR4207E

Check Seat Memory Cancel Switch Circuit

1. CHECK SEAT MEMORY SWITCH

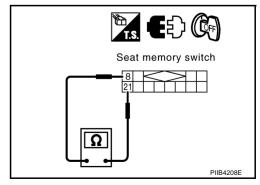
- Turn ignition switch OFF. 1.
- 2. Disconnect seat memory switch connector.
- 3. Check continuity between seat memory switch connector B328 terminals 21 and 8.

Connec- tor	Terminals		Condition	Continuity
B328	21 8 -	Ω	Cancel switch: CANCEL	Yes
		Cancel switch: AUTO	No	

OK or NG

OK >> GO TO 2.

NG >> Replace seat memory switch.



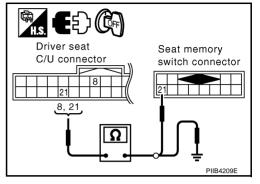
2. CHECK HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector.
- Check continuity between driver seat control unit connector B324 terminals 8, 21 and seat memory switch connector B328 terminal 21.

8(L/Y) - 21(L/Y): Continuity should exist. 21 (L/Y) - 21 (L/Y) : Continuity should exist.

Check continuity between driver seat control unit connector M324 terminals 8, 21 and ground.

> 8 (L/Y) - Ground : Continuity should not exist. 21 (L/Y) - Ground : Continuity should not exist.



OK or NG

OK >> GO TO 3.

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

3. CHECK SEAT MEMORY SWITCH GROUND CIRCUIT

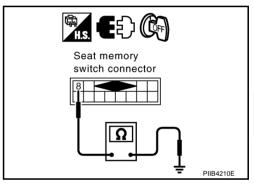
Check continuity between seat memory switch connector B328 terminal 8 and ground.

> 8 (P/B) - Ground : Continuity should exist.

OK or NG

OK >> Replace driver seat control unit.

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



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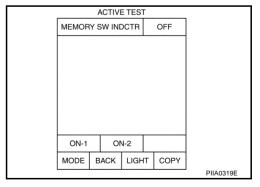
Check Memory Indicator Lamp Circuit

1. CHECK FUNCTION

(P) 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

GO TO 2.

OK or NG

OK >> Memory indicator lamp circuit is OK.

NG >> GO TO 2.

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$\overline{2}$. CHECK SEAT MEMORY SWITCH POWER SUPPLY CIRCUIT

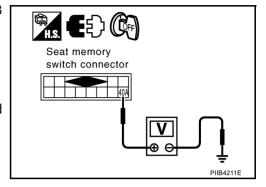
- 1. Turn ignition switch OFF.
- 2. Disconnect seat memory switch connector.
- 3. Check voltage between seat memory switch connector B328 terminal 40A and ground.

40A (R/W) - Ground : Battery voltage

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness between fuse block (J/B) and seat memory switch.



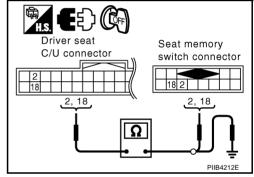
3. CHECK HARNESS CONTINUITY

- 1. Disconnect driver seat control unit connector.
- 2. Check continuity between driver seat control unit connector B324 terminals 2, 18 and seat memory switch connector B328 terminals 2, 18.

2 (Y/W) – 2 (Y/W) : Continuity should exist. 18 (Y/G) – 18 (Y/G) : Continuity should exist.

Check continuity between driver seat control unit connector B324 terminals 2, 18 and ground.

> 2 (Y/W) – Ground : Continuity should not exist. 18 (Y/G) – Ground : Continuity should not exist.



OK or NG

OK >> GO TO 4.

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

4. CHECK SEAT MEMORY SWITCH INDICATOR SIGNAL

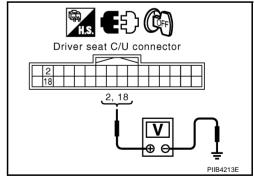
Check voltage between driver seat control unit connector B324 terminals 2, 18 and ground.

2 (Y/W) – Ground : Battery voltage 18 (Y/G) – Ground : Battery voltage

OK or NG

OK >> Memory indicator lamp circuit is OK.

NG >> Replace seat memory switch.



Check UART Communication Line Circuit

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1. CHECK WART LINE HERNESS

1. Turn ignition switch OFF.

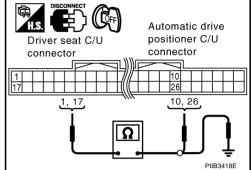
2. Disconnect driver seat control unit connector and automatic drive positioner control unit connector.

 Check continuity between driver seat control unit connector B324 terminal 1, 17 and automatic drive positioner connector M96 terminal 10, 26.

> 17 (P) – 26 (R/G) : Continuity should exist. 1 (GY) – 10 (R/L) : Continuity should exist.

4. Check continuity between driver seat control unit connector B324 terminal 1, 17 and ground.

17 (P) – Ground : Continuity should not exist. 1 (GY) – Ground : Continuity should not exist.



OK or NG

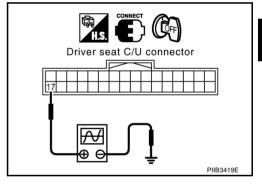
OK >> GO TO 2.

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

2. CHECK UART LINE SIGNAL 1

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

Connector	Terminals (Wire color)		Condition	Signal (Reference value)		
	(+)	(-)		(Neterence value)		
B324	17 (P)	Ground	Seat memory switch 1 or 2 opera- tion	(V) 6 4 2 0 2 ms		



OK or NG

OK >> GO TO 3.

NG >> Check the flowing.

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

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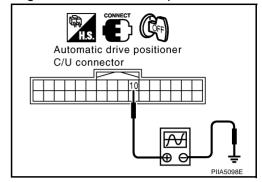
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$\overline{3}$. CHECK UART LINE SIGNAL 2

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

Connector	Terminals (Wire color)		Condition	Signal (Reference value)		
	(+)	(-)		(Iteleferice value)		
M96	10 (R/L)	Ground	Seat memory switch 1 or 2 opera- tion	(V) 6 4 2 0 1 ms		



OK or NG

OK >> GO TO 4.

NG >> Check the flowing.

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

4. CHECK DRIVER SEAT CONTROL UNIT

Dose the automatic drive positioner operate, when the driver control unit exchanged? Does seat memory function operate?

YES >> Replace automatic drive positioner control unit.

NG >> Replace driver seat control unit.

POWER SEAT POWER SEAT PFP:87016 Α Wiring Diagram - SEAT -/For Driver Seat NIS000T7 SE-SEAT-01 BATTERY В REFER TO PG-POWER. FUSE BLOCK 10A 50A (J/B) F 18 $\overline{\text{M4}}$ D (E108) 6G W/R M15 F 55 42 BAT (F/L) BAT (FUSE) BCM (BODY CONTROL **POWER** WINDOW POWER SUPPLY (BAT) MODULE) $\overline{M2}$ 52 54 W G M12(B1) (B7) Н (B334) (M66) NEXT PAGE SE J **POWER** SWITCH (B326) SLIDING SWITCH RECLINING SWITCH FRONT POWER SEAT (DRIVER SIDE) 1 3 4 6 2 G/R ■ B ■ B> NEXT PAGE 4 5 6 3 **↓**□(M) SLIDING **↓**(M)¬↓ RECLINING M MOTOR MOTOR FOR-WARD BACK-FOR-BACK-(B335) (B336) WARD WARD WARD REFER TO THE FOLLOWING. 5 G B335 3 4 B336 W (E108), (B1) -SUPER MULTIPLE 3 2 1 6 5 4 B326 W JUNCTION (SMJ)

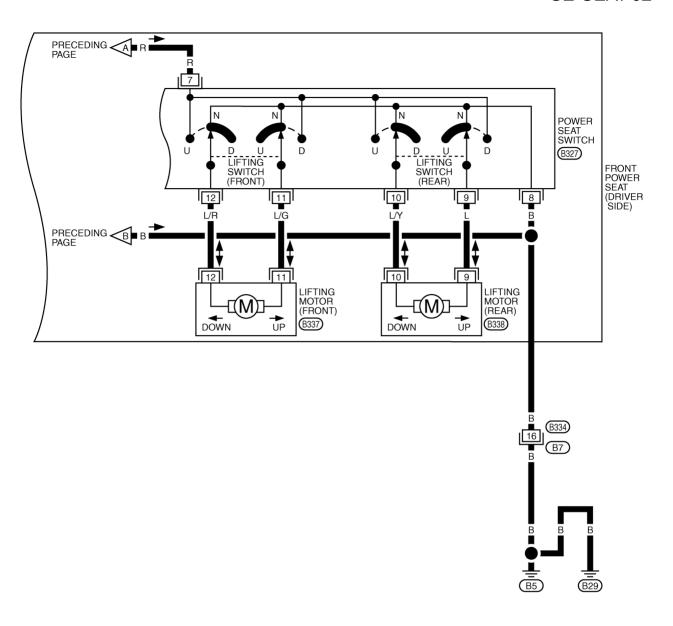
(M4) -FUSE BLOCK-JUNCTION BOX (J/B) M2) -ELECTRICAL UNITS

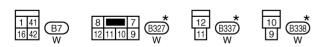
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWM1103E

POWER SEAT

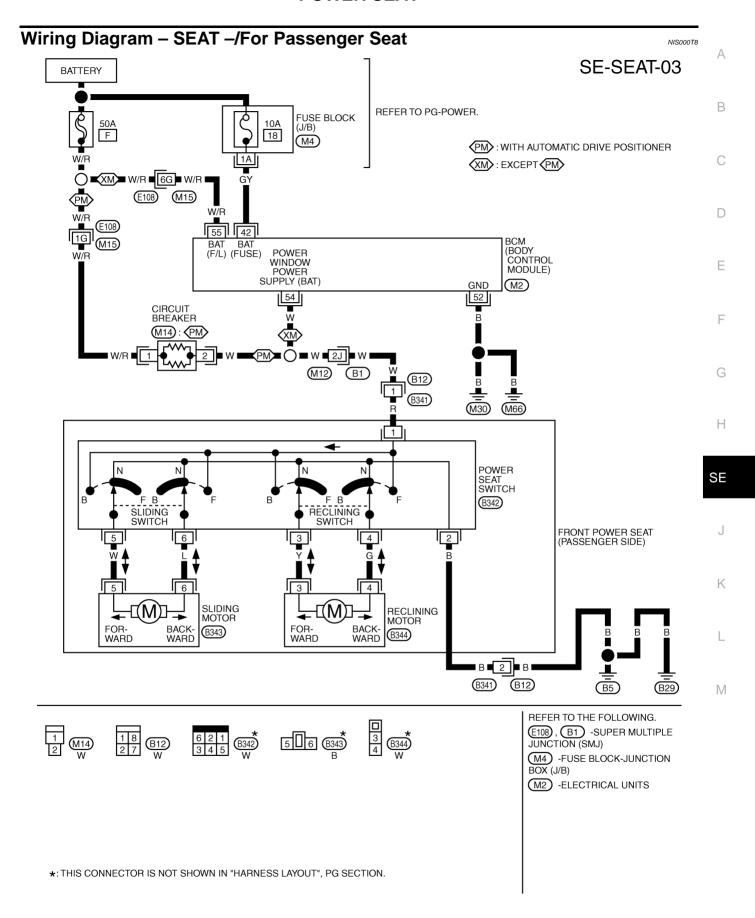
SE-SEAT-02





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

TIWT0383E



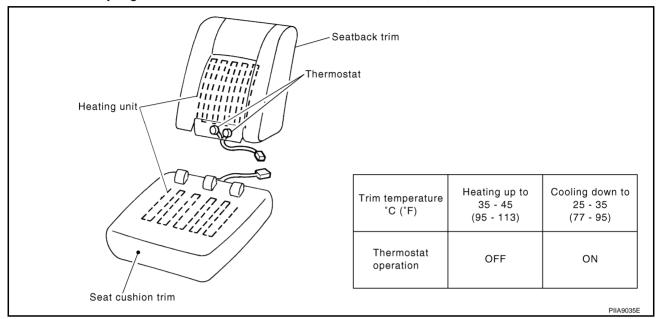
TIWM1104E

HEATED SEAT

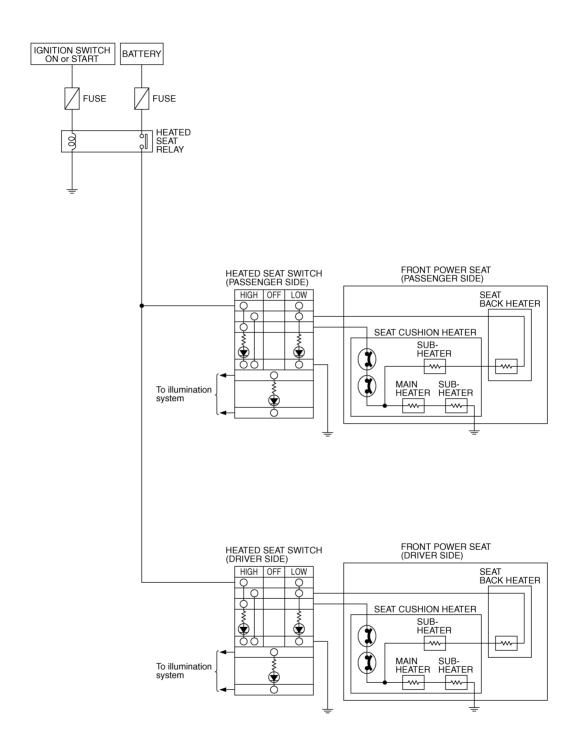
HEATED SEAT PFP:87335

Description

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



Schematic NISO00TA



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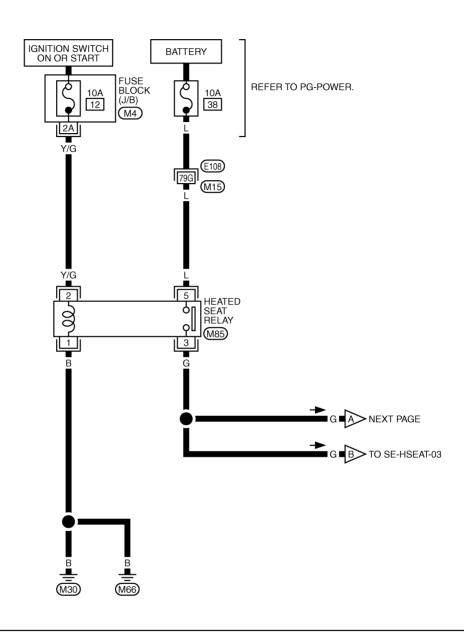
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TIWT0343E

Wiring Diagram - HSEAT - / For A/T Models

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SE-HSEAT-01



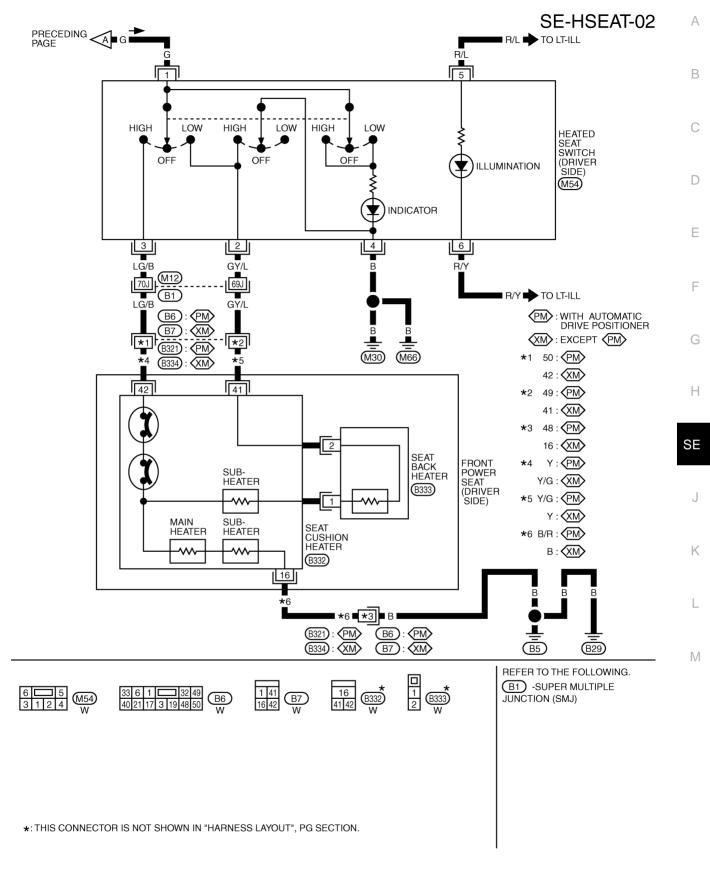


REFER TO THE FOLLOWING.

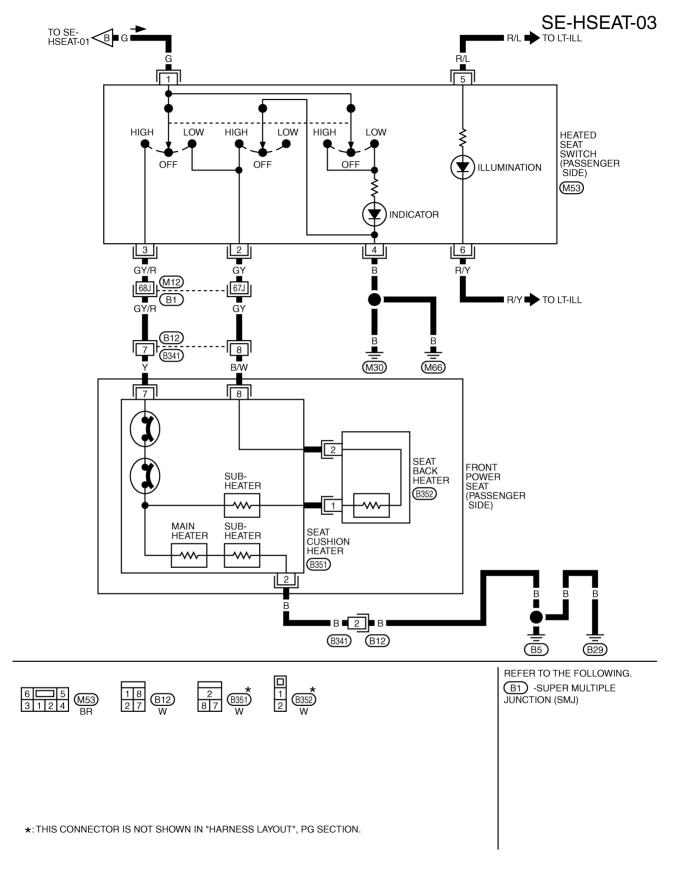
(E108) -SUPER MULTIPLE
JUNCTION (SMJ)

(M4) -FUSE BLOCK-JUNCTION
BOX (J/B)

TIWM1105E



TIWM1106E



TIWM1107E

(M₁₅)

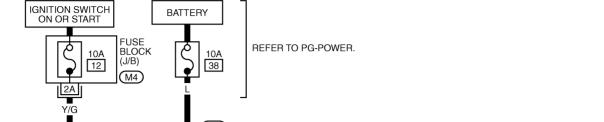
HEATED SEAT RELAY (M85)

Wiring Diagram - HSEAT - / For M/T Models

SE-HSEAT-04

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G■1■G (M89) (M156)

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REFER TO THE FOLLOWING. E108) -SUPER MULTIPLE JUNCTION (SMJ)

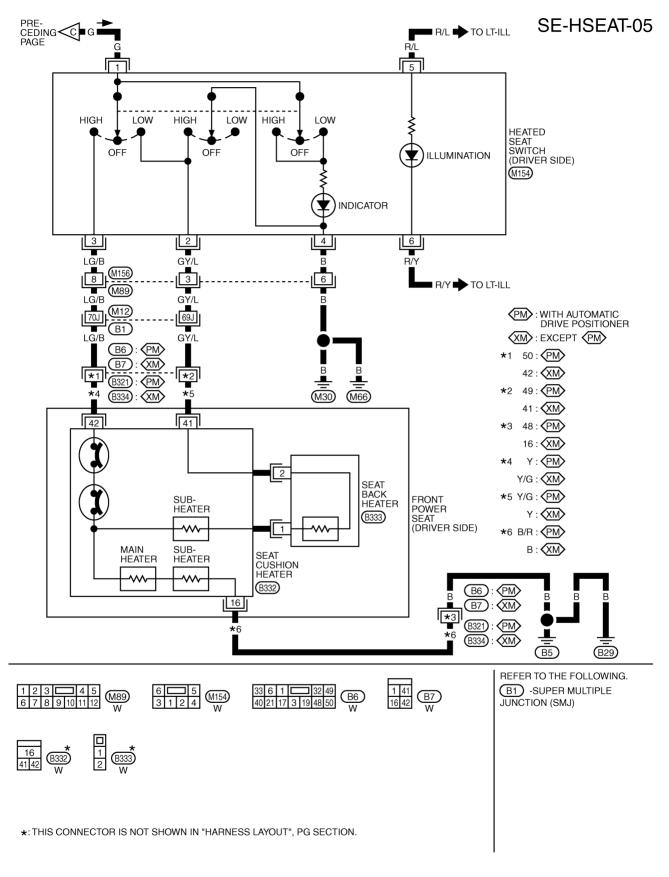
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G ■D> TO SE-HSEAT-06

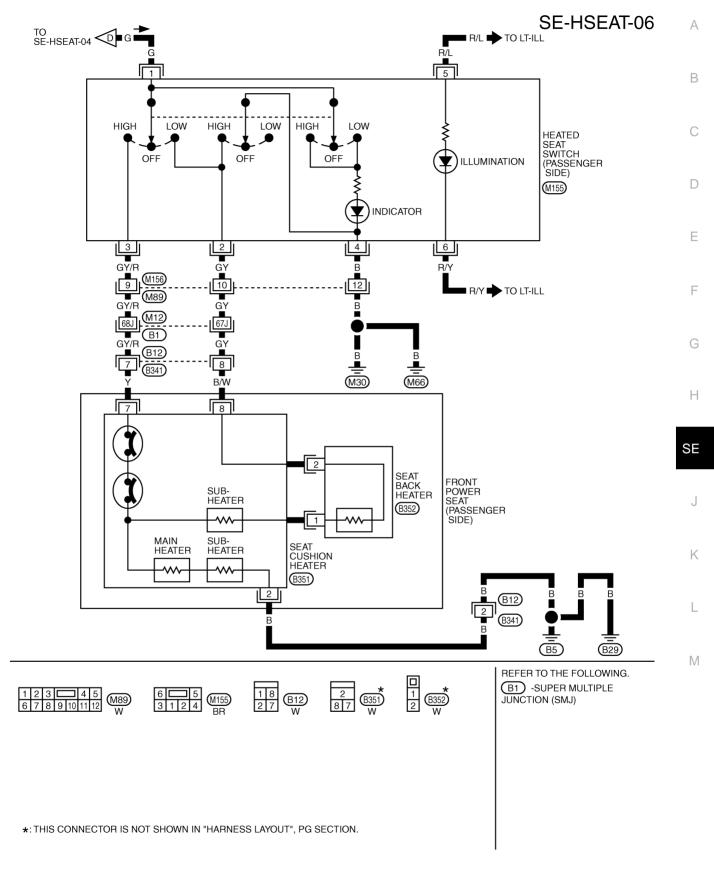
M4) -FUSE BLOCK-JUNCTION BOX (J/B)

TIWM1108E

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TIWM1109E



TIWM1110E

FRONT SEAT

FRONT SEAT PFP:87000

Removal and Installation

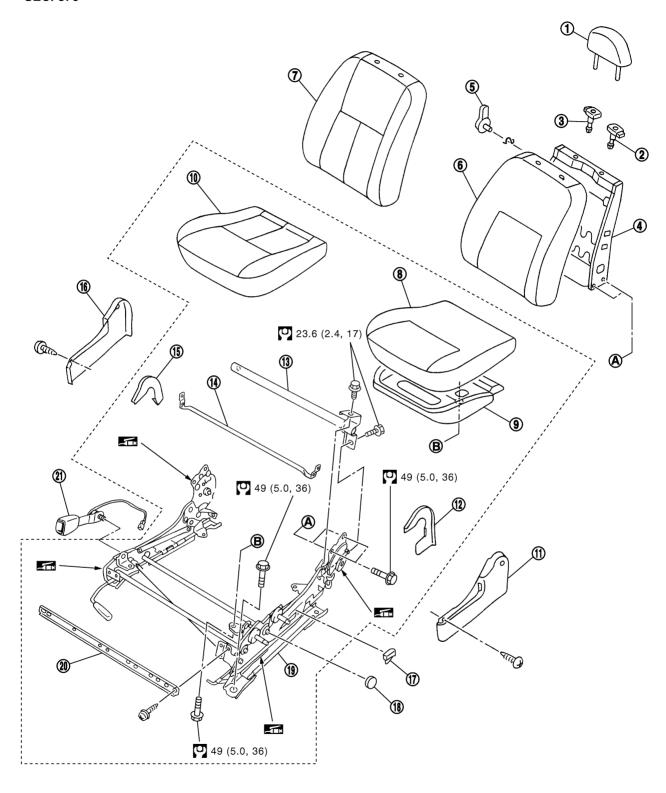
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CAUTION:

Do not disassembly the component parts of only front passenger seat in the dotted lines shown in the figure below.

Manual seat

SEC. 870



: N•m (kg-m, ft-lb)

1. Headrest

4. Seatback frame

2. Headrest holder (locked)

5. Lumber support lever knob

3. Headrest holder (free)

6. Seatback pad

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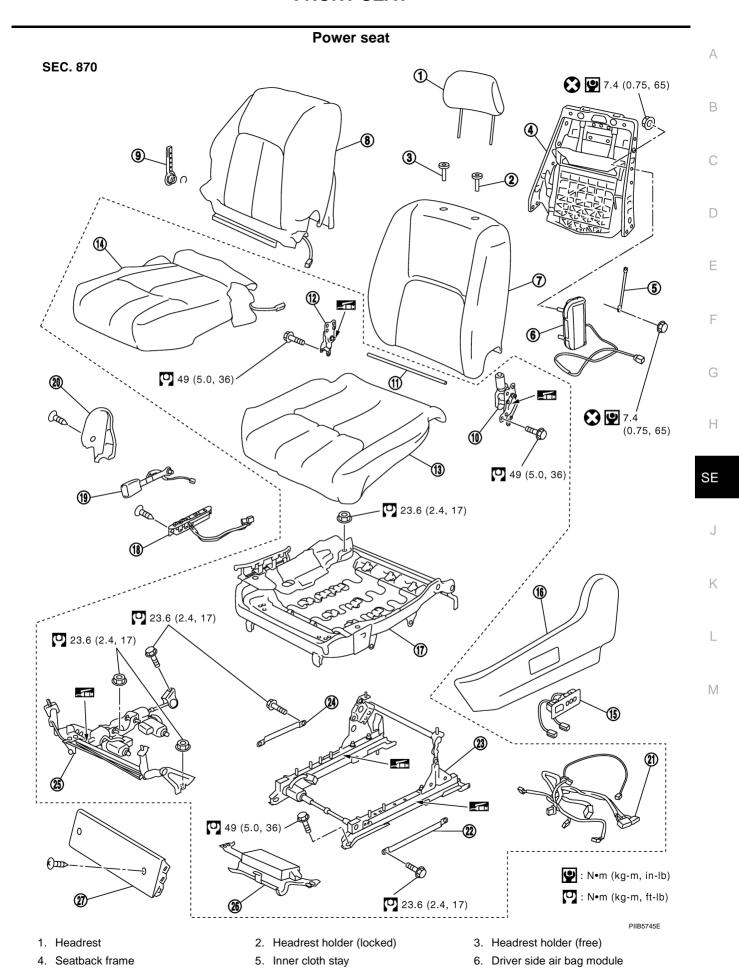
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2006 G35 Sedan

FRONT SEAT

- 7. Seatback trim
- 10. Seat cushion trim
- 13. Sliding rail bracket (rear)
- 16. Seat cushion inner finisher
- 19. Lifter base assembly

- 8. Seat cushion pad
- 11. Seat cushion outer finisher
- 14. Reclining device rod
- 17. Reclining device lever knob
- 20. Sliding rail bracket (front)
- 9. Seat cushion frame
- 12. Reclining device cover (LH)
- 15. Reclining device cover (RH)
- 18. Lifter dial
- 21. Seat belt buckle



Revision: 2006 August SE-93 2006 G35 Sedan

FRONT SEAT

7.	Seatback pad	8.	Seatback trim	9.	Lumber support lever knob
10.	Reclining device (LH)	11.	Reclining device rod	12.	Reclining device (RH)
13.	Seat cushion pad	14.	Seat cushion trim	15.	Seat memory switch
16.	Seat cushion outer finisher	17.	Seat cushion frame	18.	Power seat switch
19.	Seat belt buckle	20.	Seat cushion inner finisher	21.	Driver power seat harness
22.	Seat cushion rod (LH)	23.	Seat lifter link slide assembly	24.	Seat cushion rod (RH)
25.	Seat lifter link motor unit assembly	26.	Driver seat control unit assembly	27.	Seat cushion front finisher

REMOVAL

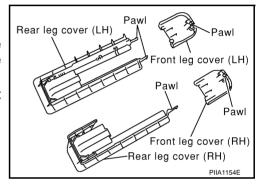
When removing or installing the seat trim, carefully handle it to keep dirt out and avoid damage.

CAUTION:

- Before removing the front seat, turn the 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 toward the rear of the vehicle, and pull up to remove.
- Slide the seat forward, then disengage the tabs on the front RH/LH 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.

Disassembly and Assembly

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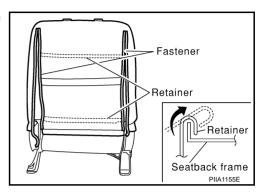
CAUTION:

Do not disassemble the component parts of only front passenger seat in the dotted lines shown in the figure. Refer to <u>SE-94</u>, "<u>REMOVAL</u>".

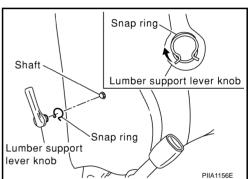
SEATBACK TRIM AND PAD

Disassembly

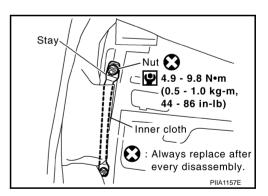
 Open zipper on back of seatback, and remove retainer from seatback frame.



2. Pull snap ring upward, and remove lumber support lever knob from seatback frame.



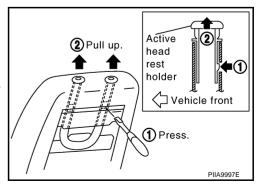
Remove the stay securing the inner cloth.



 Remove headrest holder (with active headrest).
 From the back of the seatback, press the headrest holder tab of the stay pipe hole to disengage. Then pull the headrest holder up to remove.

NOTE:

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



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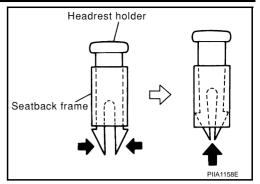
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FRONT SEAT

Remove headrest holder (without active headrest).
 Squeeze and pull up headrest holder tabs to remove from seat-back frame.

NOTE:

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



6. Remove the seat heater harness connector. After removing the seatback trim and pad, remove the hog rings to separate the trim, pad, and seatback heater unit.

Assembly

Assemble in the reverse order of disassembly.

REMOVAL OF SEATBACK ASSEMBLY

- 1. After completing the steps 1 and 2 of "Seatback trim and pad", remove the harness connectors for 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.

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.

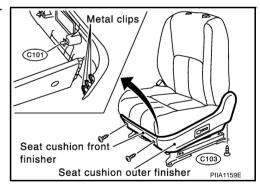
INSTALLATION OF SEATBACK ASSEMBLY

Install in the reverse order of removal.

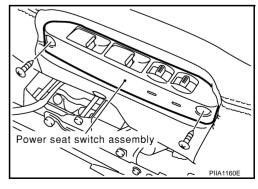
SEAT CUSHION TRIM AND PAD (POWER SEAT)

Disassembly

 Remove the seat cushion front finisher and seat cushion outer finisher.



2. Remove the power seat switch assembly.



- 3. Remove the retainer on the seat cushion frame, then remove the harness connector for the seat heater.
- After removing the seat cushion trim and pad, remove the hog rings to separate the trim and pad and the seat cushion heater unit.

FRONT SEAT

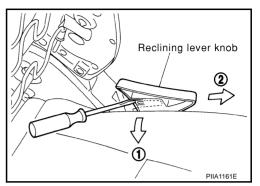
Assembly

Assemble in the reverse order of disassembly.

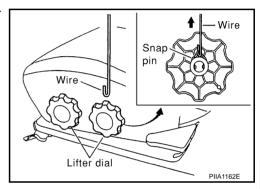
SEAT CUSHION TRIM AND PAD (MANUAL SEAT)

Disassembly

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



2. Hang snap ring on wire, and pull it up to remove. Remove lifter dial.

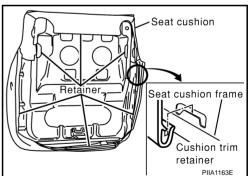


3. Remove mounting bolts by accessing them from back of seat cushion.

NOTE:

When installing bolts, ensure that locks on both sides of slide are engaged. First temporarily tighten them, and then finally tighten.

- 4. Remove retainer from back of cushion.
- 5. Pull off trim and remove hog rings.



Assembly

Assemble in the reverse order of disassembly.

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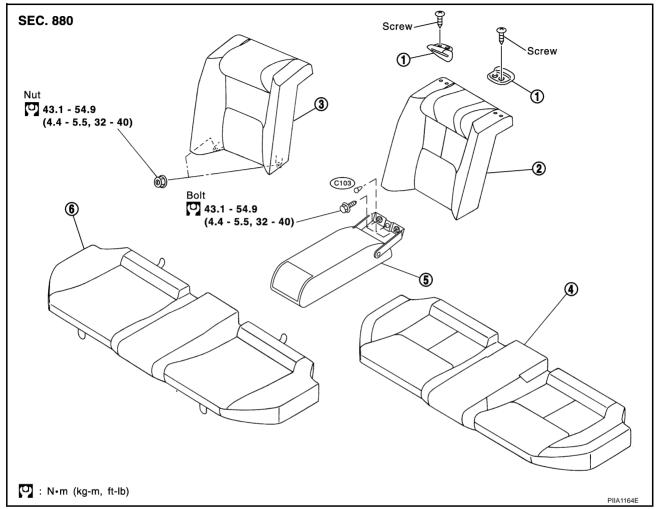
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REAR SEAT PFP:88300

Removal and Installation

NIS000TF

Standard seat



- 1. Seat belt guide
- 4. Seat cushion trim
- 2. Seatback trim
- 5. Armrest assembly
- 3. Seatback pad
- 6. Seat cushion pad

Reclining seat SEC. 880 3 Screw `Screw 1 1 2 7 Bolt 43.1 - 54.9 43.1 - 54.9 (4.4 - 5.5, 32 - 40) -6 (4.4 - 5.5, 32 - 40) Bolt 43.1 - 54.9 (4.4 - 5.5, 32 - 40) መ **®** Bolt 43.1 - 54.9 **(9**) (4.4 - 5.5, 32 - 40) : Apply body grease. : N•m (kg-m, ft-lb)

- 1. Seat belt guide
- 4. Armrest assembly
- 7. Headrest holder (free)
- 10. Reclining device inner
- 13. Reclining device lever knob
- 2. Seatback trim
- 5. Headrest
- 8. Seatback frame
- 11. Reclining device
- 14. Seat cushion pad

- 3. Seatback pad
- 6. Headrest holder (locked)
- 9. Seat cushion trim
- 12. Reclining device outer

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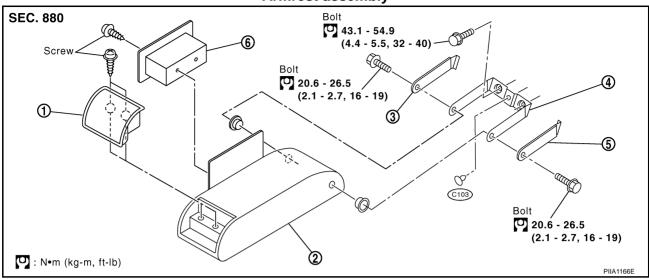
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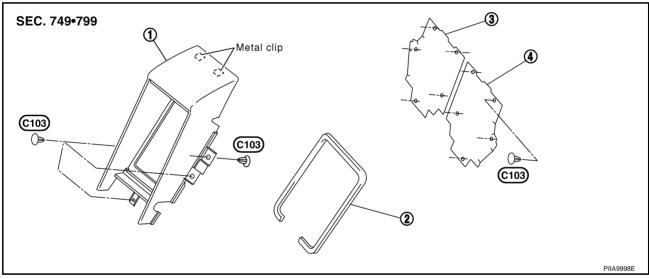
Armrest assembly



- 1. Cup holder
- 4. Armrest bracket

- 2. Armrest trim and pad
- 5. Armrest bracket outer cover (LH)
- 3. Armrest bracket outer cover (RH)
- 6. Armrest side console

Rear seat center back finisher



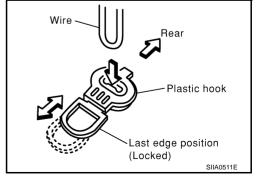
- 1. Rear seat center back finisher
- 2. Welt

3. Welt rear seatback (RH)

4. Welt rear seatback (LH)

REMOVAL

Pull the lock at the front bottom of the seat cushion forward (1 for each side), and pull the seat cushion upward to release the wire from the plastic hook, then pull the seat cushion forward to remove.



INSTALLATION

Install in the reverse order of removal.