SECTION SE
SEAT

CONTENTS

PRECAUTIONS

PFP:00001

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

NIS0025I

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

WARNING:

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

Service Notice

NIS0025J

- 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

NIS0025K

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

– Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
Then rub with a soft and dry cloth.

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

- Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

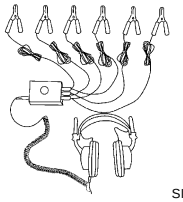
PREPARATION

PFP:00002

Special Service Tools

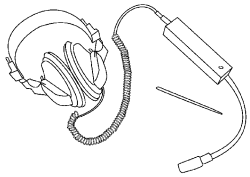
NIS0025L

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  SIIA0993E	Locating the noise
(J43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairing the cause of noise

Commercial Service Tools

NIS0025M

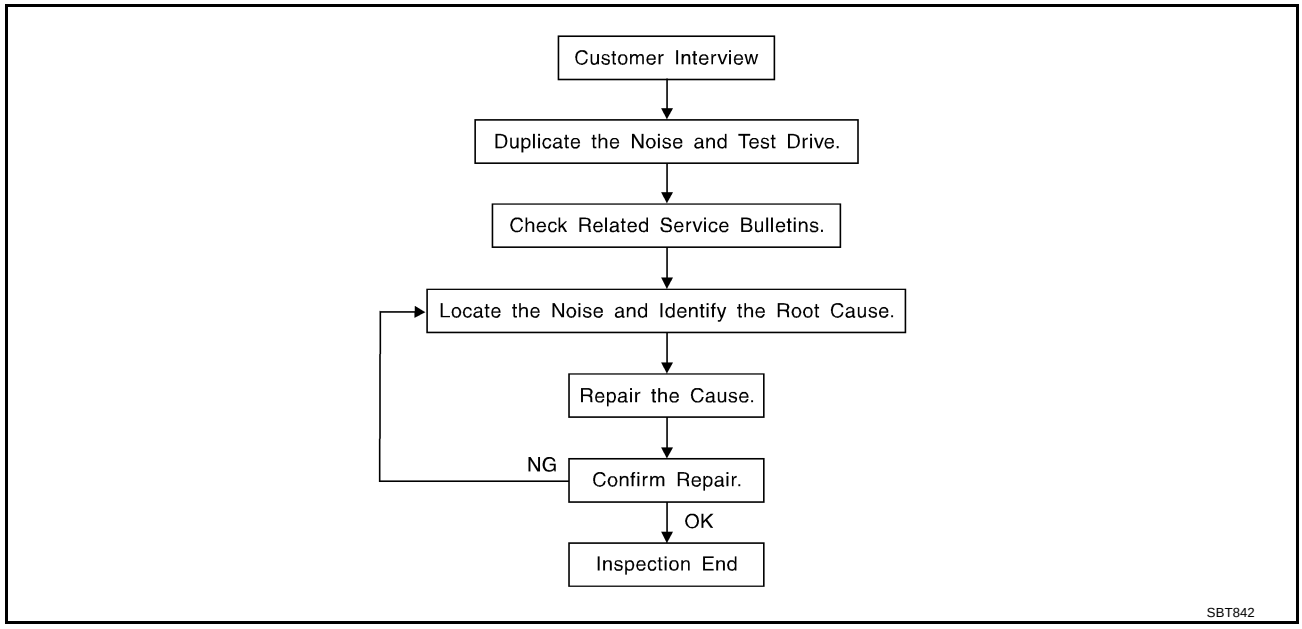
Tool name	Description
Engine ear  SIIA0995E	Locating the noise

SQUEAK AND RATTLE TROUBLE DIAGNOSES

PFP:00000

Work Flow

NIS0025N



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.

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 models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

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

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.
If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear 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 SE-7, "Generic Squeak and Rattle Troubleshooting" .

REPAIR THE CAUSE

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

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

NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02: 15 × 25 mm (0.59 × 0.98 in)
INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)

INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97 in)
FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll
The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that will be visible or not fit. 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

NIS0025O

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

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

TRUNK

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

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. 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. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

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

SEATS

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

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

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

UNDERHOOD

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

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

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

Diagnostic Worksheet

NIS0025P

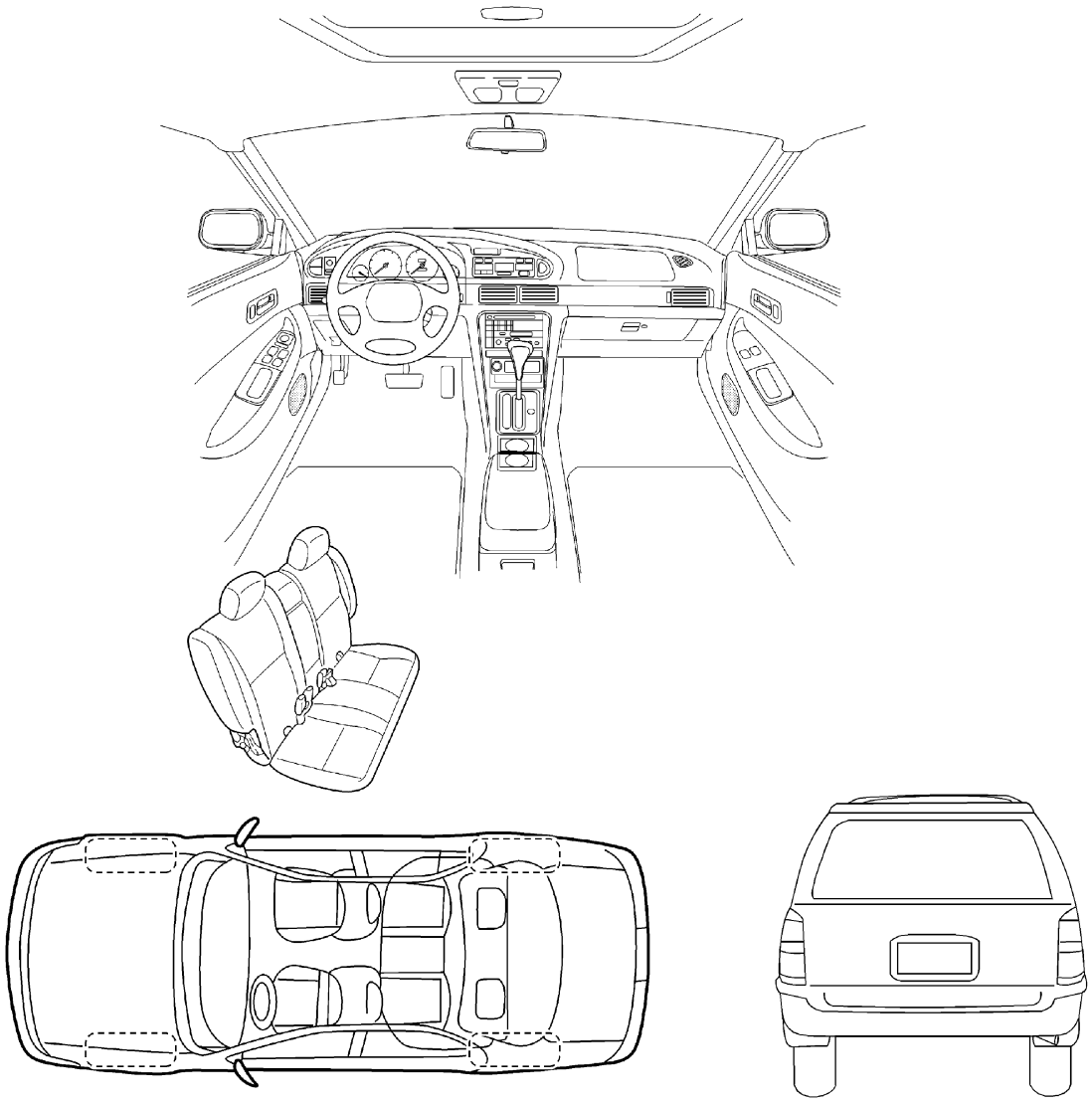
INFINITI

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 vehicle.



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

SBT860

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET- page 2

Briefly describe the location where the noise occurs:

_____

_____

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

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

III. WHEN DRIVING:

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

IV. WHAT TYPE OF NOISE?

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

TO BE COMPLETED BY DEALERSHIP PERSONNEL
Test Drive Notes:

_____

_____

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

VIN: _____ Customer Name: _____

W.O. #: _____ Date: _____

This form must be attached to Work Order

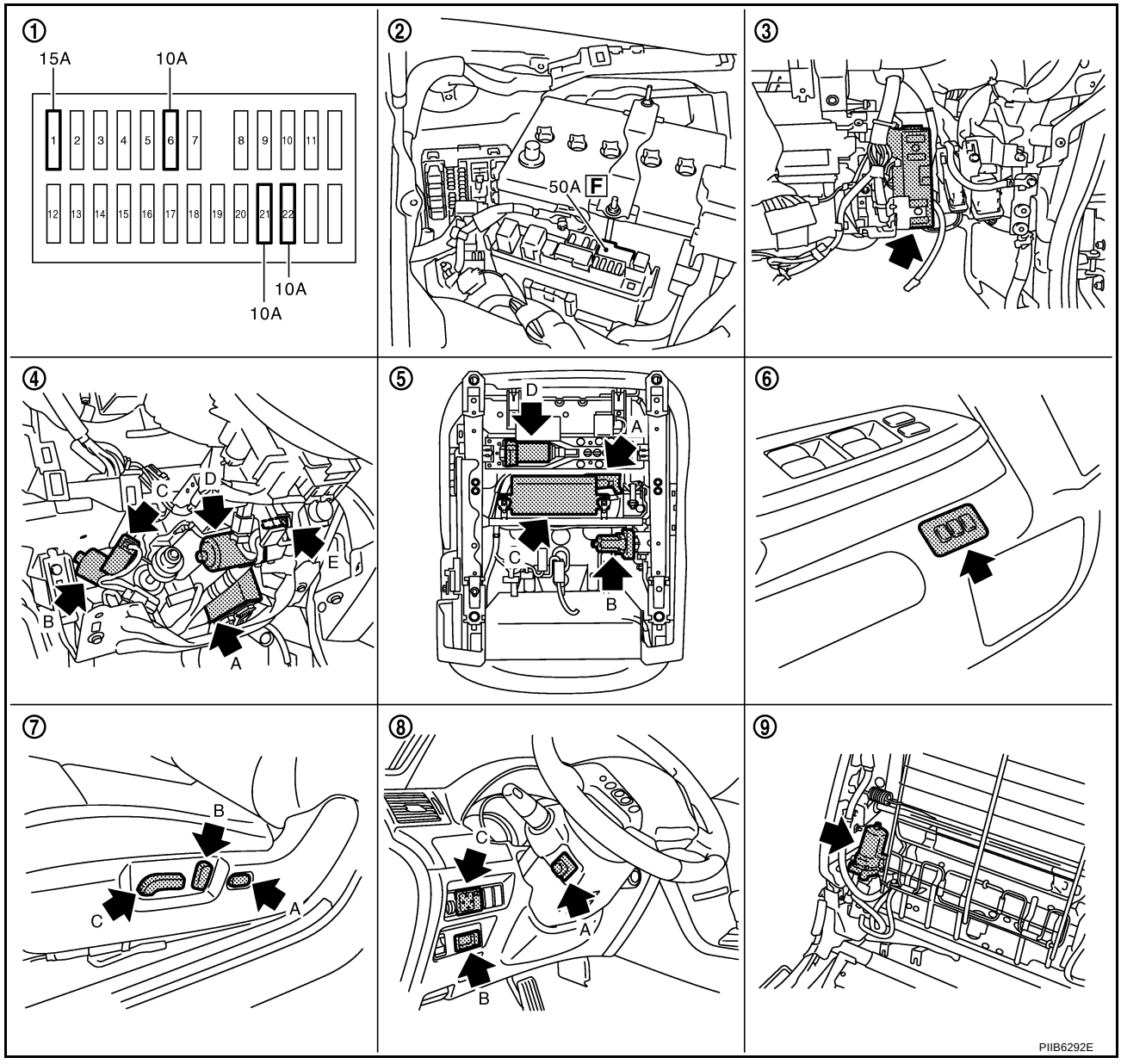
SBT844

AUTOMATIC DRIVE POSITIONER

PFP:28491

Component Parts And Harness Connector Location

NIS0025Q



1. Fuse block (J/B)
2. Fuse and fusible link box
3. BCM M1, M2, M3
   (View with the glove box assembly removed)
4. A. Automatic drive positioner control unit M6, M7
   B. Telescopic motor M45
   C. Telescopic sensor M44
   D. Tilt sensor M37
   E. Tilt motor M36
   (View with the driver lower panel removed)
5. A. Front lifting motor B209
   B. Rear lifting motor B208
   C. Driver seat control unit B204,B205
   D. Sliding motor B207
6. Seat memory switch D9
7. A. Lumbar support switch B212
   B. Reclining switch B213
   C. Sliding/Lifting switch B213
8. A. ADP steering switch M46
   B. Key slot M14
   C. Door mirror control switch M95
9. Reclining motor B208

System Description

NIS0025R

- The system automatically moves the driver seat, steering and door mirror position by the driver seat control unit and the automatic drive positioner control unit. The driver seat control unit corresponds with the automatic drive positioner control unit via UART communication. The driver seat control unit can store the optimum driving positions (driver seat, steering and door mirror position) for 2 people. If the driver changes, one-touch operation allows changing to the other driving position.
- The driver seat, steering and door mirror position are adjusted automatically to the proper positions for the driver in different ways: MEMORY OPERATION, EXITING OPERATION, ENTRY OPERATION and INTELLIGENT KEY INTERLOCK OPERATION.

Function			Description
Manual operation			The driving position (seat, steering and door mirror position) can be adjusted with the power seat switch ADP steering switch or door mirror control switch.
Automatic operation	Memory operation		The seat, steering and door mirror move to the stored driving position by pushing seat memory switch (1 or 2).
	Entry/ Exiting function	Exiting operation	At exit, the seat moves backward and the steering wheel moves upward.
		Entry operation	At entry, the seat and steering wheel returns from exiting position to the previous driving position before the exiting operation.
	Intelligent Key interlock operation		Perform memory operation, exiting operation and entry operation by pressing Intelligent Key unlock button.

MANUAL OPERATION

The driving position (seat, steering and door mirror position) can be adjusted with the power seat switch, ADP steering switch and door mirror control switch.

NOTE:
The door mirrors can be manually operated with the ignition switch in either ACC or ON.

MEMORY OPERATION

The driver seat control unit can store the optimum driving positions (seat, steering and door mirror position) for 2 people. If the front seat position is changed, one-touch (pressing desired memory switch for more than 0.5 second) operation allows changing to the other driving position.

Operation procedure

1. Turn ignition switch ON.
2. Press desired memory switch for 0.5 second. (Indicator LED illuminates.)
3. Driver seat, steering and door mirror will move to the memorized position.
   (Indicator LED blinks during adjustment, then illuminates for 5 seconds.)

Operation Condition

If the following conditions are not satisfied, memory switch operation is not performed.

- Ignition switch is in ON position.
- Driver side power seat switch, ADP steering switch and door mirror control switch are not operated.
- Seat memory switch and set switch are not operated.
- Output malfunction is not detected.
- CAN and UART communications are normal.
- A/T selector lever position is in P position.
- Detention switch malfunction is not detected.
  [Detention switch malfunction is sensed when detention switch remains OFF, vehicle speed is higher than 7 km/H. (4 MPH).]
- Input voltage from tilt sensor and telescopic sensor are normal.

NOTE:
The memory operation operates following order.

Order of priority	Operated portion
1*	Seat sliding
2	Steering telescopic
3	Steering wheel tilt
4	Seat reclining
5	Seat lifter (front)
6	Seat lifter (rear)

*: Door mirror operation starts with the start of seat sliding operation.

Storing Memory Procedure

1. Turn ignition switch to ON.
2. Shift A/T selector lever to P position.
3. Adjust position of driver seat, steering and mirror position.
4. Press set switch.
   - Indicator LED for which driver seat positions are already retained in memory is illuminated for 5 seconds.
   - Indicator LED for which driver seat positions are not retained in memory is illuminated for 0.5 second.
5. Press memory switch for which driver seat positions are to be entered in memory for more than 0.5 second within 5 seconds after pressing the set switch (during the indicator LED is illuminated).
   - To enter driver seat positions in blank memory, indicator LED will be illuminated for 5 seconds.
   - To modify driver seat positions, indicator LED will be turned OFF for 0.5 second then illuminated for 5 seconds.
6.
   - If you need setting of INTELLIGENT KEY INTERLOCK OPERATION, continue this procedure.
   - If you don't need setting of INTELLIGENT KEY INTERLOCK OPERATION, the procedure is finished. Conform the operations of each part with the MEMORY OPERATION.
7. Press intelligent key unlock button within 5 seconds after pressing memory switch. (While memory switch LED is illuminated.)
8. Conform the operations of each part with MEMORY OPERATION and INTELLIGENT KEY INTERLOCK OPERATION.

NOTE:

- Driving position is erased from the memory when battery cable is disconnected.

EXITING OPERATION

When exiting, when the condition is satisfied, the seat is moved backward 40 mm (1.57 in) from normal sitting position and the steering is moved to the most upper position and front position.
The seat slide amount and the steering operation at entry/exit operation can be changed by set switch, CONSULT-II and display (located in the instrument panel). Refer to SE-16, "SETTING CHANGE FUNCTION" .

Operation Condition

- Ignition switch: OFF / Driver side door switch: ON (OPEN)

If the following conditions are not satisfied, exiting operation is not performed.

- Ignition switch is in OFF position.
- A/T selector lever position is in P position.
- Vehicle speed is less than 7 km/h. (4 MPH).
- Driver side power seat switch and ADP steering switch are not operated.
- Seat memory switch and set switch is not operated.
- Door mirror control switch is not operated at change over switch is in LH or RH position.
- Output malfunction is not detected.
- Detention switch malfunction is not detected.
  [Detention switch malfunction is sensed when detention switch remains OFF and vehicle speed is higher than 7 km/h. (4 MPH).]
- CAN communications are normal.
- Initialization has been done. Refer to SE-16, "INITIALIZATION PROCEDURE" .

ENTRY OPERATION

When the seat is in the exiting position when either condition (1 or 2) is satisfied, the seat returns from exiting position to the previous driving position.

Operation Condition

1. Ignition switch: ON
2. Ignition switch: ACC / Driver side door switch: OFF (CLOSE)

If the following conditions are not satisfied, entry operation is not performed.

- Ignition switch is in OFF position.
- A/T selector lever position is in P position.
- Vehicle speed is less than 7 km/h (4 MPH).
- Driver side power seat switch, ADP steering switch and door mirror control switch are not operated.
- Seat memory switch and set switch is not operated.
- Output malfunction is not detected.
- Detention switch malfunction is not detected.
  [Detention switch malfunction is sensed when detention switch remains OFF and vehicle speed is higher than 7 km/h (4 MPH).]
- CAN communications are normal.
- Exiting positions have not been changed during and after exiting operation.

INTELLIGENT KEY INTERLOCK OPERATION

When pressing unlock button on Intelligent Key or request switch, the system performs memory operation, exiting operation and entry operation.

Operation procedure

1. Press unlock button on Intelligent Key or request switch.
2. The system performs MEMORY OPERATION, and then performs EXITING OPERATION continually.

NOTE:
If the seat position is in memorized position before push unlock button, MEMORY OPEPATION dose not perform.

3. Turn ignition switch ON or close driver side door when ignition switch is in “ACC” position.
4. The system performs ENTRY OPERATION. (Seat and steering positions are moved to memorized positions. The memorize position is related to key ID.)

Operation Condition

If the following conditions are not satisfied, memory switch operation is not performed.

- Ignition switch is in OFF position.
- Driver side power seat switch and door mirror control switch are not operated.
- Seat memory switch and set switch are not operated.
- Output malfunction is not detected.
- CAN and UART communications are normal.
- A/T selector lever position is in P position.
- Detention position switch malfunction is not detected.
  [Detention position switch malfunction is sensed when detention switch remains OFF and vehicle speed is higher than 7 km/h (4 MPH).]

Linking Intelligent Key to the Stored Memory Procedure

NOTE:

- 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.
- If entry / exiting operation is cancelled, perform memory operation only.

FAIL-SAFE MODE

If any of the parts move more than a period “T” without any switch operation, MEMORY OPERATION, EXITING OPERATION, ENTRY OPERATION, INTELLIGENT KEY INTERLOCK OPERATION and the malfunction part of manual operations are not operated (output malfunction).

Operated portion	T
Seat sliding	Approx. 0.1 sec.
Seat reclining	Approx. 0.1 sec.
Seat lifter (front)	Approx. 0.1 sec.
Seat lifter (rear)	Approx. 0.1 sec.
Steering tilt	Approx. 0.1 sec.

Canceling Fail-safe Mode

The mode is cancelled by either of the following operations.

- When the selector lever is shifted to P position from any other position (detention switch is turned OFF).

INITIALIZATION PROCEDURE

After reconnecting battery cable, perform initialization procedure A or B. If initialization has not been performed, EXITING OPERATION will not operate.

Procedure A

1. Turn ignition switch from ACC to OFF position.
2. Driver door switch is ON (open) → OFF (close) → ON (open).
3. END

Procedure B

1. Drive the vehicle at more than 25 km/h (16 MPH).
2. END

SETTING CHANGE FUNCTION

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.

×: Applicable –: Not applicable

Setting item	Content	CONSULT–II (WORK SUPPORT)	Display unit	Factory setting
Change seat sliding volume setting	The distance at retain operation can be selected from the following 3 modes.	40 mm	—	×
		80 mm		—
		150 mm		—
Change the Entry/Exit seat slide function setting	The seat sliding turnout and return at entry/exit can be selected: ON (operated) – OFF (not operated)	ON	ON: Indicator lamp ON	×
		OFF	OFF: Indicator lamp OFF	—
Change the Entry/Exit tilt steering wheel function setting	Lift up and backward steering wheel at entry and exit can be selected: ON (operated) - OFF (not operated)	ON	ON: Indicator lamp ON	×
		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 LED
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.		Blinking ones

CAN Communication System Description

NIS0025S

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.

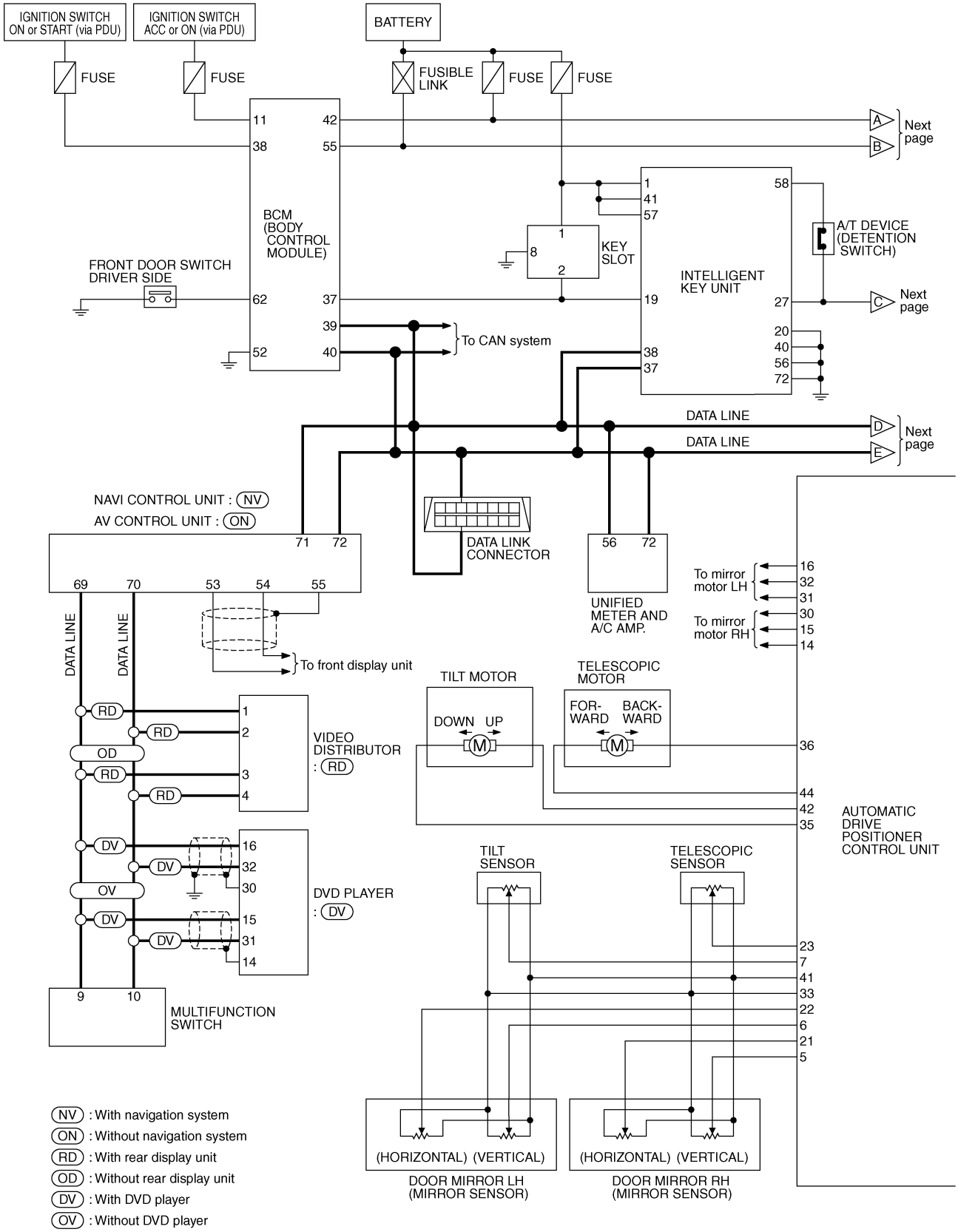
CAN Communication Unit

NIS0025T

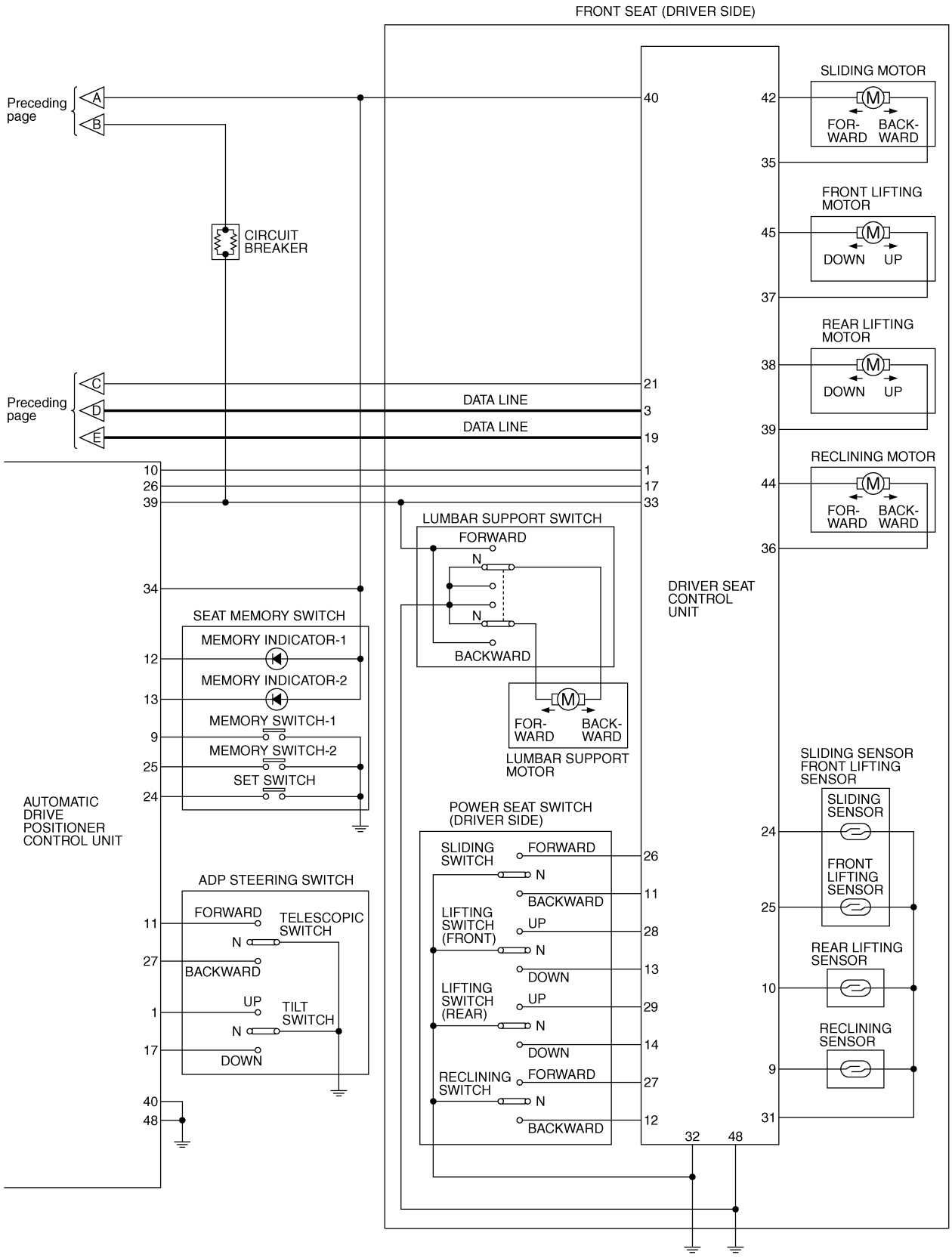
Refer to LAN-34, "CAN Communication Unit" .

Schematic

NIS0025U



TIWT1371E


FRONT SEAT (DRIVER SIDE)
Preceding page
A
B
CIRCUIT BREAKER
Preceding page
C
D
E
DATA LINE
DATA LINE
AUTOMATIC DRIVE POSITIONER CONTROL UNIT
SEAT MEMORY SWITCH
MEMORY INDICATOR-1
MEMORY INDICATOR-2
MEMORY SWITCH-1
MEMORY SWITCH-2
SET SWITCH
ADP STEERING SWITCH
FORWARD
TELESCOPIC SWITCH
N
BACKWARD
UP
TILT SWITCH
N
DOWN
LUMBAR SUPPORT SWITCH
FORWARD
N
N
BACKWARD
FOR-WARD
BACK-WARD
LUMBAR SUPPORT MOTOR
POWER SEAT SWITCH (DRIVER SIDE)
SLIDING SWITCH
FORWARD
N
BACKWARD
LIFTING SWITCH (FRONT)
UP
N
DOWN
LIFTING SWITCH (REAR)
UP
N
DOWN
RECLINING SWITCH
FORWARD
N
BACKWARD
DRIVER SEAT CONTROL UNIT
SLIDING MOTOR
FOR-WARD
BACK-WARD
FRONT LIFTING MOTOR
DOWN
UP
REAR LIFTING MOTOR
DOWN
UP
RECLINING MOTOR
FOR-WARD
BACK-WARD
SLIDING SENSOR FRONT LIFTING SENSOR
SLIDING SENSOR
FRONT LIFTING SENSOR
REAR LIFTING SENSOR
RECLINING SENSOR
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34
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13
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24
11
27
1
17
40
48
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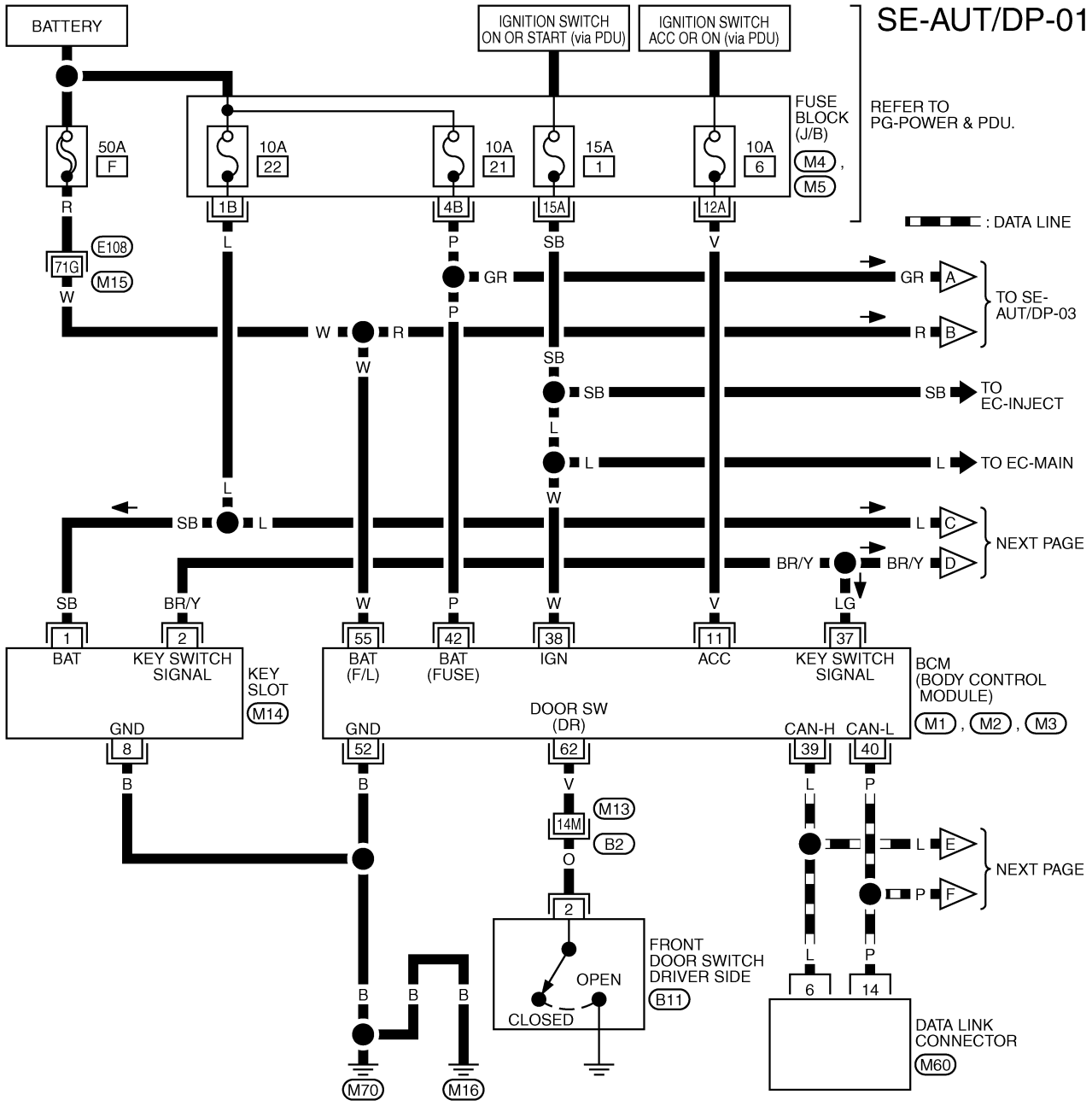
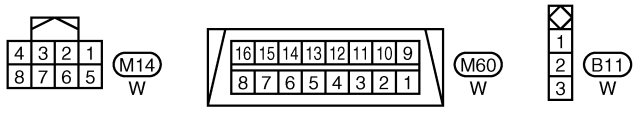
TIWT1372E

Wiring Diagram—AUT/DP—

NIS0025V

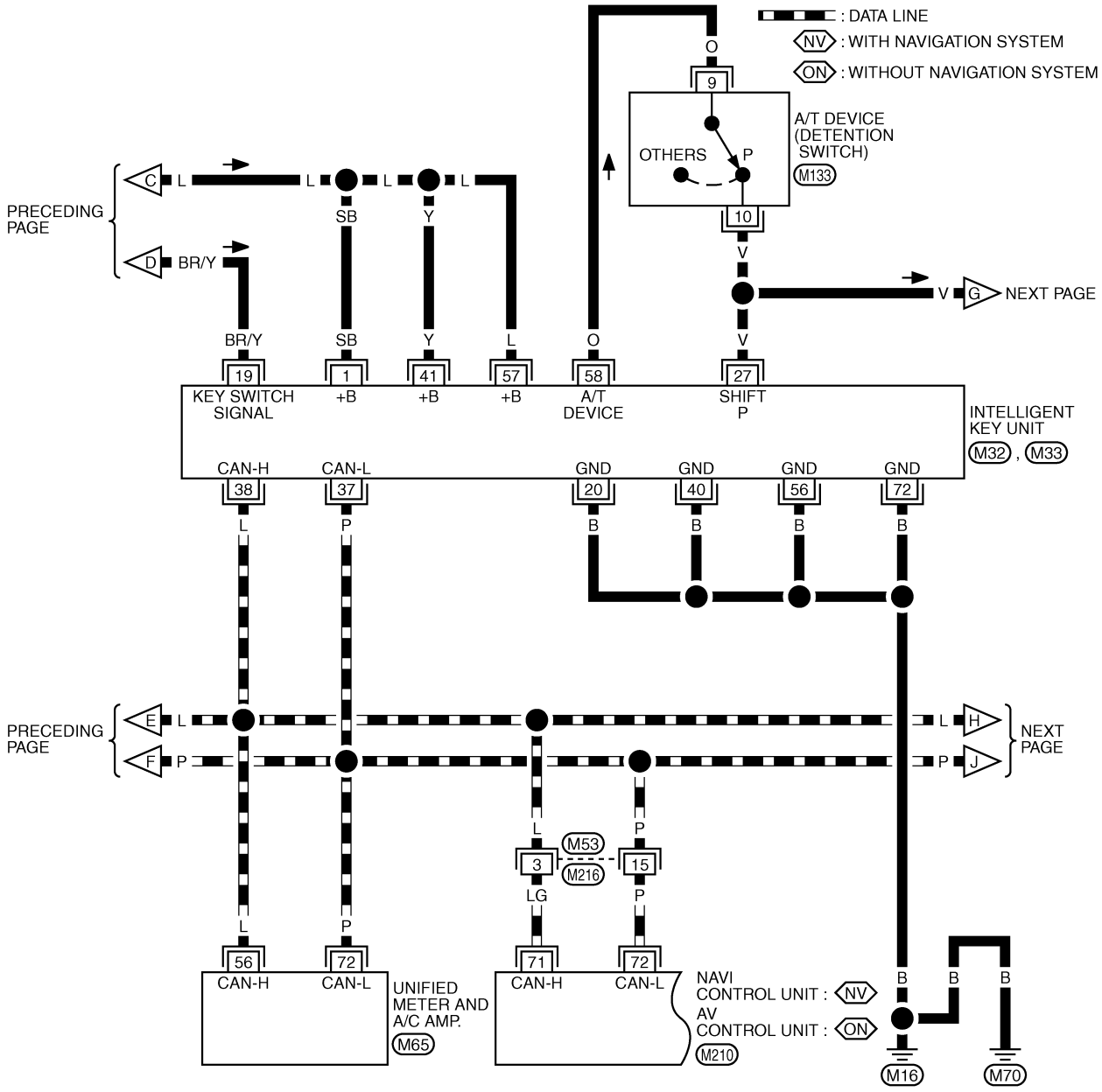


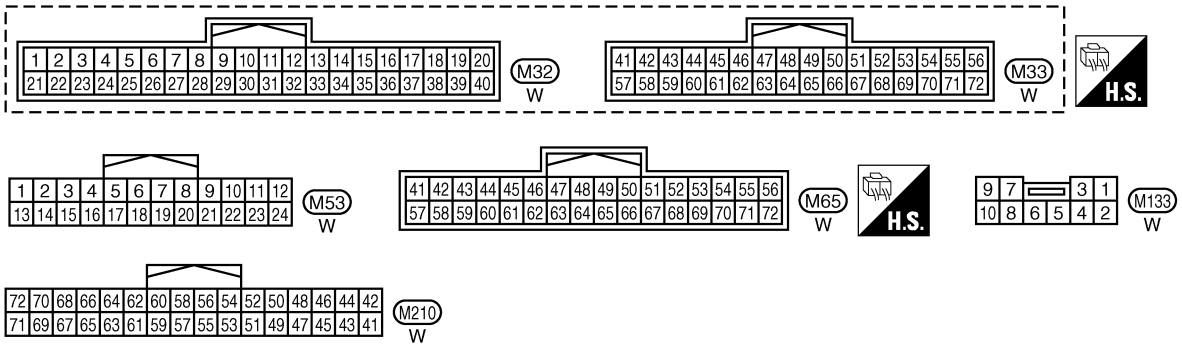


REFER TO THE FOLLOWING.
E108, B2 -SUPER MULTIPLE JUNCTION (SMJ)
M4, M5 -FUSE BLOCK-JUNCTION BOX (J/B)
M1, M2, M3 -ELECTRICAL UNITS

TIWT1373E

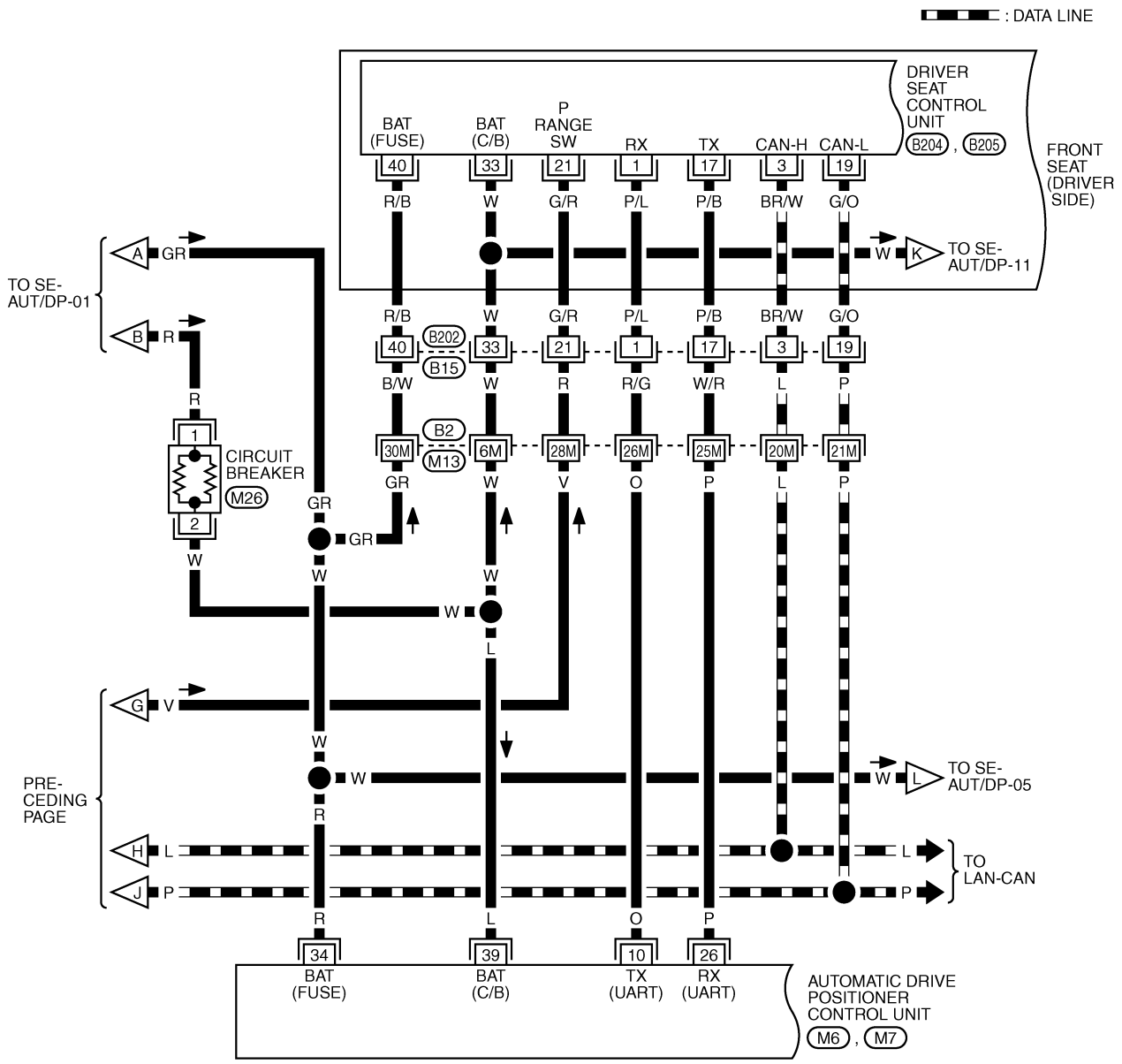
SE-AUT/DP-02

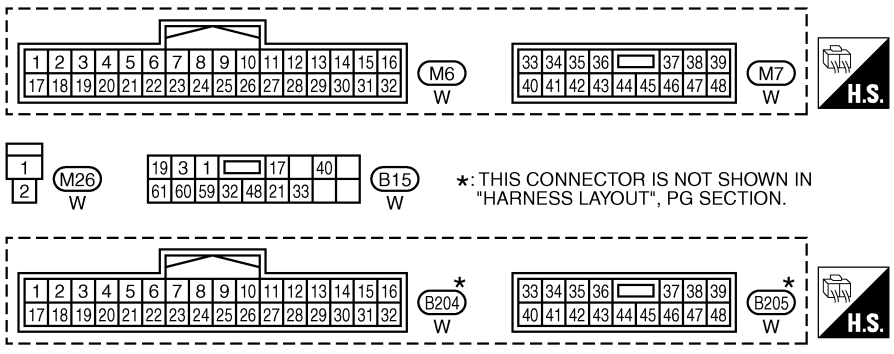




TIWT1374E

SE-AUT/DP-03



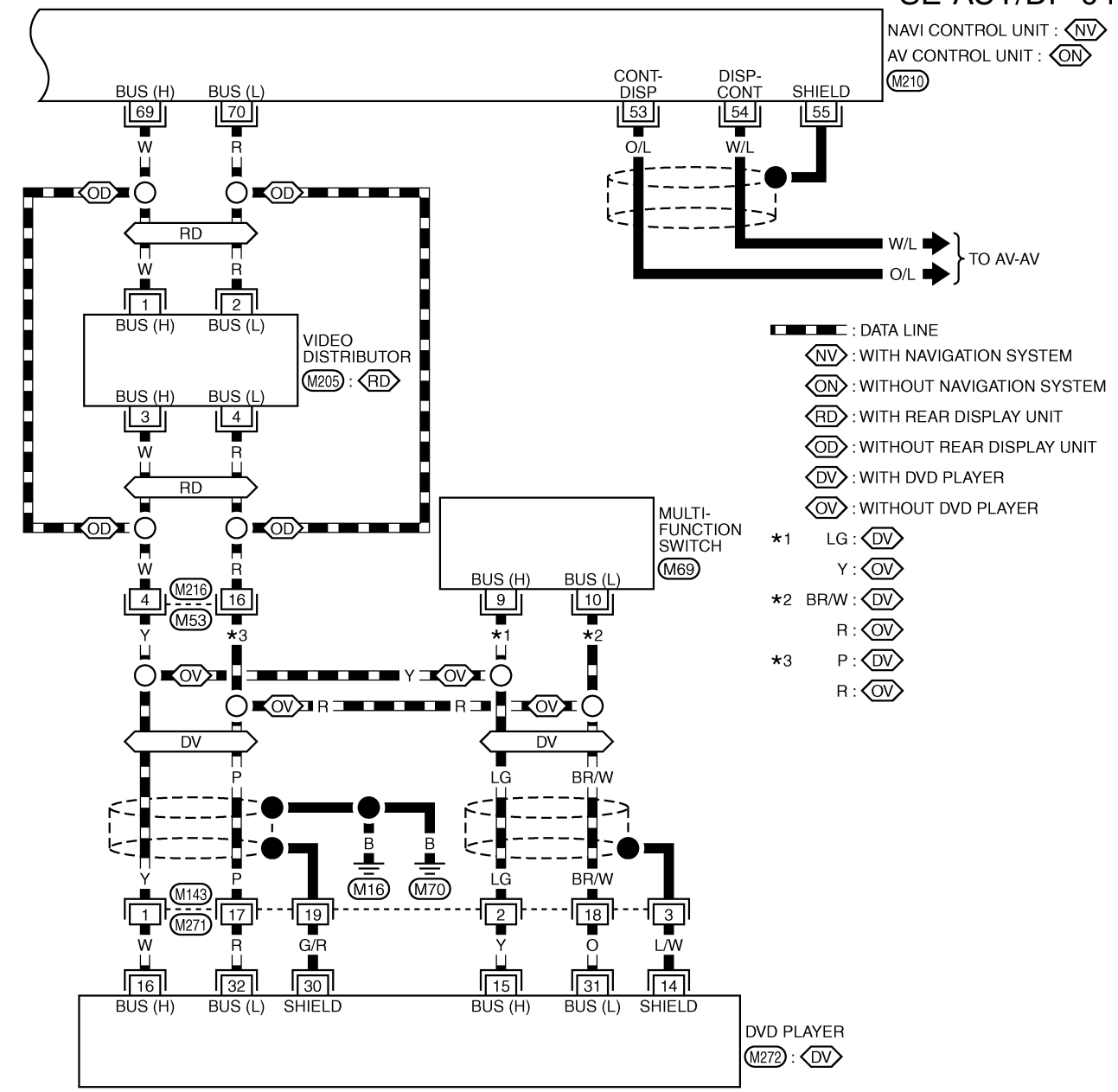


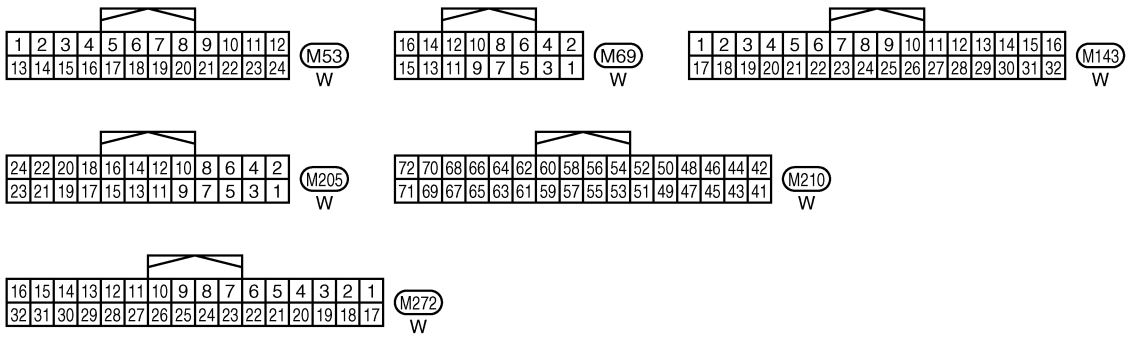
REFER TO THE FOLLOWING.

B2 -SUPER MULTIPLE JUNCTION (SMJ)

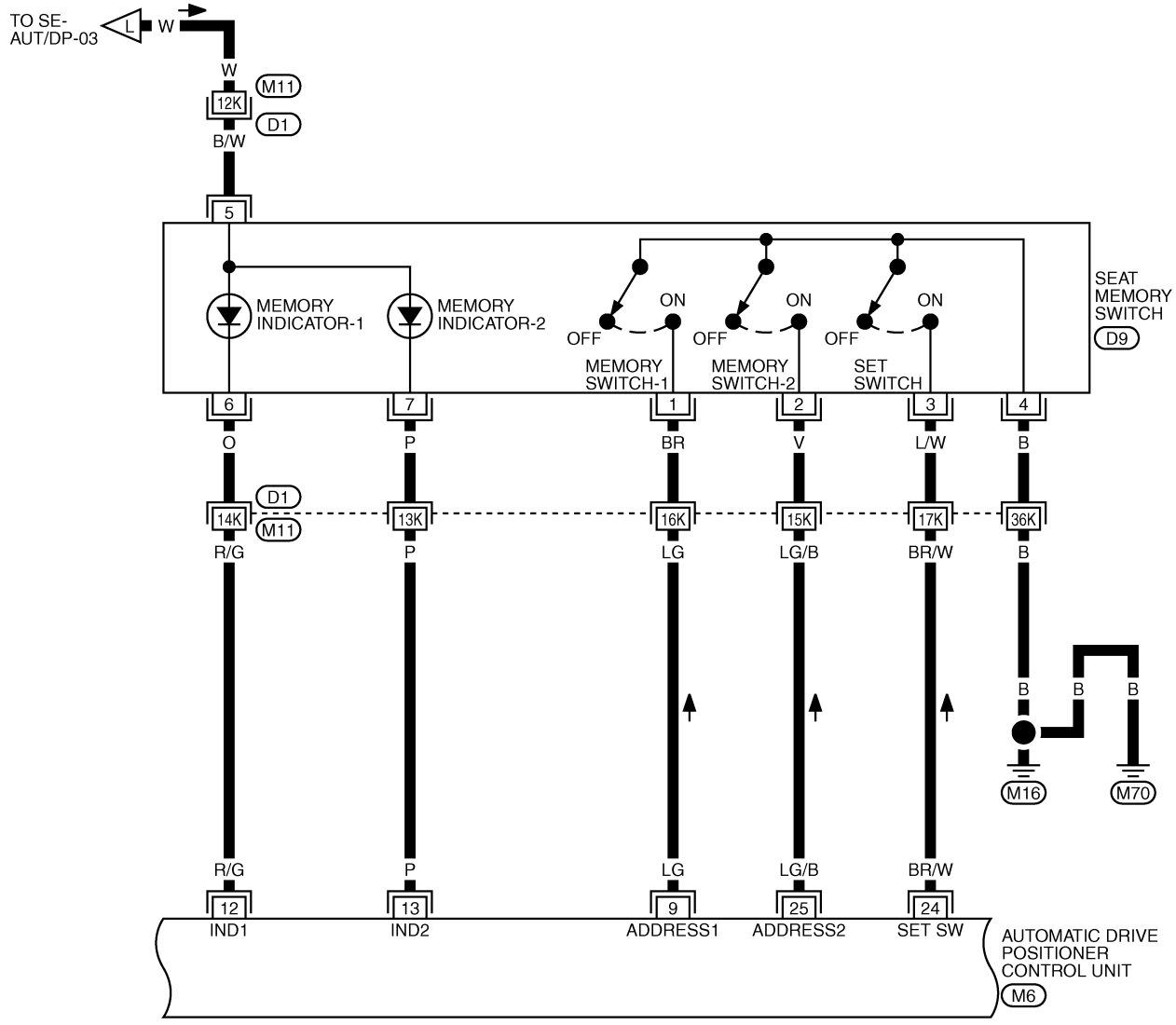
TIWT1375E

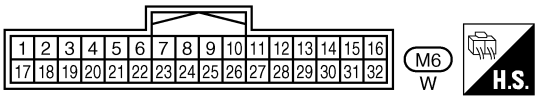
SE-AUT/DP-04

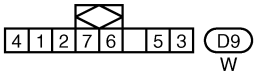




TIWT1376E



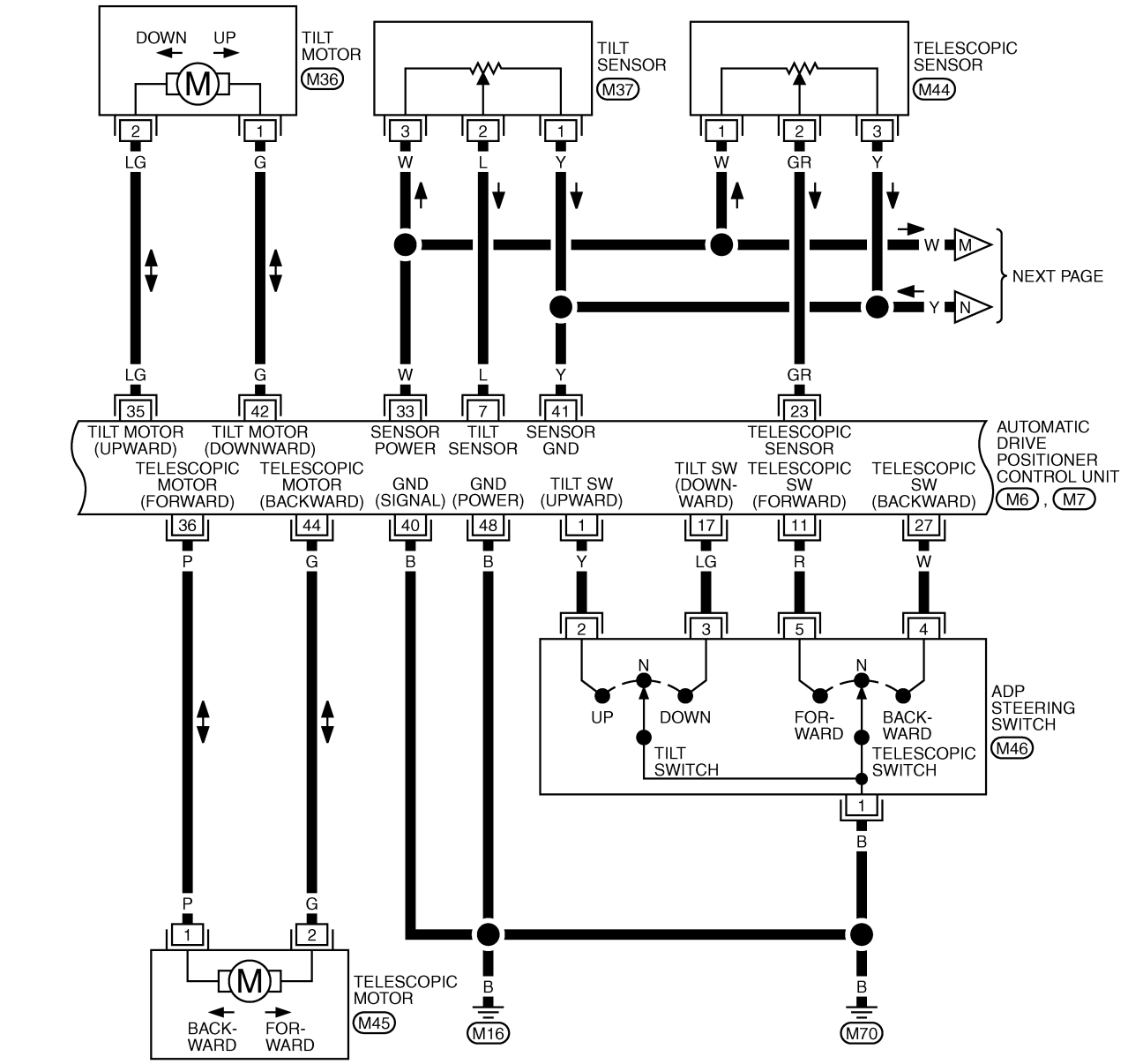


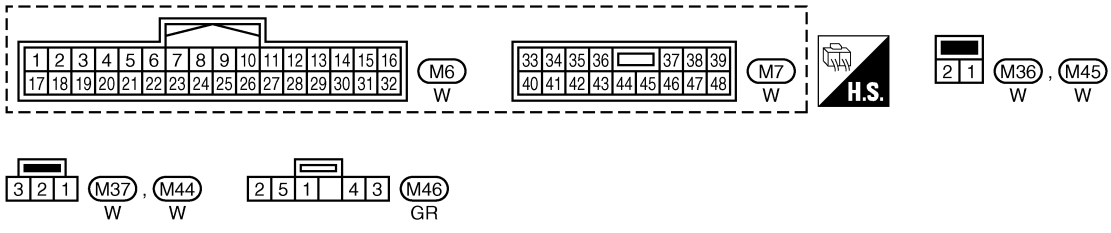


REFER TO THE FOLLOWING.
D1 -SUPER MULTIPLE JUNCTION (SMJ)

TIWT1377E

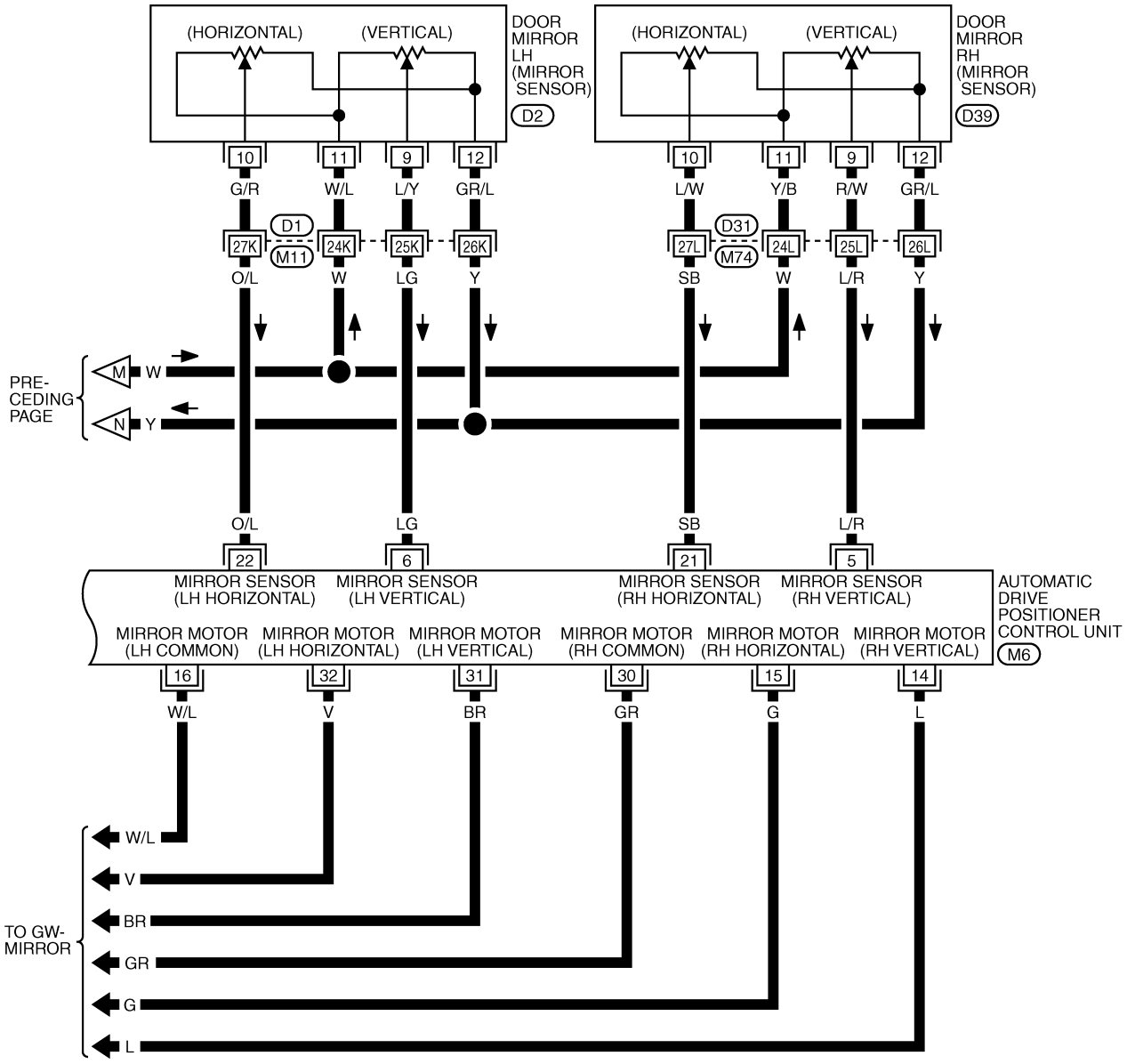
SE-AUT/DP-06

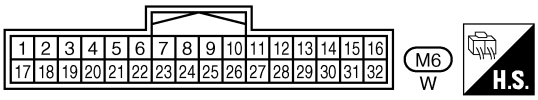


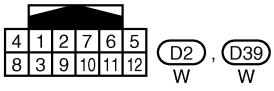


TIWT1378E

SE-AUT/DP-07

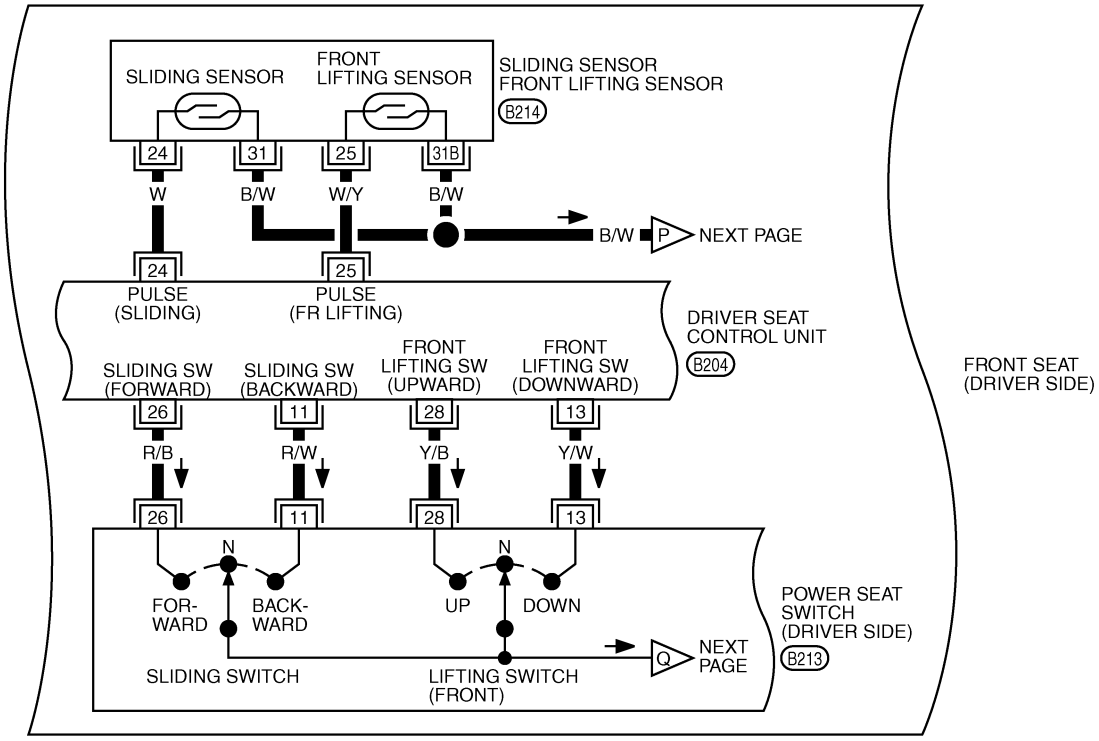






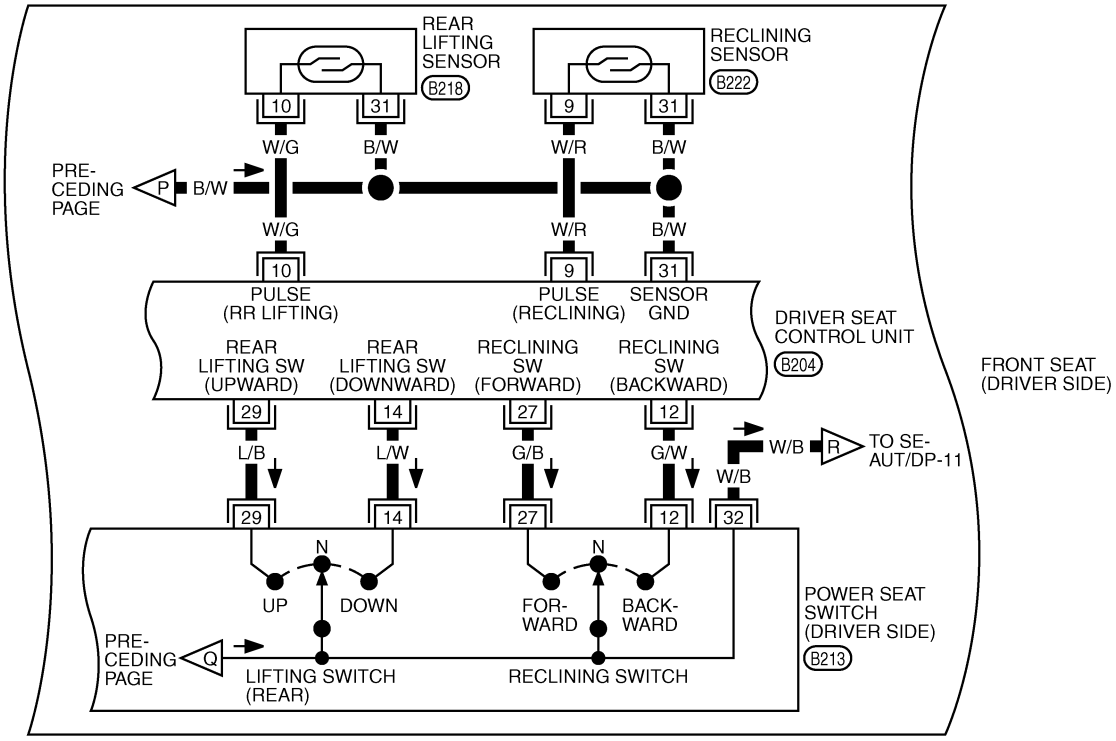
REFER TO THE FOLLOWING.
D1 , D31 -SUPER MULTIPLE JUNCTION (SMJ)

TIWT1379E



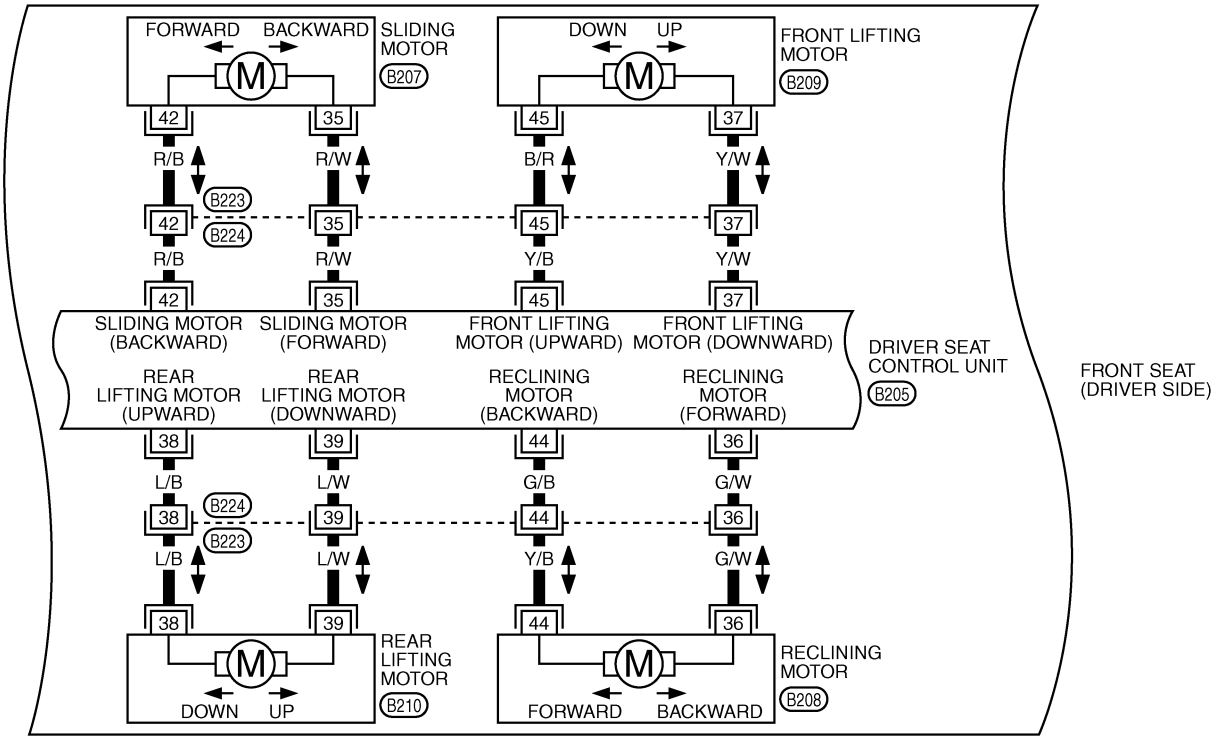
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

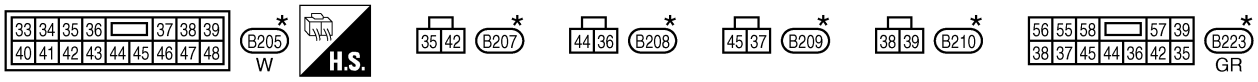
TIWT1380E



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

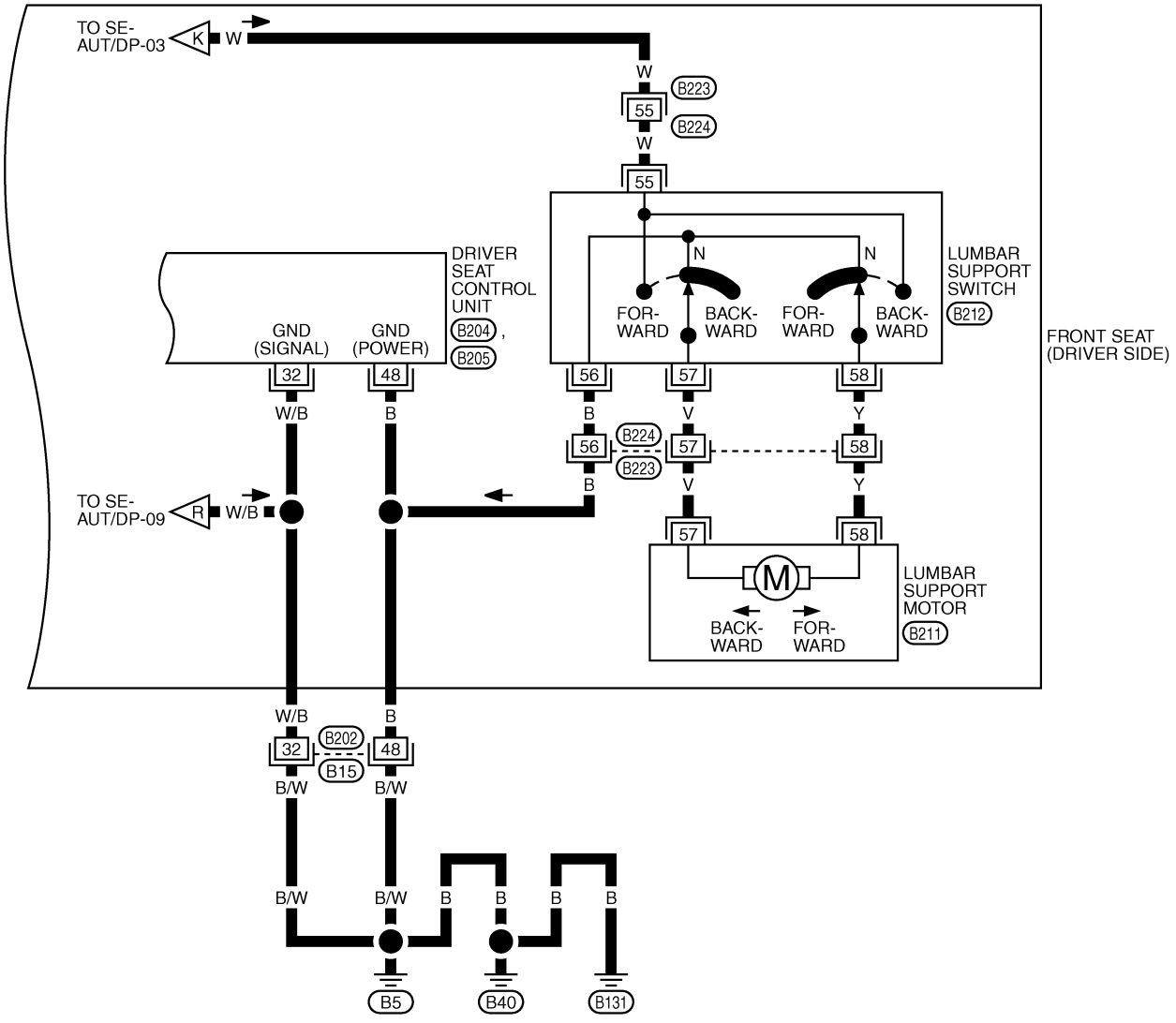
TIWT1381E

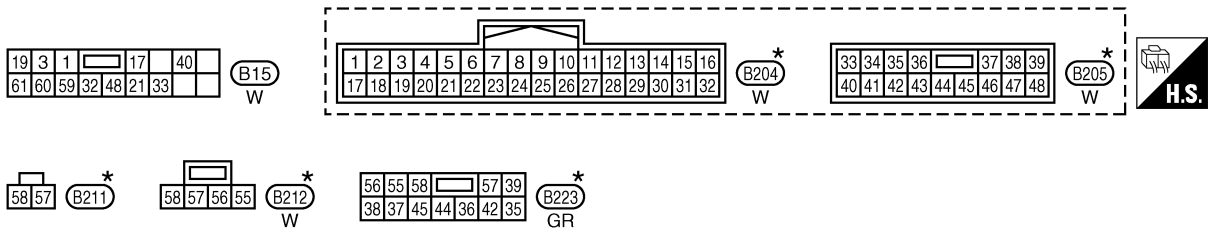




*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWT1382E





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

TIWT1383E

Terminals and Reference Values for BCM

NIS0025W

Terminal	Wire color	Item	Condition	Voltage (V) (Approx)
11	V	Power source (ACC)	Ignition switch (ACC or ON position)	Battery voltage
37	LG	Key switch signal	Key switch ON (Key is inserted in key slot)	Battery voltage
			Key switch OFF (Key is remove from key slot)	0
38	W	Power source (IGN)	Ignition switch (ON or START position)	Battery voltage
39	L	CAN-H	—	—
40	P	CAN-L	—	—
42	P	Power source (Fuse)	—	Battery voltage
52	B	Ground	—	0
55	W	Power source (Fusible link)	—	Battery voltage
62	V	Drive side door switch	ON (Open) → OFF (Closed)	0 → Battery voltage

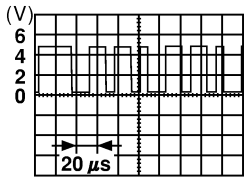
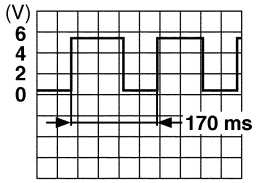
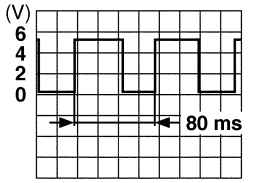
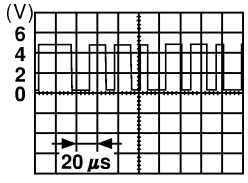
Terminals and Reference Value for Intelligent Key Unit

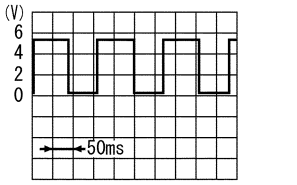
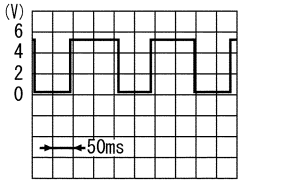
NIS0025X

Terminal	Wire Color	Item	Condition		Voltage (V) Approx.
			Ignition Switch Position	Operation or Conditions	
1	SB	Power source (Fuse)	—	—	Battery voltage
19	BR/Y	Key switch signal	LOCK	Insert Intelligent Key into key slot.	Battery voltage
				Remove Intelligent Key from key slot.	0
20	B	Ground	ON	—	0
27	V	P range switch	—	Selector lever is in “P” position.	0
				Other than above	Battery voltage
37	P	CAN-L	—	—	—
38	L	CAN-H	—	—	—
40	B	Ground	ON	—	0
41	Y	Power source (Fuse)	—	—	Battery voltage
56	B	Ground	ON	—	0
57	L	Power source (Fuse)	—	—	Battery voltage
58	O	A/T device power supply	—	Wake up state	Battery voltage
				Sleep state	0
72	B	Ground	ON		0

Terminals and Reference Values for Driver Seat Control Unit

NIS0025Y

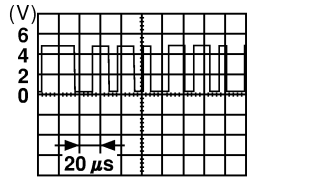
Terminal	Wire color	Item	Condition	Voltage (V) (Approx)
1	P/L	UART LINE (RX)	Tilt switch operated	 SKIA0175E
3	BR/W	CAN-H	—	—
9	W/R	Reclining sensor signal	ON (seat reclining motor operation)	 PIIB2807E
			Other than above	0 or 5
10	W/G	Rear lifting sensor signal	ON (rear lifting motor operation)	 PIIB2809E
			Other than above	0 or 5
11	R/W	Sliding switch backward signal	ON (seat sliding switch backward operation)	0
			Other than above	Battery voltage
12	G/W	Reclining switch backward signal	ON (seat reclining switch backward operation)	0
			Other than above	Battery voltage
13	Y/W	Front lifting switch DOWN signal	ON (front lifting switch DOWN operation)	0
			Other than above	Battery voltage
14	L/W	Rear lifting switch DOWN signal	ON (rear lifting switch DOWN operation)	0
			Other than above	Battery voltage
17	P/B	UART LINE (TX)	Tilt switch operated	 SKIA0175E
19	G/O	CAN-L	—	—
21	G/R	Detention switch signal	A/T selector lever is in P position.	0
			A/T selector lever is in other than P position.	Battery voltage

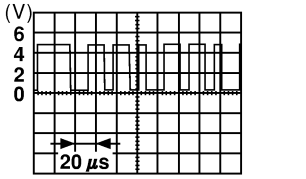
Terminal	Wire color	Item	Condition	Voltage (V) (Approx)
24	W	Seat sliding sensor signal	ON (seat sliding motor operation)	 SIIA0690J
			Other than above	0 or 5
25	W/Y	Front lifting sensor signal	ON (front lifting motor operation)	 SIIA0691J
			Other than above	0 or 5
26	R/B	Seat sliding switch forward signal	ON (seat sliding switch forward operation)	0
			Other than above	Battery voltage
27	G/B	Seat reclining switch forward signal	ON (seat reclining switch forward operation)	0
			Other than above	Battery voltage
28	Y/B	Front lifting switch UP signal	ON (front lifting switch UP operation)	0
			Other than above	Battery voltage
29	L/B	Rear lifting switch UP signal	ON (rear lifting switch UP operation)	0
			Other than above	Battery voltage
31	B/W	Sensor ground	—	0
32	W/B	Ground (signal)	—	0
33	W	Power source (C/B)	—	Battery voltage
35	R/W	Sliding motor forward output signal	Sliding switch forward operation (Motor operated)	Battery voltage
			Other than above	0
36	G/W	Reclining motor forward output signal	Reclining switch forward operation (Motor operated)	Battery voltage
			Other than above	0
37	Y/W	Front lifting motor DOWN output signal	Front lifting switch down operation (Motor operated)	Battery voltage
			Other than above	0
38	L/B	Rear lifting motor UP output signal	Rear lifting switch up operation (Motor operated)	Battery voltage
			Other than above	0
39	L/W	Rear lifting motor DOWN output signal	Rear lifting switch down operation (Motor operated)	Battery voltage
			Other than above	0
40	R/B	Power source (Fuse)	—	Battery voltage
42	R/B	Sliding motor backward output signal	Sliding switch backward operation (Motor operated)	Battery voltage
			Other than above	0

Terminal	Wire color	Item	Condition	Voltage (V) (Approx)
44	G/B	Reclining motor backward output signal	Reclining switch backward operation (Motor operated)	Battery voltage
			Other than above	0
45	Y/B	Front lifting motor UP output signal	Front lifting switch upward operation (Motor operated)	Battery voltage
			Other than above	0
48	B	Ground (power)	—	0

Terminals and Reference Values for Automatic Drive Positioner Control Unit

NIS0025Z

Terminal	Wire color	Item	Condition	Voltage (V) (Approx)
1	Y	Tilt switch UP signal	Tilt switch is UP operation	0
			Other than above	5
5	L/R	Mirror sensor (RH vertical) signal	When mirror motor RH is UP or DOWN operation	Changes between 4.2 (close to perk) 0.5 (close to valley)
6	LG	Mirror sensor (LH vertical) signal	When mirror motor LH is UP or DOWN operation	Changes between 4.2 (close to perk) 0.5 (close to valley)
7	L	Tilt sensor signal	Tilt position : Top	1
			Tilt position : Bottom	3.8
9	LG	Memory switch 1 signal	Memory switch 1 ON	0
			Other than above	5
10	O	UART LINE (TX)	Tilt switch operated	 SKIA0175E
11	R	Telescopic switch forward signal	When telescopic switch is forward operation	0
			Other than above	5
12	R/G	Memory switch indictor 1 signal	When illuminate indictor 1	1
			Other than above	Battery voltage
13	P	Memory switch indictor 2 signal	When illuminate indictor 2	1
			Other than above	Battery voltage
14	L	Mirror motor RH UP signal	When mirror motor RH UP operation	Battery voltage
			Other than above	0
15	G	Mirror motor RH LEFT signal	When mirror motor RH LEFT operation	Battery voltage
			Other than above	0
16	W/L	Mirror motor LH DOWN signal	When mirror motor LH DOWN operation	Battery voltage
			Other than above	0
		Mirror motor LH RIGHT signal	When mirror motor LH RIGHT operation	Battery voltage
			Other than above	0
17	LG	Tilt switch DOWN signal	When tilt switch is DOWN position	0
			Other than above	5

Terminal	Wire color	Item	Condition	Voltage (V) (Approx)
21	SB	Mirror sensor (RH horizontal) signal	When mirror motor RH is LEFT or RIGHT operation	Changes between 3.5 (close to left edge) 0.5 (close to right edge)
22	O/L	Mirror sensor (LH horizontal) signal	When mirror motor LH is LEFT or RIGHT operation	Changes between 0.5 (close to left edge) 3.5 (close to right edge)
23	GR	Telescopic sensor input	Telescopic position : Top	4.6
			Telescopic position : Bottom	0.4
24	BR/W	Set switch signal	Set switch ON	0
			Other than above	5
25	LG/B	Memory switch 2 signal	Memory switch 2 ON	0
			Other than above	5
26	P	UART LINE (RX)	Tilt switch is operated	 SKIA0175E
27	W	Telescopic switch backward signal	Telescopic switch turned to backward	0
			Other than above	5
30	GR	Mirror motor RH DOWN signal	When mirror motor RH DOWN operation	Battery voltage
			Other than above	0
		Mirror motor RH RIGTH signal	When mirror motor RH RIGHT operation	Battery voltage
			Other than above	0
31	BR	Mirror motor LH UP signal	When mirror motor LH UP operation	Battery voltage
			Other than above	0
32	V	Mirror motor LH LEFT signal	When mirror motor LH LEFT operation	Battery voltage
			Other than above	0
33	W	Sensor power supply	—	5
34	R	Power source (Fuse)	—	Battery voltage
35	LG	Tilt motor UP signal	Tilt switch is UP operation	Battery voltage
			Other than above	0
36	P	Telescopic motor forward signal	Telescopic switch is forward operation	Battery voltage
			Other than above	0
39	L	Power source (C/B)	—	Battery voltage
40	B	Ground	—	0
41	Y	Sensor ground	—	0
42	G	Tilt motor DOWN signal	Tilt switch is DOWN operation	Battery voltage
			Other than above	0
44	G	Telescopic motor backward signal	Telescopic switch is backward operation	Battery voltage
			Other than above	0
48	B	Ground	—	0

CONSULT-II Function (AUTO DRIVE POS.)

NIS00260

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

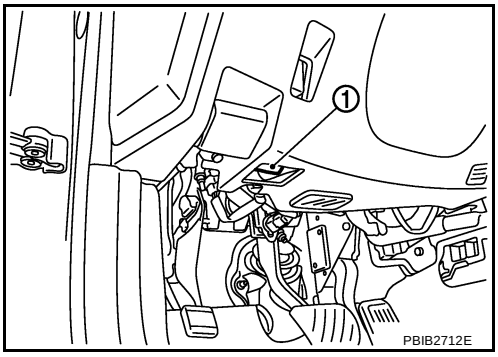
AUTO DRIVE POS. diagnostic mode	Description
WORK SUPPORT	Changes settings for each function.
SELF-DIAG RESULTS	Displays driver seat control unit self-diagnosis results.
DATA MONITOR	Displays driver seat control unit input/output data in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.
ECU PART NUMBER	Driver seat control unit part number can be read.

CONSULT-II INSPECTION PROCEDURE

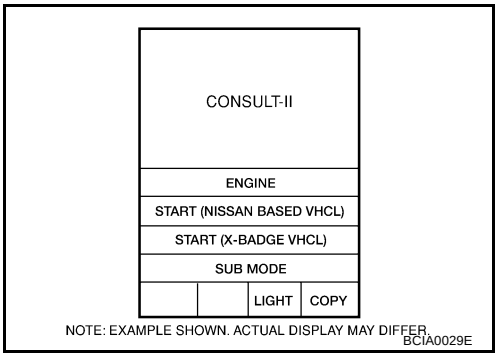
CAUTION:

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

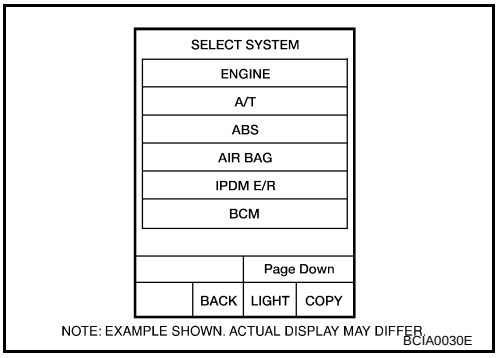
1. Turn ignition switch “OFF”.
2. Connect “CONSULT-II” and “CONSULT-II CONVERTER” to the data link connector (1).



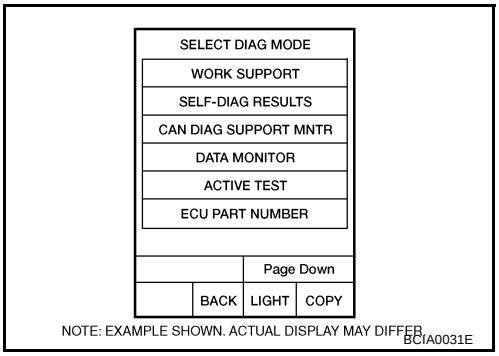
3. Turn ignition switch “ON”.
4. Touch “START (NISSAN BASED VHCL)”.



5. Touch “AUTO DRIVE POS”.
   If “AUTO DRIVE POS.” is not indicated, refer to GI-40, "CONSULT-II Data Link Connector (DLC) Circuit" .

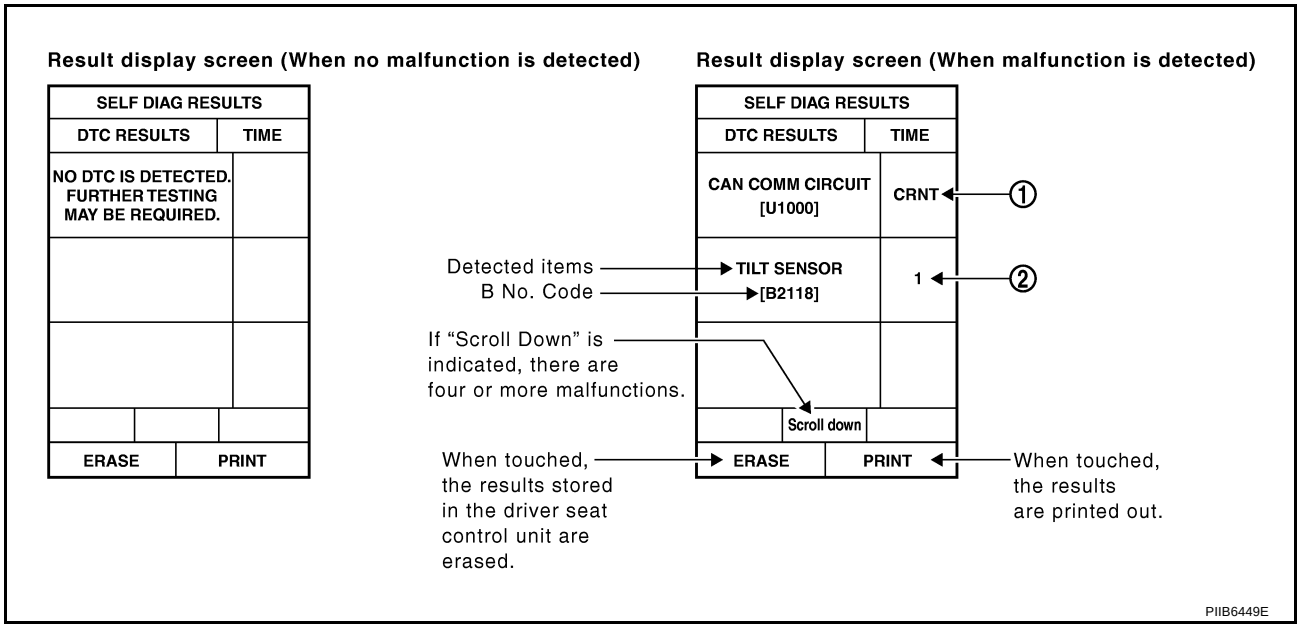


6. Select diagnosis mode.
“DATA MONITOR”, “ACTIVE TEST”, “SELF-DIAG RESULTS“, “ECU PART NUMBER”, “CAN DIAG SUPPORT MNTR” and “WORK SUPPORT” are available.



SELF-DIAGNOSIS RESULTS

HOW TO READ SELF-DIAG RESULTS



NOTE:

- CAN communication malfunction and detention switch malfunction are displayed on “TIME”. (1)
  - If error is detected in the present, “CRNT” is displayed.
  - If error is detected in the past (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 malfunction and detention switch malfunction are counted. (2)
  - If error is detected, error detection frequency is displayed from “1” to “127” 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”.

DISPLAY ITEM LIST

CONSULT-II display	Item	Malfunction is detected when...	Reference page
CAN COMM CIRC [U1000]	CAN communication	Malfunction is detected in CAN communication.	SE-41
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”.	SE-44 SE-52
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”.	SE-45 SE-54

CONSULT-II display	Item	Malfunction is detected when...	Reference page
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”.	SE-46 SE-56
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”.	SE-48 SE-58
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”.	SE-50
TILT SENSOR [B2118]	Tilt sensor	When driver seat control unit detects 0.1V or lower, or 4.9V or higher, from tilt sensor for 0.5 seconds or more.	SE-62
TELESCO SENSOR [B2119]	Telescopic sensor	When driver seat control unit detects 0.1V or lower, or 4.9V or higher, from telescopic sensor for 0.5 seconds or more.	SE-60
DETENT SW [B2126]	Detention 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 detention switch input system is judged malfunctioning.	SE-85
UART COMM [B2128]	UART communication	Malfunction is detected in UART communication.	SE-87

DATA MONITOR

SELECTIOM FROM MEMU

Monitor item [OPERATION or UNIT]		Contents
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.
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 lifting switch (UP) signal is displayed.
LIFT FR SW–DN	“ON/OFF”	ON/OFF status judged from the FR lifting switch (DOWN) signal is displayed.
LIFT RR SW–UP	“ON/OFF”	ON/OFF status judged from the RR lifting switch (UP) signal is displayed.
LIFT RR SW–DN	“ON/OFF”	ON/OFF status judged from the RR lifting switch (DOWN) signal is displayed.
MIR CON SW–UP	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (UP) signal is displayed.
MIR CON SW–DN	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (DOWN) signal is displayed.
MIR CON SW–RH	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (RIGHT) signal is displayed.
MIR CON SW–LH	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (LEFT) signal is displayed.
MIR CHNG SW–R	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (switching to RIGHT) signal is displayed.
MIR CHNG SW–L	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (switching to LEFT) signal is displayed.
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.
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.

Monitor item [OPERATION or UNIT]		Contents
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 (IGN, ACC, or OFF) status judged from the ignition switch signal is displayed.
SLIDE PULSE	—	Value (32768) when battery connects is as standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULSE	—	Value (32768) when battery connects is as standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	—	Value (32768) when battery connects is as standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	—	Value (32768) when battery connects is as standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U–D	“V”	Voltage output from RH door mirror sensor (UP/DOWN) is displayed.
MIR/SEN RH R–L	“V”	Voltage output from RH door mirror sensor (LH/RH) is displayed.
MIR/SEN LH U–D	“V”	Voltage output from LH door mirror sensor (UP/DOWN) is displayed.
MIR/SEN LH R–L	“V”	Voltage output from LH door mirror sensor (LH/RH) 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 lifting motor is activated by receiving the drive signal.
SEAT LIFTER RR	The rear lifting motor is activated by receiving the drive signal.
MIRROR MOTOR RH	The RH mirror motor moves the mirror UP/DOWN and LEFT/RIGHT by receiving the drive signal.
MIRROR MOTOR LH	The LH mirror motor moves the mirror UP/DOWN and LEFT/RIGHT by receiving the drive signal.
MEMORY SW INDCTR	The memory switch indicator is lit by receiving the drive signal.

WORK SUPPORT

The seat slide amount at entry/exit operation setting can be changed by CONSULT-II. Refer to SE-16, "SETTING CHANGE FUNCTION" .

Work Flow

NIS00261

1. Check the symptom and customer's requests.
2. Understand the system description. Refer to SE-12, "System Description" .
3. Perform the self-diagnosis results, using CONSULT-II. Refer to SE-35, "CONSULT-II Function (AUTO DRIVE POS.)" .
4. Repair or replace depending on the self-diagnostic results.
5. Based on the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to SE-39, "Symptom Chart" .
6. Does the automatic drive positioned system operate normally?
   If it is normal, GO TO 8.
   If it is not normal, GO TO 3.
7. INSPECTION END

Symptom Chart

NIS00262

NOTE:
Always check the “Work flow” before performing diagnosis in the following table, Refer to SE-39, "Work Flow" .

Symptom	Diagnoses / service procedure	Reference page
All of automatic operation dose not operate.	1. BCM power supply and ground circuit check.	SE-41
	2. Driver seat control unit power supply and ground circuit check.	SE-42
	3. Automatic drive positioner control unit power supply and ground circuit check.	SE-43
Sliding function does not operate (automatically and manually).	Sliding motor circuit check	SE-44
Reclining function does not operate (automatically and manually).	Reclining motor circuit check	SE-45
Front lifting function does not operate (automatically and manually).	Front lifting motor circuit check	SE-46
Rear lifting function not operate (automatically and manually).	Rear lifting motor circuit check	SE-48
Tilt function does not operate (automatically and manually).	Tilt motor circuit check	SE-50
Telescopic function does not operate (automatically and manually).	Telescopic motor circuit check	SE-49
Sliding function does not operate automatically.	Sliding sensor circuit check	SE-52
Reclining function does not operate automatically.	Reclining sensor circuit check	SE-54
Front lifting function does not operate automatically.	Front lifting sensor circuit check	SE-56
Rear lifting function does not operate automatically.	Rear lifting sensor circuit check	SE-58
Tilt function does not operate automatically.	Tilt sensor circuit check	SE-62
Telescopic function does not operate automatically.	Telescopic sensor circuit check	SE-60
Sliding function does not operate manually.	Sliding switch circuit check	SE-68
Reclining function does not operate manually.	Reclining switch circuit check	SE-70
Front lifting function does not operate manually.	Lifting switch (front) circuit check	SE-72
Rear lifting function does not operate manually.	Lifting switch (rear) circuit check	SE-74
Tilt function does not operate manually.	Tilt switch circuit check	SE-78
Telescopic function does not operate manually.	Telescopic switch circuit check	SE-76
All of seat operation dose not operate manually.	Power seat switch ground circuit check.	SE-75

Symptom	Diagnoses / service procedure	Reference page
Only seat memory and set switch operation does not operate.	1. Perform storing memory	SE-13
	2. Seat memory and set switch circuit check	SE-80
Seat memory indicator lamps 1 and 2 do not illuminate.	Seat memory indicator lamp circuit check	SE-81
Entry/Exiting operation does not operated.	1. Check system setting.	SE-16
	2. Perform initialization.	SE-16
	3. Front door switch (driver side) circuit check	SE-86
LH or RH door mirror face does not produce the stored angle, during the memory operation.	1. Door mirror sensor power supply and ground circuit check	SE-83
	2. Door mirror sensor LH circuit check	SE-63
	3. Door mirror sensor RH circuit check	SE-66
	4. Replace automatic drive positioner control unit	SE-11
Intelligent key interlock operation does not operate. (Other automatic operation and Intelligent Key system are normal)	Perform storing memory	SE-13
Lumber support does not operate	Lumber support circuit check	SE-89

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

NIS00263

1. SELF-DIAGNOSTIC RESULT CHECK

CAUTION:

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

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

CONSULT-II display code	Diagnosis item
U1000	INITIAL DIAG
	TRANSMIT DIAG
	BCM/SEC
	METER/M&A
	TCM

Contents displayed

No malfunction>>Inspection End.

Malfunction in CAN communication system>>After printing the monitor items, go to “CAN System”. Refer to LAN-7, "Precautions When Using CONSULT-II" .

BCM Power Supply and Ground Circuit Check

NIS00264

1. CHECK FUSE

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

Unit	Power source	Fuse No.
BCM	Battery power supply	**F** (50A)
	Battery power supply	21 (10A)
	Ignition switch ON or STRAT signal	1 (15A)
	Ignition switch ACC or ON signal	6 (10A)

NOTE:

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

OK or NG

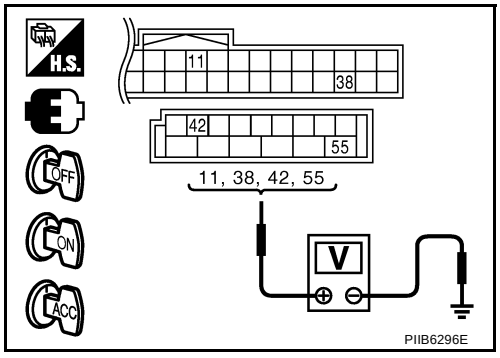
OK >> GO TO 2.

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

2. CHECK POWER SUPPLY CIRCUIT (BCM)

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

Terminals			Condition of ignition switch	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M1	38	Ground	ON	Battery voltage
	11		ACC	
M2	42		OFF	
	55			



OK or NG

OK >> GO TO 3.
NG >> Repair or replace the harness between BCM and fuse.

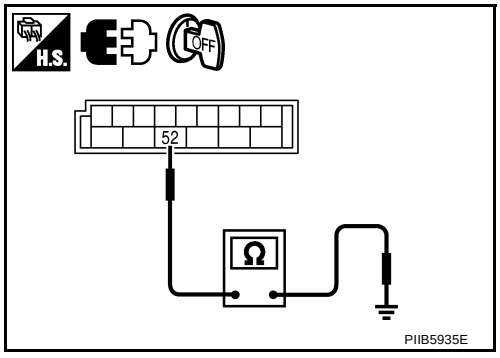
3. CHECK GROUND CIRCUIT (BCM)

Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M2	52		Yes

OK or NG

OK >> BCM power supply and ground circuit are OK.
NG >> Repair or replace the harness between BCM and ground.



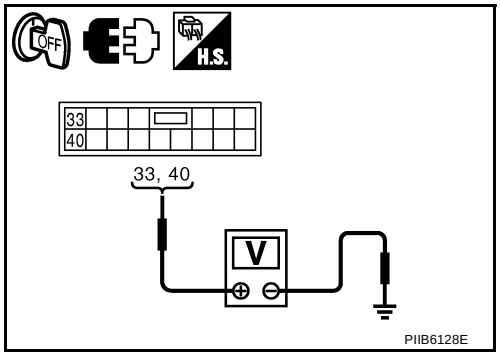
Driver Seat Control Unit Power Supply and Ground Circuit Check

NIS00265

1. CHECK POWER SUPPLY CIRCUIT

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

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Driver seat control unit connector	Terminal		
B205	33	Ground	Battery voltage
	40		



OK or NG

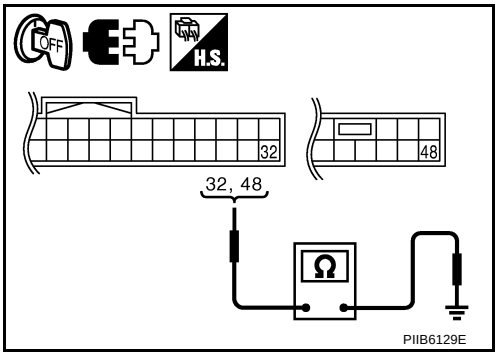
OK >> GO TO 2.
NG >> Check the following.

- Repair or replace harness between driver seat control unit and fuse block (J/B).
- Circuit breaker.

2. CHECK GROUND CIRCUIT

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

Driver seat control unit connector	Terminal	Ground	Continuity
B204	32		Yes
B205	48		



OK or NG

OK >> Driver seat control unit power supply and ground circuit are OK.

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

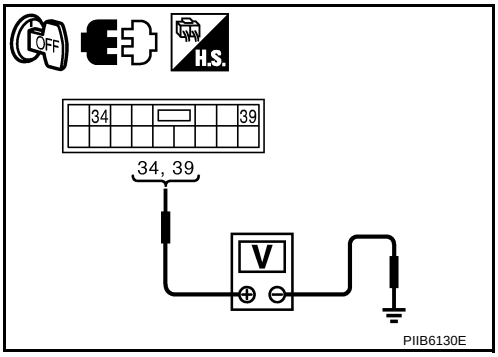
Automatic Drive Positioner Power Supply and Ground Circuit Check

NIS00266

1. CHECK POWER SUPPLY CIRCUIT

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

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Automatic drive positioner control unit connector	Terminal		
M7	34	Ground	Battery voltage
	39		



OK or NG

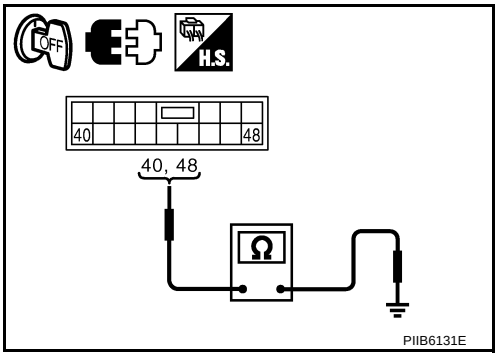
OK >> GO TO 2.

NG >> Repair or replace harness between automatic drive positioner control unit and fuse block (J/B).

2. CHECK GROUND CIRCUIT

Check continuity between the automatic drive positioner control unit connector and ground.

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M7	40		Yes
	48		



OK or NG

OK >> Automatic drive positioner control unit power supply and ground circuit are OK.

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

Sliding Motor Circuit Check

NIS00267

1. CHECK SEAT SLIDING MECHANISM

Check the following.

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

OK or NG

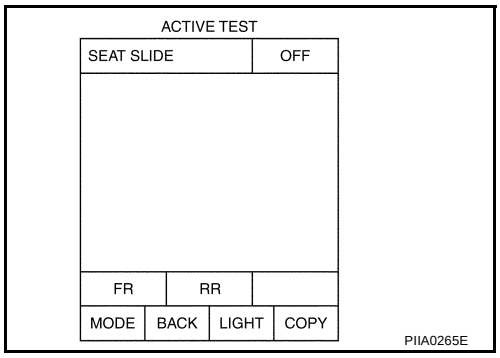
OK >> GO TO 2.
NG >> Repair or replace the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

Check operation with “SEAT SLIDE” in ACTIVE TEST.

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



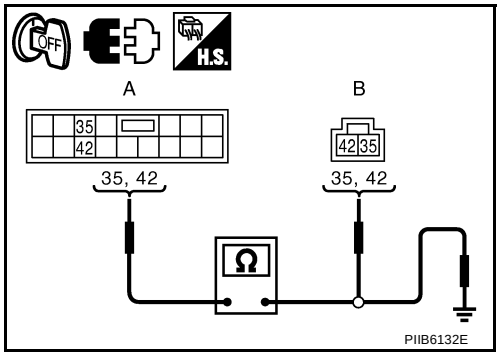
OK or NG

OK >> Sliding motor circuit is OK.
NG >> GO TO 3.

3. CHECK SLIDING MOTOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and sliding motor connector.
3. Check continuity between driver seat control unit connector and sliding motor connector.

A		B		Continuity
Driver seat control unit connector	Terminal	Sliding motor connector	Terminal	
B205	35	B207	35	Yes
	42		42	



4. Check continuity between driver seat control unit connector and ground.

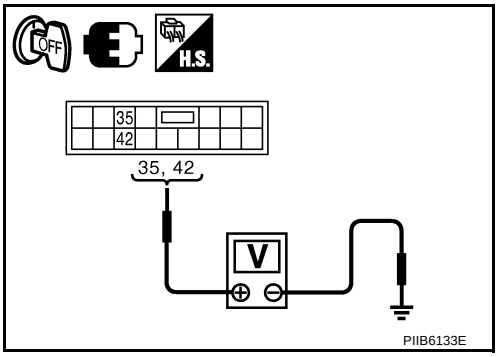
A		Ground	Continuity
Driver seat control unit connector	Terminal		
B205	35		No
	42		

OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness.

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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



Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition	Voltage (V) (Approx.)
B205	35	Ground	Sliding switch ON (FORWARD operation)	Battery voltage
			Other than above	0
	42		Sliding switch ON (BACKWARD operation)	Battery voltage
			Other than above	0

OK or NG

OK >> Replace sliding motor.
NG >> Replace driver seat control unit.

Reclining Motor LH Circuit Check

NIS00268

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

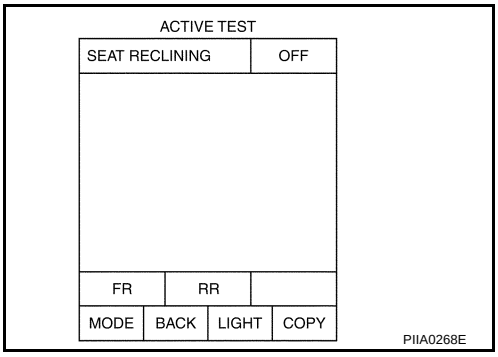
OK >> GO TO 2.
NG >> Repair or replace the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

Check operation with “SEAT RECLINING” in ACTIVE TEST.

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



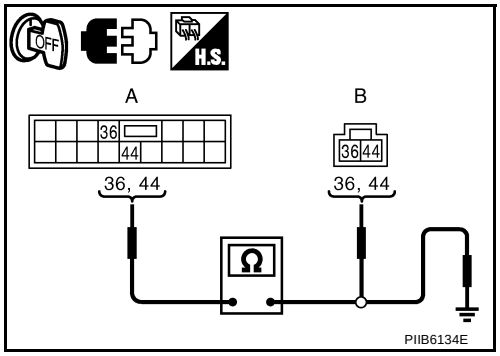
OK or NG

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

3. CHECK RECLINING MOTOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and reclining motor connector.
3. Check continuity between driver seat control unit connector and reclining motor connector.

A		B		Continuity
Driver seat control unit connector	Terminal	Reclining motor connector	Terminal	
B205	36	B208	36	Yes
	44		44	



4. Check continuity between driver seat control unit connector and ground.

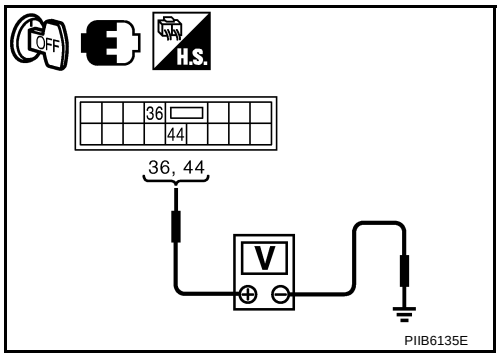
A		Ground	Continuity
Driver seat control unit connector	Terminal		
B205	36		No
	44		

OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness.

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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



Driver seat control unit connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(–)		
B205	36	Ground	Reclining switch ON (FORWARD operation)	Battery voltage
			Other than above	0
	44		Reclining switch ON (BACKWARD operation)	Battery voltage
			Other than above	0

OK or NG

OK >> Replace reclining motor.
NG >> Replace driver seat control unit.

Front Lifting Motor Circuit Check

NIS00269

1. CHECK FRONT END SEAT LIFTING MECHANISM

Check the following.

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

OK or NG

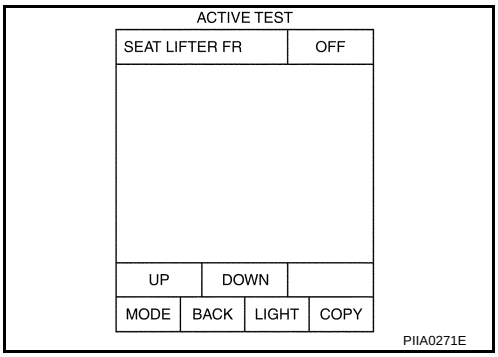
OK >> GO TO 2.
NG >> Repair or replace the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

Check operation with “SEAT LIFTER FR” in ACTIVE TEST.

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



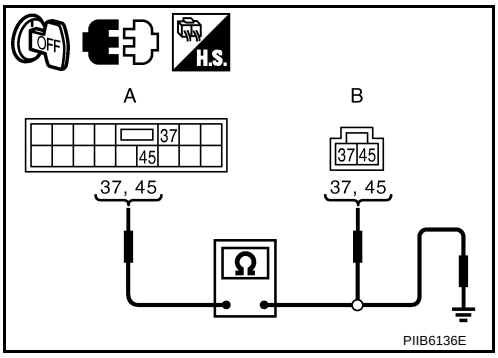
OK or NG

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

3. CHECK FRONT LIFTING MOTOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and front lifting motor connector.
3. Check continuity between driver seat control unit connector and front lifting motor connector.

A		B		Continuity
Driver seat control unit connector	Terminal	Front lifting motor connector	Terminal	
B205	37	B209	37	Yes
	45		45	



4. Check continuity between driver seat control unit connector and ground.

A		Ground	Continuity
Driver seat control unit connector	Terminal		
B205	37		No
	45		

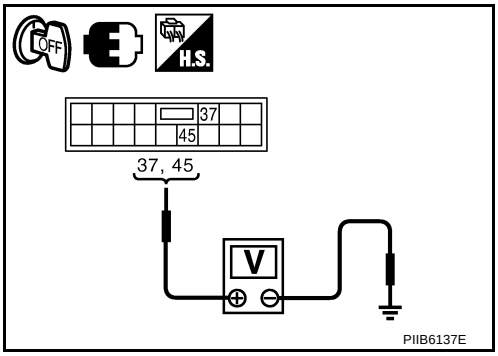
OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness.

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

Driver seat control unit connector	Terminals		Condition	Voltage (V) (Approx)
	(+)	(–)		
B205	37	Ground	Lifting switch (front) ON (DOWN operation)	Battery voltage
			Other than above	0
	45		Lifting switch (front) ON (UP operation)	Battery voltage
			Other than above	0



OK or NG

OK >> Replace front lifting motor.
NG >> Replace driver seat control unit.

Rear Lifting Motor Circuit Check

NIS0026A

1. CHECK REAR 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 rear lifting motor or lead screws
- Operation malfunction and interference with other parts by poor installation

OK or NG

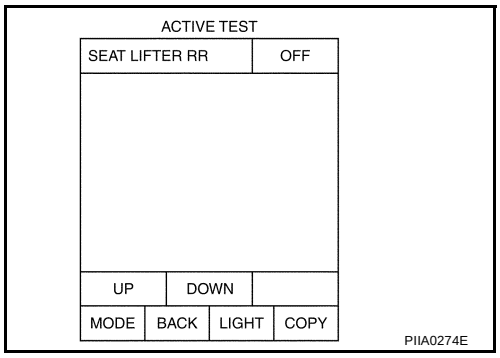
OK >> GO TO 2.
NG >> Repair or replace the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

Check operation with “SEAT LIFTER RR” in ACTIVE TEST.

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



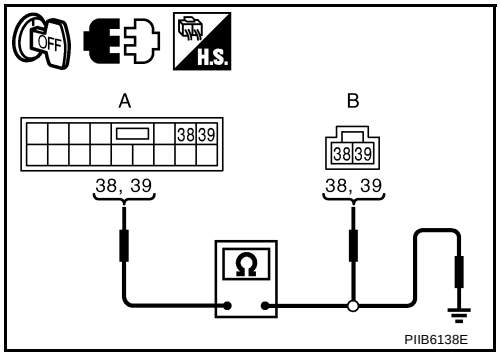
OK or NG

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

3. CHECK REAR LIFTING MOTOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and rear lifting motor connector.
3. Check continuity between driver seat control unit connector and rear lifting motor connector.

A		B		Continuity
Driver seat control unit connector	Terminal	Rear lifting motor connector	Terminal	
B205	38	B210	38	Yes
	39		39	



4. Check continuity between driver seat control unit connector and ground.

A		Ground	Continuity
Driver seat control unit connector	Terminal		
B205	38		No
	39		

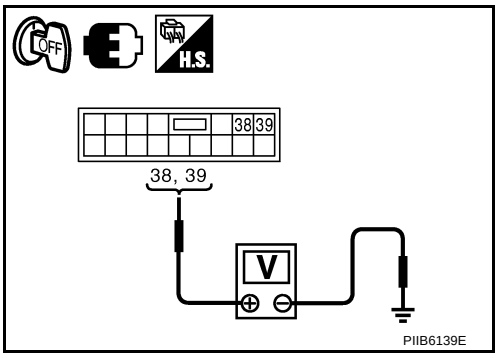
OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness.

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition	Voltage (V) (Approx.)
B205	38	Ground	Lifting switch (rear) ON (UP operation)	Battery voltage
			Other than above	0
	39		Lifting switch (rear) ON (DOWN operation)	Battery voltage
			Other than above	0



OK or NG

OK >> Replace rear lifting motor.
NG >> Replace driver seat control unit.

Telescopic Motor Circuit Check

NIS0026B

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

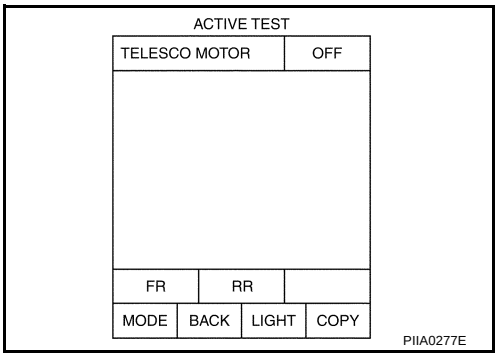
With CONSULT-II

Check operation with “TELESCO MOTOR” in ACTIVE TEST.

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

OK or NG

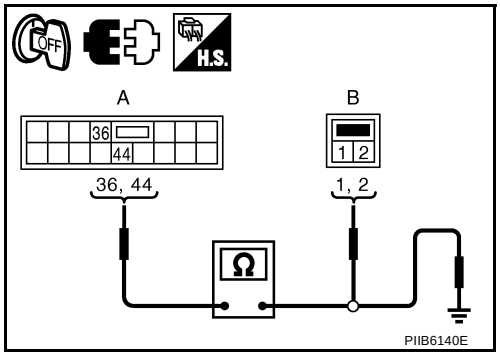
OK >> Steering telescopic motor circuit is OK.
NG >> GO TO 3.



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 and tilt motor and telescopic motor connector.

A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Telescopic motor connector	Terminal	
M7	36	M45	1	Yes
	44		2	



4. Check continuity between automatic drive positioner control unit connector and ground.

A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M7	36		No
	44		

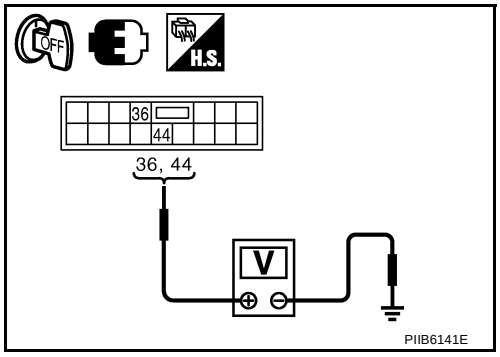
OK or NG

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.
2. Check voltage between automatic drive positioner control unit connector and ground.

Automatic drive positioner control unit connector	Terminals		Telescopic switch condition	Voltage (V) (Approx.)
	(+)	(–)		
M7	36	Ground	FORWARD	Battery voltage
			Other than above	0
	44		BACKWARD	Battery voltage
			Other than above	0



OK or NG

OK >> Replace tilt and telescopic motor.
NG >> Replace automatic drive positioner control unit.

Tilt Motor Circuit Check

NIS0026C

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

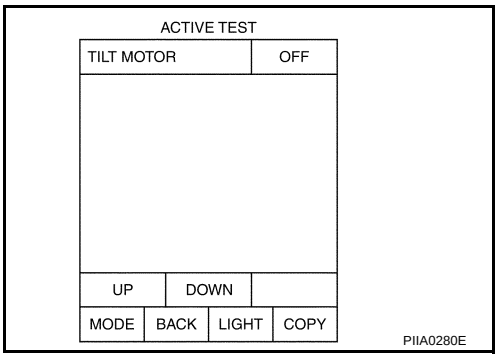
OK >> GO TO 2.
NG >> Repair the malfunctioning part.

2. CHECK FUNCTION

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.



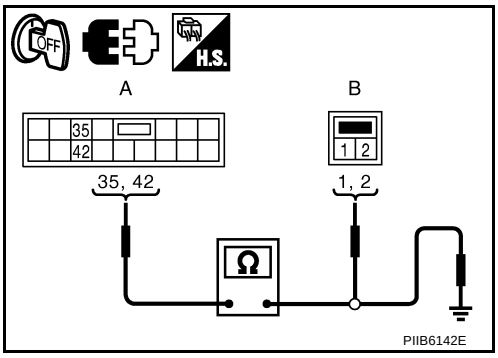
OK or NG

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 motor connector.
3. Check continuity between automatic drive positioner control unit connector and tilt motor connector.

A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Tilt motor connector	Terminal	
M7	35	M36	2	Yes
	42		1	



4. Check continuity between automatic drive positioner control unit connector and ground.

A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M7	35		No
	42		

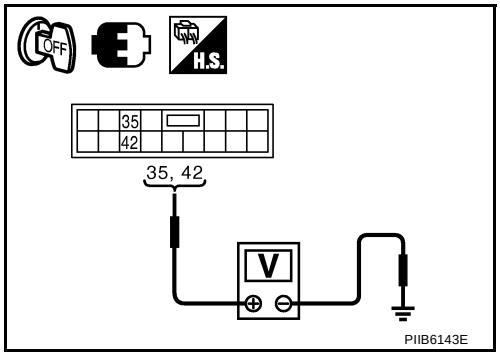
OK or NG

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

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

1. Connect automatic drive positioner control unit connector and tilt motor connector.
2. Check voltage between automatic drive positioner control unit connector and ground.

Automatic drive positioner C/U connector	Terminals (+)	Terminals (–)	Tilt switch condition	Voltage (V) (Approx.)
M7	35	Ground	UP	Battery voltage
			Other than above	0
	42		DOWN	Battery voltage
			Other than above	0



OK or NG

OK >> Replace tilt motor.
NG >> Replace automatic drive positioner control unit.

Sliding Sensor Circuit Check

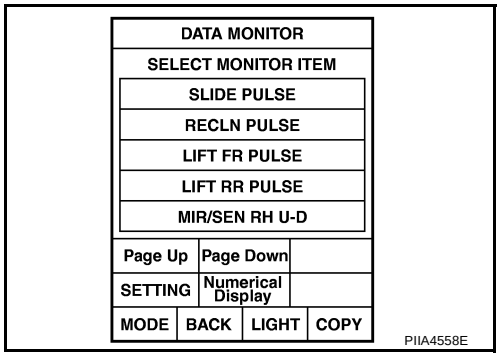
NIS0026D

1. CHECK FUNCTION

With CONSULT-II

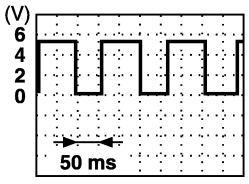
Check operation with “SLIDE PULSE” on the DATA MONITOR to make sure the pulse changes.

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

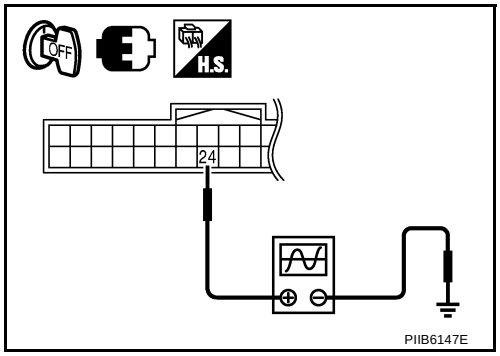


Without CONSULT-II

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

Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition	Signal (Reference value)
B204	24	Ground	Sliding motor operation	

PIIA3277E

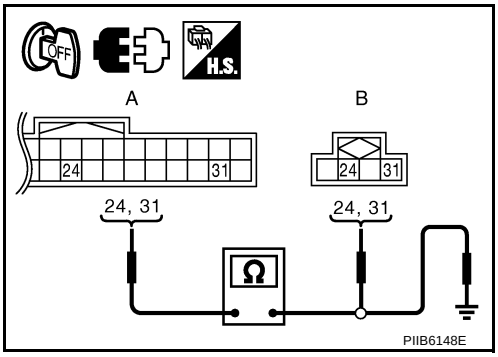


OK or NG

OK >> Sliding sensor circuit is OK.
NG >> GO TO 2.

2. CHECK SLIDING SENSOR CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit connector and sliding sensor front lifting sensor connector.
2. Check continuity between driver seat control unit connector and sliding sensor front lifting sensor connector.



A		B		Continuity
Driver seat control unit connector	Terminal	Sliding sensor front lifting sensor connector	Terminal	
B204	24	B214	24	Yes
	31		31	

3. Check continuity between driver seat control unit connector and ground.

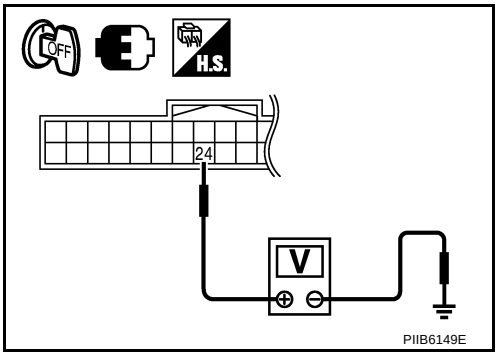
A		Ground	Continuity
Driver seat control unit connector	Terminal		
B204	24		No
	31		

OK or NG

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

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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



Terminals			Voltage (V) (Approx.)
(+)		(–)	
Driver seat control unit connector	Terminal		
B204	24	Ground	5

OK or NG

OK >> Replace sliding sensor front lifting sensor.
NG >> Replace automatic drive positioner control unit.

Reclining Sensor Circuit Check

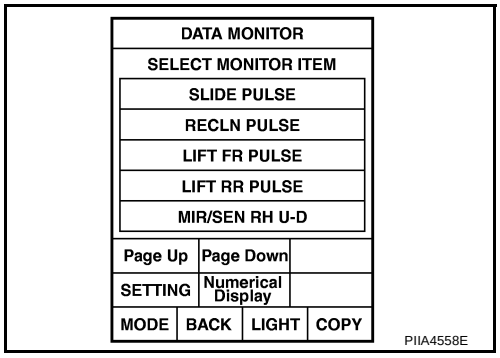
NIS0026E

1. CHECK FUNCTION

With CONSULT-II

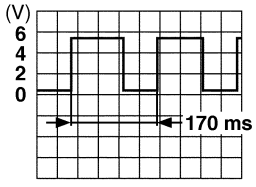
Check operation with “RECLN PULSE” on the DATA MONITOR to make sure the pulse changes.

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

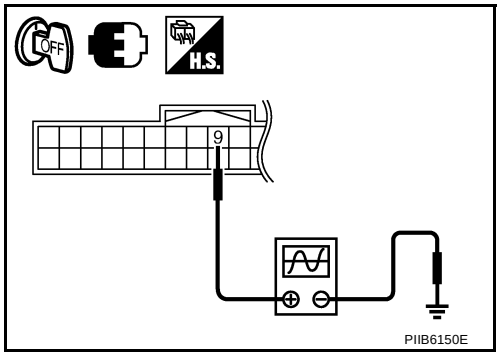


Without CONSULT-II

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

Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition	Signal (Reference value)
B204	9	Ground	Reclining motor operation	

PIIB2807E



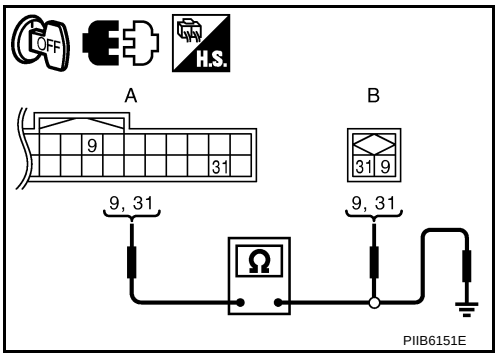
OK or NG

OK >> Reclining sensor circuit is OK.
NG >> GO TO 2.

2. CHECK RECLINING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and reclining sensor connector.
2. Check continuity between driver seat control unit connector and reclining sensor connector.

A		B		Continuity
Driver seat control unit connector	Terminal	Reclining sensor connector	Terminal	
B204	9	B222	9	Yes
	31		31	



3. Check continuity between driver seat control unit connector and ground.

A		Ground	Continuity
Driver seat control unit connector	Terminal		
B204	9		No
	31		

OK or NG

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

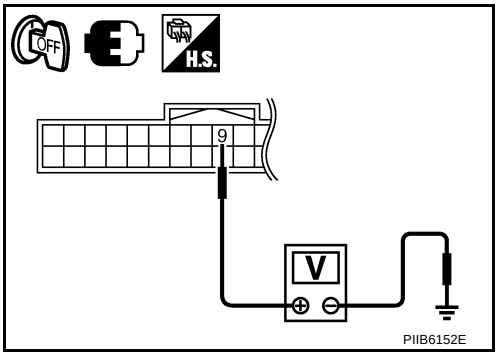
3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Driver seat control unit connector	Terminal		
B204	9	Ground	5

OK or NG

OK >> Replace reclining sensor.
NG >> Replace automatic drive positioner control unit.



Front Lifting Sensor Circuit Check

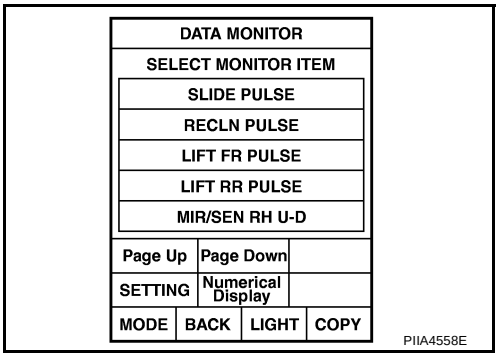
NIS0026F

1. CHECK FUNCTION

With CONSULT-II

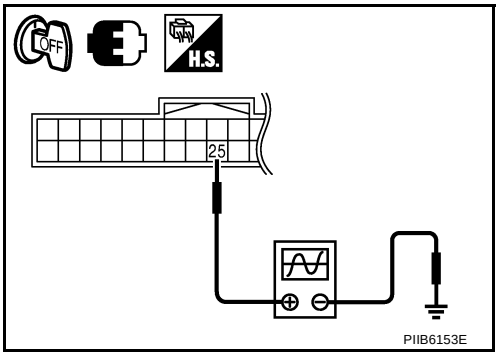
Check operation with “LIFT FR PULSE” on the DATA MONITOR to make sure the pulse changes.

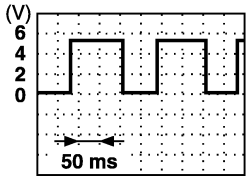
Monitor item [OPERATION or UNIT]		Contents
LIFT FR PULSE	—	The front lifting position (pulse) judged from the lifting sensor (front) is displayed



Without CONSULT-II

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



Sliding sensor front lifting sensor	Terminals (+)	Terminals (–)	Condition	Signal (Reference value)
B214	25	Ground	Front lifting motor operation	

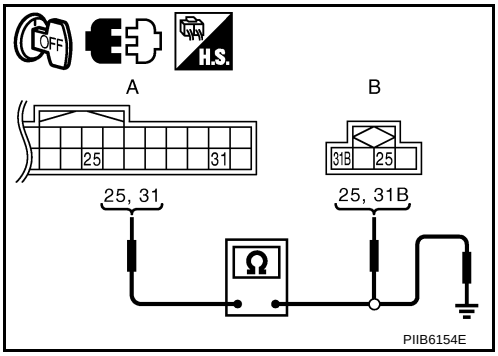
OK or NG

OK >> Sliding sensor front lifting sensor is OK.
NG >> GO TO 2.

2. CHECK FRONT LIFTING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and sliding sensor front lifting sensor connector.
2. Check continuity between driver seat control unit connector and sliding sensor front lifting sensor connector.

A		B		Continuity
Driver seat control unit connector	Terminal	Sliding sensor front lifting sensor connector	Terminal	
B204	25	B214	25	Yes
	31		31B	



3. Check continuity between driver seat control unit connector and ground.

A		Ground	Continuity
Driver seat control unit connector	Terminal		
B204	25		No
	31		

OK or NG

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

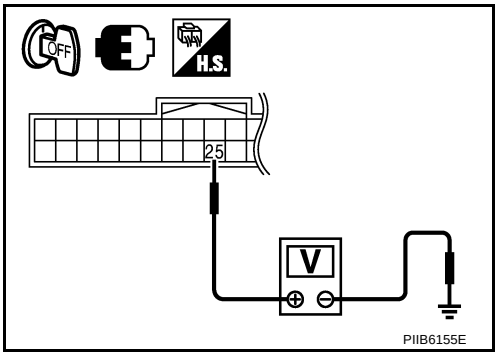
3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Driver seat control unit connector	Terminal		
B204	25	Ground	5

OK or NG

OK >> Replace sliding sensor front lifting sensor.
NG >> Replace automatic drive positioner control unit.



Rear Lifting Sensor Circuit Check

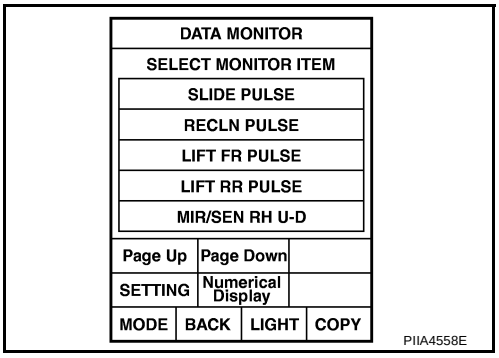
NIS0026G

1. CHECK FUNCTION

With CONSULT-II

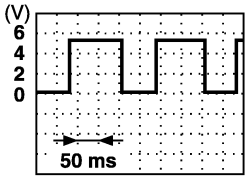
Check operation with “LIFT RR PULSE” on the DATA MONITOR to make sure pulse changes.

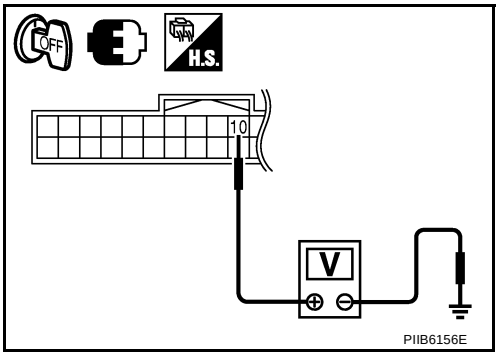
Monitor item [OPERATION or UNIT]		
LIFT RR PULSE	—	The rear lifting position (pulse) judged from the lifting sensor (rear) is displayed.



Without CONSULT-II

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

Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition	Signal (Reference value)
B204	10	Ground	Rear lifting motor operation	

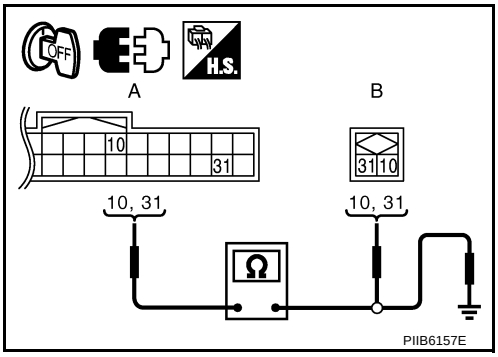


OK or NG

OK >> Rear lifting sensor circuit is OK.
NG >> GO TO 2.

2. CHECK REAR LIFTING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and rear lifting sensor connector.
2. Check continuity between driver seat control unit connector and rear lifting sensor connector.



A		B		Continuity
Driver seat control unit connector	Terminal	Rear lifting sensor connector	Terminal	
B204	10	B218	10	Yes
	31		31	

3. Check continuity between driver seat control unit connector and ground.

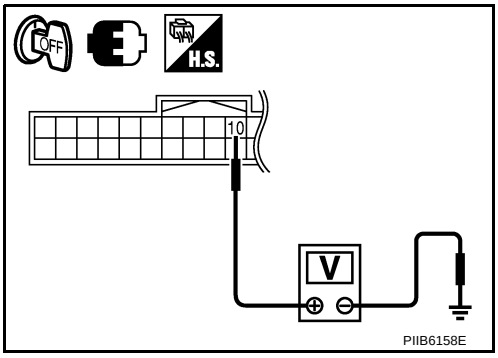
A		Ground	Continuity
Driver seat control unit connector	Terminal		
B204	10		No
	31		

OK or NG

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

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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



Terminals			Voltage (V) (Approx.)
(+)		(–)	
Driver seat control unit connector	Terminal		
B204	10	Ground	5

OK or NG

OK >> Replace rear lifting sensor.
NG >> Replace automatic drive positioner control unit.

Telescopic Sensor Circuit Check

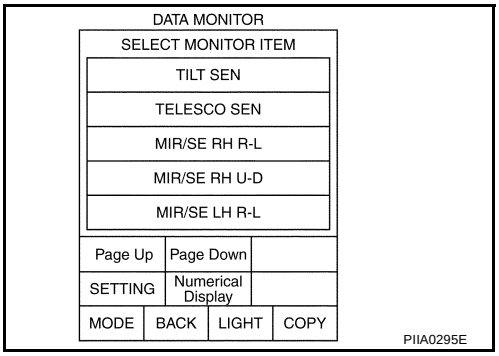
NIS0026H

1. CHECK FUNCTION

With CONSULT-II

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

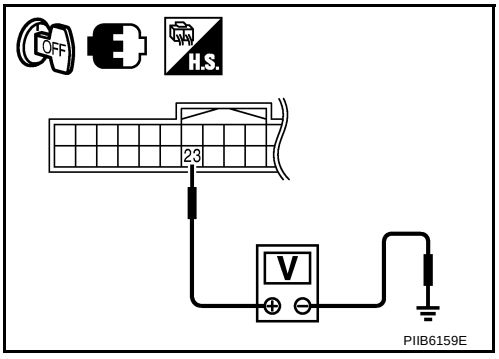
Monitor item [OPERATION or UNIT]		Contents
TELESCO SEN	“V”	The telescoping position (voltage) judged from the telescoping sensor signal is displayed.



Without CONSULT-II

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

Automatic drive positioner connector	Terminals (+)	Terminals (–)	Condition	Voltage (V) (Approx.)
M6	23	Ground	Telescopic top position	4.6
			Telescopic bottom position	0.4



OK or NG

OK >> Telescopic sensor circuit is OK.
NG >> GO TO 2.

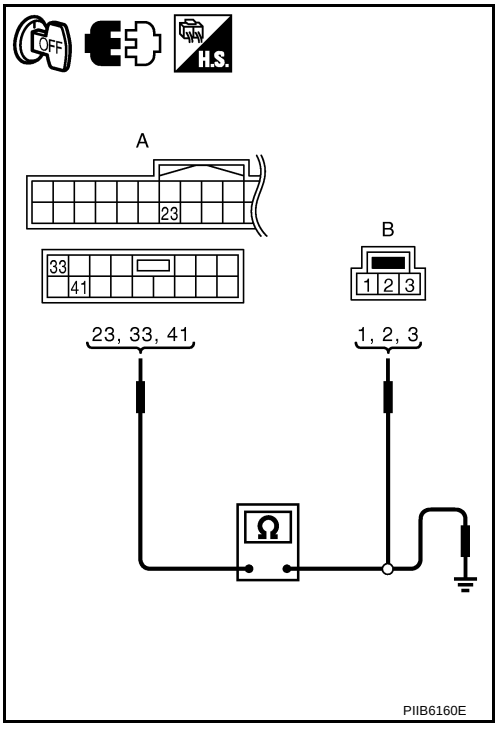
2. CHECK HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit connector and telescopic sensor connector.
2. Check continuity harness between automatic drive positioner control unit connector and telescopic sensor connector.

A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Telescopic sensor connector	Terminal	
M6	23	M44	2	Yes
M7	33		1	
	41		3	

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

A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M6	23		No
M7	33		
	41		



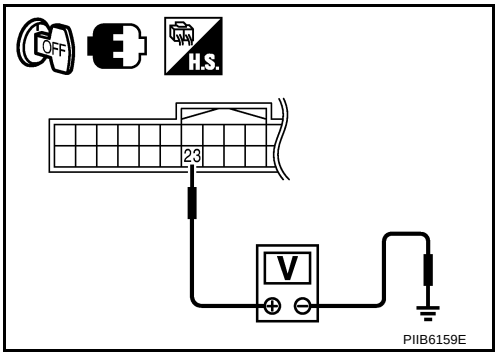
OK or NG

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

3. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT

1. Connect automatic drive positioner control unit connector.
2. Check voltage between automatic drive position control unit connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Automatic drive positioner control unit connector	Terminal		
M6	23	Ground	5



OK or NG

OK >> Replace telescopic sensor.
NG >> Replace automatic drive positioner control unit.

Tilt Sensor Circuit Check

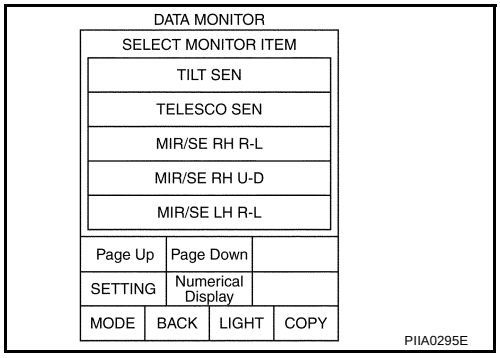
NIS0026I

1. CHECK TILT SENSOR

With CONSULT-II

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

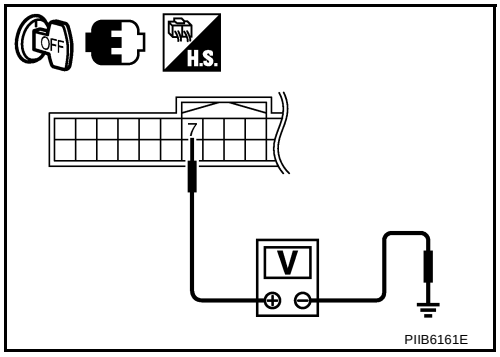
Monitor item [OPERATION or UNIT]		Contents
TILT SEN	“V”	The tilt position (voltage) judged from the tilt sensor signal is displayed.



Without CONSULT-II

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

Automatic drive positioner control unit connector	Terminals (+)	Terminals (–)	Condition	Voltage (V) (Approx.)
M6	7	Ground	Tilt top position	1
			Tilt bottom position	3.8



OK or NG

OK >> Tilt sensor circuit is OK.
NG >> GO TO 2.

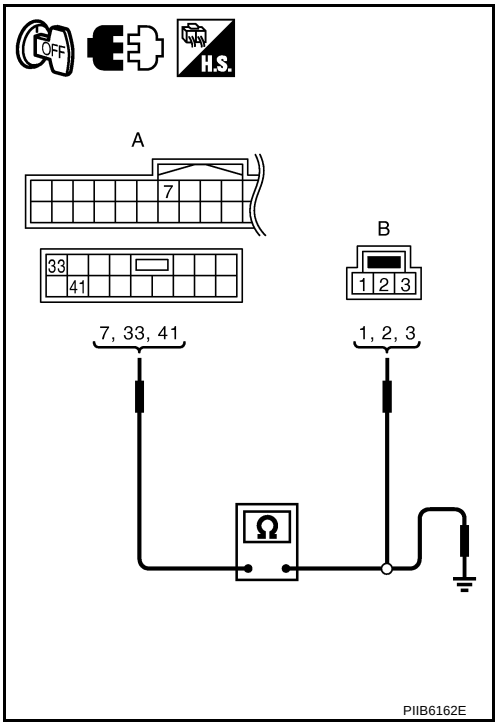
2. CHECK HARNESS

1. Disconnect automatic drive positioner control unit connector and tilt sensor connector.
2. Check continuity harness between automatic drive positioner control unit connector and tilt sensor connector.

A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Tilt sensor connector	Terminal	
M6	7	M37	2	Yes
M7	33		3	
	41		1	

3. Automatic drive positioner control unit connector and ground.

A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M6	7		No
M7	33		
	41		



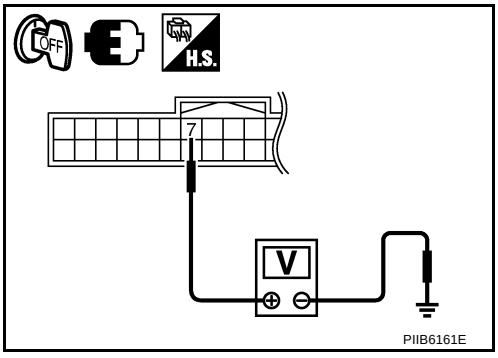
OK or NG

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

3. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT

1. Connect automatic drive positioner control unit connector.
2. Check voltage between automatic drive position control unit connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Automatic drive positioner control unit connector	Terminal		
M6	7	Ground	5



OK or NG

OK >> Replace telescopic sensor.
NG >> Replace automatic drive positioner control unit.

Door Mirror Sensor LH Circuit Check

NIS0026J

1. CHECK DOOR MIRROR FUNCTION

Check the following items.
Operation malfunction in memory operation.

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

OK or NG

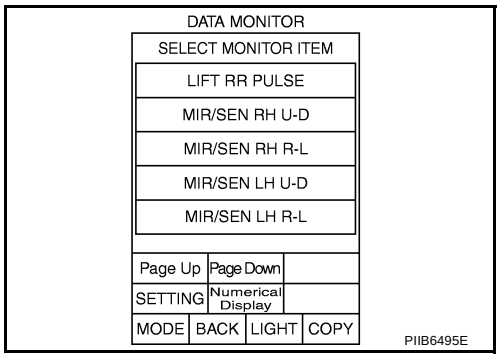
OK >> GO TO 2.
NG >> Repair or replace the malfunctioning parts, and check the symptom again.

2. CHECK DOOR MIRROR LH SENSOR

With CONSULT–II

Check that “VOLTAGE” is displayed on “MIR/SE LH R–L, MIR/SE LH U–D" in the DATA MONITOR.

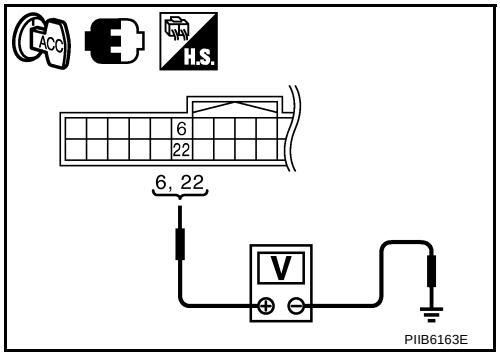
Monitor item [OPERATION or UNIT]		Contents
MIR/ SEN LH R–L	“V”	Voltage output from door mirror LH sensor (LH/ RH) is displayed.
MIR/ SEN LH U–D	“V”	Voltage output from door mirror LH sensor (UP/ DOWN) is displayed.



Without CONSULT–II

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

Automatic drive positioner control unit connector	Terminals (+)	Terminals (–)	Condition	Voltage (V) (Approx.)
M6	22	Ground	Mirror motor is operated LEFT or RIGHT	Changes between 3.5 (close to right edge) – 0.5 (close to left edge)
	6		Mirror motor is operated UP or DOWN	Changes between 4.2 (close to peak) – 0.5 (close to valley)

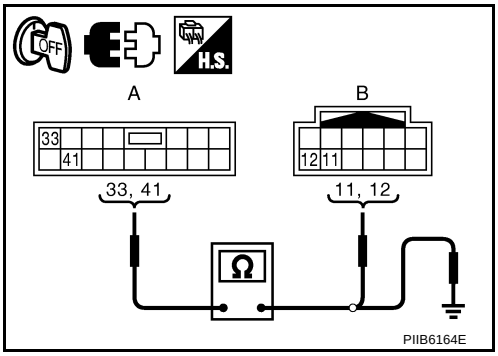


OK or NG

OK >> Mirror sensor LH circuit is OK.
NG >> GO TO 3.

3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit connector and door mirror LH connector.
3. Check continuity between automatic drive positioner control unit connector and door mirror LH connector.



A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	
M7	33	D2	11	Yes
	41		12	

4. Check continuity between automatic drive positioner control unit connector and ground.

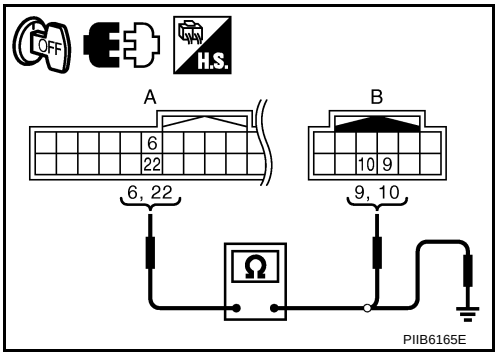
A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M7	33		No
	41		

OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness.

4. CHECK HARNESS CONTINUITY 2

1. Check continuity between automatic drive positioner control unit connector and door mirror LH connector.



A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	
M6	6	D2	9	Yes
	22		10	

2. Check continuity between automatic drive positioner control unit connector and ground.

A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M6	6		No
	22		

OK or NG

OK >> Replace door mirror LH.
NG >> Repair or replace harness.

Door Mirror Sensor RH Circuit Check

NIS0026K

1. CHECK DOOR MIRROR FUNCTION

Check the following items.
Operation malfunction in memory operation.

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

OK or NG

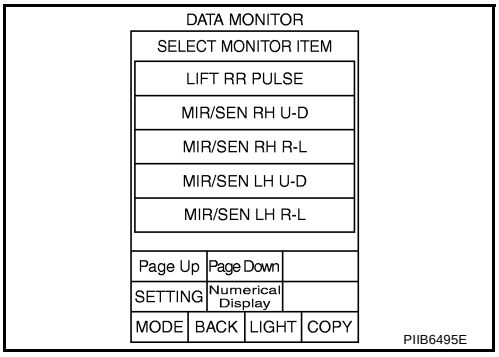
OK >> GO TO 2.
NG >> Repair or replace the malfunctioning parts, and check the symptom again.

2. CHECK DOOR MIRROR RH SENSOR

With CONSULT–II

Check that “VOLTAGE” is displayed on “MIR/SE RH R–L, MIR/SE RH U–D" in the DATA MONITOR.

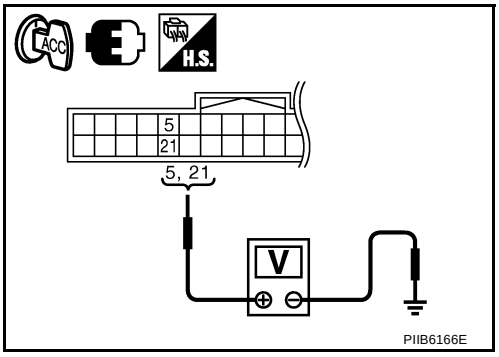
Monitor item [OPERATION or UNIT]		Contents
MIR/ SEN RH R–L	“V”	Voltage output from door mirror RH sensor (LH/ RH) is displayed.
MIR/ SEN RH U–D	“V”	Voltage output from door mirror RH sensor (UP/ DOWN) is displayed.



Without CONSULT–II

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

Automatic drive positioner control unit	Terminals (+)	Terminals (–)	Condition	Voltage (V) (Approx.)
M6	21	Ground	Mirror motor is operated UP or DOWN	Changes between 3.5 (close to left edge) – 0.5 (close to right edge)
	5		Mirror motor is operated UP or DOWN	Changes between 4.2 (close to peak) – 0.5 (close to valley)



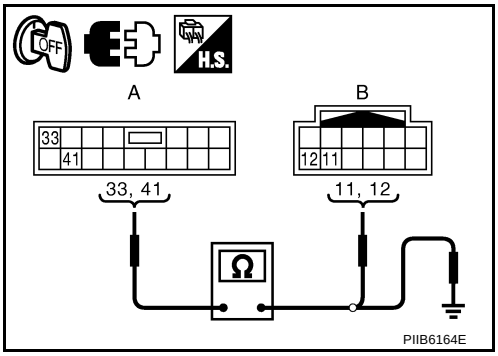
OK or NG

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

3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit connector and door mirror RH connector.
3. Check continuity between automatic drive positioner control unit connector and door mirror RH connector.

A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Door mirror RH connector	Terminal	
M7	33	D39	11	Yes
	41		12	



4. Check continuity between automatic drive positioner control unit connector and ground.

A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal (Wire Color)		
M7	33		No
	41		

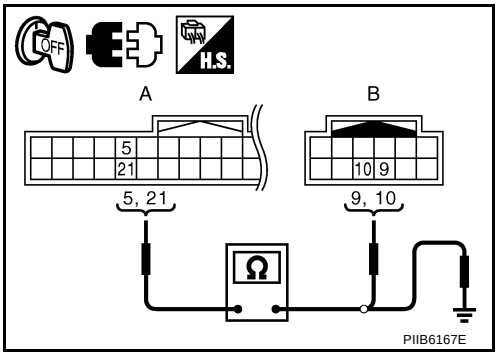
OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness.

4. CHECK HARNESS CONTINUITY 2

1. Check continuity between automatic drive positioner control unit connector and door mirror RH connector.

A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Door mirror RH connector	Terminal	
M6	5	D39	9	Yes
	21		10	



2. Check continuity between automatic drive positioner control unit connector and ground.

A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M6	5		No
	21		

OK or NG

OK >> Replace door mirror RH.
NG >> Repair or replace harness.

Sliding Switch Circuit Check

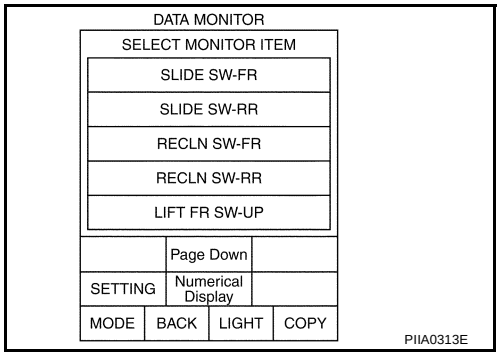
NIS0026L

1. CHECK FUNCTION

With CONSULT-II

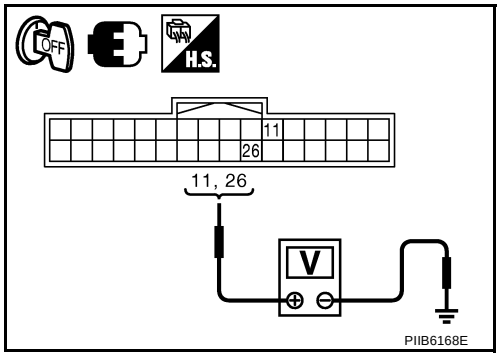
With “SLIDE SW-FR, SLIDE SW-RR” on the DATA MONITOR, operate the sliding switch to check ON/OFF operation.

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.



Without CONSULT-II

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



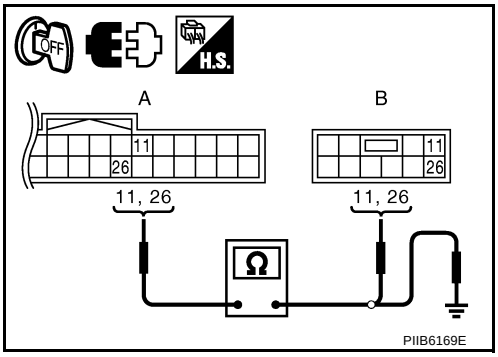
Driver seat control unit connector	Terminal (+)	Terminal (–)	Condition	Voltage (V) (Approx.)
B204	11	Ground	Sliding switch ON (BACKWARD operation)	0
			Other than above	Battery voltage
	26		Sliding switch ON (FORWARD operation)	0
			Other than above	Battery voltage

OK or NG

OK >> Sliding switch circuit is OK.
NG >> GO TO 2.

2. CHECK SLIDING SWITCH CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit connector and power seat switch connector.
2. Check continuity between driver seat control unit connector and power seat switch connector.



A		B		Continuity
Driver seat control unit connector	Terminal	Power seat switch connector	Terminal	
B204	11	B213	11	Yes
	26		26	

3. Check continuity between driver seat control unit connector and ground.

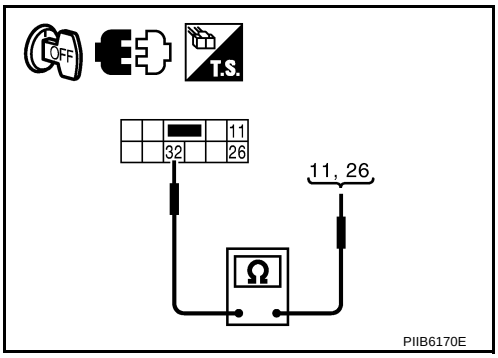
A		Ground	Continuity
Driver seat control unit connector	Terminal		
B204	11		No
	26		

OK or NG

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

3. CHECK SLIDING SWITCH

Check continuity between power seat switch terminals.



Power seat switch	Terminal		Condition	Continuity
B213	11	32	Sliding switch ON (BACKWARD operation)	Yes
			Other than above	No
	26		Sliding switch ON (FORWARD operation)	Yes
			Other than above	No

OK or NG

OK >> Replace driver seat control unit.
NG >> Replace power seat switch.

Reclining Switch Circuit Check

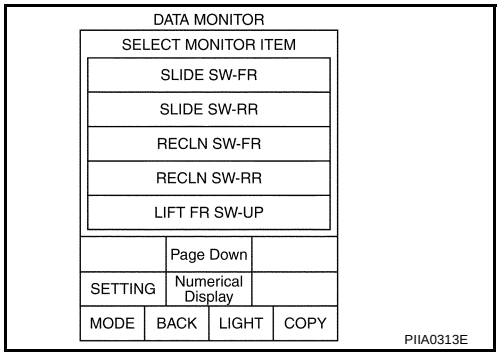
NIS0026M

1. CHECK FUNCTION

With CONSULT-II

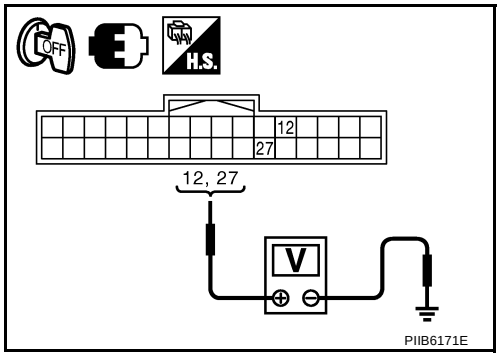
With “RECLN SW-FR, RECLN SW-RR” on the DATA MONITOR, operate the reclining switch to check ON/OFF operation.

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



Without CONSULT-II

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



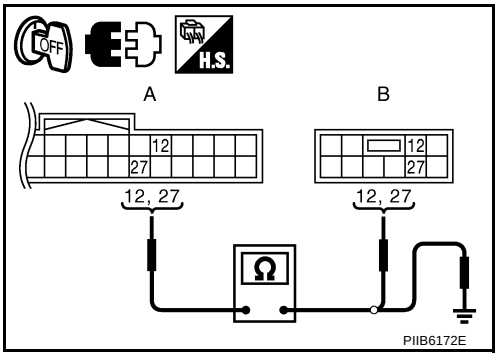
Driver seat control unit	Terminals (+)	Terminals (–)	Condition	Voltage (V) (Approx.)
B204	12	Ground	Reclining switch ON (BACKWARD operation)	0
			Other than above	Battery voltage
	27		Reclining switch ON (FORWARD operation)	0
			Other than above	Battery voltage

OK or NG

OK >> Reclining switch circuit is OK.
NG >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and power seat switch connector.
2. Check continuity between driver seat control unit connector and power seat switch connector.



A		B		Continuity
Driver seat control unit connector	Terminal	Power seat switch connector	Terminal	
B204	12	B213	12	Yes
	27		27	

3. Check continuity between driver seat control unit connector and ground.

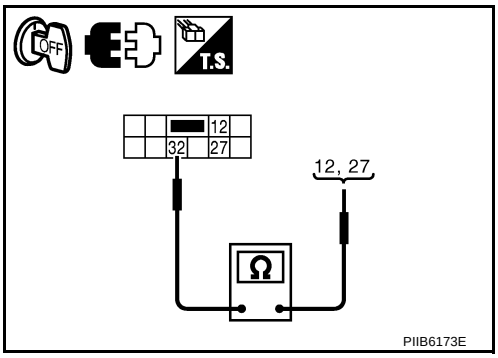
A		Ground	Continuity
Driver seat control unit connector	Terminal		
B204	12		No
	27		

OK or NG

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

3. RECLINING SWITCH INSPECTION

Check continuity between power seat switch as follows.



Power seat switch	Terminal		Condition	Continuity
B213	12	32	Reclining switch ON (BACKWARD operation)	Yes
			Other than above	No
	27		Reclining switch ON (FORWARD operation)	Yes
			Other than above	No

OK or NG

OK >> Replace driver seat control unit.
NG >> Replace power seat switch.

Lifting Switch (Front) Circuit Check

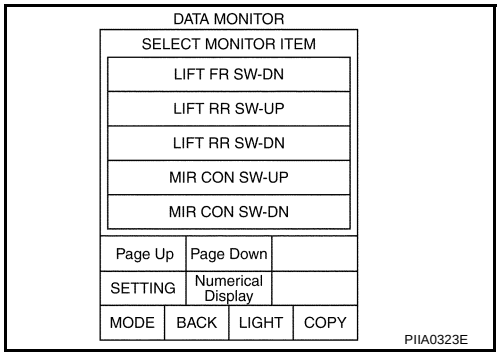
NIS0026N

1. CHECK FUNCTION

With CONSULT-II

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

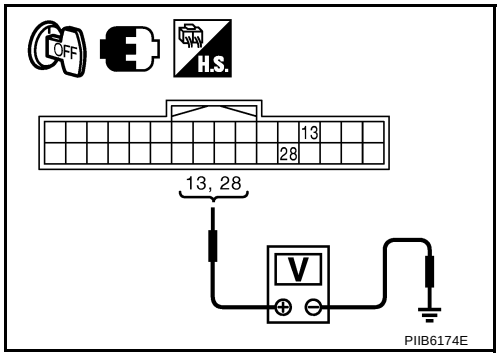
Monitor item [OPERATION or UNIT]		Contents
LIFT FR SW–DN	"ON/OFF"	ON / OFF status judged from the FR lifter switch (DOWN) signal is displayed.
LIFT FR SW–UP	"ON/OFF"	ON / OFF status judged from the FR lifter switch (UP) signal is displayed.



Without CONSULT-II

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

Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition	Voltage (V) (Approx.)
B204	13	Ground	Lifting switch (front) ON (DOWN operation)	0
			Other than above	Battery voltage
	28		Lifting switch (front) ON (UP operation)	0
			Other than above	Battery voltage

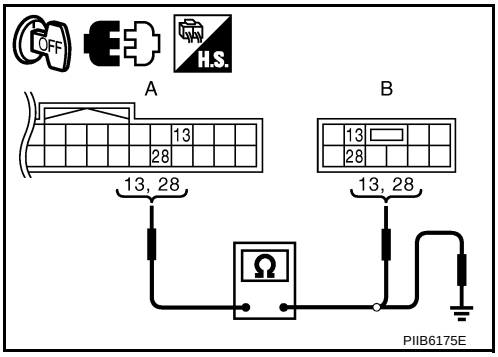


OK or NG

OK >> Lifting switch (front) circuit is OK.
NG >> GO TO 2.

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and power seat switch connector.
2. Check continuity between driver seat control unit connector and power seat switch connector.



A		B		Continuity
Driver seat control unit connector	Terminal	Power seat switch connector	Terminal	
B204	13	B213	13	Yes
	28		28	

3. Check continuity between driver seat control unit connector and ground.

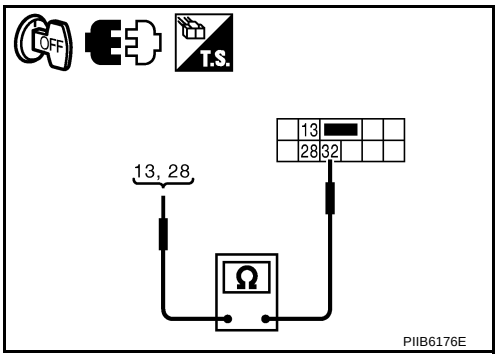
A		Ground	Continuity
Driver seat control unit connector	Terminal		
B204	13		No
	28		

OK or NG

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

3. CHECK LIFTING SWITCH (FRONT)

Check continuity between power seat switch as follows.



Power seat switch	Terminals		Condition	Continuity
B213	13	32	Lifting switch (front) ON (DOWN operation)	Yes
			Other than above	No
	28		Lifting switch (front) ON (UP operation)	Yes
			Other than above	No

OK or NG

OK >> Replace driver seat control unit.
NG >> Replace power seat switch.

Lifting Switch (Rear) Circuit Check

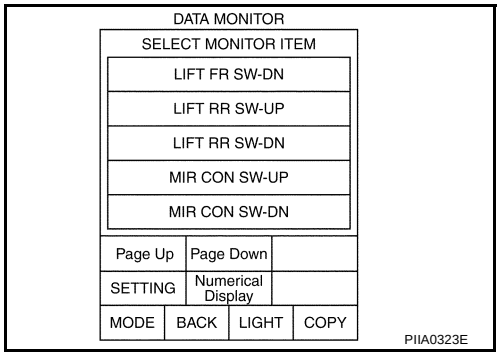
NIS0026O

1. CHECK FUNCTION

With CONSULT-II

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

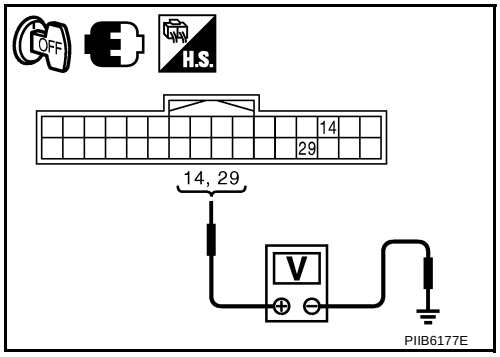
Monitor item [OPERATION or UNIT]		Contents
LIFT RR SW–UP	“ON/OFF”	Operation (ON)/open (OFF) status judged from the RR lifter switch (UP) signal is displayed.
LIFT RR SW–DN	“ON/OFF”	Operation (ON)/open (OFF) status judged from the RR lifter switch (DOWN) signal is displayed.



Without CONSULT-II

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

Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition	Voltage (V) (Approx.)
B204	14	Ground	Lifting switch (rear) ON (DOWN operation)	0
			Other than above	Battery voltage
	29		Lifting switch (rear) ON (UP operation)	0
			Other than above	Battery voltage

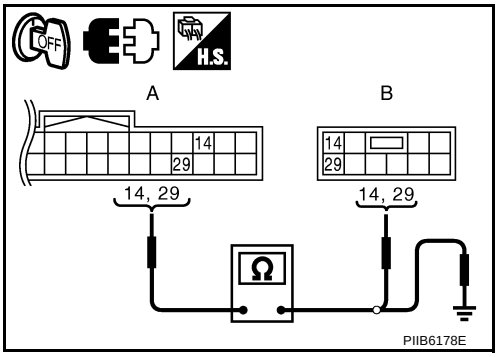


OK or NG

OK >> Lifting switch (rear) circuit is OK.
NG >> GO TO 2.

2. CHECK LIFTING SWITCH (REAR) CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and power seat switch connector.
2. Check continuity between driver seat control unit connector and power seat switch connector.



A		B		Continuity
Driver seat control unit connector	Terminal	Power seat switch connector	Terminal	
B204	14	B213	14	Yes
	29		29	

3. Check continuity between driver seat control unit connector and ground.

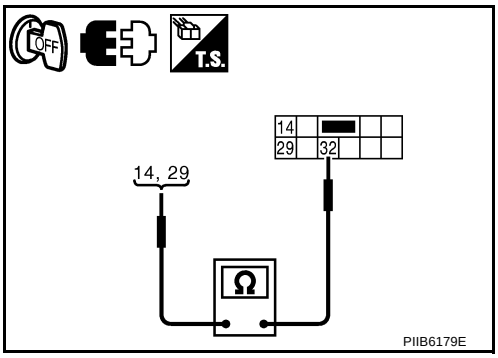
A		Ground	Continuity
Driver seat control unit connector	Terminal		
B204	14		No
	29		

OK or NG

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

3. CHECK LIFTING SWITCH (REAR)

Check continuity between power seat switch as follows.



Power seat switch	Terminals		Condition	Continuity
B213	14	32	Lifting switch (rear) ON (DOWN operation)	Yes
			Other than above	No
	29		Lifting switch (rear) ON (UP operation)	Yes
			Other than above	No

OK or NG

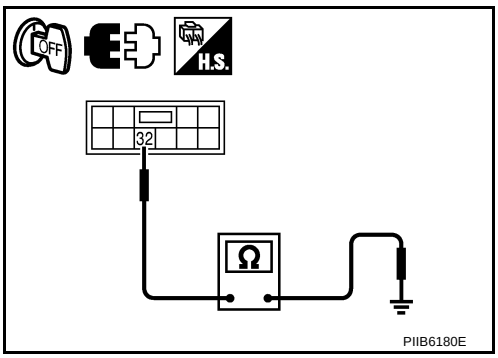
OK >> Replace driver seat control unit.
NG >> Replace power seat switch.

Power Seat Switch Ground Circuit Check

NIS0026P

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

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



Power seat switch connector	Terminal	Ground	Continuity
B213	32		Yes

OK or NG

OK >> Replace driver seat control unit.
NG >> Repair or replace harness.

Telescopic Switch Circuit Check

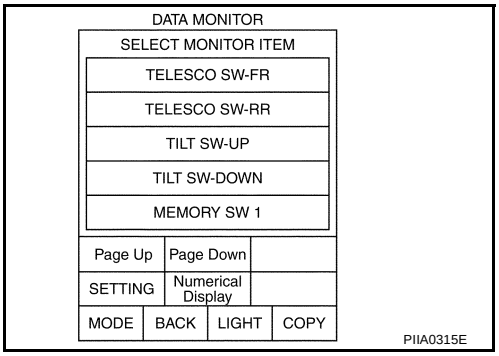
NIS0026Q

1. CHECK FUNCTION

With CONSULT-II

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

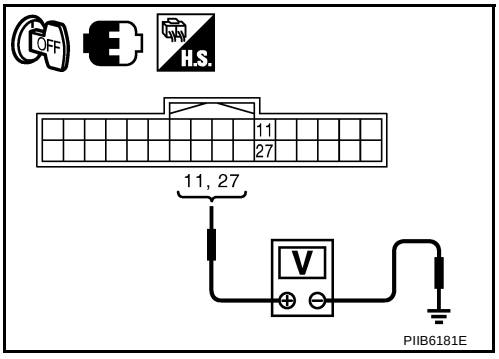
Monitor item [OPERATION or UNIT]		Contents
TELESCO SW-FR	“ON/OFF”	(ON/OFF) status judged from the telescoping switch (FR) signal is displayed.
TELESCO SW-RR	“ON/OFF”	(ON/OFF) status judged from the telescoping switch (RR) signal is displayed.



Without CONSULT-II

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

Automatic drive positioner control unit connector	Terminals (+)	Terminals (–)	Telescopic switch condition	Voltage (V) (Approx.)
M6	11	Ground	FORWARD	0
			Other than above	5
	27		BACKWARD	0
			Other than above	5

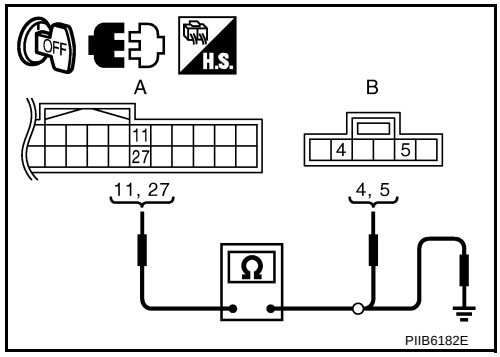


OK or NG

OK >> Telescopic switch circuit is OK.
NG >> GO TO 2.

2. CHECK TELESCOPIC CIRCUIT HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit connector and ADP steering switch connector.
2. Check continuity between automatic drive positioner control unit connector and ADP steering switch connector.



A		B		Continuity
Automatic drive positioner control unit connector	Terminal	ADP steering switch connector	Terminal	
M6	11	M46	5	Yes
	27		4	

3. Check continuity between automatic drive positioner control unit connector and ground.

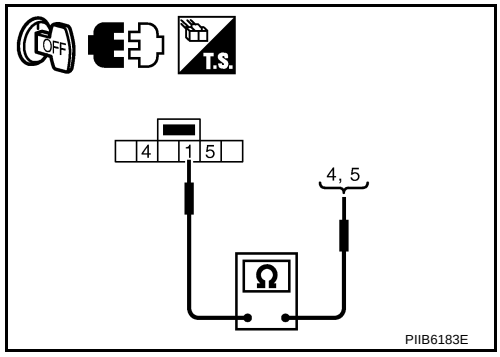
A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M6	11		No
	27		

OK or NG

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

3. CHECK TELESCOPIC SWITCH

ADP steering switch operate, check continuity ADP steering switch.



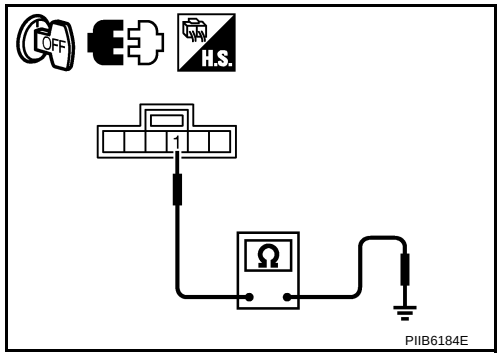
ADP steering switch	Terminal		ADP steering switch condition	Continuity
M46	5	1	FORWARD	Yes
			Other than above	No
	4		BACKWARD	Yes
			Other than above	No

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 and ground.



ADP steering switch connector	Terminal	Ground	Continuity
M46	1		Yes

OK or NG

OK >> Replace automatic drive positioner control unit.
NG >> Replace or replace harness.

Tilt Switch Circuit Check

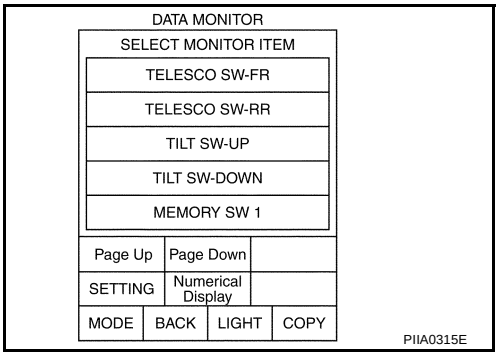
NIS0026R

1. CHECK FUNCTION

With CONSULT-II

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

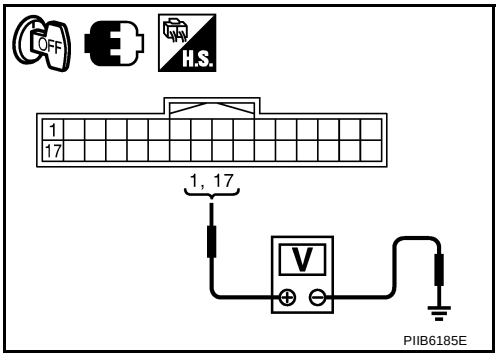
Monitor item [OPERATION or UNIT]		Contents
TILT SW-UP	“ON/OFF”	(ON/OFF) status judged from the tilt switch (UP) signal is displayed.
TILT SW-DOWN	“ON/OFF”	(ON/OFF) status judged from the tilt switch (DOWN) signal is displayed.



Without CONSULT-II

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

Automatic drive positioner control unit connector	Terminals (+)	Terminals (–)	Tilt switch condition	Voltage (V) (Approx.)
M6	1	Ground	UP	0
			Other than above	5
	17		DOWN	0
			Other than above	5

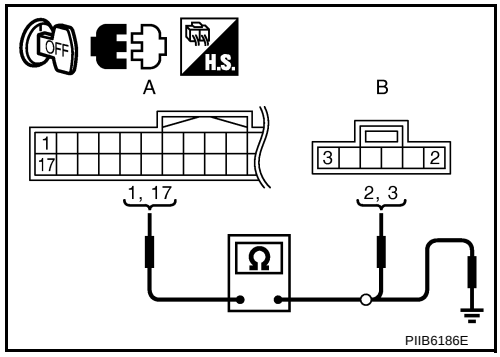


OK or NG

OK >> Tilt switch circuit is OK.
NG >> GO TO 2.

2. CHECK TILT SWITCH CIRCUIT HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit connector and ADP steering switch connector.
2. Check continuity between automatic drive positioner control unit connector and ADP steering switch connector.



A		B		Continuity
Automatic drive positioner control unit connector	Terminal	ADP steering switch connector	Terminal	
M6	1	M46	2	Yes
	17		3	

3. Check continuity between automatic drive positioner control unit connector and ground.

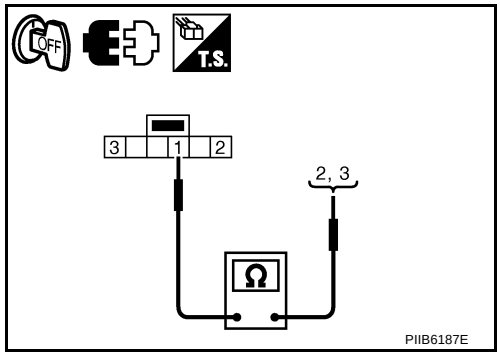
A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M6	1		No
	17		

OK or NG

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

3. CHECK ADP TILT STEERING SWITCH

ADP steering switch operate, check continuity ADP steering switch.



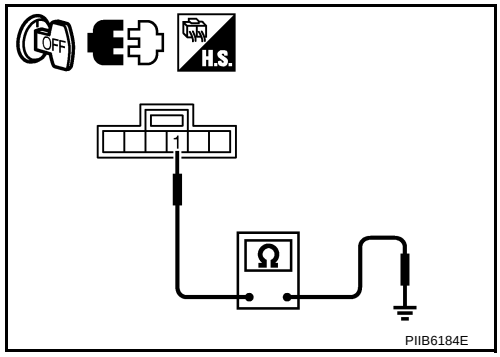
ADP steering switch	Terminal		ADP steering switch condition	Continuity
M46	2	1	UP	Yes
			Other than above	No
	3		DOWN	Yes
			Other than above	No

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 and ground.



ADP steering switch connector	Terminal	Ground	Continuity
M46	1		Yes

OK or NG

OK >> Replace automatic drive positioner control unit.
NG >> Repair or replace harness.

Seat Memory and Set Switch Circuit Check

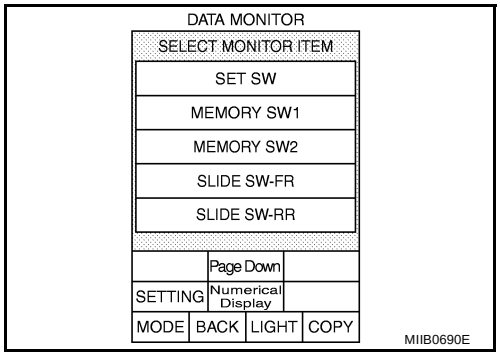
NIS0026S

1. CHECK FUNCTION

With CONSULT-II

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

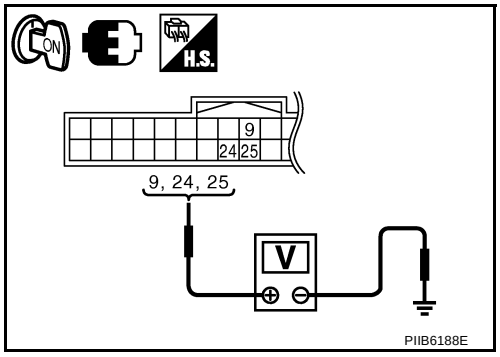
Monitor item [OPERATION or UNIT]		Contents
SET SW	“ON/OFF”	ON/OFF status judged from the setting switch signal is displayed.
MEMORY SW1	“ON/OFF”	ON/OFF status judged from the seat memory switch 1 signal is displayed.
MEMORY SW2	“ON/OFF”	ON/OFF status judged from the seat memory switch 2 signal is displayed.



Without CONSULT-II

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

Automatic drive positioner control unit connector	Terminals (+)	Terminals (-)	Condition	Voltage [V] (Approx.)
M6	9	Ground	Memory switch 1: ON	0
			Other than above	5
	24		Set switch: ON	0
			Other than above	5
	25		Memory switch 2: ON	0
			Other than above	5



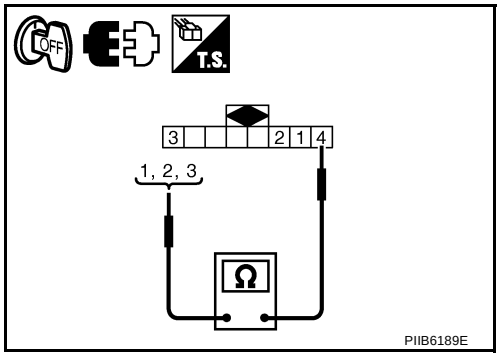
OK or NG

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

2. CHECK SEAT MEMORY SWITCH

1. Disconnect seat memory switch connector.
2. Operate the setting switch and seat memory switch.
3. Check continuity between seat memory switch as follows.

Seat memory switch	Terminal		Condition	Continuity
D9	1	4	Memory switch 1 ON	Yes
			Memory switch 1: OFF	No
	2		Memory switch 2: ON	Yes
			Memory switch 2: OFF	No
	3		Set switch: ON	Yes
			Set switch: OFF	No

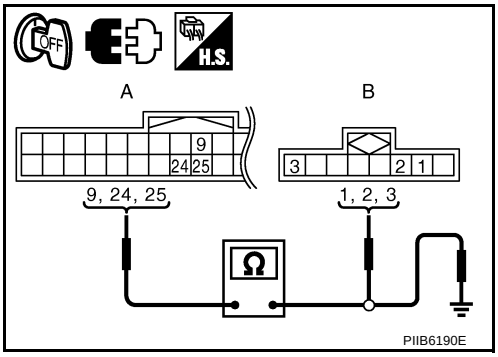


OK or NG

OK >> GO TO 3.
NG >> Replace seat memory switch.

3. CHECK HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit connector.
2. Check continuity between automatic drive positioner control unit connector and seat memory switch connector.



A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Seat memory switch connector	Terminal	
M6	9	D9	1	Yes
	24		3	
	25		2	

3. Check continuity between automatic drive positioner control unit connector and ground.

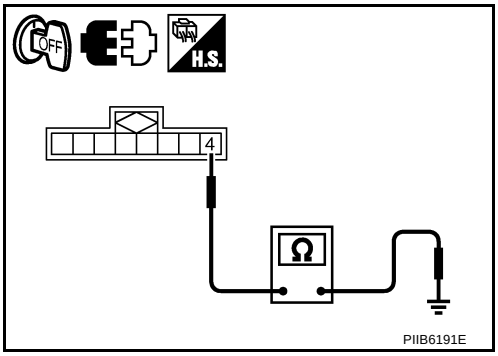
A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M6	9		No
	24		
	25		

OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness.

4. CHECK SEAT MEMORY SWITCH GROUND CIRCUIT

Check continuity between seat memory switch connector and ground.



Seat memory switch connector	Terminal	Ground	Continuity
D9	4		Yes

OK or NG

OK >> Replace automatic drive positioner control unit.
NG >> Repair or replace harness.

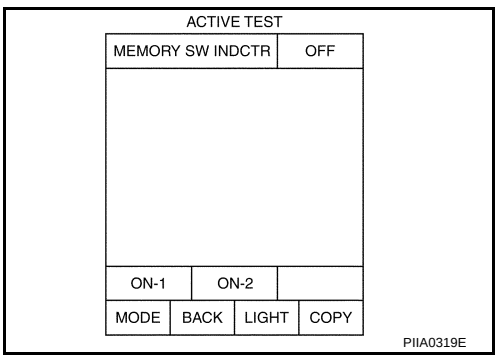
Seat Memory Indicator Lamp Circuit Check

NIS0026T

1. CHECK FUNCTION

With CONSULT-II

With “MEMORY SW INDCTR” in ACTIVE TEST, check operation.



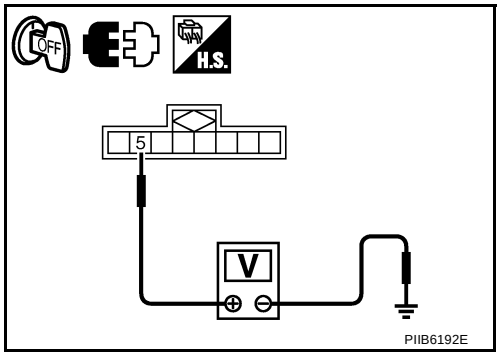
Test item	Description
MEMORY SW INDCTR	The memory switch indicator is lit by receiving the drive signal.

OK or NG

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

2. CHECK SEAT MEMORY INDICATOR LAMP POWER SYUPPLY CIRCUIT

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



Terminals			Voltage (V) (Approx.)
(+)		(–)	
Seat memory switch connector	Terminal		
D9	5	Ground	Battery voltage

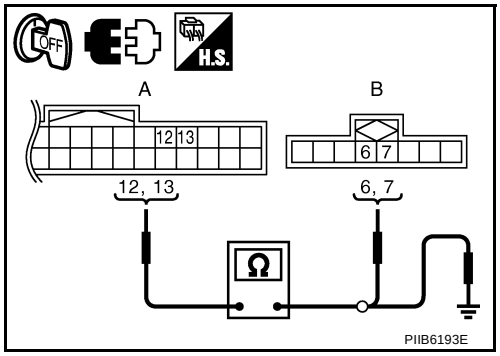
OK or NG

OK >> GO TO 3.
NG >> Check the following.

- 10A fuse [No.18, Located in the fuse block (J/B)]
- Harness for open or short between seat memory switch and fuse.

3. CHECK SEAT MEMORY INDICATOR CIRCUIT HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit connector.
2. Check continuity between automatic drive positioner control unit connector and seat memory switch connector.



A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Seat memory switch connector	Terminal	
M6	12	D9	6	Yes
	13		7	

3. Check continuity between automatic drive positioner control unit connector and ground.

A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M6	12		No
	13		

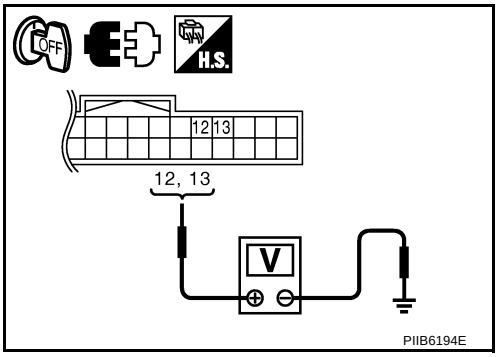
OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness.

4. CHECK SEAT MEMORY SWITCH INDICATOR SIGNAL

1. Connect seat memory switch connector.
2. Check continuity between automatic drive positioner control unit connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Seat memory switch connector	Terminal		
M6	12	Ground	Battery voltage
	13		



OK or NG

OK >> Replace automatic drive positioner control unit.
NG >> Replace seat memory switch.

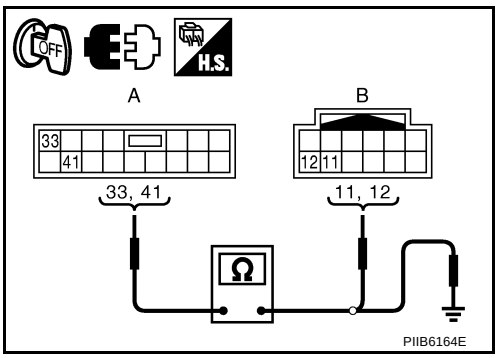
Door Mirror Sensor Power Supply and Ground Circuit Check

NIS0026U

1. CHECK DOOR MIRROR SENSOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror (LH and RH) connector.
3. Check continuity between automatic drive positioner control unit connector and door mirror connector LH/RH.

A		B		Continuity
Automatic drive positioner control unit connector	Terminal	Door mirror connector	Terminal	
M7	33	D2 (LH)	11	Yes
	41	D39 (RH)	12	



4. Check continuity between automatic drive positioner control unit connector and ground.

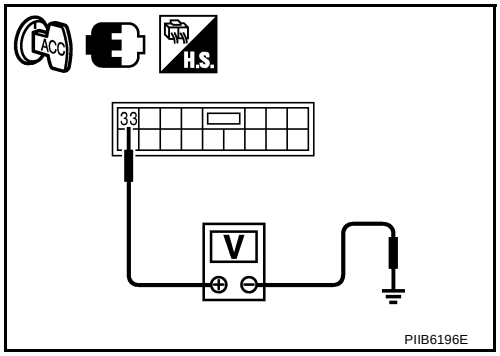
A		Ground	Continuity
Automatic drive positioner control unit connector	Terminal		
M7	33		No
	41		

OK or NG

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

2. CHECK MIRROR SENSOR POWER SUPPLY

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



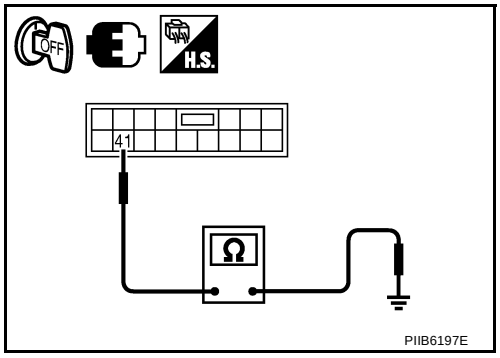
Terminals			Voltage (V) (Approx.)
(+)		(–)	
Automatic drive positioner control unit connector	Terminal		
M6	33	Ground	5

OK or NG

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

3. CHECK MIRROR SENSOR GROUND CIRCUIT

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



Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M6	41		Yes

OK or NG

OK >> Door mirror power supply and ground circuit are OK.
NG >> Replace automatic drive positioner control unit.

A/T Device (Detention Switch) Circuit Check

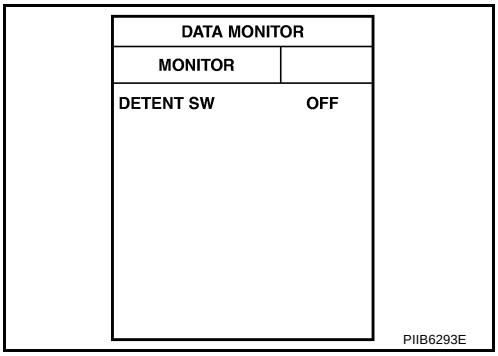
NIS0026V

1. CHECK FUNCTION

With CONSULT-II

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

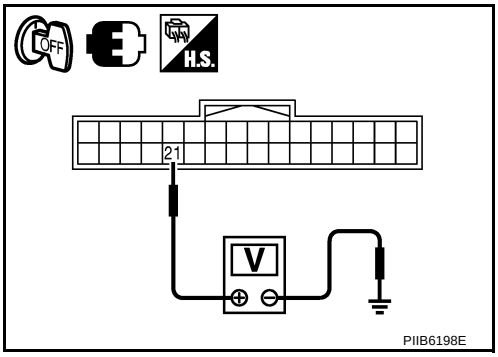
Monitor item [OPERATION or UNIT]		Contents
Detention SW	“ON/ OFF”	The selector lever position “P position (OFF)/other than P position (ON)” judged from the detention switch signal is displayed.



Without CONSULT-II

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

Driver seat control unit connector	Terminal		Condition of A/T selector lever	Voltage (V) (Approx.)
	(+)	(–)		
M204	21	Ground	P position	0
			Other than above	Battery voltage



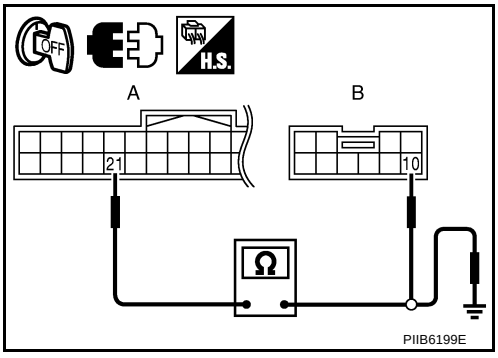
OK or NG

OK >> A/T device (detention switch) circuit is OK.
NG >> GO TO 2.

2. CHECK A/T DEVICE (PARK POSITION SWITCH) HARNESS

1. Turn ignition switch OFF.
2. Disconnect A/T device and driver seat control unit connector.
3. Check continuity between A/T device connector and driver seat control unit connector.

A		B		Continuity
Driver seat control unit connector	Terminal	A/T device connector	Terminal	
M204	21	M133	10	Yes



4. Check continuity between driver seat control unit connector and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
M204	21		No

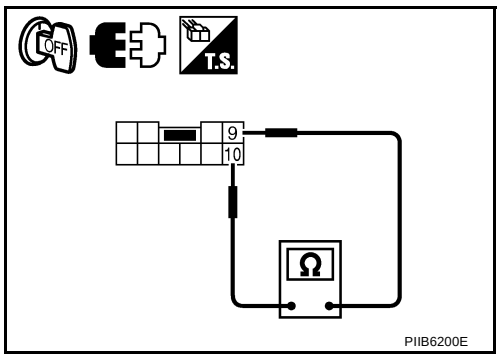
OK or NG

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

3. CHECK PARK POSITION SWITCH

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

A/T device	Terminals		Condition	Continuity
M133	9	10	P position	Yes
			Other than P position	No



OK or NG

OK >> Check the condition of the harness and the connector.
NG >> Replace A/T device.

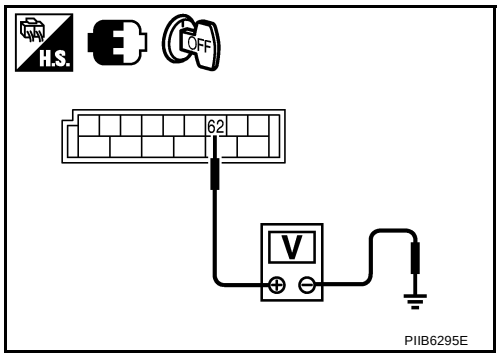
Front Door Switch (Driver Side) Circuit Check

NIS0026W

1. CHECK DOOR SWITCH INPUT SIGNAL

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

Terminals (+)		Terminals (–)	Door condition		Voltage (V) (Approx.)
BCM connector	Terminal				
M3	62	Ground	Driver side	OPEN	0
				CLOSE	Battery voltage



OK or NG

OK >> Door switch circuit is OK.
NG >> GO TO 2.

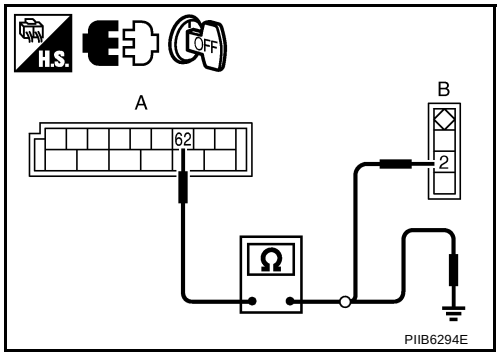
2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and door switch (driver side) connector.
3. Check continuity between BCM connector and door switch (driver side) connector.

A		B		Continuity
BCM connector	Terminal	Door switch connector	Terminal	
M3	62	B11	2	Yes

4. Check continuity between BCM connector ground.

A		Ground	Continuity
BCM connector	Terminal		
M3	62		No



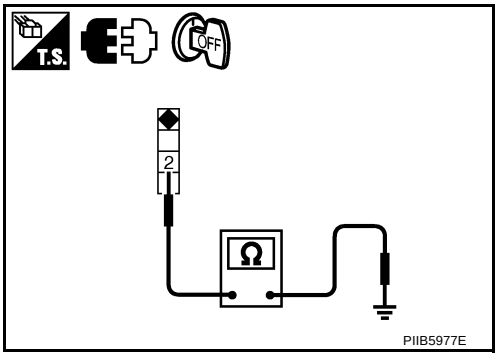
OK or NG

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

3. CHECK DOOR SWITCH

Check continuity door switch (driver side).

Terminal		Door switch	Continuity
Door switch			
2	Ground part of door switch	Pushed	No
		Released	Yes



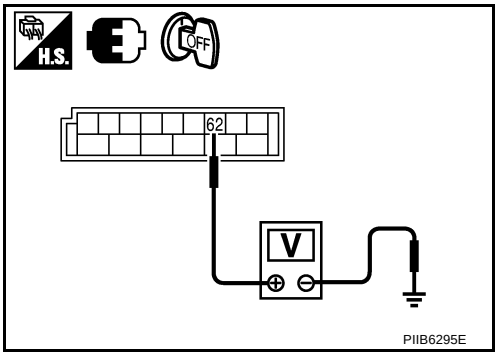
OK or NG

OK >> GO TO 4.
NG >> Replace door switch (driver side).

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM connector ground.

Terminal			Voltage (V) (Approx.)
(+)		(–)	
BCM connector	Terminal		
M3	62	Ground	Battery voltage



OK or NG

OK >> Check the condition of the harness and the connector.
NG >> Replace BCM.

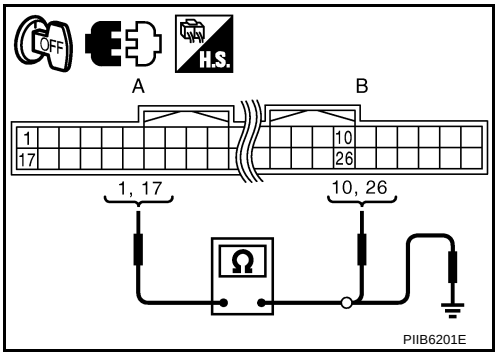
UART Communication Line Circuit Check

NIS0026X

1. CHECK UART LINE HARNESS

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and automatic drive positioner control unit connector.
3. Check continuity between driver seat control unit connector and automatic drive positioner connector.

A		B		Continuity
Driver seat control unit connector	Terminal	Automatic drive positioner control unit connector	Terminal	
B204	1	M6	10	Yes
	17		26	



4. Check continuity between driver seat control unit connector and ground.

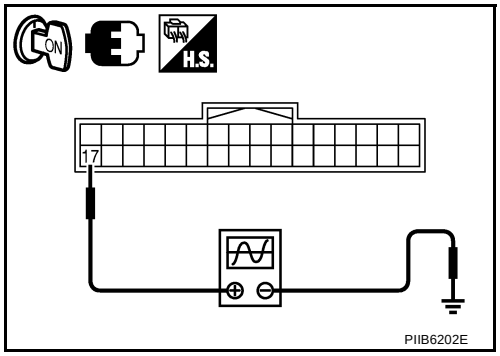
A		Ground	Continuity
Driver seat control unit connector	Terminal		
B204	1		No
	17		

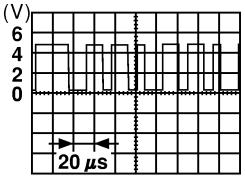
OK or NG

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

2. CHECK UART LINE INPUT/OUTPUT SIGNAL 1

1. Connect driver seat control unit and automatic drive positioner control unit connector.
2. Turn ignition switch ON.
3. Check signal between driver seat control unit connector and ground, with oscilloscope.



Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition	Signal (Reference value)
B204	17	Ground	Tilt switch operated	

SKIA0175E

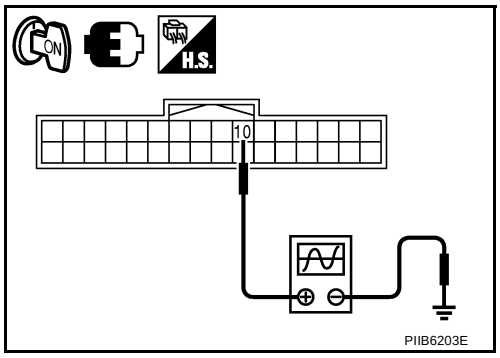
OK or NG

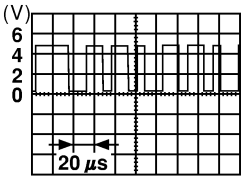
OK >> GO TO 3.
NG >> Check the following.

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

3. CHECK UART LINE INPUT/OUTPUT SIGNAL 2

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



Automatic drive positioner control unit connector	Terminals (+)	Terminals (–)	Condition	Signal (Reference value)
M6	10	Ground	Tilt switch operated.	

SKIA0175E

OK or NG

OK >> GO TO 4.
NG >> Check the following.

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

4. CHECK DRIVER SEAT CONTROL UNIT

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

OK or NG

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

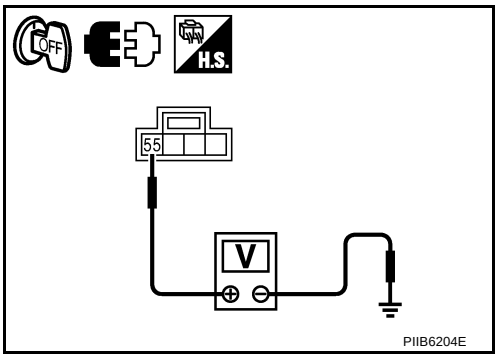
Lumber Support Circuit Check

NIS0026Y

1. CHECK LUMBER SUPPORT SWITCH

1. Turn ignition switch OFF.
2. Disconnect lumber support switch connector.
3. Check voltage between lumber support switch connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Lumbar support switch connector	Terminal		
B212	55	Ground	Battery voltage



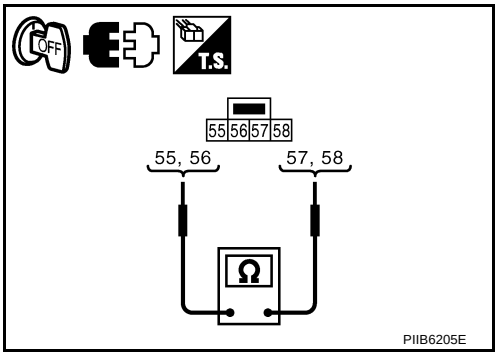
OK or NG

OK >> GO TO 2.
NG >> Repair or replace harness between fuse block (J/B) and lumber support switch.

2. CHECK LUMBER SUPPORT SWITCH

Check continuity lumber support switch connector.

Lumbar support switch	Terminal		Condition of lumbar support switch	Continuity
B212	55	57	FORWARD	Yes
			Other than above	No
		58	BACKWARD	Yes
			Other than above	No
	56	57	FORWARD	No
			Other than above	Yes
		58	BACKWARD	No
			Other than above	Yes

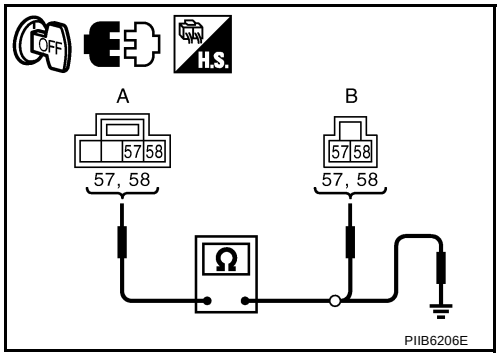


OK or NG

OK >> GO TO 3.
NG >> Replace lumber support switch.

3. CHECK LUMBER SUPPORT MOTOR HARNESS

1. Disconnect lumber support motor connector.
2. Check continuity between lumber support switch connector and lumber support motor connector.



A		B		Continuity
Lumbar support switch connector	Terminal	Lumbar support motor connector	Terminal	
B212	57	B211	57	Yes
	58		58	

3. Check continuity between lumber support switch connector and ground.

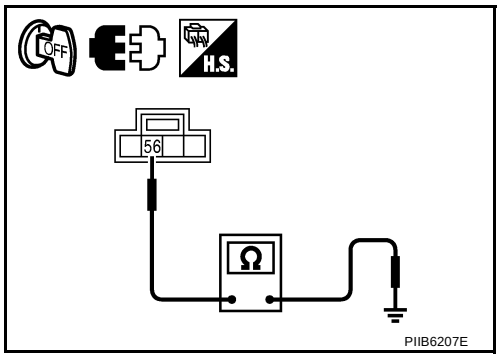
A		Ground	Continuity
Lumbar support switch connector	Terminal		
B212	57		No
	58		

OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness.

4. CHECK LUMBER SUPPORT SWITCH GROUND CIRCUIT

Check continuity between lumber support switch connector and ground.



Lumbar support switch connector	Terminal	Ground	Continuity
B212	56		Yes

OK or NG

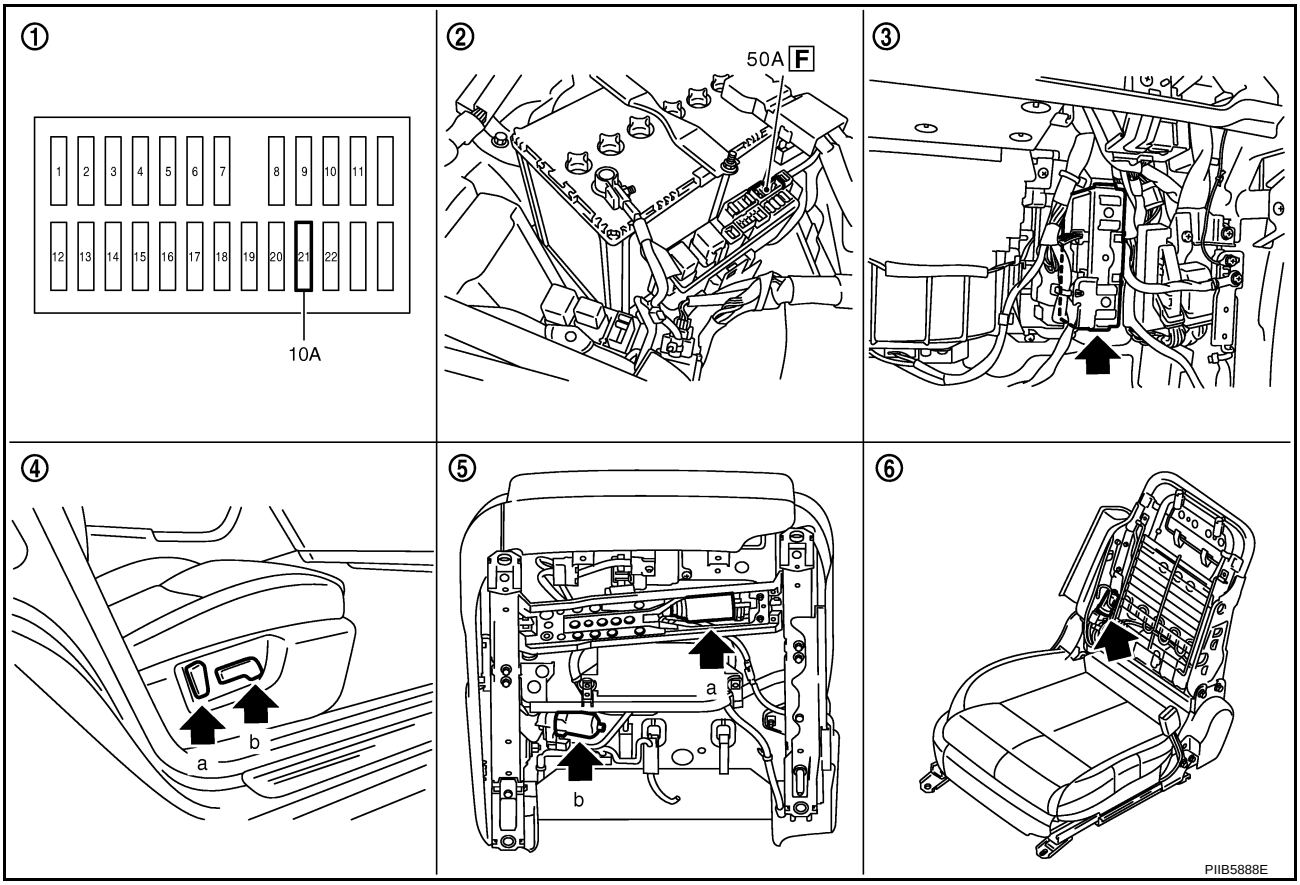
OK >> Check the condition of the harness and connector.
NG >> Repair or replace harness between lumber support switch and ground.

POWER SEAT(PASSENGER SIDE)

PFP:87050

Component Parts and Harness Connector Location

NIS0026Z

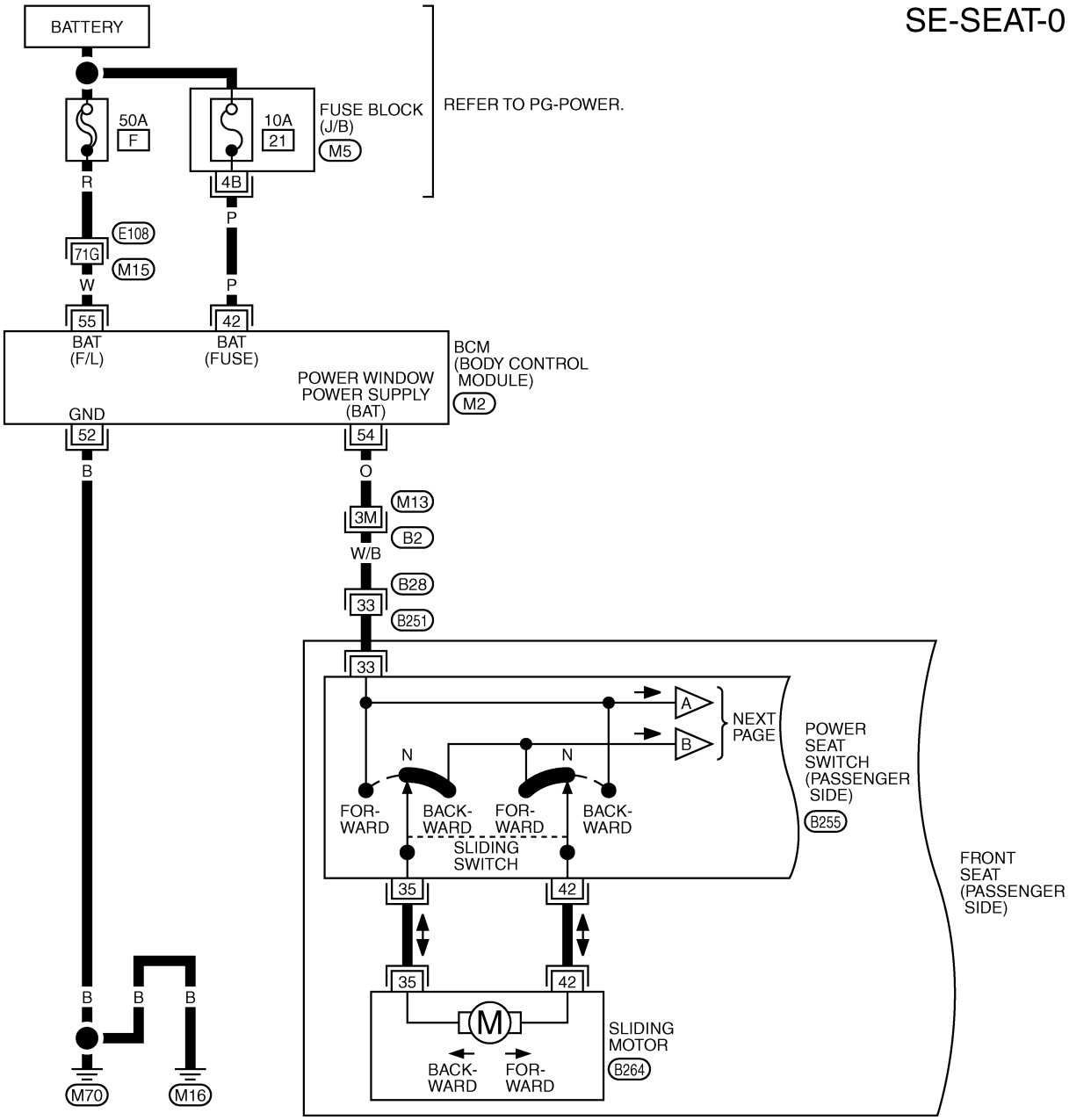


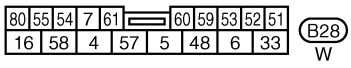
1. Fuse block (J/B)
2. Fuse, fusible link and relay block (J/B)
3. BCM M2 (View with the glove box cover removed)
4. Power seat switch B255
   a: Reclining switch
   b: Sliding and lifting switch
5. a: Sliding motor M264
   b: Lifting motor M266
6. Reclining motor M263

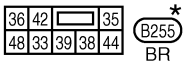
Wiring Diagram—SEAT—/Passenger Side

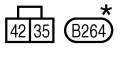
NIS00270

SE-SEAT-01









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

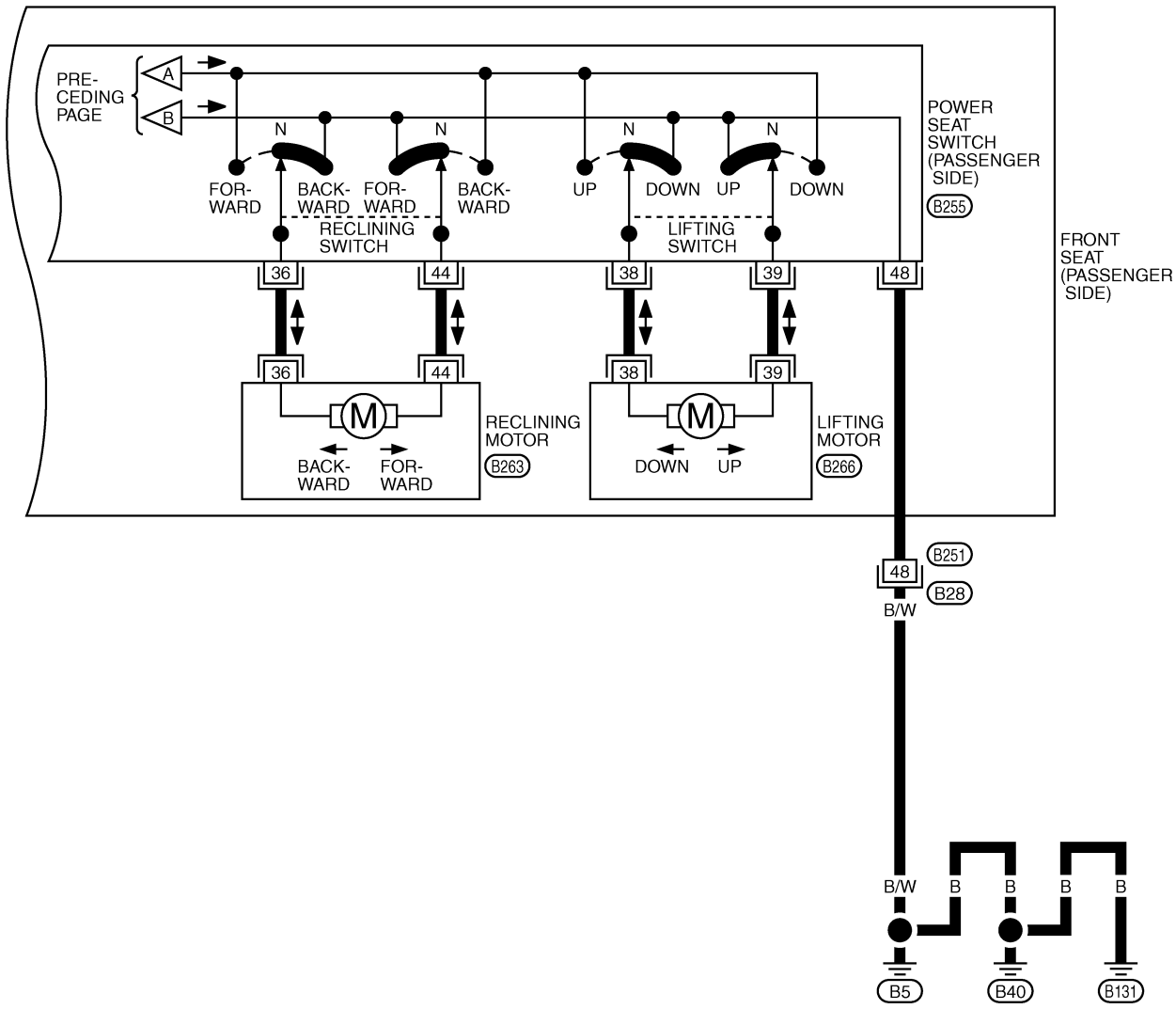
REFER TO THE FOLLOWING.

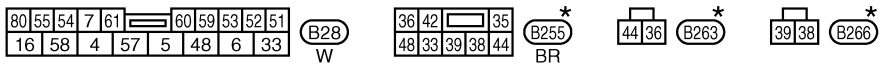
E108 , B2 -SUPER MULTIPLE JUNCTION (SMJ)

M5 -FUSE BLOCK-JUNCTION BOX (J/B)

M2 -ELECTRICAL UNITS

TIWT1384E





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

TIWT1385E

Terminals and Reference Values for BCM

NIS00271

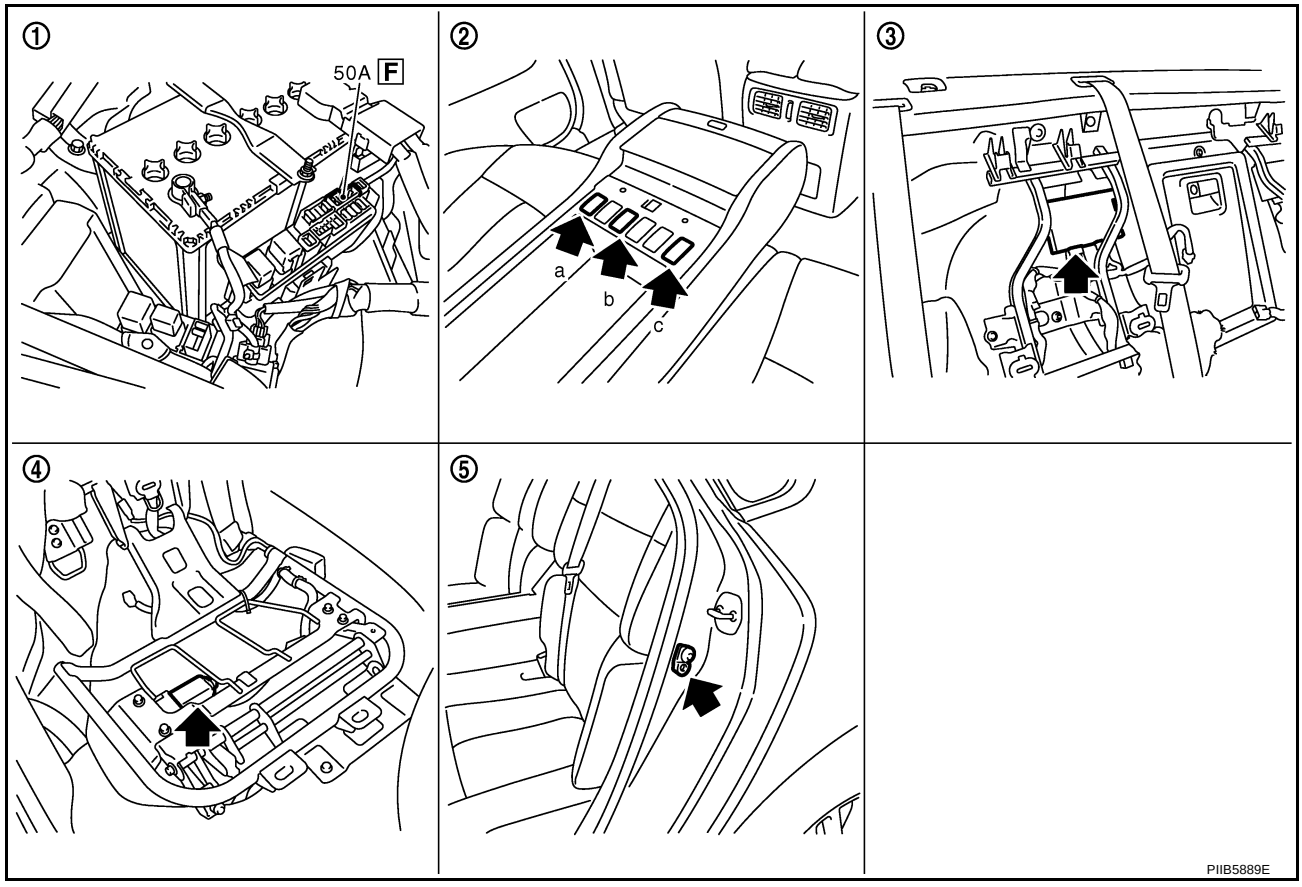
Terminal	Wire color	Item	Condition	Voltage [V] (Approx.)
42	P	Power source (Fuse)	—	Battery voltage
52	B	Ground	—	0
54	O	Power window power supply (BAT)	—	Battery voltage
55	W	Power source (F/L)	—	Battery voltage

POWER SEAT(REAR)

PFP:88010

Component Parts and Harness Connector Location

NIS00272



1.	Fuse, fusible link and relay block (J/B)	2.	a: Rear power seat switch LH B504 b: Automatic return cancel switch B508 c: Rear power seat switch RH B555	3.	Rear seat control unit B303, B304 (LH) B353, B354 (RH) (View with the rear seatback removed)
4.	Rear seat sliding motor B311 (LH), B361 (RH) (View with the rear seat cushion removed)	5.	Rear door switch B53 (LH), B403 (RH)		

System Description

NIS00273

The rear power seat (LH / RH) retreats when the auto return cancel switch is turned on and each door is opened.
When the rear power seat switch turned on, or auto return cancel switch is canceled, an auto return is discontinued.
Power is all time supplied

- through 50A fusible link [letter F, located in the fuse block (J/B)],
- to rear LH seat control unit, rear RH seat control unit terminal 1.

REAR POWER SEAT LH AND RH OPERATION

When rear power seat switch is forward, ground is supplied

- to rear seat control unit terminal 10,
- through rear power seat switch terminal 2,
- through rear power seat switch terminal 3,
- through body grounds B5, B40, B131.

When rear seat control unit receives power seat switch forward signal, power is supplied

- through rear seat control unit terminal 2,
- to rear seat sliding motor terminal 3.

Then ground is supplied

- through rear seat sliding motor terminals 5,
- through body grounds B5, B40, B131.

When power and ground are supplied, rear power seat slide moves forward.
When rear power seat switch is backward, ground is supplied

- to rear seat control unit terminal 15,
- through rear power seat switch terminal 1,
- through rear power seat switch terminal 3,
- through body grounds B5, B40, B131.

When rear seat control unit receives power seat switch backward signal, power is supplied

- to rear seat control unit terminal 7,
- through rear seat sliding motor terminal 4.

Then ground is supplied

- through rear seat sliding motor terminals 5,
- through body grounds B5, B40, B131.

When power and ground are supplied, rear power seat slide moves backward.

REAR SEAT RETREAT FUNCTION

When rear door open, ground is supplied

- to rear seat control unit terminal 16,
- through rear door switch terminal 2,

When rear seat control unit receives automatic return cancel switch ON and rear door switch open signal, power is supplied

- through rear seat control unit terminal 7,
- to rear seat sliding motor terminal 4.

Then ground is supplied

- through rear seat sliding motor terminals 5,
- through body grounds B5, B40, B131.

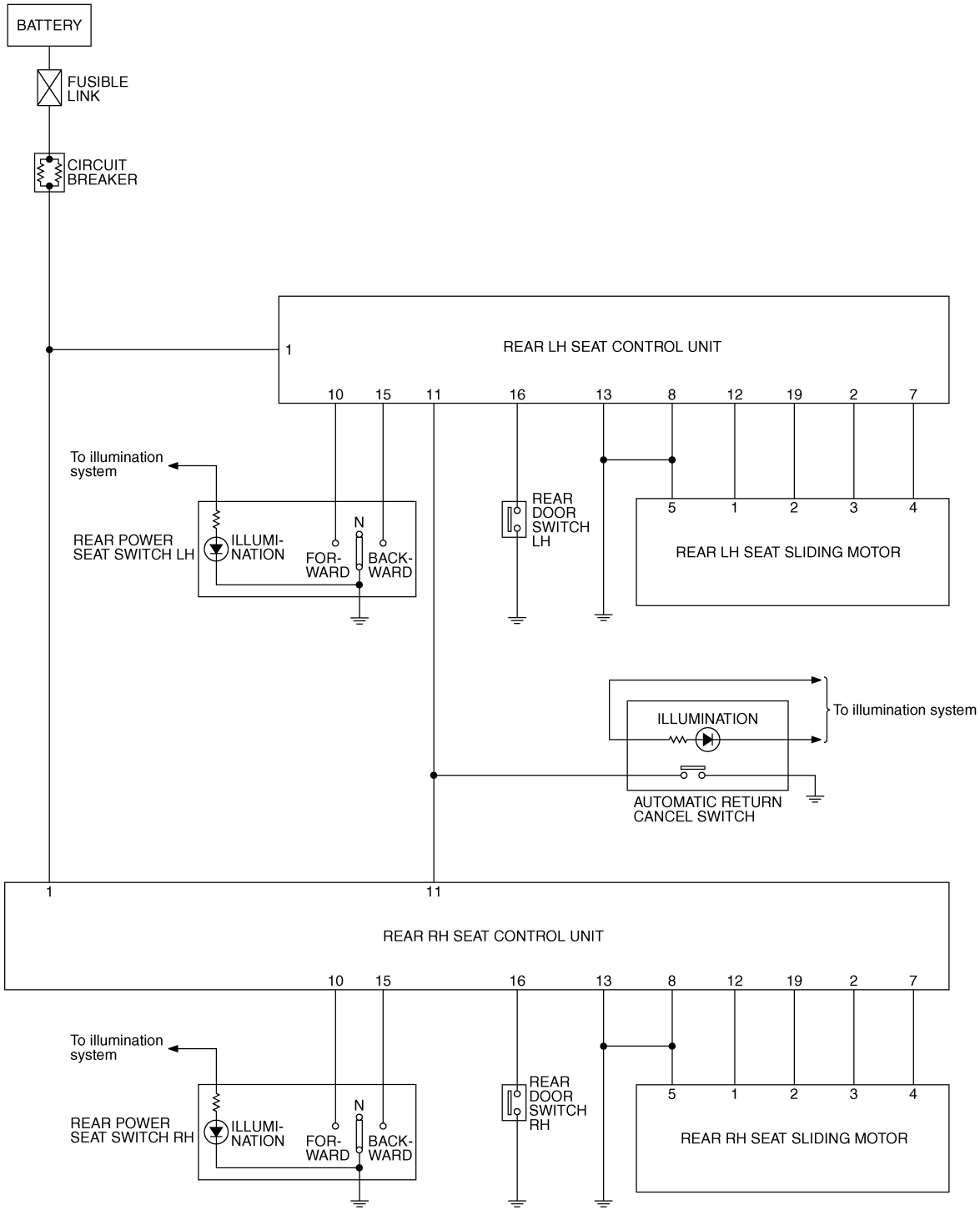
When power and ground are supplied, rear power seat slide moves backward.
When rear seat sliding motor is operated, ground is supplied

- to rear seat control unit terminal 12,
- through rear seat sliding motor terminal 1,
- through rear seat sliding motor terminal 2,
- through rear seat control unit terminal 19,
- through rear seat control unit terminals 13,
- through body grounds B5, B40, B131.

Then rear seat control unit receives rear power seat sliding sensor signal.
The rear power seat control unit controls the seat position of the system operation with the signal.

Schematic

NIS00274

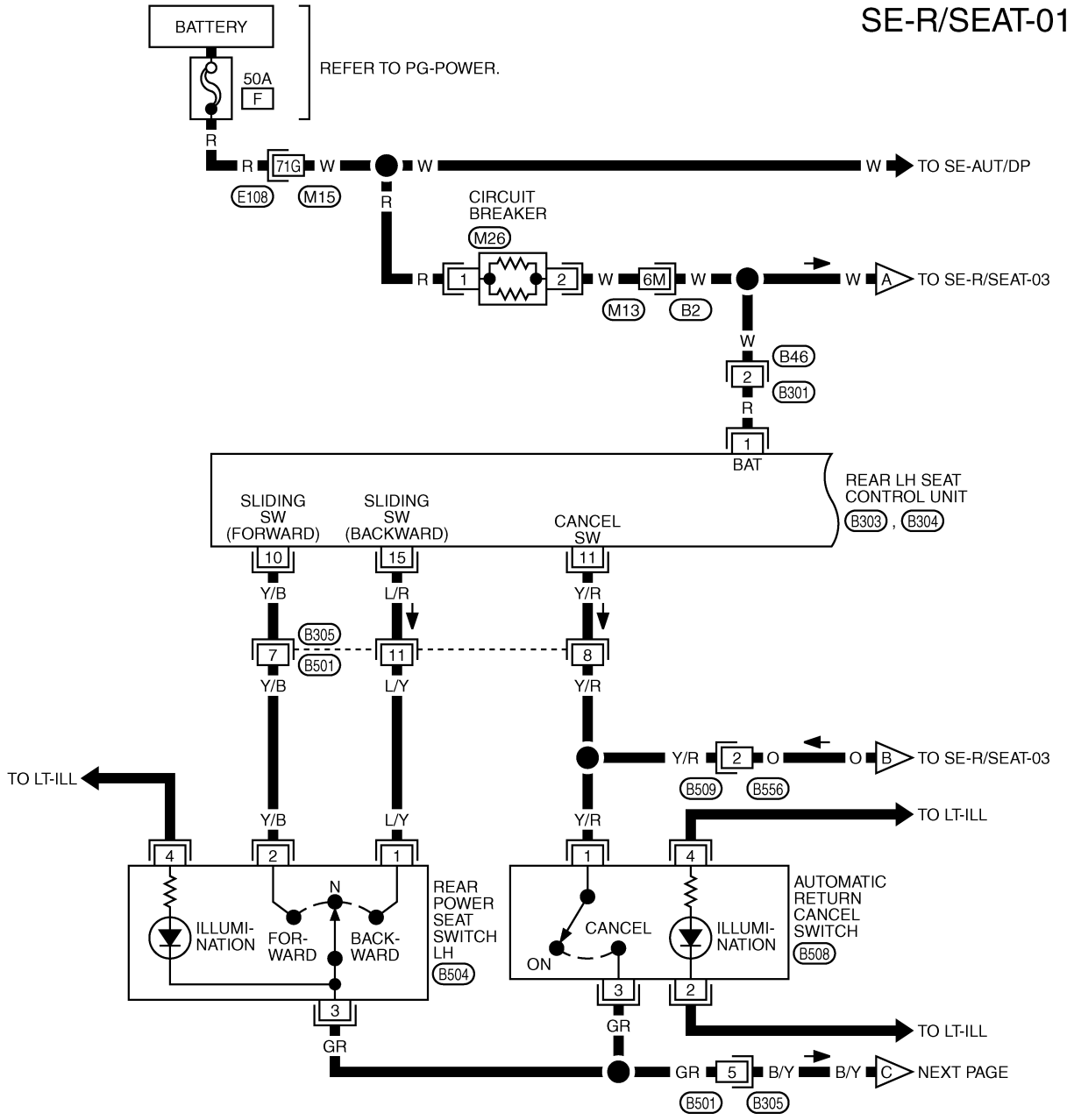


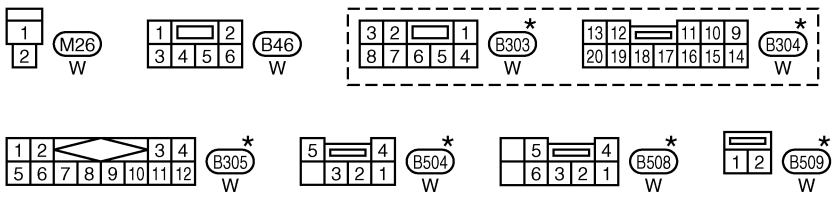
TIWT1386E

Wiring Diagram—R/SEAT—

NIS00275

SE-R/SEAT-01



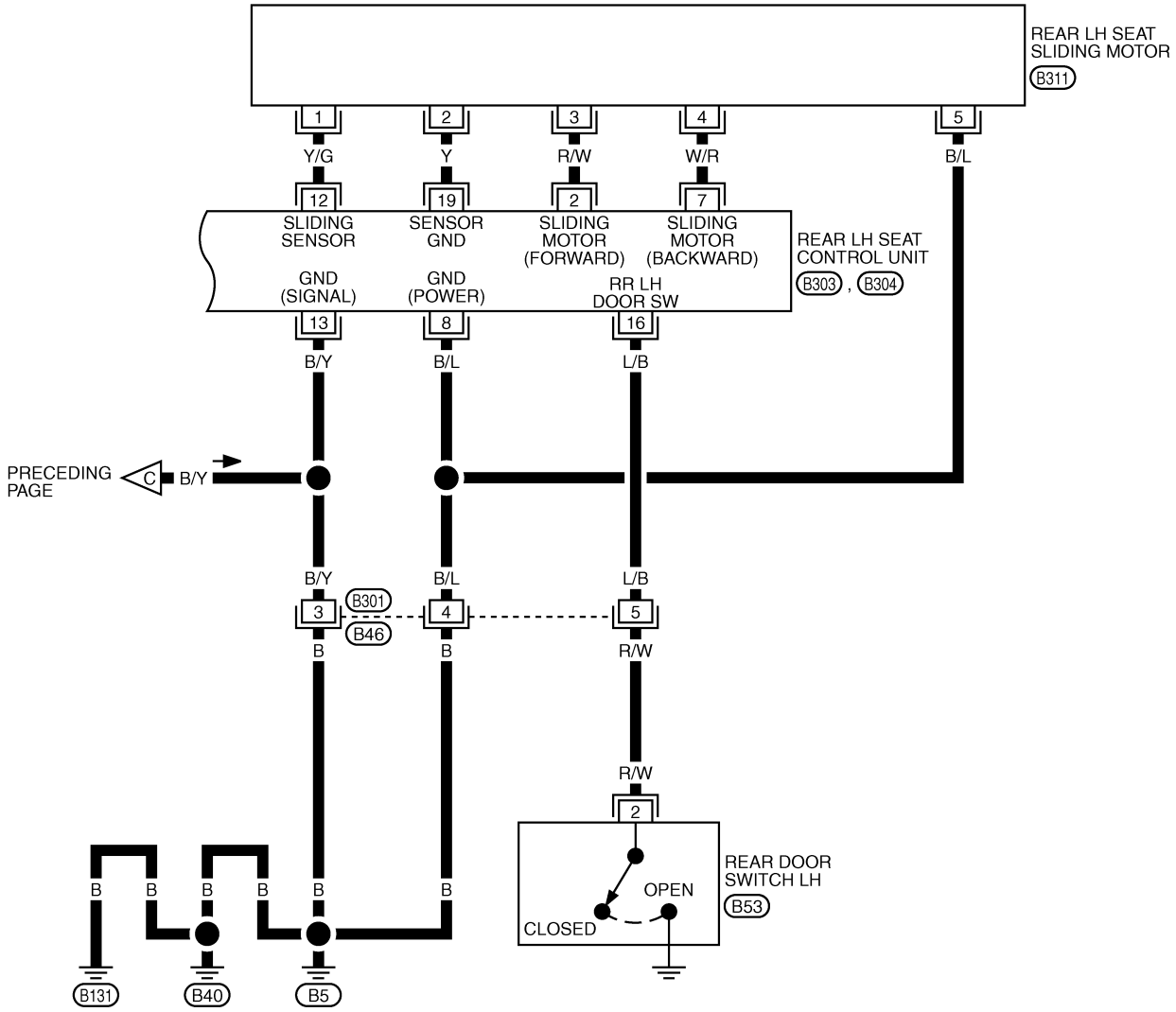


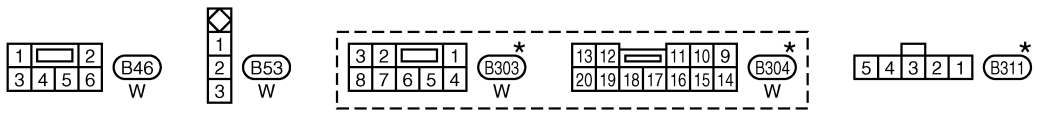
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

REFER TO THE FOLLOWING.
E108 , B2 -SUPER MULTIPLE JUNCTION (SMJ)

TIWT1387E

SE-R/SEAT-02

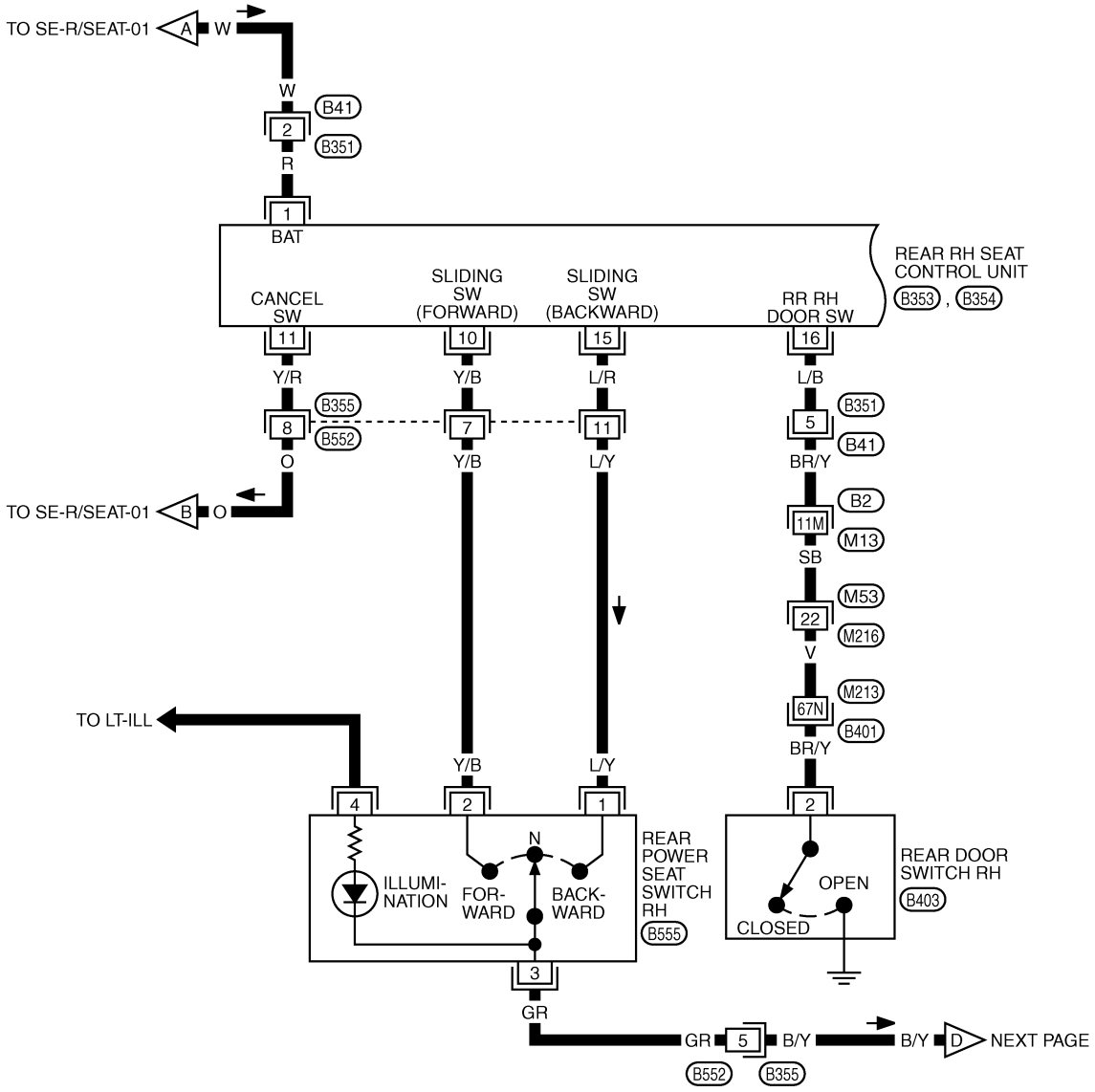


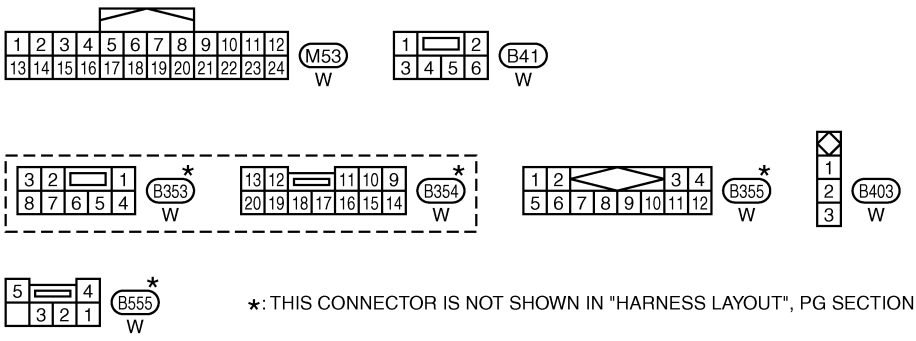


*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWT1388E

SE-R/SEAT-03



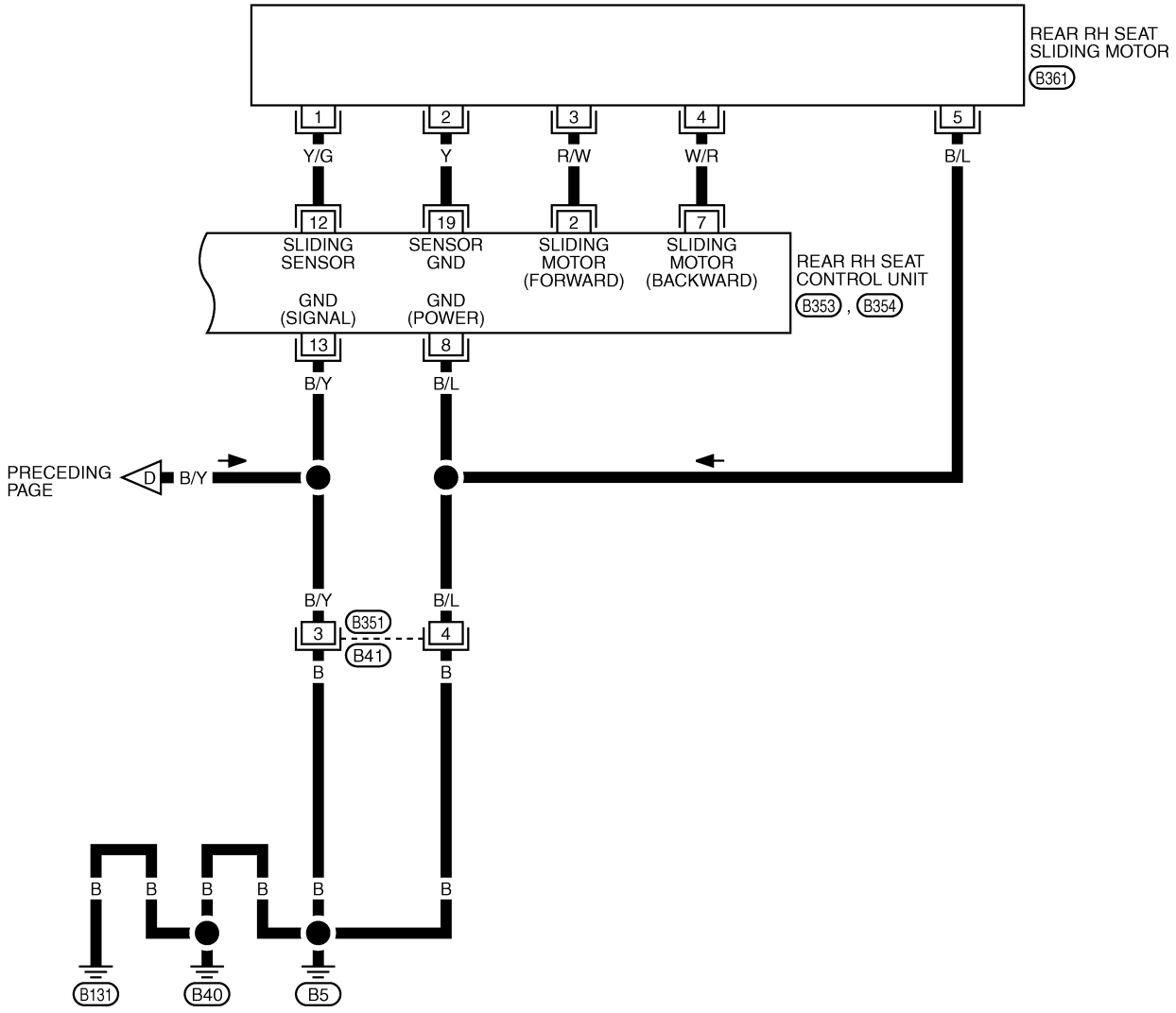


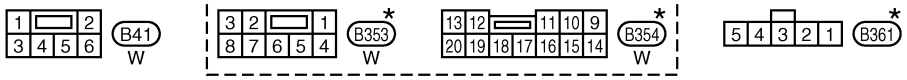
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

REFER TO THE FOLLOWING.
B2 , B401 -SUPER MULTIPLE JUNCTION (SMJ)

TIWT1389E

SE-R/SEAT-04



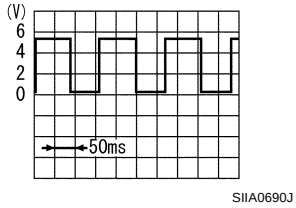


*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWT1390E

Terminals and Reference Values for Rear Seat Control Unit

NIS00276

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
1	R	Power source (BAT)	—	Battery voltage
2	R/W	Sliding motor forward signal	When sliding switch forward is operated	Battery voltage
			Other than above	0
7	W/R	Sliding motor backward signal	When sliding switch backward is operated	Battery voltage
			Other than above	0
8	B/L	Ground (power)	—	0
10	Y/B	Sliding switch forward signal	When sliding switch forward is operated.	0
			Other than above.	Battery voltage
11	Y/R	Cancel switch signal	Cancel switch ON	5
			Cancel switch CANCEL	0
12	Y/G	Sliding sensor signal	Sliding device active	 SIIA0690J
			Sliding device inactive	0 or 5
13	B/Y	Ground (signal)	—	0
15	L/R	Sliding switch backward signal	When sliding switch backward is operated.	0
			Other than above	Battery voltage
16	L/B	Rear door switch signal	Rear door open (ON)	0
			Rear door close (OFF)	Battery voltage
19	Y	Sensor ground	—	0

Work Flow

NIS00277

1. Check the symptom and customer's requests.
2. Understand the outline of system. Refer to SE-95, "System Description" .
3. According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to SE-103, "Trouble Diagnoses Symptom Chart" .
4. Does rear power seat operate normally? YES: GO TO 5, NO: GO TO 4.
5. INSPECTION END.

Trouble Diagnoses Symptom Chart

NIS00278

- Check that other systems using the signal of the following systems operate normally.

Symptom	Diagnoses / service procedure	Refer to page
Rear power seat LH, RH do not operate.	Rear power seat power supply circuit inspection	SE-103
Rear power seat LH or RH sliding switch does not operate moreover, retreat function does not operate if the door is opened	1. Rear seat control unit power supply and ground circuit inspection	SE-104
	2. Rear seat sliding motor circuit inspection	SE-105
Rear power seat LH or RH does not operate, but retreat function operates when the door is opened	Rear power seat switch circuit inspection	SE-106
Rear power seat LH and RH retreat function does not operate, but operates by sliding switch	Automatic return cancel switch inspection	SE-109
Rear power seat LH or RH retreat function does not operate, but operates by a sliding switch	1. Rear door switch circuit inspection	SE-110
	2. Automatic return cancel switch circuit inspection	SE-108
	3. Rear seat sliding sensor circuit inspection	SE-111

Rear Power Seat Power Supply Circuit Inspection

NIS00279

1. CHECK FUSIBLE LINK

Check 50A fusible link (letter **F** located in the fuse and fusible link box).

NOTE:
Refer to SE-95, "Component Parts and Harness Connector Location" .

OK or NG

OK >> GO TO 2.
NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse, refer to PG-3, "POWER SUPPLY ROUTING CIRCUIT" .

2. CHECK CIRCUIT BREAKER

Check circuit breaker.

NOTE:
Refer to PG-3, "POWER SUPPLY ROUTING CIRCUIT" .

OK or NG

OK >> Check the condition of the harness and connector.
NG >> Replace the circuit breaker.

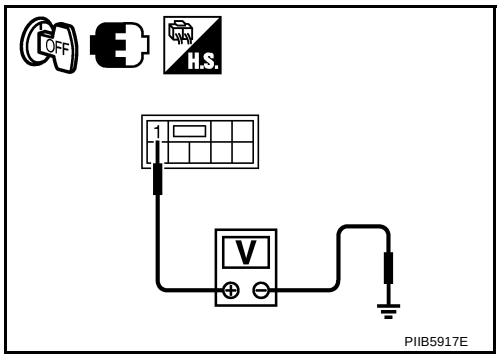
Rear Seat Control Unit Power Supply and Ground Circuit Inspection

NIS0027A

1. CHECK REAR SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

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

Terminal			Voltage (V) (Approx.)
(+)		(–)	
Rear seat control unit connector	Terminal		
B303 (LH) B353 (RH)	1	Ground	Battery voltage



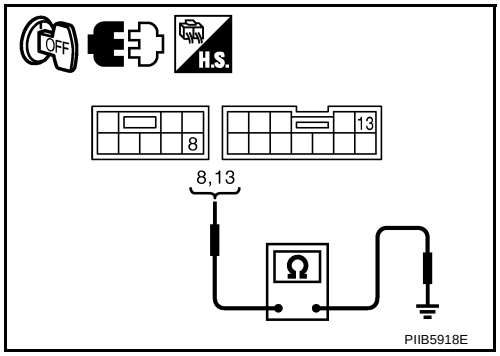
OK or NG

OK >> GO TO 2.
NG >> Repair or replace harness between circuit breaker and rear seat control unit.

2. CHECK REAR POWER SEAT CONTROL UNIT GROUND CIRCUIT

1. Disconnect rear seat control unit connector.
2. Check continuity between rear seat control unit connector and ground.

Terminal			Continuity
Rear seat control unit connector	Terminal		
B303 (LH) B353 (RH)	8	Ground	Yes
B304 (LH) B354 (RH)	13		



OK or NG

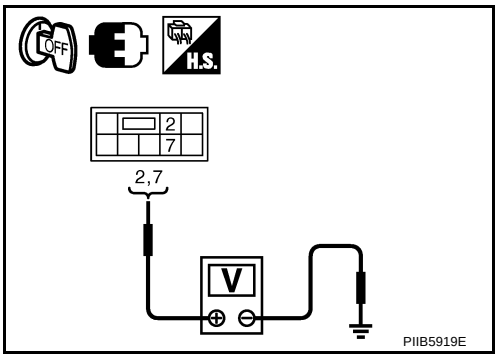
OK >> Rear seat control unit power supply and ground circuit is OK.
NG >> Repair or replace harness between rear seat control unit and ground.

Rear Seat Sliding Motor Circuit Inspection

NIS0027B

1. CHECK REAR SEAT SLIDING MOTOR POWER SUPPLY

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



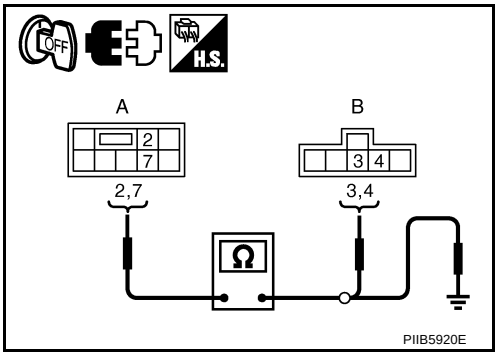
Terminal			Condition		Voltage (V) (Approx.)
(+)		(–)			
Rear seat control unit connector	Terminal				
B303 (LH) B353 (RH)	2	Ground	Rear power seat switch	Forward	Battery voltage
			Other than above.		0
	7		Rear power seat switch	Backward	Battery voltage
			Other than above.		0

OK or NG

OK >> GO TO 2.
NG >> Replace rear seat control unit.

2. CHECK REAR SEAT SLIDING MOTOR HARNESS

1. Disconnect rear seat control unit and rear seat sliding motor connector.
2. Check continuity between rear seat control unit connector and rear seat sliding motor connector.



A		B		Continuity
Rear seat control unit connector	Terminal	Rear seat sliding motor connector	Terminal	
B303 (LH) B353 (RH)	2	B311 (LH) B361 (RH)	3	Yes
	7		4	

3. Check continuity between rear seat control unit connector and ground.

A		Ground	Continuity
Rear seat control unit connector	Terminal		
B303 (LH) B353 (RH)	2		No
	7		

OK or NG

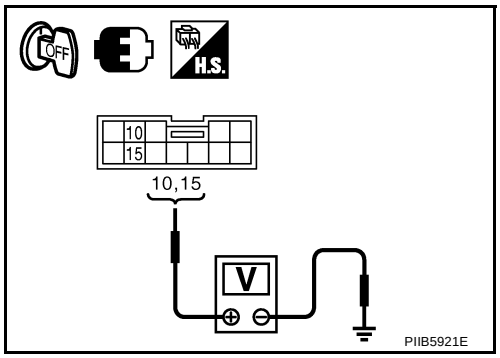
OK >> Replace rear seat sliding motor.
NG >> Repair or replace harness between rear seat control unit and rear seat sliding motor.

Rear Power Seat Switch Circuit Inspection

NIS0027C

1. CHECK REAR POWER SEAT SWITCH POWER SUPPLY

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



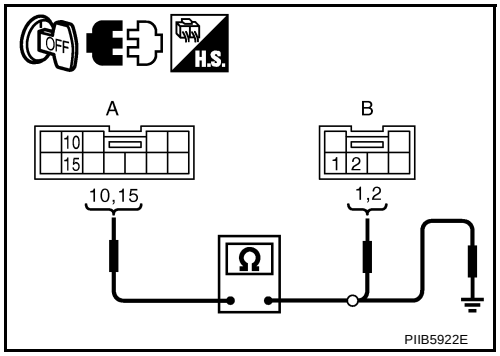
Terminal			Condition		Voltage (V) (Approx.)
(+)		(–)			
Rear seat control unit connector	Terminal				
B304 (LH) B354 (RH)	10	Ground	Rear power seat switch	Forward	0
			Other than above.		Battery voltage
	15		Rear power seat switch	Backward	0
			Other than above.		Battery voltage

OK or NG

OK >> Replace rear seat control unit.
NG >> GO TO 2.

2. CHECK REAR POWER SEAT SWITCH HARNESS

1. Disconnect rear seat control unit connector and rear power seat switch connector.
2. Check continuity between rear seat control unit connector and rear power seat switch connector.



A		B		Continuity
Rear seat control unit connector	Terminal	Rear power seat switch connector	Terminal	
B304 (LH) B354 (RH)	10	B504 (LH) B555 (RH)	2	Yes
	15		1	

3. Check continuity between rear seat control unit connector and ground.

A		Ground	Continuity
Rear seat control unit connector	Terminal		
B304 (LH) B354 (RH)	10		No
	15		

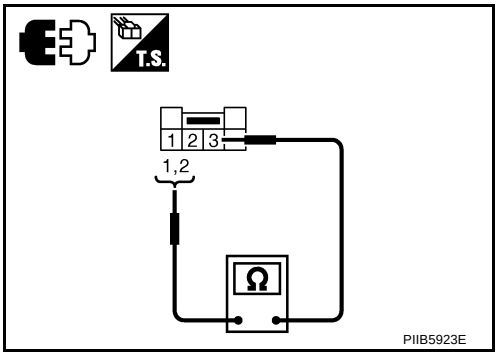
OK or NG

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

3. CHECK REAR POWER SEAT SWITCH

Check continuity between rear power seat switch as follows.

Rear power seat switch connector	Terminal		Condition		Continuity
B504 (LH) B555 (RH)	1	3	Rear power seat switch	Backward	Yes
			Other than above.		No
	2		Rear power seat switch	Forward	Yes
			Other than above.		No



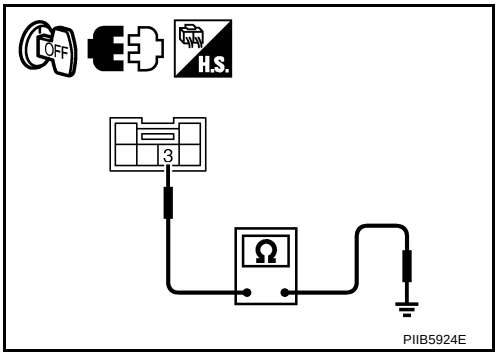
OK or NG

OK >> GO TO 4.
NG >> Replace rear power seat switch.

4. CHECK REAR POWER SEAT SWITCH GROUND CIRCUIT

Check continuity between rear power seat switch connector and ground.

Terminal			Continuity
Rear power seat switch connector	Terminal	Ground	
B504 (LH) B555 (RH)	3		Yes



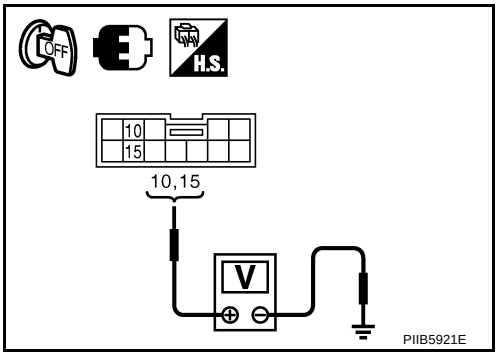
OK or NG

OK >> GO TO 5.
NG >> Repair or replace harness between rear power seat switch and ground.

5. CHECK REAR POWER SEAT SWITCH POWER SUPPLY-2

1. Connect rear seat control unit connector.
2. Check voltage between rear seat control unit connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Rear seat control unit connector	Terminal		
B304 (LH) B354 (RH)	10	Ground	Battery voltage
	15		



OK or NG

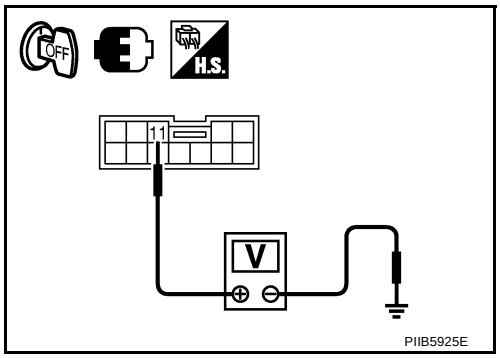
OK >> Check the condition of the harness and connector.
NG >> Replace rear seat control unit.

Automatic Return Cancel Switch Circuit Inspection

NIS0027D

1. CHECK AUTOMATIC RETURN CANCEL SWITCH POWER SUPPLY-1

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



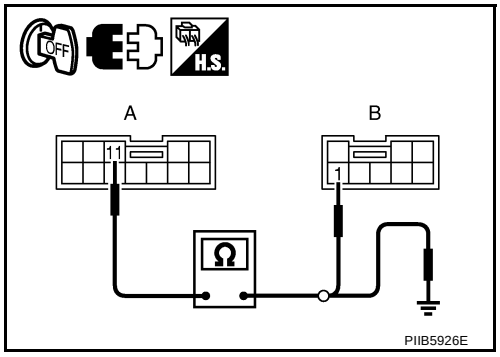
Terminal			Condition	Voltage (V) (Approx.)
(+)		(–)		
Rear seat control unit connector	Terminal			
B304 (LH) B354 (RH)	11	Ground	Automatic return cancel switch ON and, rear door open	5
			Other than above.	0

OK or NG

OK >> Automatic return cancel switch circuit is OK.
NG >> GO TO 2.

2. CHECK AUTOMATIC RETURN CANCEL SWITCH HARNESS

1. Disconnect rear seat control unit connector and automatic return cancel switch connector.
2. Check continuity between rear seat control unit connector and automatic return cancel switch connector.



A		B		Continuity
Rear seat control unit connector	Terminal	Automatic return cancel switch connector	Terminal	
B304 (LH) B354 (RH)	11	B508	1	Yes

3. Check continuity between rear seat control unit connector and ground.

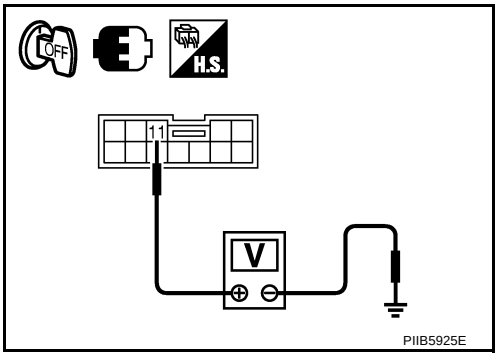
A		Ground	Continuity
Rear seat control unit connector	Terminal		
B304 (LH) B354 (RH)	11		No

OK or NG

OK >> GO TO 3.
NG >> Repair or replace harness between rear seat control unit and automatic return cancel switch.

3. CHECK AUTOMATIC RETURN CANCEL SWITCH POWER SUPPLY-2

1. Connect rear seat control unit connector.
2. Check voltage between rear seat control unit connector and ground.



Terminals			Voltage (V) (Approx.)
(+)		(–)	
Rear seat control unit connector	Terminal		
B304 (LH) B354 (RH)	11	Ground	5

OK or NG

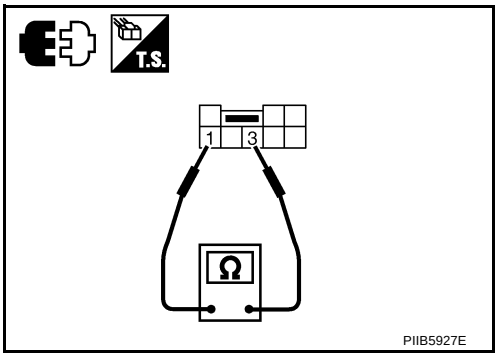
OK >> Check the condition of the harness and connector.
NG >> Replace rear seat control unit.

Automatic Return Cancel Switch Inspection

NIS0027E

1. CHECK AUTOMATIC RETURN CANCEL SWITCH

1. Turn ignition switch OFF.
2. Disconnect automatic return cancel switch connector.
3. Check continuity between automatic return cancel switch as follows.



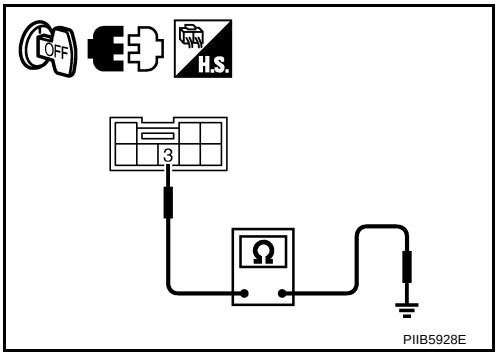
Automatic return cancel switch connector	Terminal		Condition		Continuity
B508	1	3	Automatic return cancel switch	CANCEL	Yes
				ON	No

OK or NG

OK >> GO TO 2.
NG >> Replace automatic return cancel switch.

2. CHECK AUTOMATIC RETURN CANCEL SWITCH GROUND HARNESS

Check continuity between automatic return cancel switch connector and ground.



Terminal			Continuity
Automatic return cancel switch connector	Terminal	Ground	
B508	3		Yes

OK or NG

OK >> Check the harness and connector.
NG >> Repair or replace harness between automatic return cancel switch and ground.

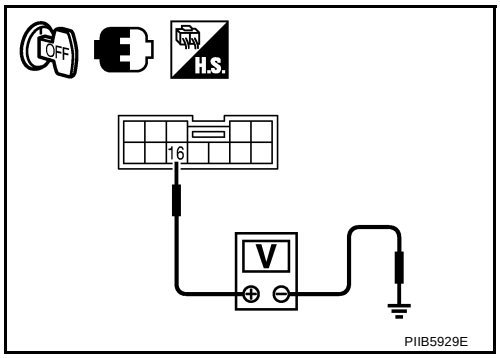
Rear Door Switch Circuit Inspection

NIS0027F

1. CHECK REAR DOOR SWITCH POWER SUPPLY-1

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

Terminal			Condition	Voltage (V) (Approx.)
(+)		(–)		
Rear seat control unit connector	Terminal			
B304 (LH) B354 (RH)	16	Ground	Rear door open.	0
			Rear door closed.	Battery voltage



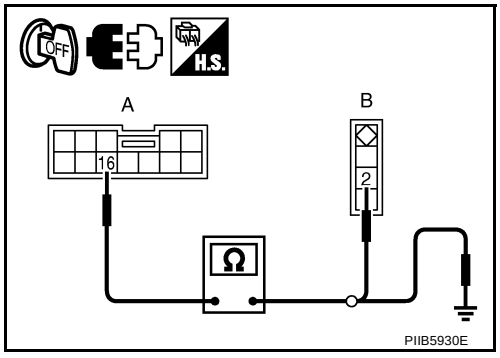
OK or NG

OK >> Rear door switch circuit is OK.
NG >> GO TO 2.

2. CHECK REAR DOOR SWITCH HARNESS

1. Disconnect rear seat control unit connector and rear door switch connector.
2. Check continuity between rear seat control unit connector and rear door switch connector.

A		B		Continuity
Rear seat control unit connector	Terminal	Rear door switch connector	Terminal	
B304 (LH) B354 (RH)	16	B53 (LH) B403 (RH)	2	Yes



3. Check continuity between rear seat control unit connector and ground.

A		Ground	Continuity
Rear seat control unit connector	Terminal		
B304 (LH) B354 (RH)	16		No

OK or NG

OK >> GO TO 3.
NG >> Repair or replace harness between rear seat control unit and rear door switch.

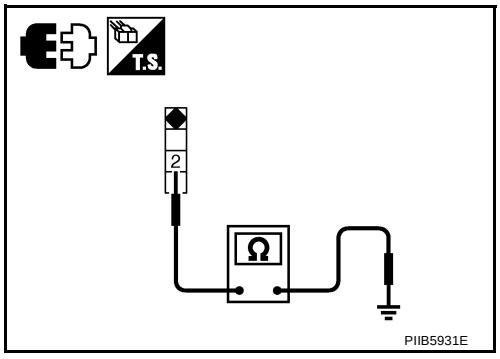
3. CHECK REAR DOOR SWITCH

Check continuity between rear door switch and ground.

Rear door switch connector	Terminal		Condition	Continuity
B53 (LH) B403 (RH)	2	Ground	Rear door open.	Yes
			Rear door closed.	No

OK or NG

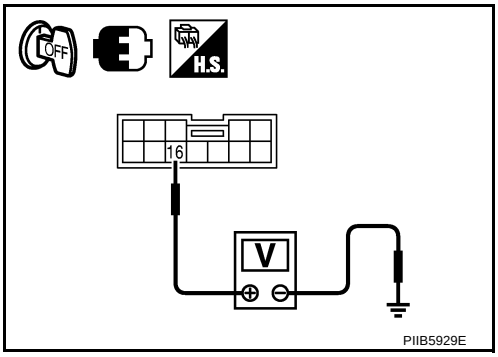
OK >> GO TO 4.
NG >> Replace rear door switch.



4. CHECK REAR DOOR SWITCH POWER SUPPLY-2

1. Connect rear seat control unit connector.
2. Check voltage between rear seat control unit connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Rear seat control unit connector	Terminal		
B304 (LH) B354 (RH)	16	Ground	Battery voltage



PIIB5929E

OK or NG

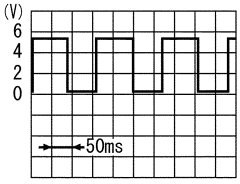
OK >> Check the condition of the harness and connector.
NG >> Replace rear seat control unit.

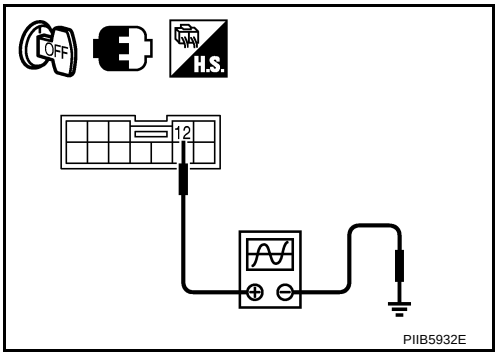
Rear Seat Sliding Sensor Circuit Inspection

NIS0027G

1. CHECK REAR SEAT SLIDING SENSOR POWER SUPPLY

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

Terminal			Condition	Signal (Reference valve)
(+)		(–)		
Rear seat control unit connector	Terminal			
B304 (LH) B354 (RH)	12	Ground	Sliding device active	 SIIA0690J



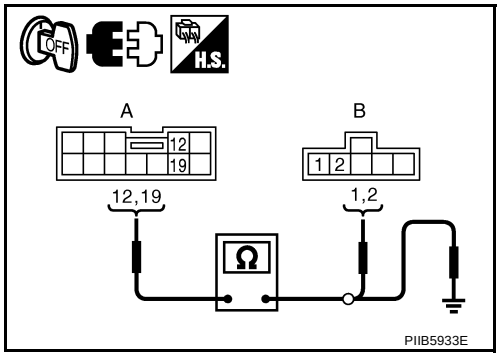
PIIB5932E

OK or NG

OK >> Check the condition of the harness and connector.
NG >> GO TO 2.

2. CHECK REAR SEAT SLIDING SENSOR HARNESS

1. Disconnect rear seat control unit connector and rear seat sliding motor connector.
2. Check continuity between rear seat control unit connector and rear seat sliding motor connector.



A		B		Continuity
Rear seat control unit connector	Terminal	Rear seat sliding motor connector	Terminal	
B304 (LH) B354 (RH)	12	B311 (LH) B361 (RH)	1	Yes
	19		2	

3. Check continuity between rear seat control unit connector and ground.

A		Ground	Continuity
Rear seat control unit connector	Terminal		
B304 (LH) B354 (RH)	12		No
	19		

OK or NG

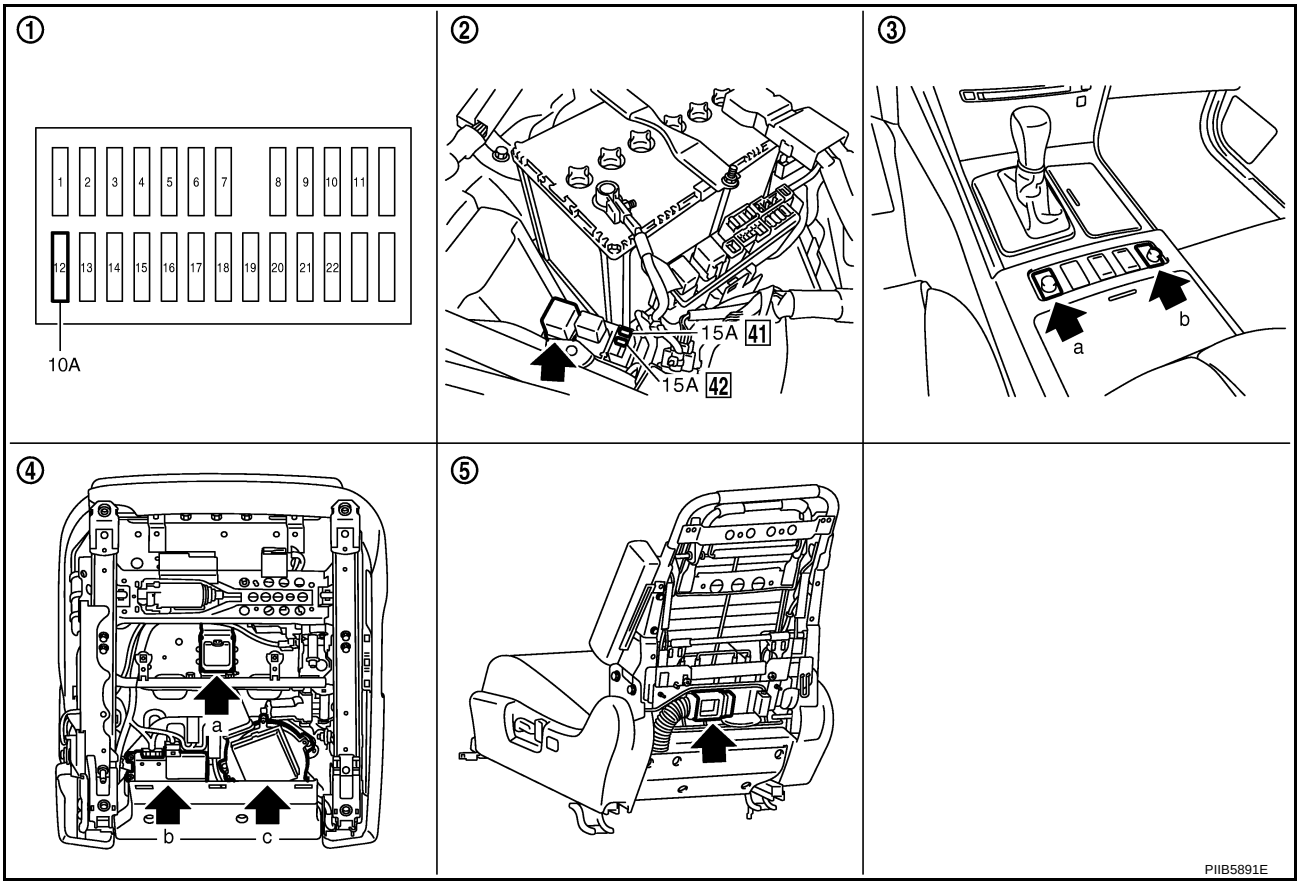
OK >> Replace rear seat sliding motor.
NG >> Repair or replace harness between rear seat control unit and rear seat sliding motor.

CLIMATE CONTROLLED SEAT

PFP:870U6

Component Parts and Harness Connector Location

NIS0027H



1. Fuse block (J/B)
2. Climate controlled seat relay E16
3. a: Climate controlled seat switch driver side B20
   b: Climate controlled seat switch passenger side B19
4. a: Seat cushion thermal electric device B285 (driver side) B295 (passenger side)
   b: Climate controlled seat control unit B283, B284 (driver side) B293, B294 (passenger side)
   c: Climate controlled seat blower motor B282 (driver side) B292 (passenger side)
5. Seatback thermal electric device B220 (driver side) B258 (passenger side)

System Description

NIS0027I

The climate controlled seat system is controlled by climate controlled seat control unit.
Heating and cooling are possible for a thermal electric device (heat conversion machine).

NOTE:

- The climate controlled seat system is downed when the temperature sensor set as the seat cushion and the seat back's thermal electric device machine detects 20 °C (68 °F)or more of mutual differences of temperature.
- In this case, by turning off ignition switch, system down is canceled and it can be reused by turning on ignition switch again.
- The climate controlled seat blower keep low speed for approximately 60 seconds after turning the climate controlled seat switch.

CAUTION:

- **The thermal electric device has the character in which, as for an opposite side. one side becomes high temperature at the time of low temperature.**

- **At the time of work, please turn OFF a switch, and carry it out after checking that the thermal electric device has got cold.**

Power is at all times supplied

- through 15A fuse [No. 41 located in the fuse fusible link and relay unit]
- to climate controlled seat relay terminals 5.
- through 15A fuse [No. 42 located in the fuse fusible link and relay unit]
- to climate controlled seat relay terminals 7.

When the ignition switch turned to ON or START position,
Power is supplied

- through 10A fuse [No. 12, located in the fuse block (J/B)]
- to climate controlled seat relay terminal 2.

Then ground is supplied

- to climate controlled seat relay terminal 1,
- through body grounds E22 and E43.

Then climate controlled seat relay is energized.
When climate controlled seat relay is turned to ON,
Power is supplied,

- through climate controlled seat relay terminal 3,
- to climate controlled seat control unit (passenger side) terminal 2 and 4.
- through climate controlled seat relay terminal 6,
- to climate controlled seat control unit (driver side) terminal 2 and 4.

When climate controlled switch select HEAT, ground is supplied

- through climate controlled seat switch terminal 1 and 3,
- to climate controlled seat control unit terminal 10.

Then, the climate controlled seat control unit receives climate controlled seat switch HEAT signal.
When climate controlled seat switch select COOL, ground is supplied

- through climate controlled seat switch terminal 1 and 2,
- to climate controlled seat control unit terminal 20,

Then, the climate controlled seat control unit receives climate controlled switch COOL signal.
When blower motor rotates, signal is transmitted

- to climate controlled seat control unit terminal 18,
- through climate controlled seat blower motor terminal 1.

This is climate controlled seat blower motor tachometer signal.
When climate controlled seat control unit receives climate controlled seat switch signal and tachometer signal,
Power is supplied

- to climate controlled seat blower motor terminal 4,
- through climate controlled seat control unit terminal 17.

This is blower motor revolution control signal.
When blower motor receivers blower motor revolution control signal,
Power is supplied

- through climate controlled seat control unit terminal 14,
- to climate controlled seat blower motor terminal 2.

When number of rotations correspond signal,
Ground is supplied

- to climate controlled seat blower motor terminal 3,
- through climate controlled seat control unit terminal 7,
- through climate controlled seat control unit terminal 3,
- through body grounds B5, B40 and B131.

Then motor revolution is controlled.
When the ignition switch turned to ON or START position,
Power is supplied

- to seat cushion thermal electric device terminal 1,
- through climate controlled seat control unit terminal 22.

Then ground is supplied

- to climate controlled seat control unit terminal 21,
- through seat cushion thermal electric device terminal 2,

Then the climate controlled seat control unit recognizes seat cushion thermal electric device sensor signal.
When climate controlled seat control unit recognizes climate controlled seat switch HEAT signal and, seat cushion thermal electric device sensor signal,
Power is supplied

- to seat cushion thermal electric device terminal 4,
- through climate controlled seat control unit terminal 5.

Then ground is supplied

- through seat cushion thermal electric device terminal 6,
- to climate controlled seat control unit terminal 6,
- through climate controlled seat control unit terminal 3,
- through body grounds B5, B40 and B131.

When climate controlled seat control unit recognizes climate controlled seat switch COOL signal and seat cushion thermal electric device sensor signal,
Power is supplied

- to seat cushion thermal electric device terminal 6,
- through climate controlled seat control unit terminal 6.

Then ground is supplied

- through seat cushion thermal electric device terminal 4,
- to climate controlled seat control unit terminal 5.
- through climate controlled seat control unit terminal 3,
- through body grounds B5, B40 and B131.

When the ignition switch turned to ON or START position,
Power is supplied

- to seatback thermal electric device terminal 1,
- through climate controlled seat control unit terminal 23.

Then ground is supplied

- to climate controlled seat control unit terminal 24,
- through seatback thermal electric device terminal 2,
- through climate controlled seat control unit terminal 3,
- through body grounds B5, B40 and B131.

Then the climate controlled seat control unit recognizes seatback thermal electric device sensor signal.
When climate controlled seat control unit recognizes climate controlled seat switch HEAT signal and seatback thermal electric device sensor signal,
Power is supplied

- to seatback thermal electric device terminal 4,
- through climate controlled seat control unit terminal 15,

ground is supplied

- to climate controlled seat control unit terminal 16,
- through seatback thermal electric device terminal 6,
- through climate controlled seat control unit terminal 3,
- through body grounds B5, B40 and B131.

This seatback thermal electric device generates heat wind is warmed.
When climate controlled seat control unit recognizes climate controlled seat switch COOL signal and seatback thermal electric device sensor signal,
Power is supplied

- to seatback thermal electric device terminal 6,

- through climate controlled seat control unit terminal 16,

ground is supplied

- to climate controlled seat control unit terminal 15,
- through seatback thermal electric device terminal 4,
- through climate controlled seat control unit terminal 3,
- through body grounds B5, B40 and B131.

When climate controlled switch selects HEAT,
Power is supplied

- to climate controlled seat switch terminal 5,
- through climate controlled seat control unit terminal 8.

Ground is supplied

- to the climate controlled seat switch terminal 6,
- through body grounds B5, B40 and B131.

Then climate controlled seat switch HEAT indicator is energized.
When climate controlled switch select COOL,
Power is supplied

- to climate controlled seat switch terminal 4,
- through climate controlled seat control unit terminal 9.

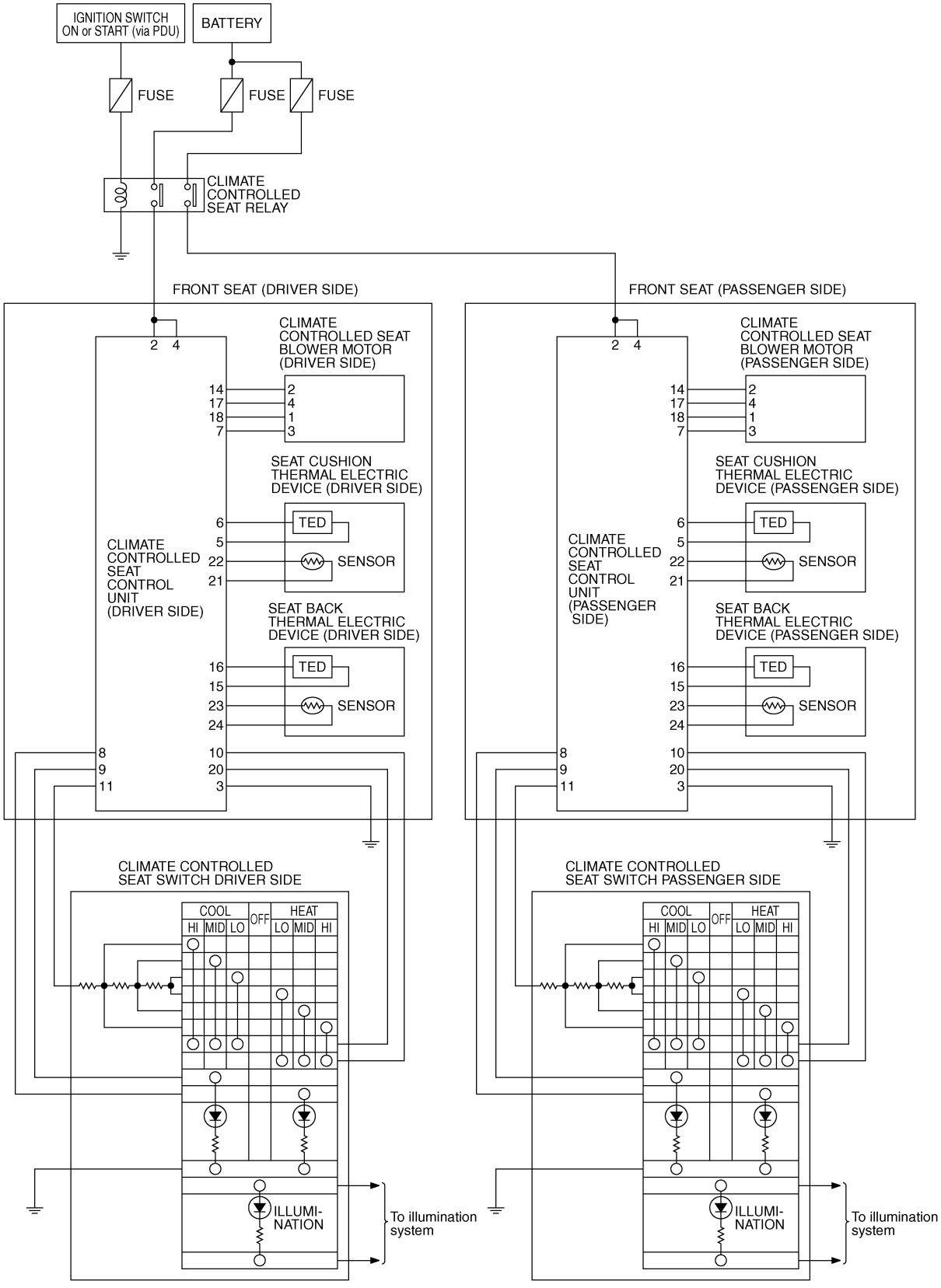
Ground is supplied

- to the climate controlled seat switch terminal 6,
- through body grounds B5, B40 and B131.

Then climate controlled seat switch COOL indicator is energized.

Schematic

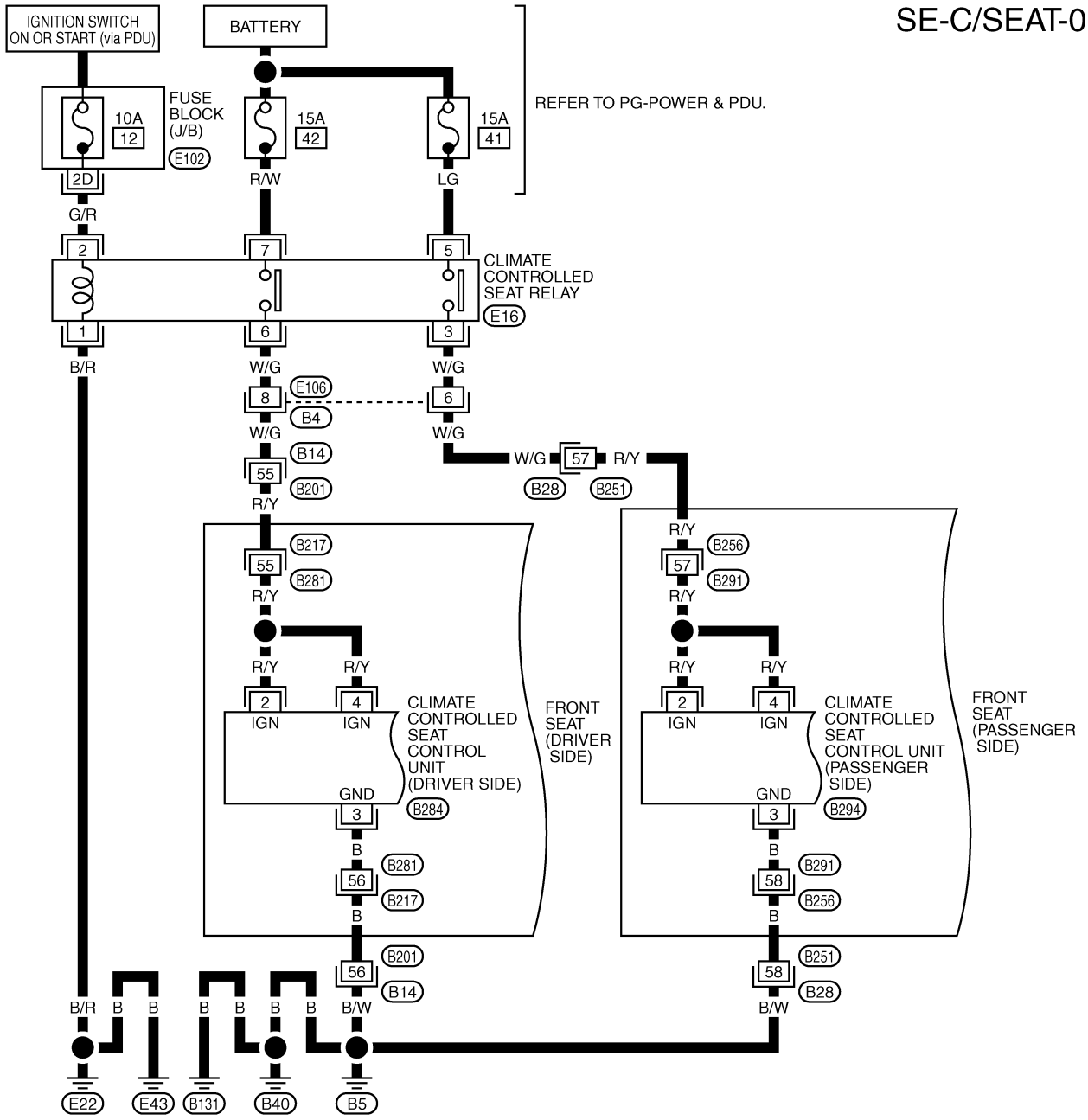
NIS0027J

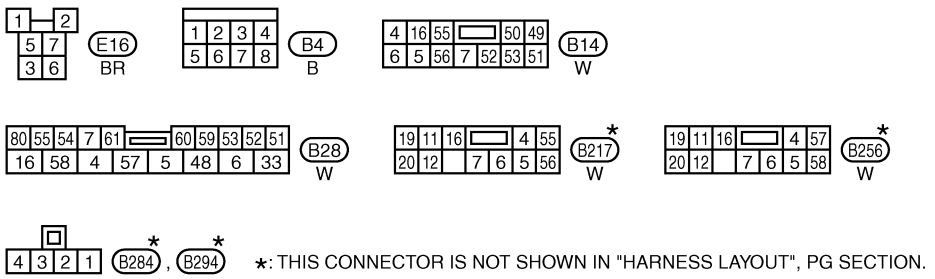


Wiring Diagram—C/SEAT—

NIS0027K

SE-C/SEAT-01



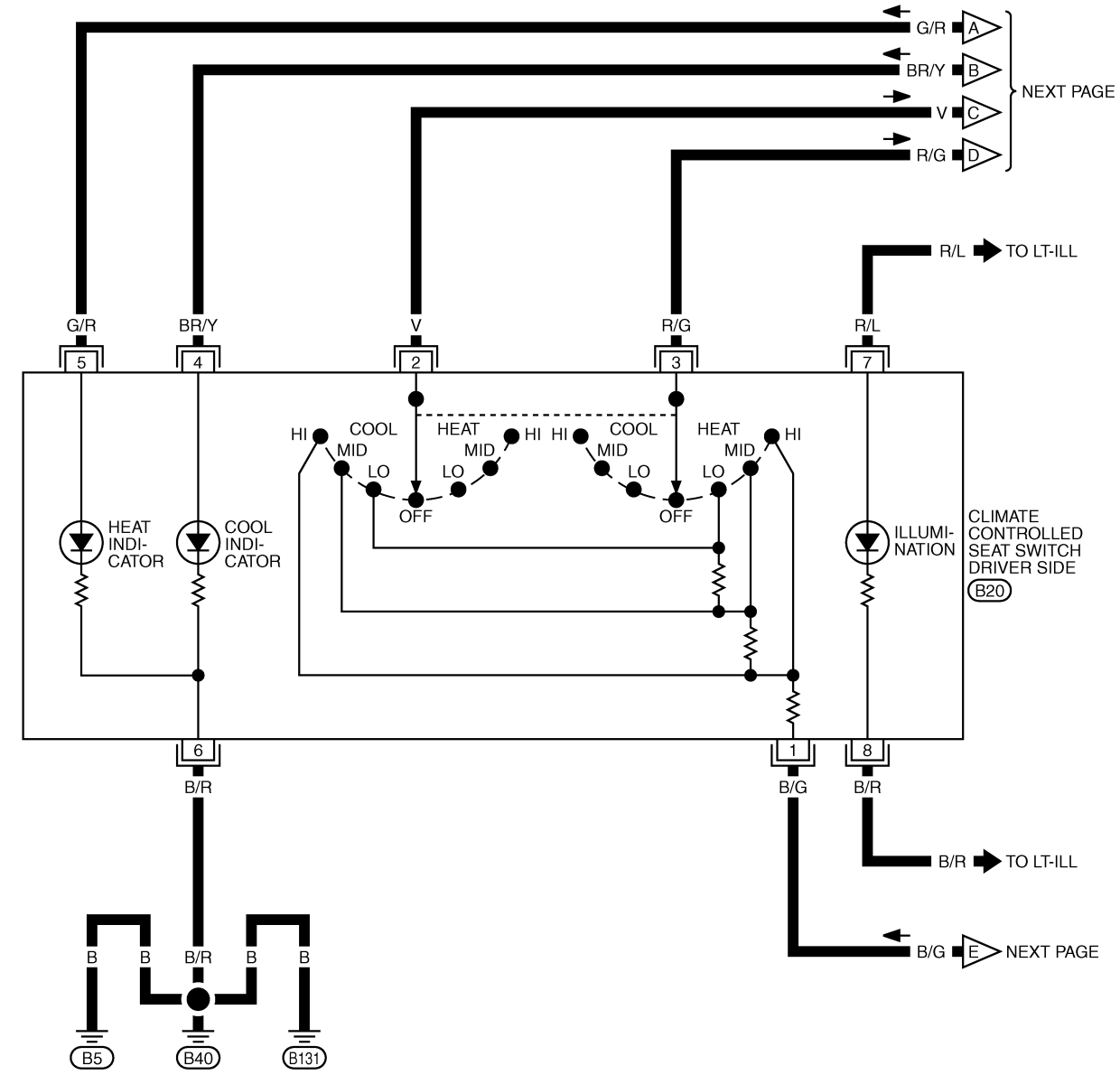


REFER TO THE FOLLOWING.

E102 -FUSE BLOCK-JUNCTION BOX (J/B)

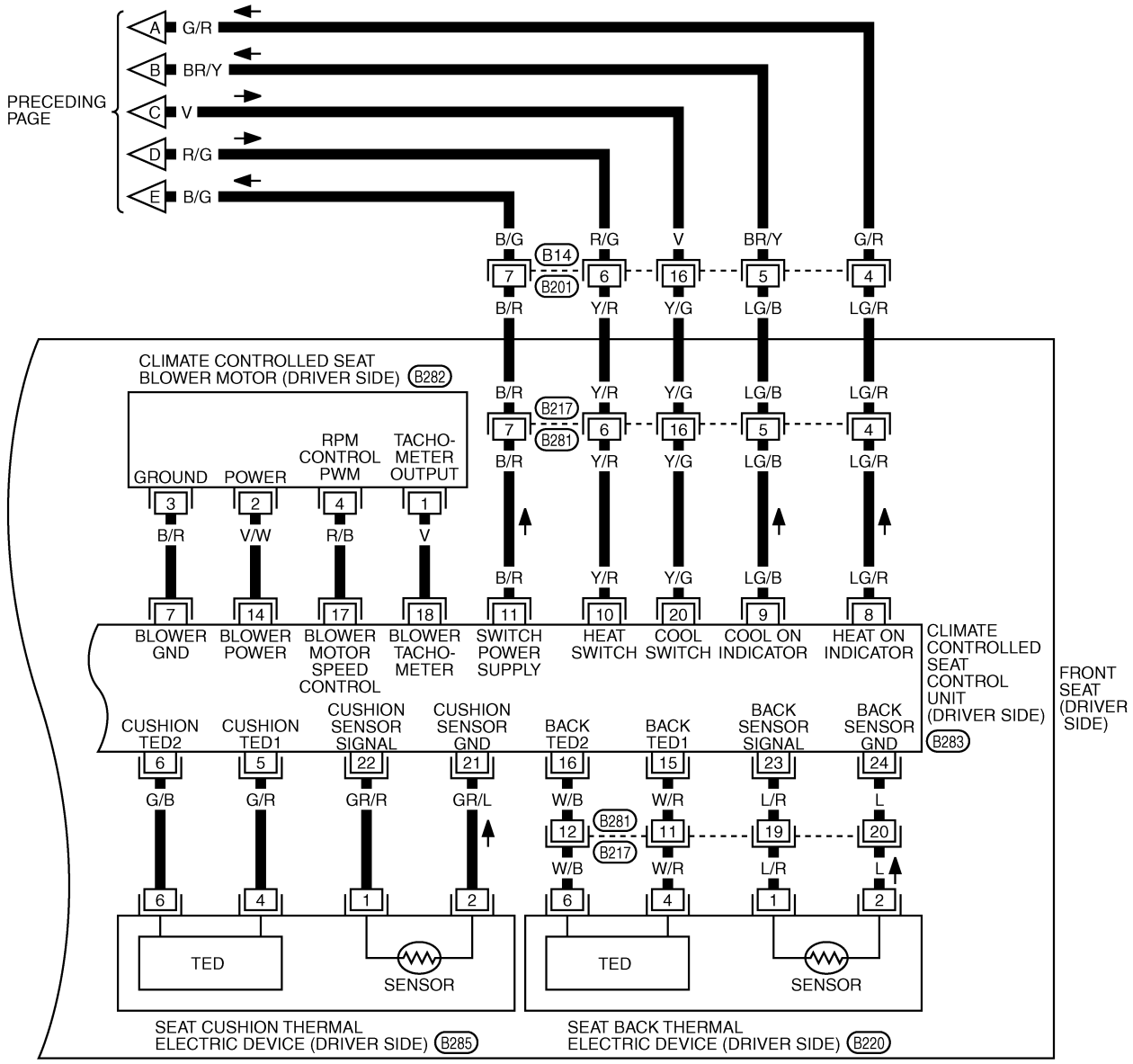
TIWT1392E

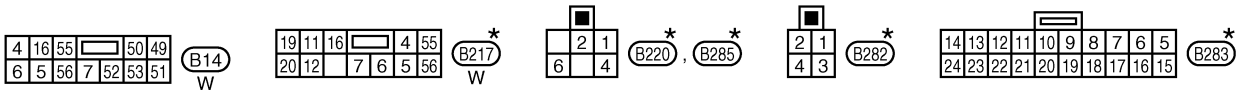
SE-C/SEAT-02



TIWT1393E

SE-C/SEAT-03

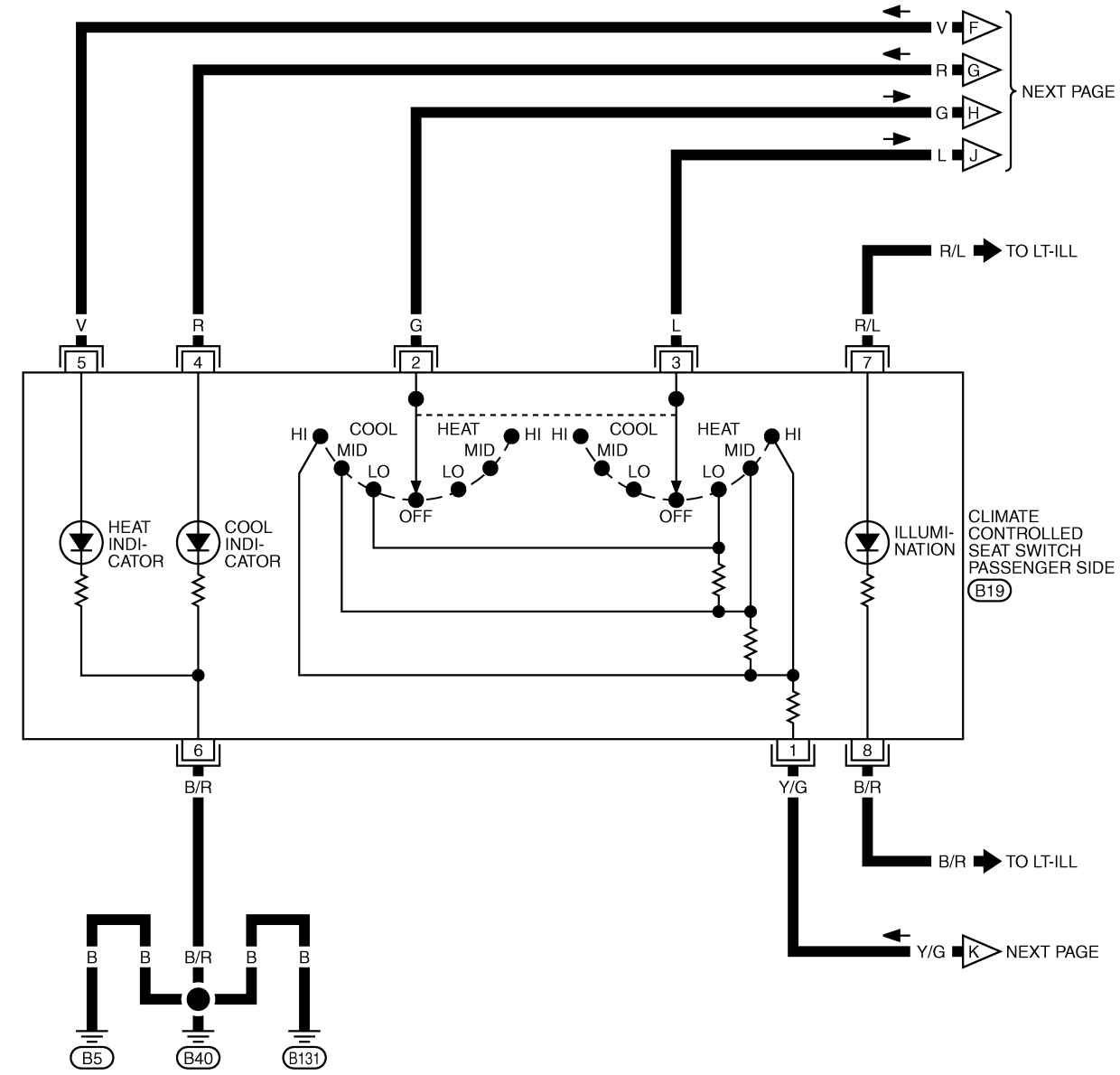


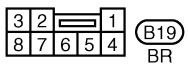


*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWT1394E

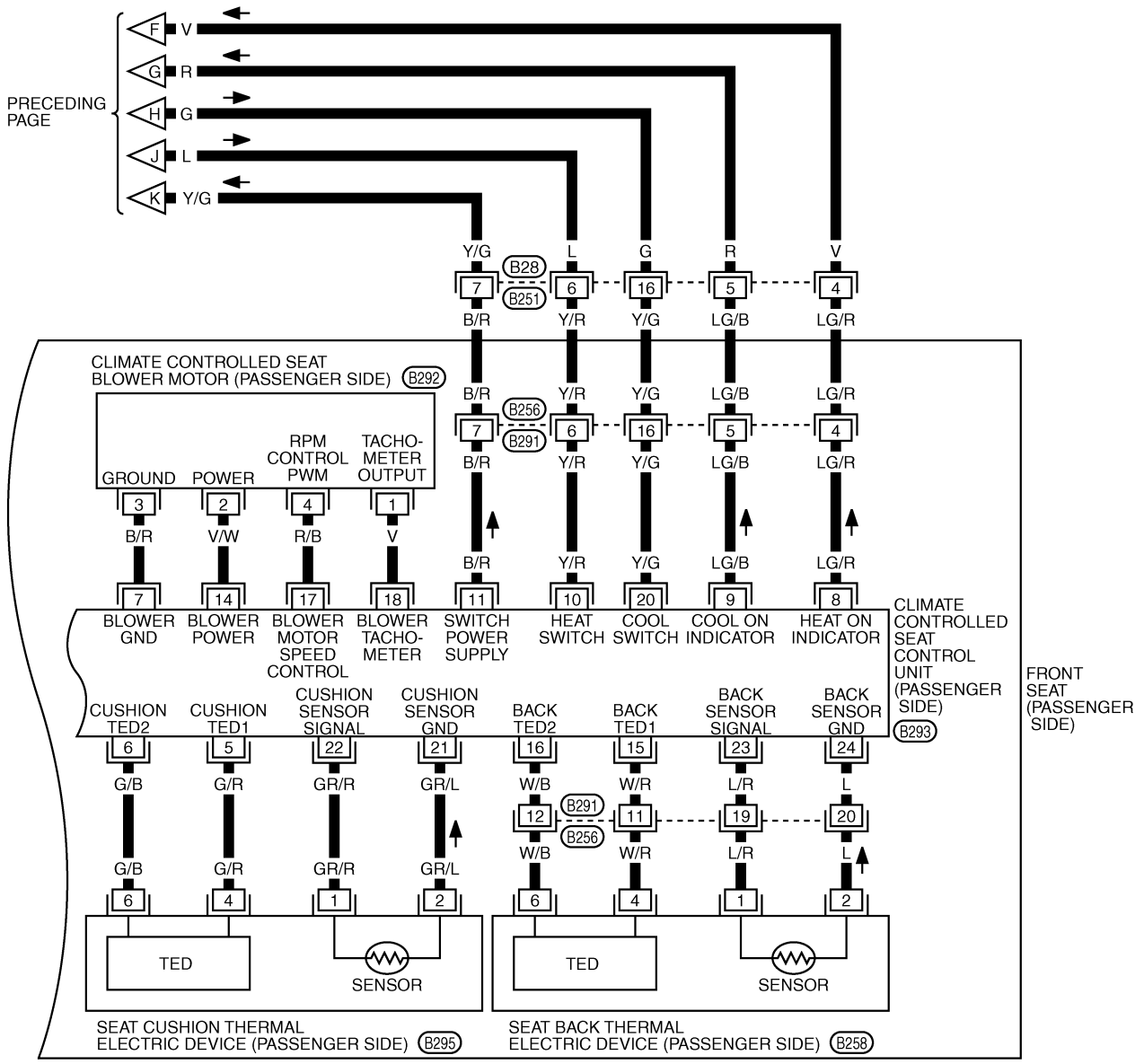
SE-C/SEAT-04

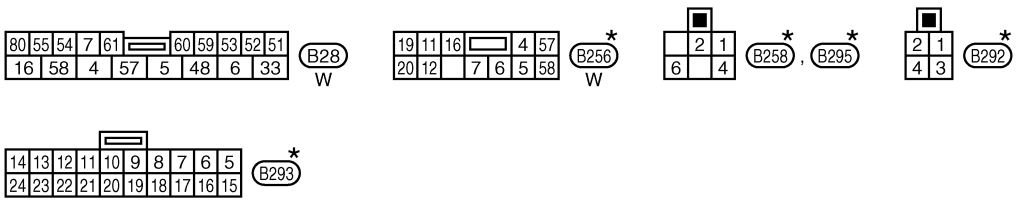




TIWT1395E

SE-C/SEAT-05





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

TIWT1396E

Terminal and Reference Value for Climate Controlled Seat Control Unit

NIS0027L

Terminal	Wire Color	Item	Condition		Voltage (V) (Approx)
2	R/Y	Ignition switch power supply	Ignition switch ON or START		Battery voltage
3	B	Ground	—		0
4	R/Y	Ignition switch power supply	Ignition switch ON or START		Battery voltage
5	G/R	Seat cushion thermal electric device power supply (HEAT)	Ignition switch ON or START	Climate controlled seat switch select HEAT	0 – Battery voltage
				Climate controlled seat switch select OFF	0
6	G/B	Seat cushion thermal electric device power supply (COOL)	Ignition switch ON or START	Climate controlled seat switch select COOL	0 – Battery voltage
				Climate controlled seat switch select OFF	0
7	B/R	Blower motor ground	—		0
8	LG/R	HEAT switch indicator signal	Ignition switch ON or START	Climate controlled seat switch select HEAT	Battery voltage
				Climate controlled seat switch select OFF	0
9	LG/B	COOL switch indicator signal	Ignition switch ON or START	Climate controlled seat switch select COOL	Battery voltage
				Climate controlled seat switch select OFF	0
10	Y/R	HEAT switch signal	Ignition switch ON or START	Climate controlled seat switch select HEAT	0
				Climate controlled seat switch select OFF	Battery voltage
11	B/R	Climate controlled seat switch power supply	Ignition switch ON or START		Battery voltage
14	V/W	Blower motor power supply	Ignition switch ON or START	Climate controlled seat switch select HEAT or COOL	5.5 – Battery voltage
				Climate controlled seat switch select OFF	0
15	W/R	Seatback thermal electric device power supply (HEAT)	Ignition switch ON or START	Climate controlled seat switch select HEAT	0 – Battery voltage
				Climate controlled seat switch select OFF	0
16	W/B	Seatback thermal electric device power supply (COOL)	Ignition switch ON or START	Climate controlled seat switch select COOL	0 – Battery voltage
				Climate controlled seat switch select OFF	0
17	R/B	Blower motor speed control signal	Ignition switch ON or START	Climate controlled seat switch select HEAT or COOL	4.5 – 8.0
				Climate controlled seat switch select OFF	0
18	V	Blower motor tachometer signal	Ignition switch ON or START	Climate controlled seat switch select HEAT or COOL	4.5 – 8.0
				Climate controlled seat switch select OFF	Battery voltage
20	Y/G	COOL switch signal	Ignition switch ON or START	Climate controlled seat switch select COOL	0
				Climate controlled seat switch select OFF	Battery voltage

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx)
21	GR/L	Seat cushion thermal electric device sensor ground	Ignition switch ON	0
22	GR/R	Seat cushion thermal electric device sensor signal	Blower motor operated	0.5 – 4
			Ignition switch OFF	0
23	L/R	Seatback thermal electric device sensor signal	Blower motor operated	0.5 – 4
			Ignition switch OFF	0
24	L	Seatback thermal electric device sensor ground	Ignition switch ON	0

Work Flow

NIS0027M

1. Check the symptom and customer's requests.
2. Understand the outline of system. Refer to SE-113, "System Description" .
3. Perform the preliminary check. Refer toSE-124, "Preliminary Check" .
4. According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to SE-125, "Trouble Diagnoses Symptom Chart" .
5. Does climate controlled seat operate normally? YES: GO TO 6, NO: GO TO 4.
6. INSPECTION END.

Preliminary Check

NIS0027N

1. CHECK DUCT AND FILTER

Check the following.

- Is that there no foreign body in the blower motor filter.
- Is that there no foreign body in the duct.

OK or NG

OK >> Preliminary check is OK.
NG >> The foreign body is removed.

Trouble Diagnoses Symptom Chart

NIS0027O

NOTE:
Make sure other systems using the signal of the following systems operate normally.

Symptom	Diagnoses / service procedure	Refer to page
Climate controlled seat do not operate (Neither the driver's side nor passenger's side operate).	1. Climate controlled seat control unit power supply circuit check.	SE-126
All the driver side or passenger side climate controlled seat do not operate.	1. Climate controlled seat control unit power supply and ground circuit inspection.	SE-127
	2. Climate controlled seat switch power supply circuit inspection	SE-130
	3. Climate controlled seat blower motor circuit inspection.	SE-140
	4. Replace climate controlled seat control unit.	SE-113
Climate controlled seat blower motor speed cannot adjust.	1. Climate controlled seat switch power supply circuit inspection	SE-130
	2. Climate controlled seat switch circuit inspection	SE-131
	3. Climate controlled seat control unit inspection.	SE-142
	4. Replace climate controlled seat blower motor.	SE-113
The climate controlled seat dose not operates when the switch is done in HEAT or COOL.	Climate controlled seat switch circuit inspection.	SE-131
When the climate controlled seat switch is turned on, operation stops at nose (When the climate controlled seat switch is in HEAT or COOL mode after ignition switch is turned ON again, the motor operates).	1. Seat cushion thermal electric device sensor circuit inspection.	SE-137
	2. Seat cushion thermal electric device circuit inspection	SE-135
	3. Seatback thermal electric device sensor circuit inspection.	SE-139
	4. Seatback thermal electric device circuit inspection	SE-136
	5. Climate controlled seat blower motor circuit inspection.	SE-140
	6. Replace Climate controlled seat control unit	SE-113
The climate controlled seat switch indicator do not operated with HEAT or COOL position	Climate controlled seat switch indicator circuit inspection	SE-133

NOTE:

- The climate controlled seat blower keep low speed for approximately 60 seconds turning the switch.
- The climate controlled seat system is downed when the temperature sensor set as the seat cushion and the seatback's thermal electric device machine detects 20 °C (68°F) or more of mutual differences of temperature.

Climate Controlled Seat Control Unit Power Supply Circuit Check

NIS0027P

1. CHECK FUSE

Check 10A fuse [No. 12, located in fuse block (J/B)]

NOTE:
Refer to SE-113, "Component Parts and Harness Connector Location" .

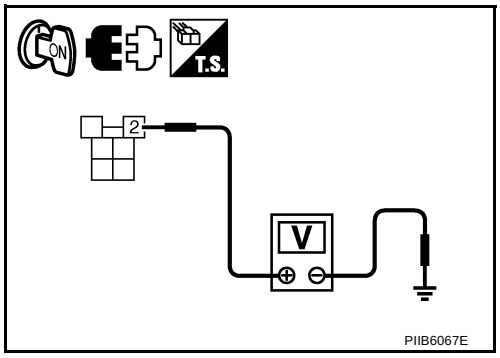
OK or NG

OK >> GO TO 2.
NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse, refer to PG-3, "POWER SUPPLY ROUTING CIRCUIT" .

2. CHECK CLIMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT

1. Disconnect climate controlled seat relay connector.
2. Turn ignition switch ON.
3. Check voltage between climate controlled seat relay harness connector and ground.

Terminal			Voltage (V) (Approx.)
(+)		(–)	
Climate controlled seat relay connector	Terminal		
E16	2	Ground	Battery voltage



PIIB6067E

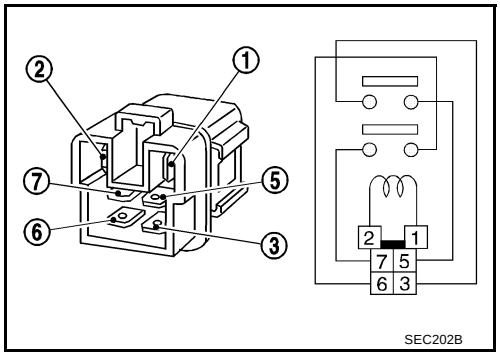
OK or NG

OK >> GO TO 3.
NG >> Repair or replace harness between fuse block (J/B) and climate controlled seat relay.

3. CHECK CLIMATE CONTROLLED SEAT RELAY

Check continuity climate controlled seat relay.

Climate controlled seat relay connector	Terminal		Condition	Continuity
E16	3	5	12V direct current supply between terminals 1and 2	Yes
			No current supply	No
	6	7	12V direct current supply between terminals 1and 2	Yes
			No current supply	No



SEC202B

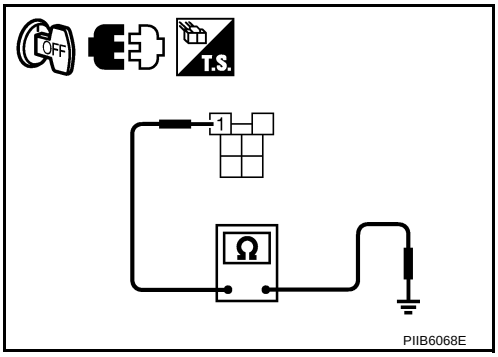
OK or NG

OK >> GO TO 4.
NG >> Replace climate controlled seat relay.

4. CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between climate controlled seat relay connector and ground.

Terminal			Continuity
Climate controlled seat relay connector	Terminal	Ground	
E16	1		Yes



OK or NG

OK >> Check the condition of the harness and connector.
NG >> Repair or replace harness between climate controlled seat relay and ground.

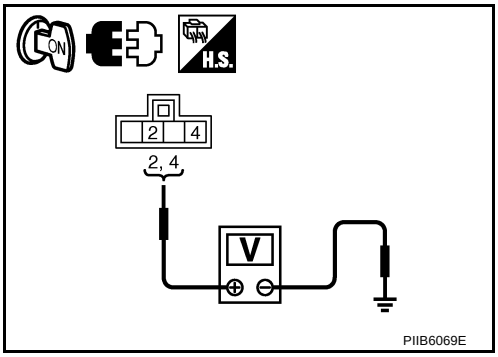
Climate Controlled Seat Control Unit Power Supply and Ground Circuit Inspection

NIS0027Q

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect climate controlled seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between climate controlled seat control unit connector and ground.

Terminal			Voltage (V) (Approx.)
(+)		(–)	
Climate controlled seat control unit connector	Terminal		
B284 (driver side) B294 (passenger side)	2	Ground	Battery voltage
	4		



OK or NG

OK >> GO TO 6.
NG >> GO TO 2.

2. CHECK FUSE

- Check 15A fuse [No. 42, located in fuse, fusible link and relay unit] (Driver side)
- Check 15A fuse [No. 41, located in fuse, fusible link and relay unit] (Passenger side)

NOTE:
Refer to SE-113, "Component Parts and Harness Connector Location" .

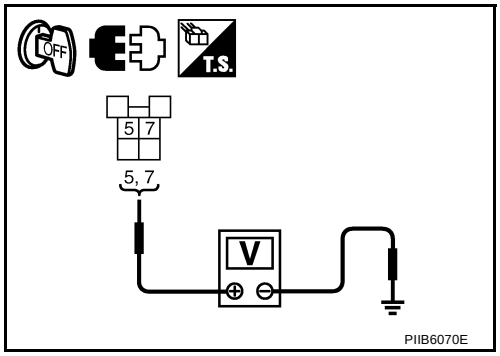
OK or NG

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

3. CHECK CLIMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat relay.
3. Check voltage between climate controlled seat relay connector and ground.

Terminal			Voltage (V) (Approx.)
(+)		(–)	
Climate controlled seat relay connector	Terminal		
E16	5	Ground	Battery voltage
	7		



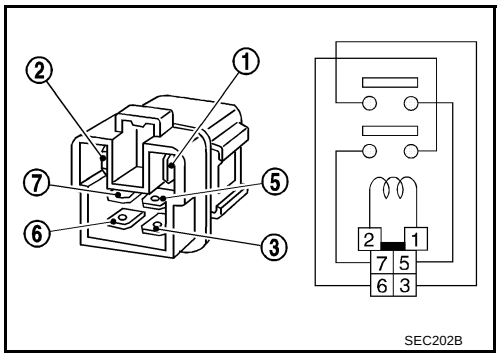
OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness between climate controlled seat relay and ground.

4. CHECK CLIMATE CONTROLLED SEAT RELAY

Check continuity climate controlled seat relay.

Climate controlled seat relay connector	Terminal		Condition	Continuity
E16	3	5	12V direct current supply between terminals 1and 2	Yes
			No current supply	No
	6	7	12V direct current supply between terminals 1and 2	Yes
			No current supply	No

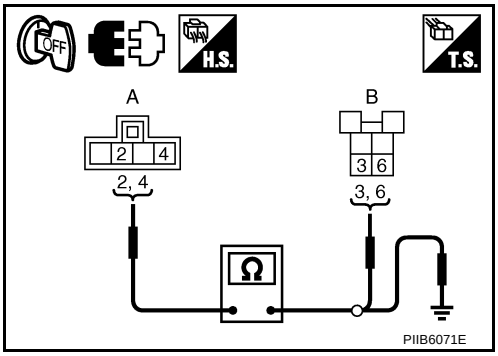


OK or NG

OK >> GO TO 5.
NG >> Replace climate controlled seat relay.

5. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT HARNESS CIRCUIT

1. Check continuity between climate controlled seat control unit connector and climate controlled seat relay connector.



A		B		Continuity
Climate controlled seat control unit connector	Terminal	Climate controlled seat relay connector	Terminal	
B284 (driver side)	2	E16	6	Yes
	4			
B294 (passenger side)	2		3	
	4			

2. Check continuity between climate controlled seat control unit connector and ground.

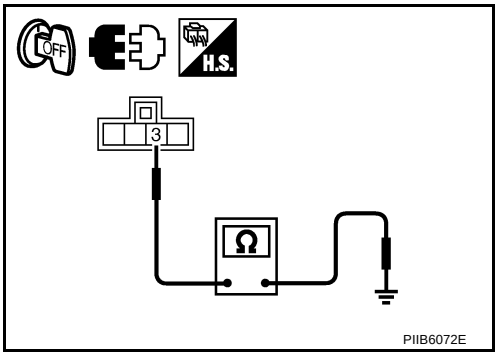
A		Ground	Continuity
Climate controlled seat control unit connector	Terminal		
B284 (driver side) B294 (passenger side)	2		No
	4		

OK or NG

OK >> Check the condition of the harness and connector.
NG >> Repair or replace harness between climate controlled seat control unit and climate controlled seat relay.

6. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT GROUND CIRCUIT

Check continuity between climate controlled seat control unit connector and ground.



Terminal			Continuity
Climate controlled seat control unit connector	Terminal	Ground	
B284 (driver side) B294 (passenger side)	3		Yes

OK or NG

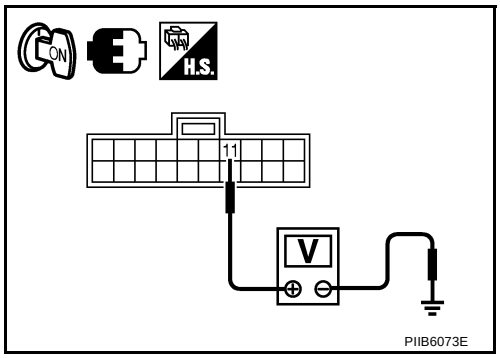
OK >> Climate controlled seat control unit power supply and ground circuit is OK.
NG >> Repair or replace harness between climate controlled seat control unit and ground.

Climate Controlled Seat Switch Power Supply Circuit Inspection

NIS0027R

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between climate controlled seat control unit and ground.



Terminal			Voltage (V) (Approx.)
(+)		(–)	
Climate controlled seat control unit connector	Terminal		
B283 (driver side) B293 (passenger side)	11	Ground	Battery voltage

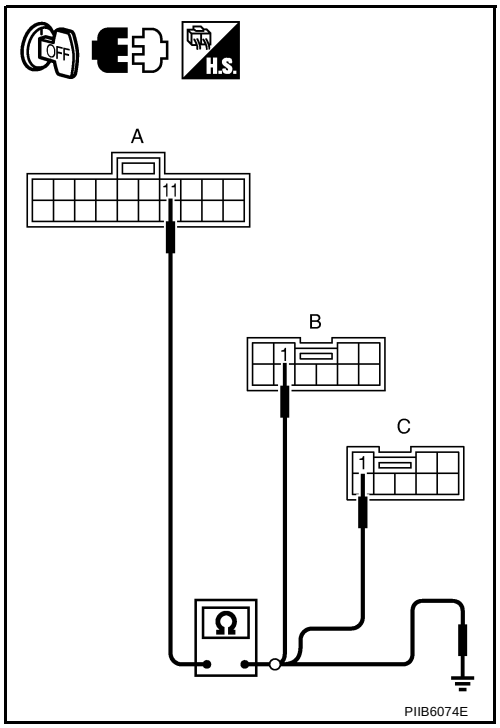
OK or NG

OK >> GO TO 2.
NG >> Replace climate controlled seat control unit.

2. CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat control unit and climate controlled seat switch connector.
3. Check continuity between climate controlled seat control unit connector and climate controlled seat switch connector.

– Driver side



A		B		Continuity
Climate controlled seat control unit connector	Terminal	Climate controlled seat switch connector	Terminal	
B283	11	E20	1	Yes

– Passenger side

A		C		Continuity
Climate controlled seat control unit connector	Terminal	Climate controlled seat switch connector	Terminal	
B293	11	E19	1	Yes

4. Check continuity between climate controlled seat control unit connector and ground.

A		Ground	Continuity
Climate controlled seat control unit connector	11		
B283 (driver side) B293 (passenger side)			No

OK or NG

OK >> Climate controlled seat control unit power supply circuit is OK.
NG >> Repair or replace harness between climate controlled seat control unit and climate controlled seat switch.

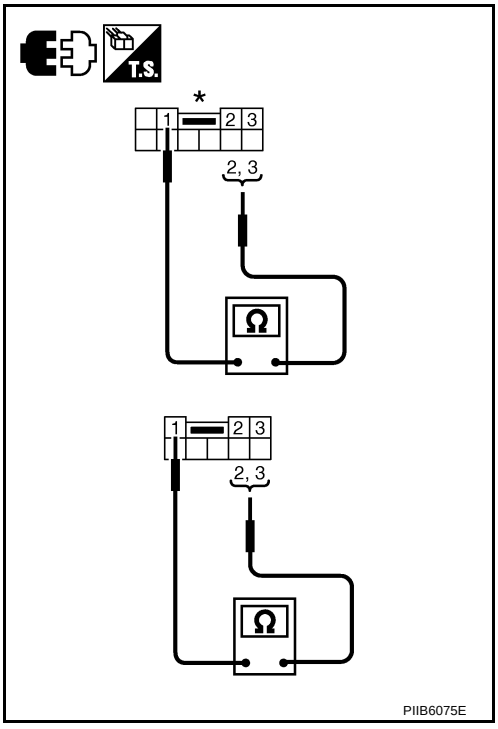
Climate Controlled Seat Switch Circuit Inspection

NIS0027S

1. CHECK CLIMATE CONTROLLED SEAT SWITCH

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat switch connector.
3. Check continuity between climate controlled seat switch.

Climate controlled seat switch connector	Terminal		Condition		Continuity
B20 (driver side)* B19 (passenger side)	1	3	Climate controlled seat switch	HEAT	Yes
			Other than above.		No
		2	Climate controlled seat switch	COOL	Yes
			Other than above.		No



OK or NG

OK >> GO TO 2.
NG >> Replace climate controlled seat switch.

2. CHECK CLIMATE CONTROLLED SEAT SWITCH HARNESS CIRCUIT

1. Disconnect climate controlled seat control unit connector.
2. Check continuity between climate controlled seat control unit connector and climate controlled seat switch connector.

– Driver side

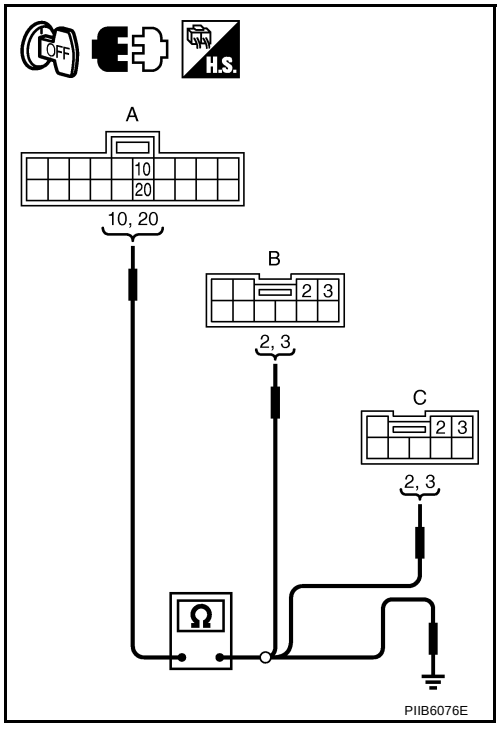
A		B		Continuity
Climate controlled seat control unit connector	Terminal	Climate controlled seat switch connector	Terminal	
B283	10	E20	3	Yes
	20		2	

– Passenger side

A		C		Continuity
Climate controlled seat control unit connector	Terminal	Climate controlled seat switch connector	Terminal	
B293	10	E19	3	Yes
	20		2	

3. Check continuity between climate controlled seat control unit connector and ground.

A		Ground	Continuity
Climate controlled seat control unit connector	Terminal		
B283 (driver side) B293 (passenger side)	10		No
	20		



OK or NG

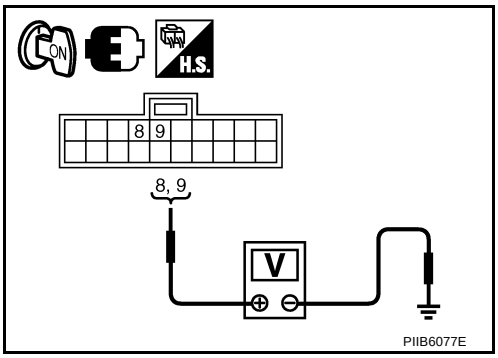
OK >> Replace climate controlled seat control unit.
NG >> Repair or replace harness between climate controlled seat control unit and climate controlled seat switch.

Climate Controlled Seat Switch Indicator Circuit Inspection

NIS0027T

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT CUIRCUIT

1. Turn ignition switch ON.
2. Check voltage between climate controlled seat switch connector and ground.



Terminal (+)		Terminal (–)	Condition		Voltage (V) (Approx.)
Climate controlled seat control unit connector	Terminal				
B283 (driver side) B293 (passenger side)	8	Ground	Climate controlled seat switch	HEAT	Battery voltage
			Other than above.		0
	9		Climate controlled seat switch	COOL	Battery voltage
			Other than above.		0

OK or NG

OK >> GO TO 2.
NG >> Replace climate controlled seat control unit.

2. CHECK CLIMATE CONTROLLED SEAT SWITCH HARNESS CURCUIT

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat switch and climate controlled seat control unit connector.
3. Check continuity between climate controlled seat control unit connector and climate controlled seat switch.

– Driver side

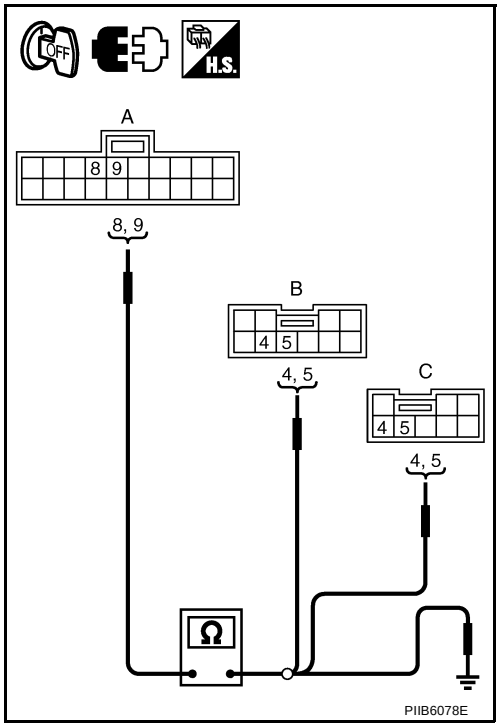
A		B		Continuity
Climate controlled seat control unit connector	Terminal	Climate controlled seat switch connector	Terminal	
B283	8	E20	5	Yes
	9		4	

– Passenger side

A		C		Continuity
Climate controlled seat control unit connector	Terminal	Climate controlled seat switch connector	Terminal	
B293	8	E19	5	Yes
	9		4	

4. Check continuity between climate controlled seat control unit connector and ground.

A		Ground	Continuity
Climate controlled seat control unit connector	Terminal		
B283 (driver side) B293 (passenger side)	8		No
	9		



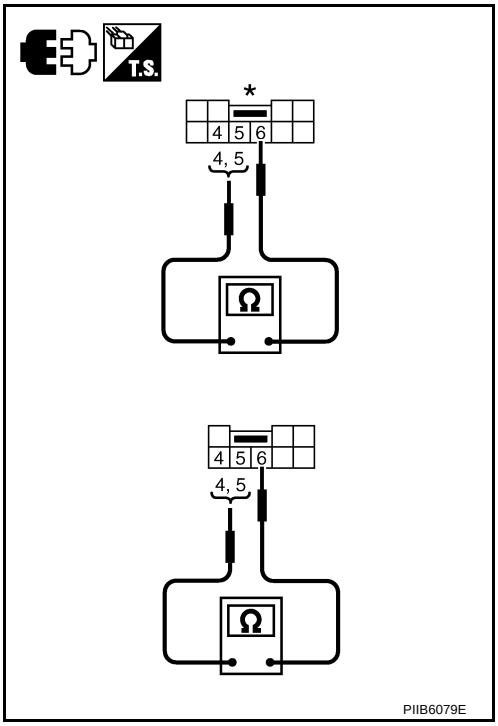
OK or NG

OK >> GO TO 3.
NG >> Repair or replace harness between climate controlled seat control unit and climate controlled seat switch.

3. CHECK CLIMATE COMTROLLED SEAT SWICH INDICATOR

Check continuity between climate controlled seat switch.

Climate controlled seat switch connector	Terminal (+)	Terminal (–)	Continuity
B20 (driver side)* B19 (passenger side)	4	6	No
	5		
	6	4	Yes
		5	



OK or NG

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

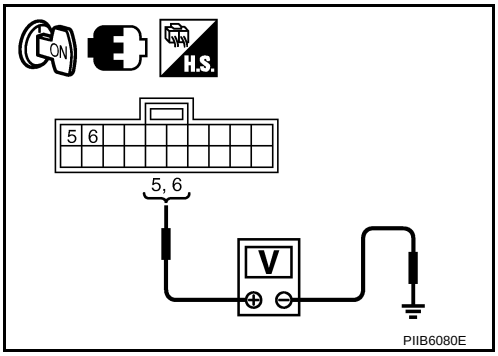
Seat Cushion Thermal Electric Device Circuit Inspection

NIS0027U

1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between climate controlled seat control unit connector and ground.

Terminal (+) Climate controlled seat control unit connector	Terminal (+) Terminal	Terminal (–)	Condition		Voltage (V) (Approx.)
B283 (driver side) B293 (passenger side)	5	Ground	Climate controlled seat switch	HEAT	0 - Battery voltage
			Other than above.		0
	6		Climate controlled seat switch	COOL	0 - Battery voltage
			Other than above.		0

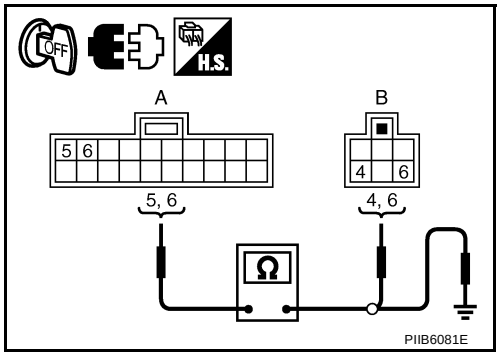


OK or NG

OK >> Seat cushion thermal electric device circuit is OK.
NG >> GO TO 2.

2. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE HARNESS

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat control unit connector and seat cushion thermal electric device connector.
3. Check continuity between climate controlled seat control unit connector and seat cushion thermal electric device connector.



A		B		Continuity
Climate controlled seat control unit connector	Terminal	Seat cushion thermal electric device connector	Terminal	
B283 (driver side) B293 (passenger side)	5	B285 (driver side) B295 (passenger side)	4	Yes
	6		6	

4. Check continuity between climate controlled seat control unit connector and ground.

A		Ground	Continuity
Climate controlled seat control unit connector	Terminal		
B283 (driver side) B293 (passenger side)	5		No
	6		

OK or NG

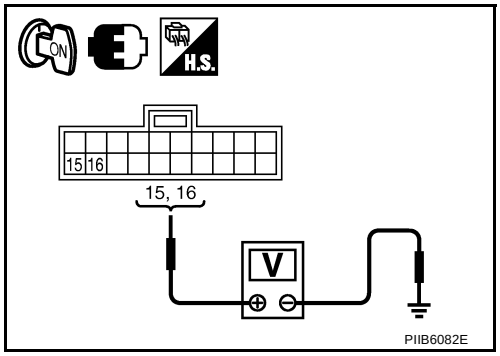
OK >> Check the condition of the harness and the connector.
NG >> Repair or replace harness between climate controlled seat control unit and seat cushion thermal electric device.

Seatback Thermal Electric Device Circuit Inspection

NIS0027V

1. CHECK SEATBACK THERMAL ELECTRIC DEVICE POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between climate controlled seat control unit connector and ground.



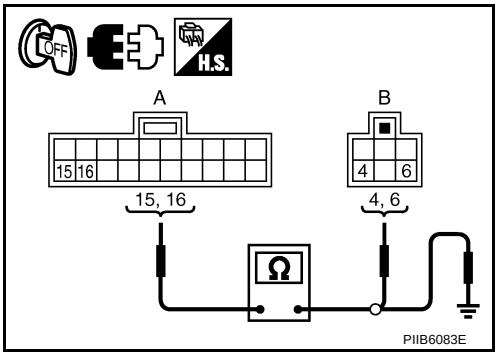
Terminal			Condition		Voltage (V) (Approx.)
(+)		(–)			
Climate controlled seat control unit connector	Terminal				
B283 (driver side) B293 (passenger side)	15	Ground	Climate controlled seat switch	HEAT	0 - Battery voltage
			Other than above.		0
	16		Climate controlled seat switch	COOL	0 - Battery voltage
			Other than above.		0

OK or NG

OK >> Seatback thermal electric device circuit is OK.
NG >> GO TO 2.

2. CHECK SEATBACK THERMAL ELECTRIC DEVICE HARNESS

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat control unit connector and seatback thermal electric device connector.
3. Check continuity between climate controlled seat control unit connector and seatback thermal electric device connector.



A		B		Continuity
Climate controlled seat control unit connector	Terminal	Seatback thermal electric device connector	Terminal	
B283 (driver side) B293 (passenger side)	15	B285 (driver side) B295 (passenger side)	4	Yes
	16		6	

4. Check continuity between climate controlled seat control unit connector and ground.

A		Ground	Continuity
Climate controlled seat control unit connector	Terminal		
B283 (driver side) B293 (passenger side)	15		No
	16		

OK or NG

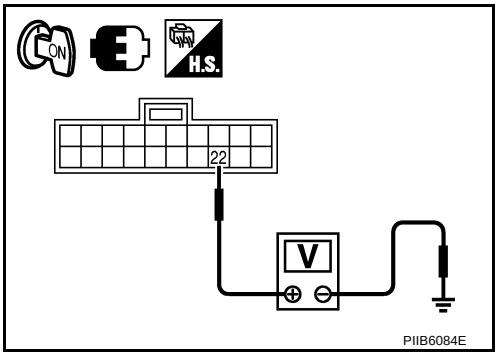
OK >> Check the condition of the harness and the connector.
NG >> Repair or replace harness between climate controlled seat control unit and seatback thermal electric device.

Seat Cushion Thermal Electric Device Sensor Circuit Inspection

NIS0027W

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between climate controlled seat control unit connector and ground.



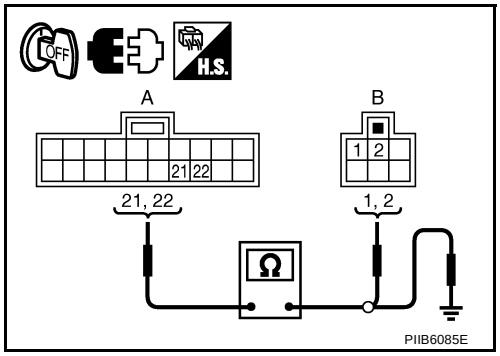
Terminal			Condition	Voltage (V) (Approx.)
(+)		(–)		
Climate controlled seat control unit connector	Terminal			
B283 (driver side) B293 (passenger side)	22	Ground	Blower motor operated	0.5 - 4

OK or NG

OK >> Climate controlled seat control unit circuit is OK.
NG >> GO TO 2.

2. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat control unit connector and seat cushion thermal electric device connector.
3. Check continuity between climate controlled seat control unit connector and seat cushion thermal electric device connector.



A		B		Continuity
Climate controlled seat control unit connector	Terminal	Seat cushion thermal electric device connector	Terminal	
B283 (driver side) B293 (passenger side)	21	B285 (driver side) B295 (passenger side)	2	Yes
	22		1	

4. Check continuity between climate controlled seat control unit connector and ground.

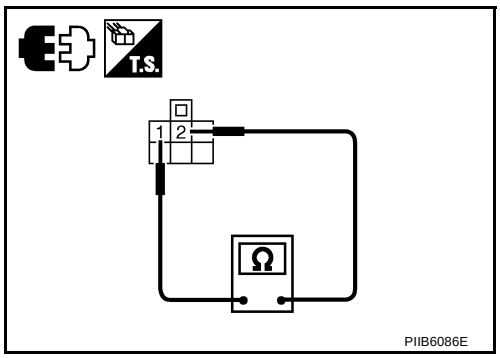
A		Ground	Continuity
Climate controlled seat control unit connector	Terminal		
B283 (driver side) B293 (passenger side)	21		No
	22		

OK or NG

OK >> GO TO 3.
NG >> Repair or replace harness between climate controlled seat control unit and seat cushion thermal electric device.

3. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seat cushion thermal electric device connector.



Seat cushion thermal electric device connector	Terminal		Resistance (KΩ) (Approx.)
B220 (driver side) B258 (passenger side)	1	2	2

OK or NG

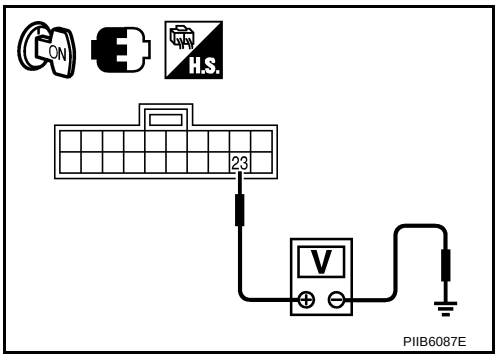
OK >> Check the condition of the harness and the connector.
NG >> Replace seat cushion thermal electric device.

Seatback Thermal Electric Device Sensor Circuit Inspection

NIS0027X

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between climate controlled seat control unit connector and ground.



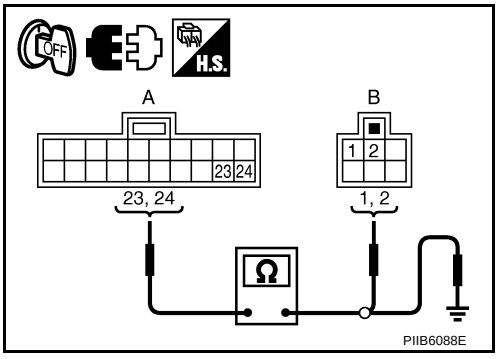
Terminal			Condition	Voltage (V) (Approx.)
(+)		(–)		
Climate controlled seat control unit connector	Terminal			
B283 (driver side) B293 (passenger side)	23	Ground	Blower motor operated	0.5 - 4

OK or NG

OK >> Climate controlled seat control unit circuit is OK.
NG >> GO TO 2.

2. CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat control unit connector and seatback thermal electric device connector.
3. Check continuity between climate controlled seat control unit connector and seatback thermal electric device connector.



A		B		Continuity
Climate controlled seat control unit connector	Terminal	Seatback thermal electric device connector	Terminal	
B283 (driver side) B293 (passenger side)	23	B220 (driver side) B258 (passenger side)	1	Yes
	24		2	

4. Check continuity between climate controlled seat control unit connector and ground.

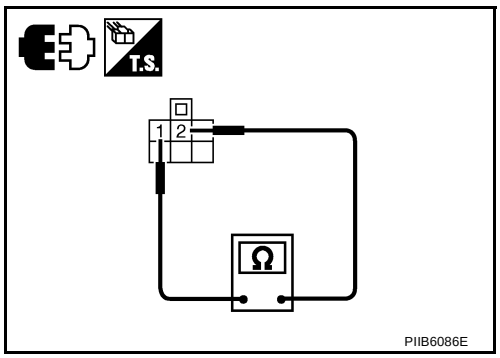
A		Ground	Continuity
Climate controlled seat control unit connector	Terminal		
B283 (driver side) B293 (passenger side)	23		No
	24		

OK or NG

OK >> GO TO 3.
NG >> Repair or replace harness between climate seat control unit and seatback thermal electric device.

3. CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seatback thermal electric device connector.



Seatback thermal electric device connector	Terminal		Resistance (KΩ) (Approx.)
B220 (driver side) B258 (passenger side)	1	2	2

OK or NG

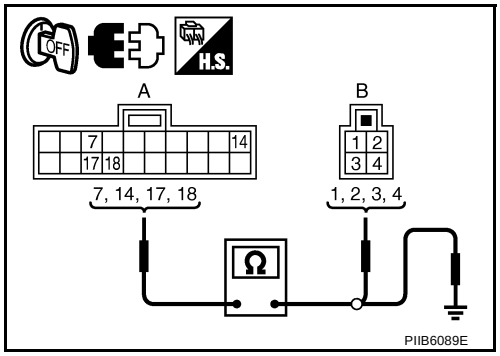
OK >> Check the condition of the harness and the connector.
NG >> Replace seatback thermal electric device.

Climate Controlled Seat Blower Motor Circuit Inspection

NIS0027Y

1. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR CIRCUIT HARNESS

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat control unit and climate controlled seat blower motor connector.
3. Check continuity between climate controlled seat control unit connector and climate controlled seat blower motor connector.



A		B		Continuity
Climate controlled seat control unit connector	Terminal	Climate controlled seat blower motor connector	Terminal	
B283 (driver side) B293 (passenger side)	7	B282 (driver side) B292 (passenger side)	3	Yes
	14		2	
	17		4	
	18		1	

4. Check continuity between climate controlled seat control unit connector and ground.

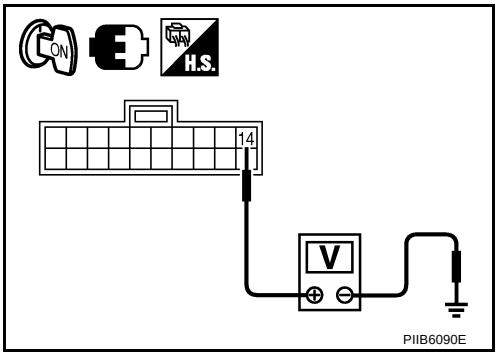
A			Continuity
Climate controlled seat control unit connector	Terminal	Ground	
B283 (driver side) B293 (passenger side)	7		No
	14		
	17		
	18		

OK or NG

OK >> GO TO 2.
NG >> Repair or replace harness between climate controlled seat control unit and climate controlled seat blower motor.

2. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR POWER SUPPLY CIRCUIT

1. Connect climate controlled seat control unit connector and blower motor connector.
2. Turn ignition switch ON.
3. Check voltage between climate controlled seat control unit connector and ground.



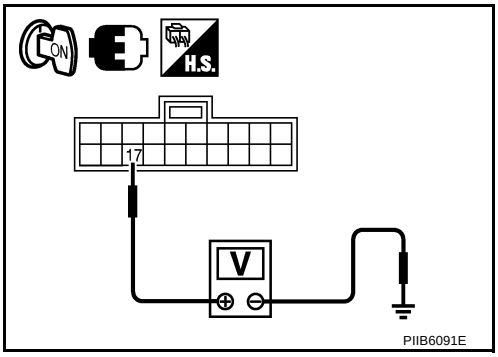
Terminal			Condition		Voltage (V) (Approx.)
(+)		(–)			
Climate controlled seat control unit connector	Terminal				
B283 (driver side) B293 (passenger side)	14	Ground	Climate controlled seat switch	HEAT or COOL	5.5 - Battery voltage
			Other than above.		0

OK or NG

OK >> GO TO 3.
NG >> Replace climate controlled seat control unit.

3. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR SPEED CONTROL SIGNAL CIRCUIT

Check voltage between climate controlled seat control unit connector and ground.



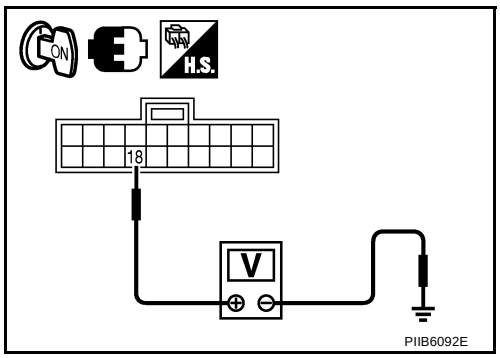
Terminal			Condition		Voltage (V) (Approx.)
(+)		(–)			
Climate controlled seat control unit connector	Terminal				
B283 (driver side) B293 (passenger side)	17	Ground	Climate controlled seat switch	HEAT or COOL	4.5 - 8.0
			Other than above.		0

OK or NG

OK >> GO TO 4.
NG >> Replace climate controlled seat control unit.

4. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR TACHOMETER SIGNAL CIRCUIT

Check voltage between climate controlled seat control unit connector and ground.



Terminal			Condition		Voltage (V) (Approx.)
(+)		(–)			
Climate controlled seat control unit connector	Terminal				
B283 (driver side) B293 (passenger side)	18	Ground	Climate controlled seat switch	HEAT or COOL	4.5 - 8.0
			Other than above.		0

OK or NG

OK >> Climate controlled seat blower motor circuit is OK.
NG >> Replace climate controlled seat blower motor.

Climate Controlled Seat Control Unit Inspection

NIS0027Z

1. CHECK THE CLIMATE CONTROLLED SEAT CONTROL UNIT

Does the heater operate normally when the driver side or passenger side climate controlled seat control unit is exchanged?

YES or NO

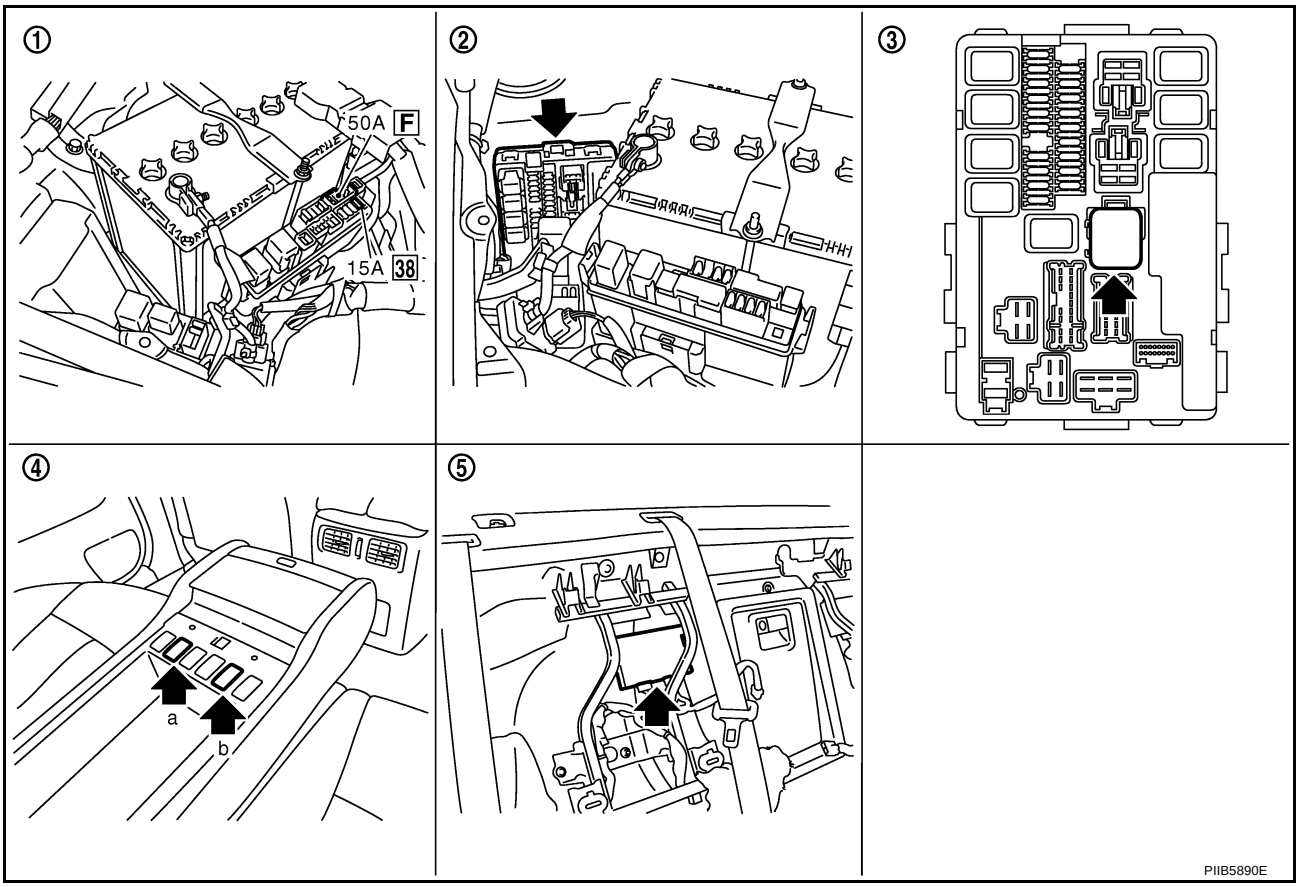
YES >> Climate controlled seat control unit is OK.
NO >> Replace climate controlled seat control unit.

HEATED SEAT

PFP:87335

Component Parts and Harness Connector Location

NIS00280



1. Fuse, fusible link and relay block (J/B)
2. IPDM E/R E5, E6, E9
3. Heated seat relay E5, E6, E9 (Built into the IPDM E/R)
4. a: Rear heated seat switch LH B507
   b: Rear heated seat switch RH B558
5. Rear seat control unit
   B303, B304 (LH)
   B353, B354 (RH)
   (View with the rear seatback removed)

System Description

NIS00281

NOTE:

- 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.

Power is all time supplied

- to rear LH seat control unit and rear RH seat control unit terminal 1.
- through 50A fusible link [Letter F, located in the fuse block (J/B)],
- to IPDM E/R (heated seat relay) terminal 14.
- through 15A fuse [No.38, located in the fuse block (J/B)].

With the ignition switch to ON or START position, power is supplied

- to rear LH seat control unit terminal 4 and
- to rear heated seat switch LH terminal 6.
- through IPDM E/R (heated seat relay) terminal 12
- to rear RH seat control unit terminal 4 and
- to rear heated seat switch RH terminal 6
- through IPDM E/R (heated seat relay) terminal 9.

When rear heated seat switch (LH, RH) is LOW position, ground is suppled

- to rear seat control unit terminal 18,
- through rear heated seat switch terminal 2,
- through rear heated seat switch terminal 3,
- through body grounds B5, B40 and B131

Then rear seat control unit recognizes that rear heated seat switch is LOW position.
When rear heated seat switch is LOW position, power is supplied

- through rear seat control unit terminal 6,
- through rear seat cushion heater terminal 2,
- through rear seat cushion heater terminal 3,
- to rear seatback heater terminal 1.

Then ground is suppled

- to rear seatback heater terminal 2.
- through body grounds B5, B40 and B131.

With power and ground supplied, rear heated seat is operated.
When rear heated seat switch is in LOW position, ground is supplied

- to rear heated seat switch terminal 5,
- through rear seat control unit terminal 14,
- through rear seat control unit terminal 13,
- through body grounds B5, B40 and B131.

With power and ground supplied, rear heated seat switch LOW position indicator is illuminated
When rear heated seat switch (LH, RH) is in HIGH position, ground is suppled

- to rear seat control unit terminal 17,
- through rear heated seat switch terminal 1,
- through rear heated seat switch terminal 3,
- through body grounds B5, B40 and B131

Then rear seat control unit recognizes that rear heated seat switch is in HIGH position.
When rear heated seat switch is in HIGH position, power is supplied

- through rear seat control unit terminal 5,
- through rear seat cushion heater terminal 1,
- through rear seat cushion heater terminal 3,
- to rear seatback heater terminal 1.

Then ground is suppled

- to rear seatback heater terminal 2.
- through body grounds B5, B40 and B131.
- to rear seat cushion heater terminal 2,
- through rear seat control unit terminal 6,
- through rear seat control unit terminal 8,
- through body grounds B5, B40 and B131.

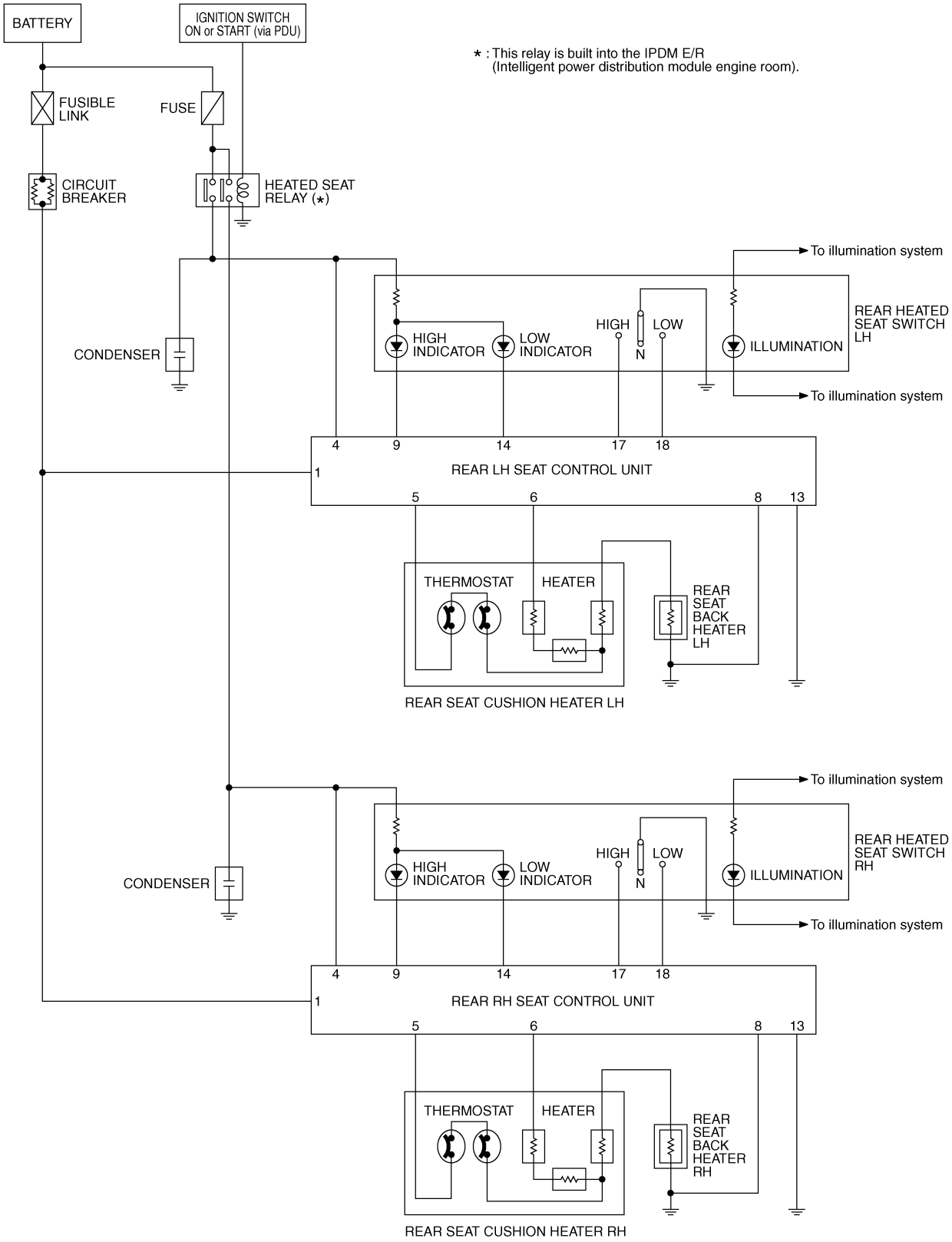
With power and ground supplied, rear heated seat generates heat more than the time of LOW position.
When rear heated seat switch is in HIGH position, ground is supplied

- to rear heated seat switch terminal 4,
- through rear seat control unit terminal 9,
- through rear seat control unit terminal 13,
- through body grounds B5, B40 and B131.

With power and ground supplied rear heated seat switch HIGH position indicator is illuminated.

Schematic

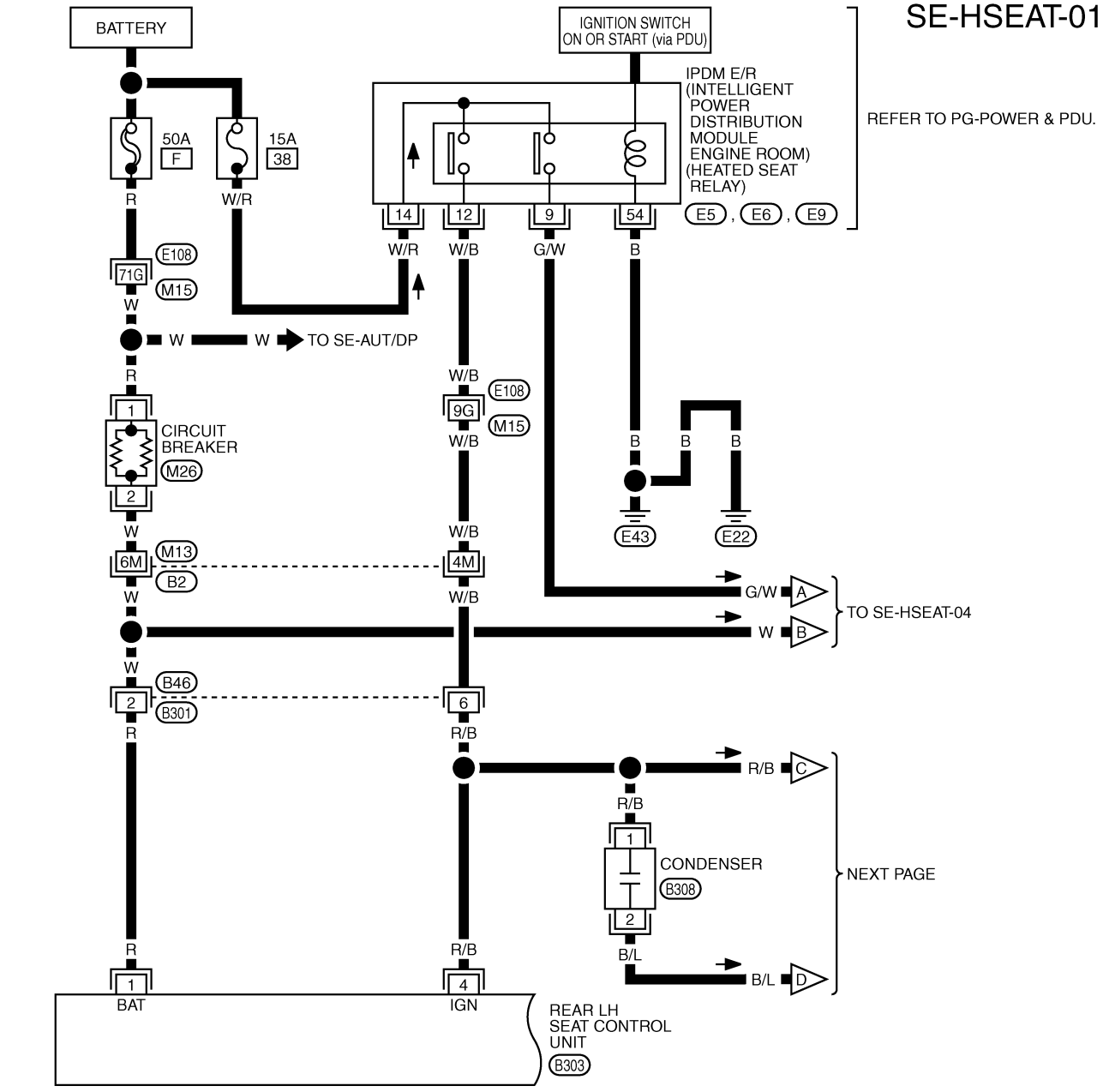
NIS00282

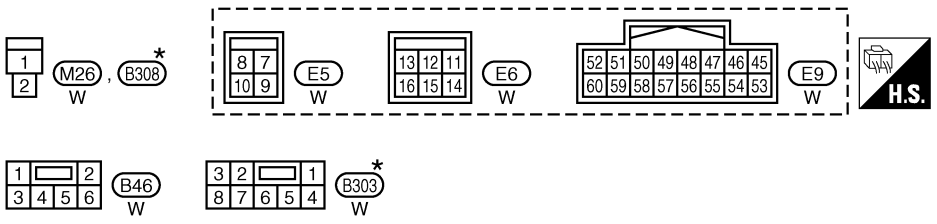


TIWT1397E

Wiring Diagram —HSEAT—

NIS00283



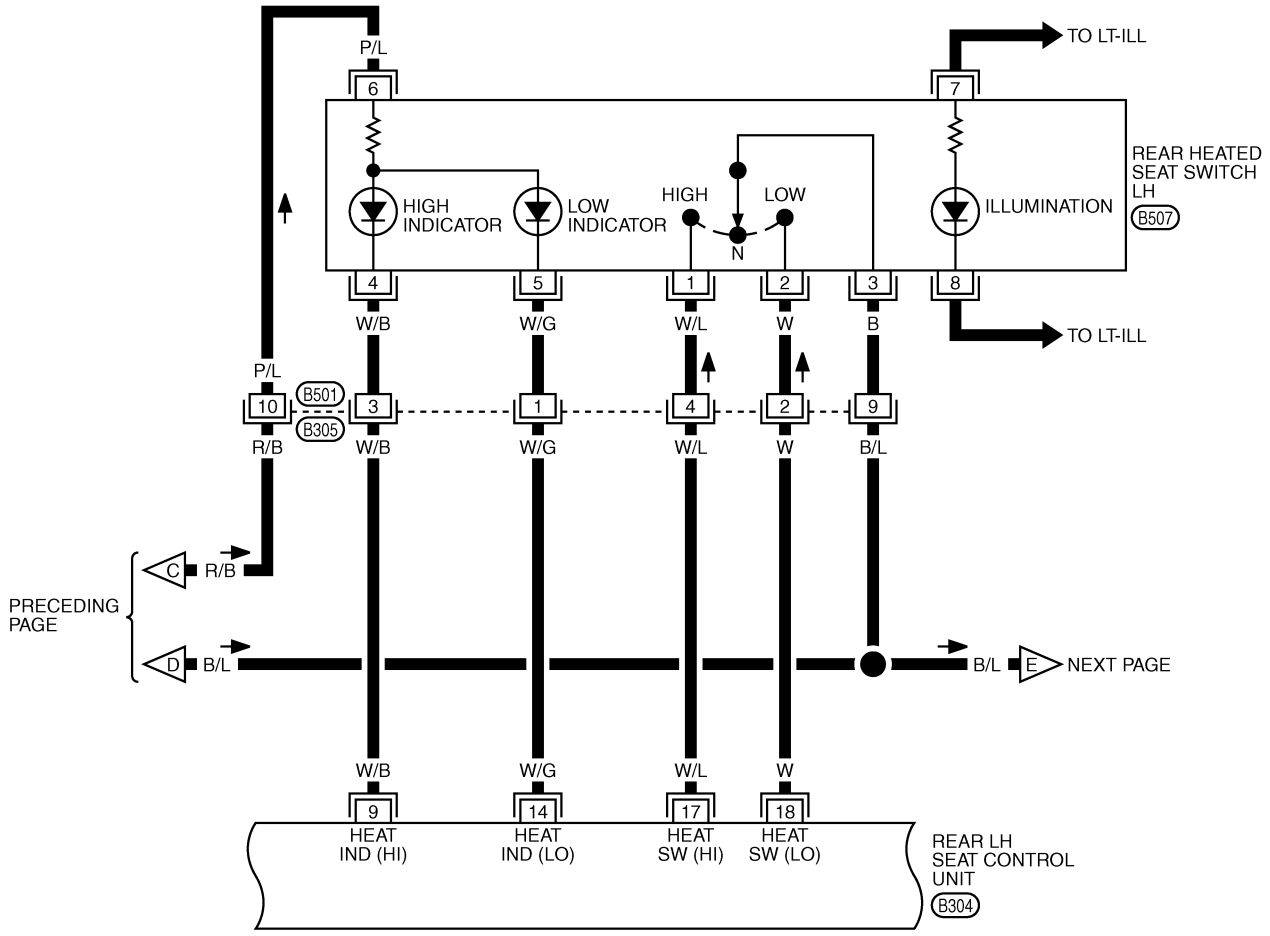


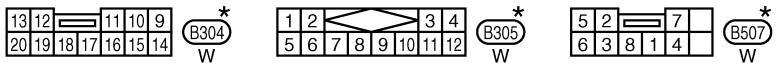
REFER TO THE FOLLOWING.
E108 , B2 -SUPER MULTIPLE JUNCTION (SMJ)

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

TIWT1398E

SE-HSEAT-02

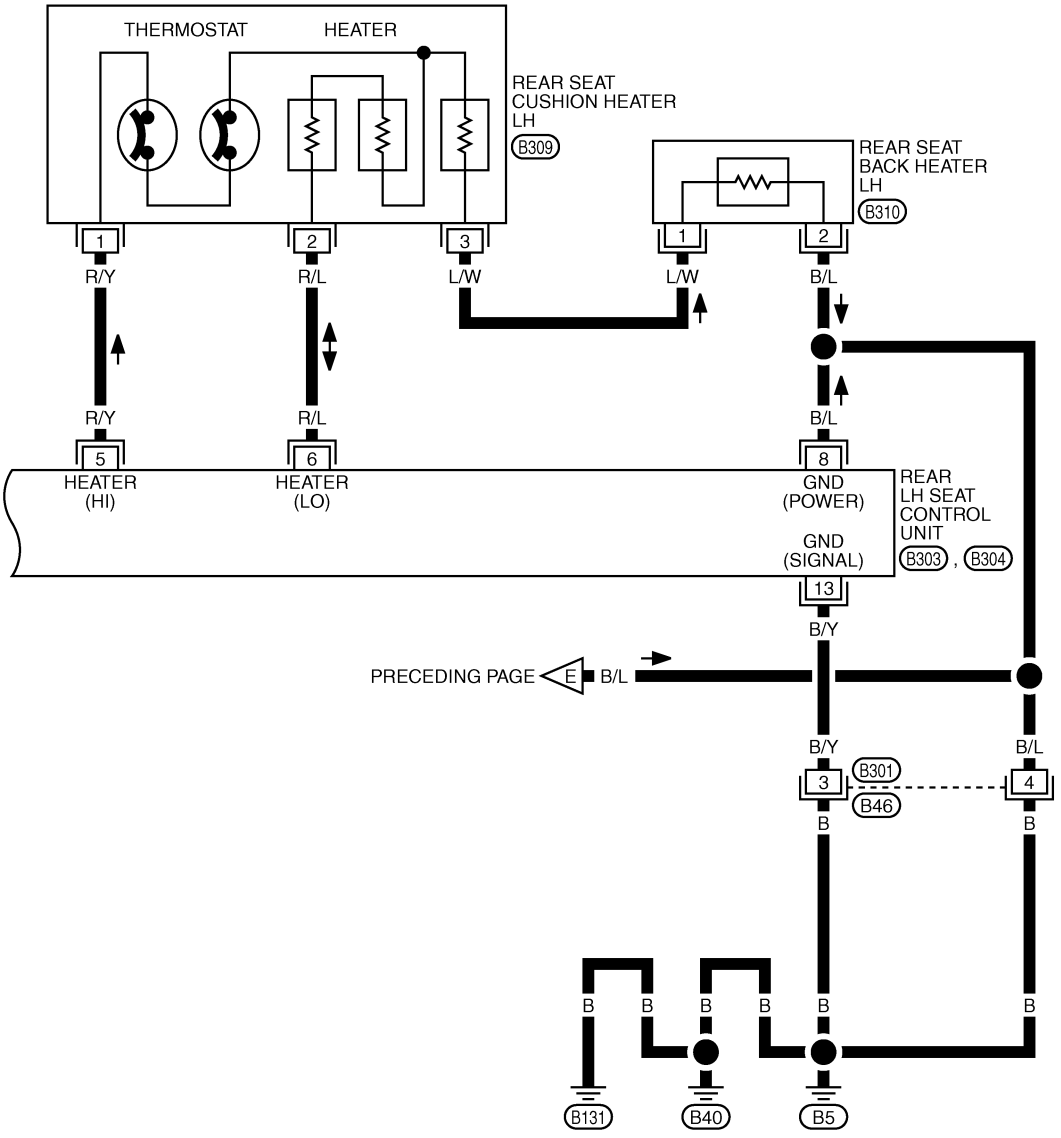


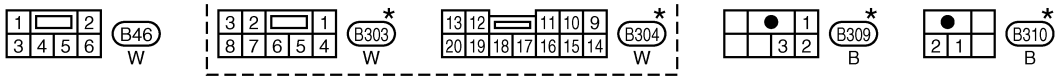


∗: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWT1399E

SE-HSEAT-03

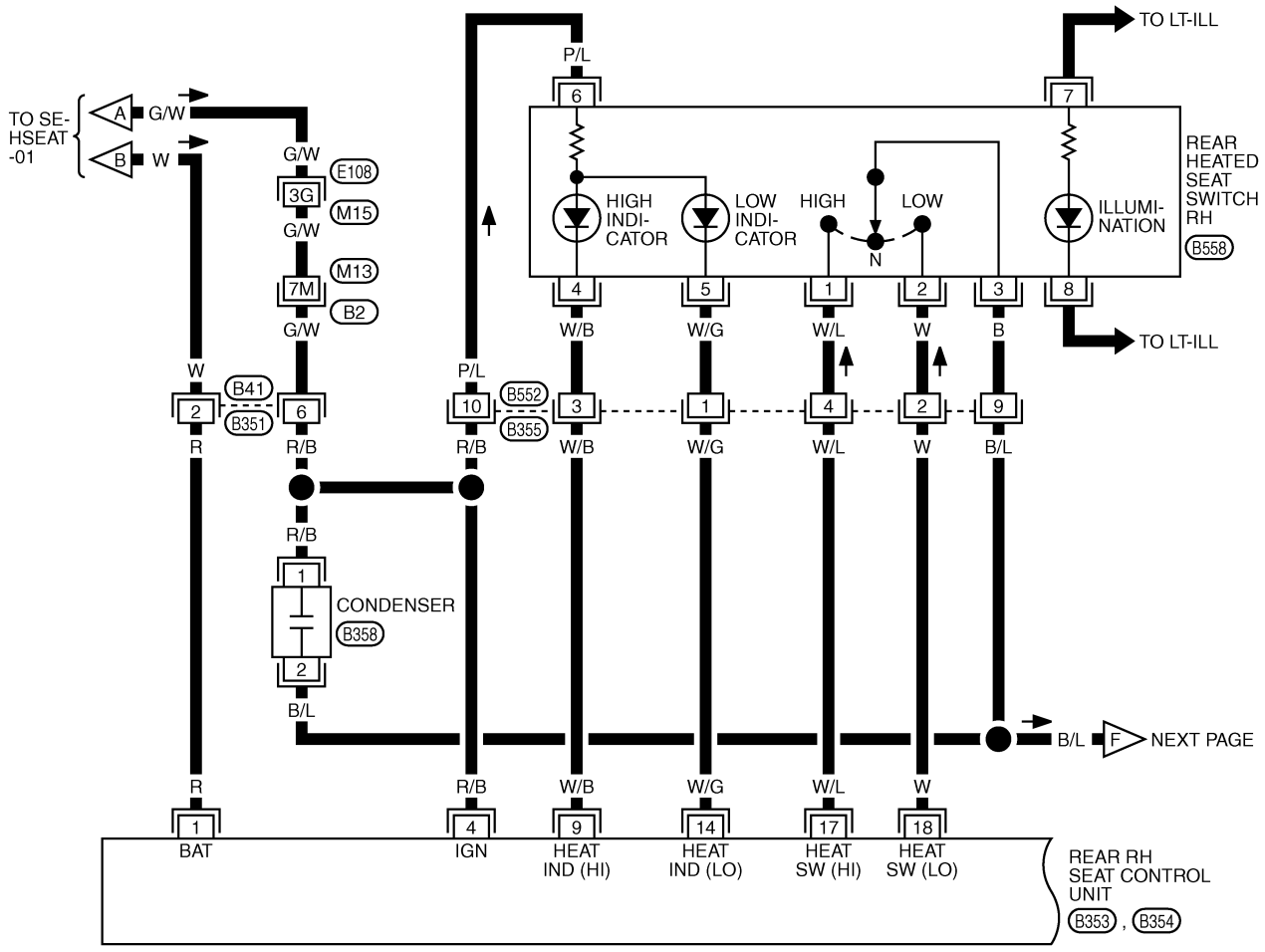


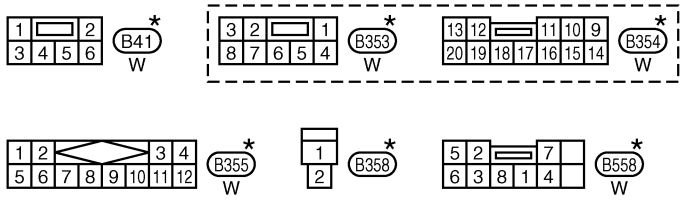


*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TIWT1400E

SE-HSEAT-04



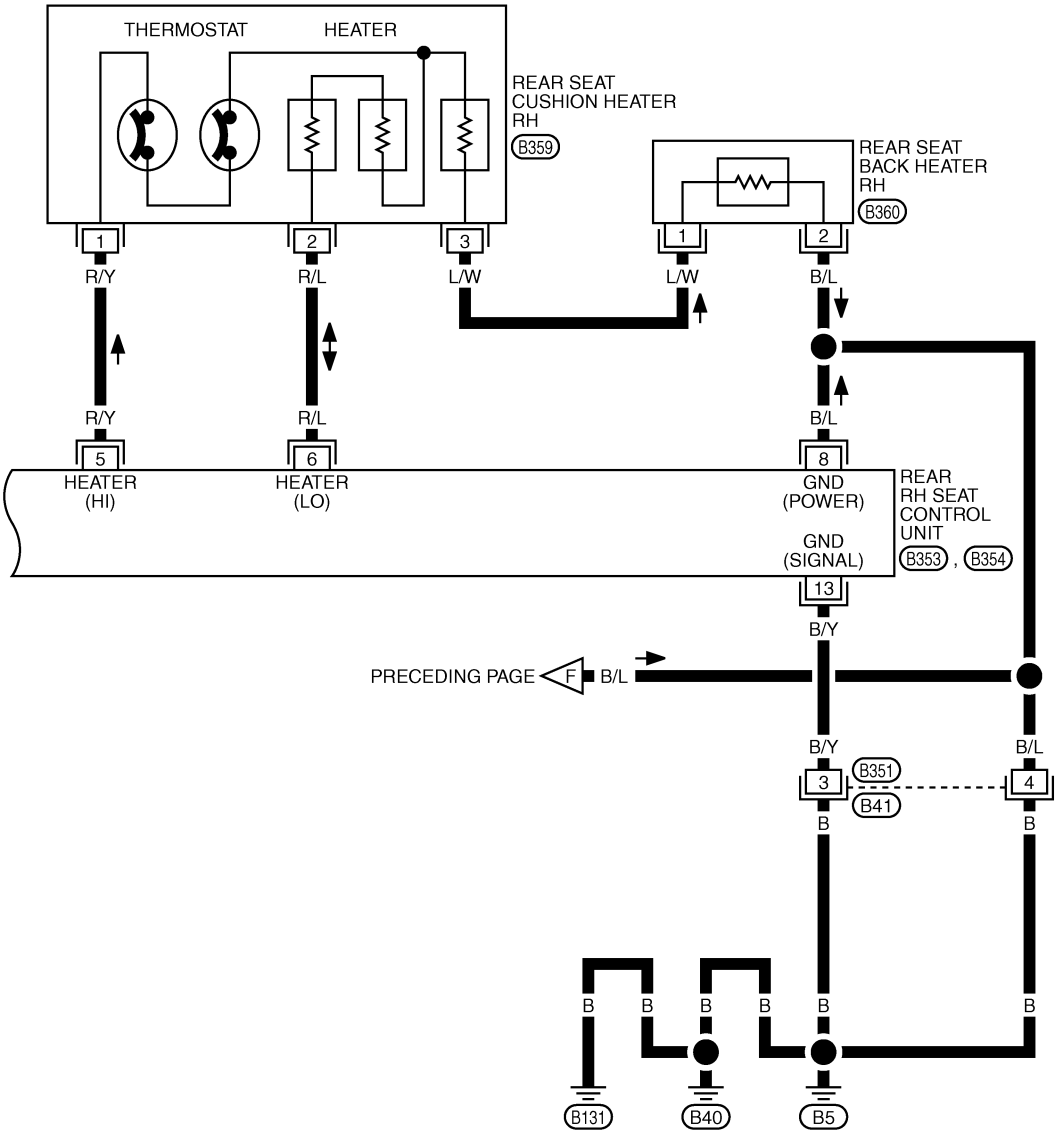


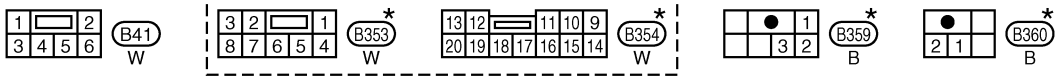
∗: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

REFER TO THE FOLLOWING.
E108 , B2 -SUPER MULTIPLE JUNCTION (SMJ)

TIWT1401E

SE-HSEAT-05





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

TIWT1402E

Terminals and Reference Values for Rear Seat Control Unit

NIS00284

Terminal	Wire color	Item	Condition	Voltage (V) (Approx.)
1	R	Power source (BAT)	—	Battery voltage
4	R/B	Power source (IGN)	—	Battery voltage
5	R/Y	Seat heater HI signal	Seat heater HI operation	Battery voltage
			Other than above	0
6	R/L	Seat heater LO signal	Seat heater LO operation	Battery voltage
			Other than above	0
8	B/L	Ground (power)	—	0
9	W/B	Heated seat indicator HI signal	Heater HI operation (lit)	0
			Other than above	Battery voltage
13	B/Y	Ground (signal)	—	0
14	W/G	Heated seat indicator LO signal	Heater LO operation (lit)	0
			Other than above	Battery voltage
17	W/L	Heated seat switch HI signal	Heated seat switch (HI) – ON (pressed)	0
			Heated seat switch (HI) – OFF	Battery voltage
18	W	Heated seat switch LO signal	Heated seat switch (LO) – ON (pressed)	0
			Heated seat switch (LO) – OFF	Battery voltage

Work Flow

NIS00285

1. Check the symptom and customer's requests.
2. Understand the outline of system. Refer to SE-143, "System Description" .
3. According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to SE-151, "Trouble Diagnoses Symptom Chart" .
4. Does heated seat operate normally? YES: GO TO 5, NO: GO TO 3.
5. INSPECTION END.

Trouble Diagnoses Symptom Chart

NIS00286

- Check that other systems using the signal of the following systems operate normally.

Symptom	Diagnoses / service procedure	Refer to page
Rear heated seat LH and RH does not operate.	Rear heated seat power supply and ground circuit inspection	SE-152
Rear heated seat LH or RH do not operate.	1. Rear seat control unit power supply and ground circuit inspection	SE-153
	2. Rear heated seat switch circuit inspection	SE-155
	3.Rear seatback heater circuit inspection	SE-161
	4.Replace rear LH or RH seat control unit	SE-143
Rear heated seat do not operate with LO or HI position.	1. Rear heated seat switch circuit inspection	SE-155
	2. Rear heated seat circuit inspection	SE-160
Rear heated seat LH or RH indicator do not operate.	Rear heated seat indicator power supply circuit inspection	SE-157
Rear heated seat indicator do not operate with LO or HI position	Rear heated seat indicator circuit inspection	SE-158

Rear Heated Seat Power Supply and Ground Circuit Inspection

NIS00287

1. CHECK FUSIBLE LINK AND FUSE

- Check 50A fusible link (letter F located in the fuse and fusible link box).
- Check 15A fuse (No.38, located in fuse block).
- Check circuit breaker.

NOTE:
Refer to SE-143, "Component Parts and Harness Connector Location" .

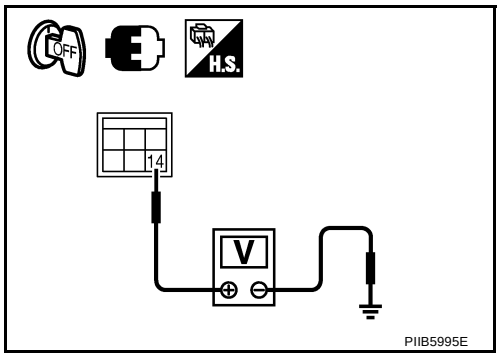
OK or NG

OK >> GO TO 2.
NG >> If fuse or circuit breaker is blown, be sure to eliminate cause of malfunction before installing new fuse or new circuit breaker, refer to PG-3, "POWER SUPPLY ROUTING CIRCUIT" .

2. CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Check voltage between IPDM E/R (heated seat relay) connector and ground.

Terminal			Voltage (V) (Approx.)
(+)		(–)	
IPDM E/R (heated seat relay) connector	Terminal		
E6	14	Ground	Battery voltage



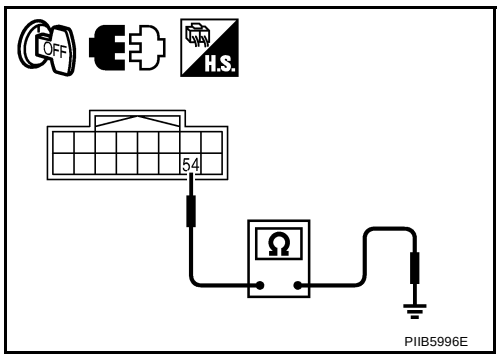
OK or NG

OK >> GO TO 3.
NG >> Repair or replace harness between fuse block (J/B) and IPDM E/R (heated seat relay).

3. CHECK HEATED SEAT RELAY GROUND CIRCUIT

1. Disconnect IPDM E/R (heated seat relay) connector.
2. Check continuity between IPDM E/R (heated seat relay) connector and ground.

Terminal			Continuity
IPDM E/R (heated seat relay) connector	Terminal	Ground	
E9	54		Yes



OK or NG

OK >> Check the condition of the harness and connector.
NG >> Repair or replace harness between IPDM E/R (heated seat relay) and ground.

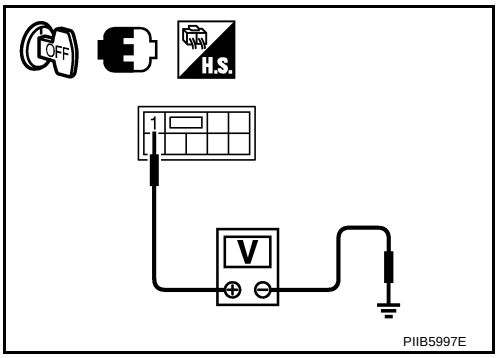
Rear Seat Control Unit Power Supply and Ground Circuit Inspection

NIS00288

1. CHECK REAR SEAT CONTROL UNIT POWER SUPPLY CIRCUIT (BAT)

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

Terminal			Voltage (V) (Approx.)
(+)		(–)	
Rear seat control unit connector	Terminal		
B303 (LH) B353 (RH)	1	Ground	Battery voltage



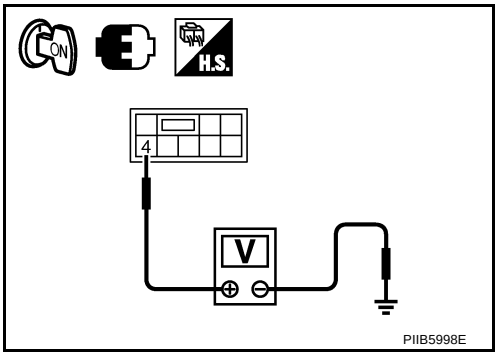
OK or NG

OK >> GO TO 2.
NG >> Repair or replace harness between circuit breaker and rear seat control unit.

2. CHECK REAR SEAT CONTROL UNIT POWER SUPPLY CIRCUIT (IGN)

1. Turn ignition switch ON.
2. Check voltage between rear seat control unit connector and ground.

Terminal			Voltage (V) (Approx.)
(+)		(–)	
Rear seat control unit connector	Terminal		
B303 (LH) B353 (RH)	4	Ground	Battery voltage

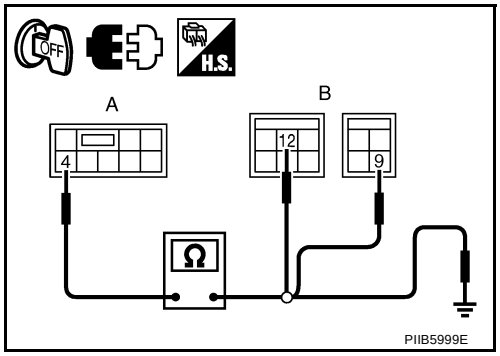


OK or NG

OK >> GO TO 4.
NG >> GO TO 3.

3. CHECK REAR SEAT CONTROL UNIT HARNESS

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R (heated seat relay) and rear seat control unit connector.
3. Check continuity between IPDM E/R (heated seat relay) connector and rear seat control unit connector.



A		B		Continuity
Rear seat control unit connector	Terminal	IPDM E/R (heated seat relay) connector	Terminal	
B303 (LH)	4	E6	12	Yes
B353 (RH)		E5	9	

4. Check continuity between rear seat control unit connector and ground.

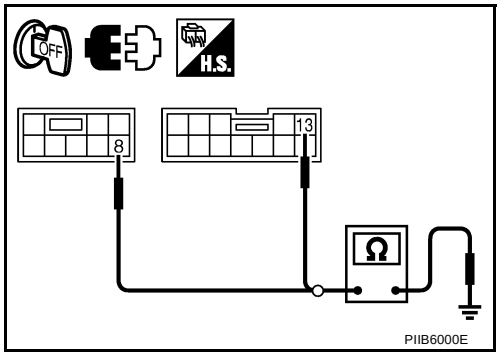
A		Ground	Continuity
Rear seat control unit connector	Terminal		
B303 (LH) B353 (RH)	4		No

OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness between rear seat control unit and IPDM E/R (heated seat relay).

4. CHECK REAR SEAT CONTROL UNIT GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear seat control unit connector.
3. Check continuity between rear seat control unit connector and ground.



Terminal			Continuity
Rear seat control unit connector	Terminal		
B303 (LH) B353 (RH)	8	Ground	Yes
B304 (LH) B354 (RH)	13		

OK or NG

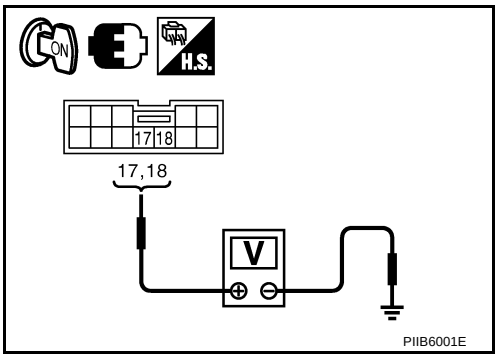
OK >> Rear seat control unit power supply and ground circuit is OK.
NG >> Repair or replace harness between rear seat control unit and ground.

Rear Heated Seat Switch Circuit Inspection

NIS00289

1. CHECK REAR HEATED SEAT SWITCH POWER SUPPLY-1

1. Turn ignition switch ON.
2. Check voltage between rear seat control unit connector and ground.



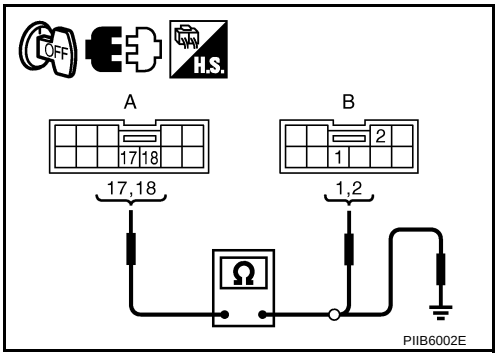
Terminal			Condition		Voltage (V) (Approx.)
(+)		(–)			
Rear seat control unit connector	Terminal				
B304 (LH) B354 (RH)	17	Ground	Rear heated seat switch	HIGH	0
			Other than above.		5
	18		Rear heated seat switch	LOW	0
			Other than above.		5

OK or NG

OK >> Rear heated seat switch circuit is OK.
NG >> GO TO 2.

2. CHECK REAR HEATED SEAT SWITCH HARNESS

1. Turn ignition switch OFF.
2. Disconnect rear heated seat switch and rear seat control unit connector.
3. Check continuity between rear heated seat switch connector and rear seat control unit connector.



A		B		Continuity
Rear seat control unit connector	Terminal	Rear heated seat switch connector	Terminal	
B304 (LH) B354 (RH)	17	B507 (LH) B558 (RH)	1	Yes
	18		2	

4. Check continuity between rear seat control unit connector and ground.

A		Ground	Continuity
Rear seat control unit connector	Terminal		
B304 (LH) B354 (RH)	17		No
	18		

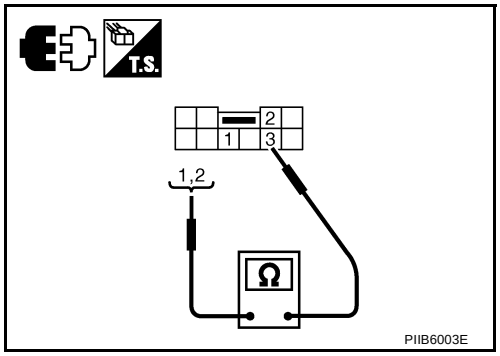
OK or NG

OK >> GO TO 3.
NG >> Replace or replace harness between rear seat control unit and rear heated seat switch.

3. CHECK REAR HEATED SEAT SWITCH

Check continuity rear heated seat switch connector.

Rear heated seat switch connector	Terminal		Condition		Continuity
B507 (LH) B558 (RH)	1	3	Rear heated seat switch	HIGH	Yes
			Other than above.		No
	2		Rear heated seat switch	LOW	Yes
			Other than above.		No



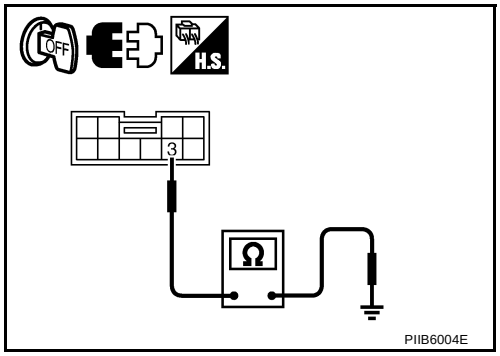
OK or NG

OK >> GO TO 4.
NG >> Replace rear heated seat switch.

4. CHECK REAR HEATED SEAT SWITCH GROUND CIRCUIT

Check continuity between rear heated seat switch connector and ground.

Terminal			Continuity
Rear heated seat switch connector	Terminal	Ground	
B507 (LH) B558 (RH)	3		Yes



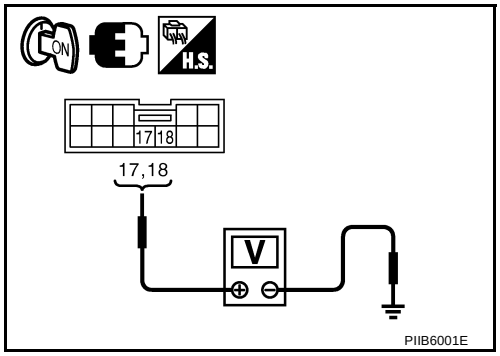
OK or NG

OK >> GO TO 5.
NG >> Replace or replace harness between rear heated seat switch and ground.

5. CHECK REAR HEATED SEAT SWITCH POWER SUPPLY-2

1. Connect rear seat control unit.
2. Turn ignition switch ON.
3. Check voltage between rear seat control unit connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Rear seat control unit connector	Terminal		
B304 (LH) B354 (RH)	17	Ground	5
	18		



OK or NG

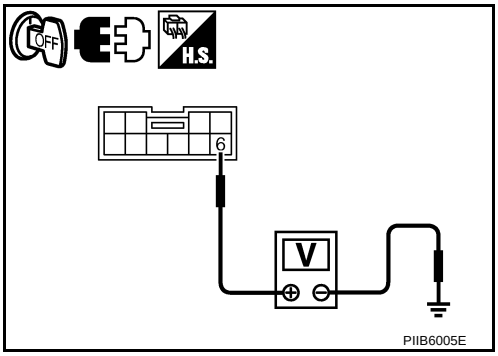
OK >> Check the condition of the harness and connector.
NG >> Replace rear seat control unit.

Rear Heated Seat Indicator Power Supply Circuit Inspection

NIS0028A

1. CHECK REAR HEATED SEAT INDICATOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect rear heated seat switch connector.
3. Check voltage between rear heated seat switch connector and ground.



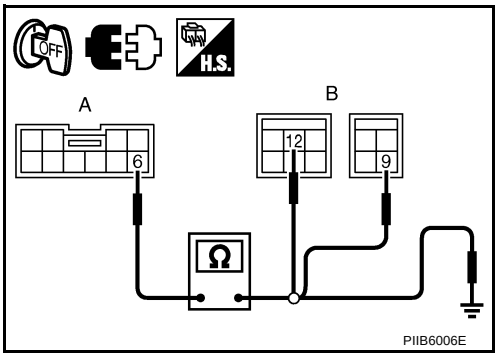
Terminal			Condition		Voltage (V) (Approx.)
(+)		(–)			
Rear heated seat switch connector	Terminal				
B507 (LH) B558 (RH)	6	Ground	Ignition switch	ON	Battery voltage
				OFF	0

OK or NG

OK >> GO TO 3.
NG >> GO TO 2.

2. CHECK REAR HEATED SEAT INDICATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R (heated seat relay) connector.
3. Check continuity between IPDM E/R (heated seat relay) connector and rear heated seat switch connector.



A		B		Continuity
Rear heated seat switch connector	Terminal	IPDM E/R (heated seat relay) connector	Terminal	
B507 (LH)	6	E6	12	Yes
B558 (RH)		E5	9	

4. Check continuity between rear heated seat switch connector and ground.

A		Ground	Continuity
Rear heated seat switch connector	Terminal		
B507 (LH) B558 (RH)	6		No

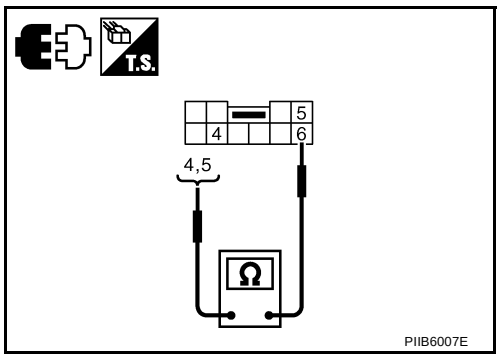
OK or NG

OK >> Check the condition of the harness and connector.
NG >> Replace or replace harness between IPDM E/R (heated seat relay) and rear heated seat switch.

3. CHECK REAR HEATED SEAT SWITCH

Check continuity rear heated seat switch connector.

Rear heated seat switch connector	Terminal (+)	Terminal (-)	Continuity
B507 (LH) B558 (RH)	4	6	Yes
	5		
	6	4	No
		5	



OK or NG

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

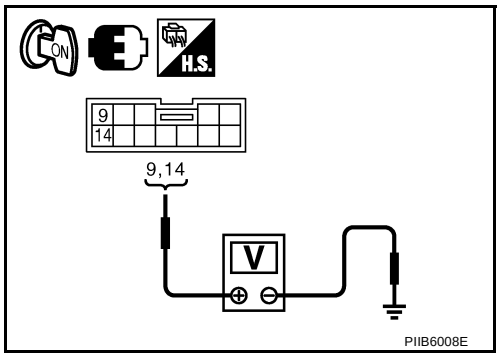
Rear Heated Seat Indicator Circuit Inspection

NIS0028B

1. CHECK REAR SEAT CONTROL UNIT POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between rear seat control unit connector and ground.

Terminal (+) Rear seat control unit connector	Terminal (+) Terminal	Terminal (–)	Condition		Voltage (V) (Approx.)
B304 (LH) B354 (RH)	9	Ground	Rear heated seat switch	HIGH	0
			Other than above.		Battery voltage
	14		Rear heated seat switch	LOW	0
			Other than above.		Battery voltage



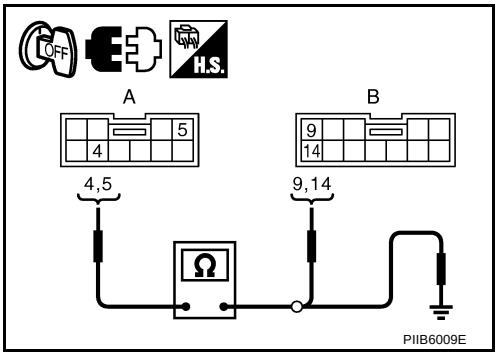
OK or NG

OK >> Replace rear heated seat switch.
NG >> GO TO 2.

2. CHECK REAR HEATED SEAT INDICATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect rear seat control unit and rear heated seat switch connector.
3. Check continuity between rear heated seat switch connector and rear seat control unit connector.

A		B		Continuity
Rear heated seat switch connector	Terminal	Rear seat control unit connector	Terminal	
B507 (LH) B558 (RH)	4	B304 (LH) B354 (RH)	9	Yes
	5		14	



4. Check continuity between rear heated seat switch connector and ground.

A		Ground	Continuity
Rear heated seat switch connector	Terminal		
B507 (LH) B558 (RH)	4		No
	5		

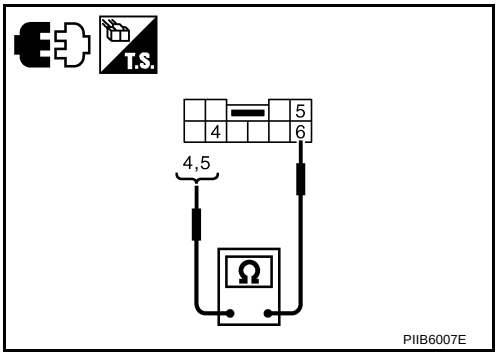
OK or NG

OK >> GO TO 3.
NG >> Replace or replace harness between rear heated seat switch and rear seat control unit.

3. CHECK REAR HEATED SEAT SWITCH

Check continuity rear heated seat switch connector.

Rear heated seat switch connector	Terminal		Continuity
	(+)	(-)	
B507 (LH) B558 (RH)	4	6	Yes
	5		
	6	4	No
		5	



OK or NG

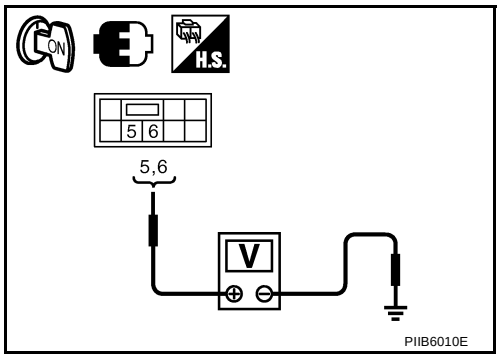
OK >> Replace rear seat control unit.
NG >> Replace rear heated seat switch.

Rear Heated Seat Circuit Inspection

NIS0028C

1. CHECK REAR SEAT CONTROL UNIT

1. Turn ignition switch ON.
2. Check voltage between rear seat control unit connector and ground.



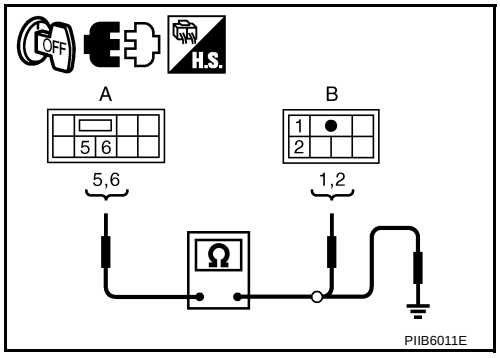
Terminal			Condition		Voltage (V) (Approx.)
(+)		(–)			
Rear seat control unit connector	Terminal				
B303 (LH) B353 (RH)	5	Ground	Rear heated seat switch	HIGH	Battery voltage
			Other than above.		0
	6		Rear heated seat switch	LOW	Battery voltage
			Other than above.		0

OK or NG

OK >> GO TO 2.
NG >> Replace rear seat control unit.

2. CHECK REAR SEAT HEATER HARNESS

1. Turn ignition switch OFF.
2. Disconnect rear seat control unit and rear seat cushion heater connector.
3. Check continuity between rear seat control unit connector and rear seat cushion heater connector.



A		B		Continuity
Rear seat control unit connector	Terminal	Rear seat cushion heater connector	Terminal	
B303 (LH) B353 (RH)	5	B309 (LH) B359 (RH)	1	Yes
	6		2	

4. Check continuity between rear seat control unit connector and ground.

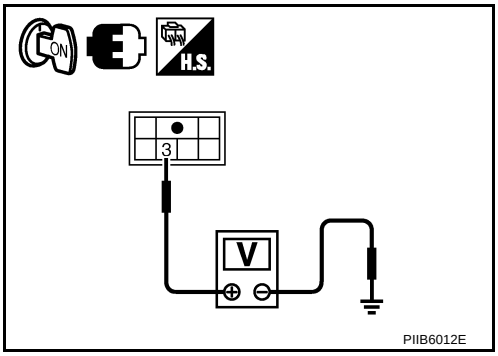
A		Ground	Continuity
Rear seat control unit connector	Terminal		
B303 (LH) B353 (RH)	5		No
	6		

OK or NG

OK >> GO TO 3.
NG >> Replace or replace harness between rear seat control unit and rear seat cushion heater.

3. CHECK REAR SEAT HEATER CIRCUIT

1. Connect rear seat control unit and rear seat cushion heater connector.
2. Turn ignition switch ON.
3. Check voltage between rear seat cushion heater connector and ground.



Terminal (+)		Terminal (–)	Condition		Voltage (V) (Approx.)
Rear seat cushion heater connector	Terminal				
B309 (LH) B359 (RH)	3	Ground	Rear heated seat switch	HIGH	Battery voltage
				LOW	6
			Other than above.		0

OK or NG

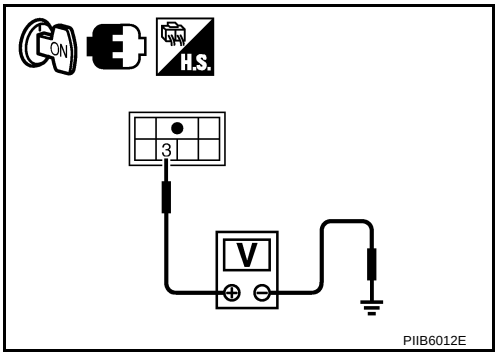
OK >> Check the condition of the harness and connector.
NG >> Replace rear seat cushion heater.

Rear Seatback Heater Circuit Inspection

NIS0028D

1. CHECK REAR SEAT HEATER CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between rear seat cushion heater connector and ground.



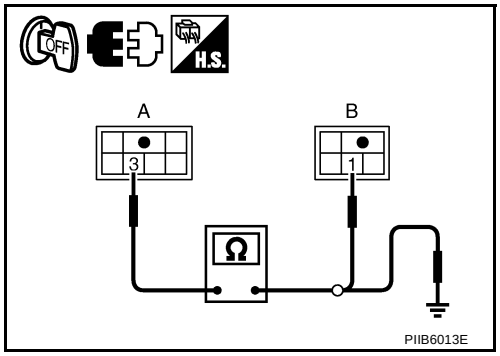
Terminal (+)		Terminal (–)	Condition		Voltage (V) (Approx.)
Rear seat cushion heater connector	Terminal				
B309 (LH) B359 (RH)	3	Ground	Rear heated seat switch	HIGH	Battery voltage
				LOW	6
			Other than above.		0

OK or NG

OK >> GO TO 2.
NG >> Replace rear seat cushion heater.

2. CHECK REAR SEAT HEATER HARNESS

1. Turn ignition switch OFF.
2. Disconnect rear seat cushion heater and rear seatback heater connector.
3. Check continuity between rear seat cushion heater connector and rear seatback heater connector.



A		B		Continuity
Rear seat cushion heater connector	Terminal	Rear seatback heater connector	Terminal	
B309 (LH) B359 (RH)	3	B310 (LH) B360 (RH)	1	Yes

4. Check continuity between rear seat cushion heater connector and ground.

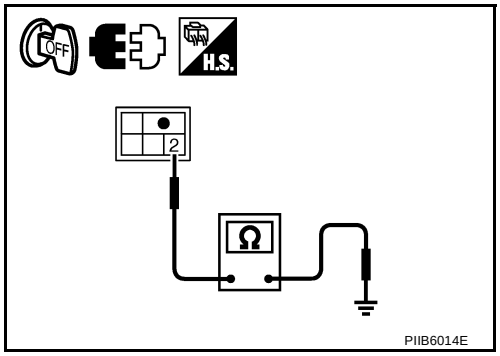
A		Ground	Continuity
Rear seat cushion heater connector	Terminal		
B309 (LH) B359 (RH)	3		No

OK or NG

OK >> GO TO 3.
NG >> Replace or replace harness rear seat cushion heater and rear seatback heater.

3. CHECK REAR SEAT HEATER GROUND CIRCUIT

Check continuity between rear seatback heater connector and ground.



Terminal		Ground	Continuity
Rear seatback heater connector	Terminal		
B310 (LH) B360 (RH)	2		Yes

OK or NG

OK >> Replace rear seatback heater.
NG >> Replace or replace harness rear seatback heater and ground.

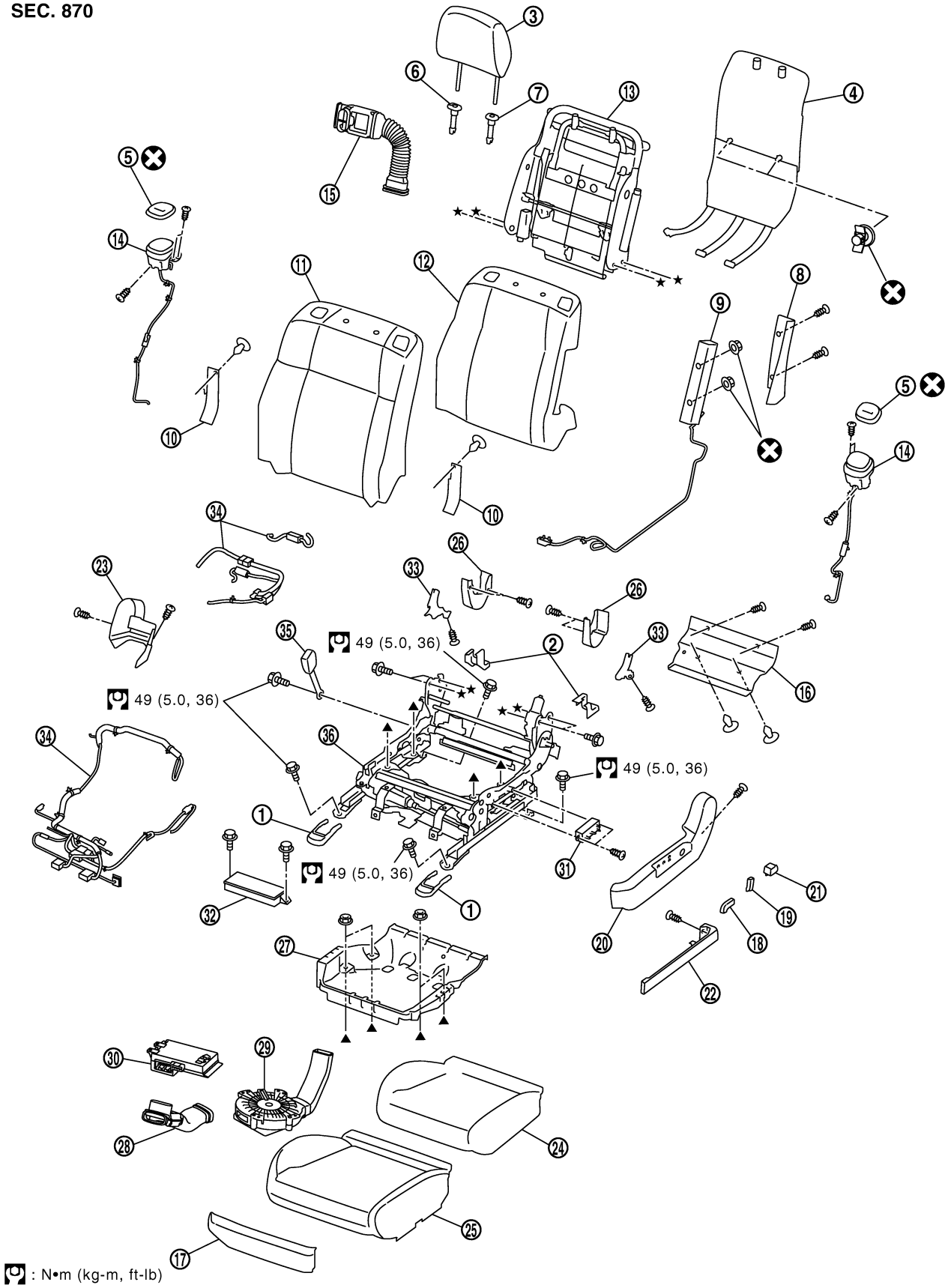
FRONT SEAT

PFP:87000

Driver's Seat Components

NIS0028E

SEC. 870



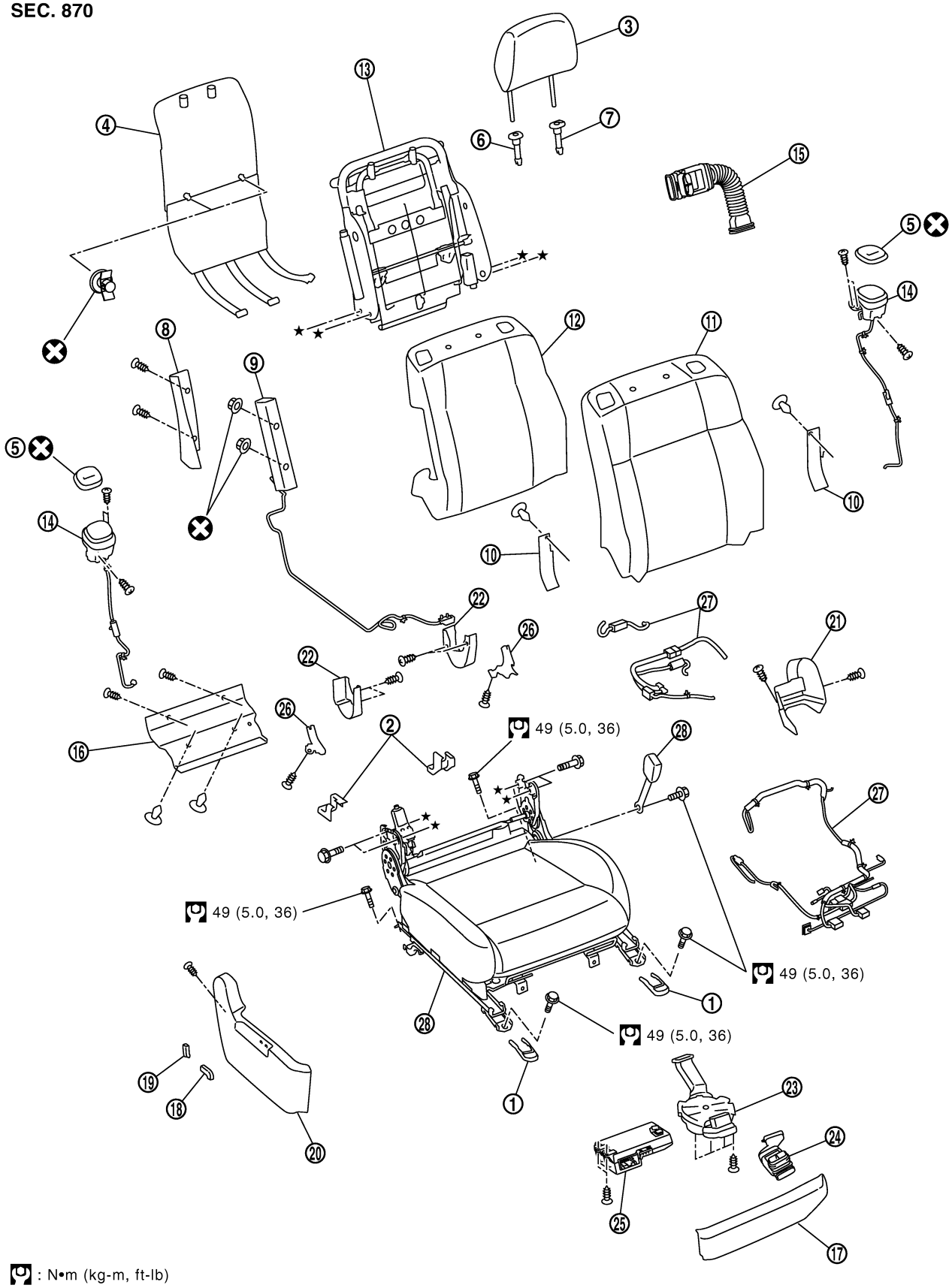
PIIB5328E

1. Front leg cover
2. Rear leg cover
3. Headrest
4. Seatback board
5. Seat speaker grill
6. Headrest holder (free)
7. Headrest holder (locked)
8. Seatback upper finisher
9. Side air bag module
10. Reclining device cover
11. Seatback trim
12. Seatback pad
13. Seatback frame
14. Seat speaker
15. Seatback thermal electrical device (TED) assembly
16. Seat cushion rear finisher (Climate controlled seat model)
17. Seat cushion front finisher
18. Seat slide switch knob
19. Seat reclining switch knob
20. Seat cushion outer finisher
21. Lumber support switch assembly
22. Seat cushion lower finisher
23. Seat cushion inner finisher
24. Seat cushion pad
25. Seat cushion trim
26. Seat cushion finisher B
27. Seat cushion frame
28. Seat cushion thermal electrical device (TED) assembly
29. Blower motor assembly
30. Climate controlled seat control unit
31. Seat control switch
32. Driver seat control unit
33. Seat cushion finisher C
34. Seat harness
35. Seat belt buckle
36. Seat adjuster assembly

Passenger's Seat Components

NIS0028F

SEC. 870



: N•m (kg-m, ft-lb)

PIIB5329E

1. Front leg cover
2. Rear leg cover
3. Headrest
4. Seatback board
5. Seat speaker grill
6. Headrest holder (free)
7. Headrest holder (locked)
8. Seatback upper finisher
9. Side air bag module
10. Reclining device cover
11. Seatback trim
12. Seatback pad
13. Seatback frame
14. Seat speaker
15. Seatback thermal electrical device (TED) assembly
16. Seat cushion rear finisher (Climate controlled seat model)
17. Seat cushion front finisher
18. Seat cushion slide switch
19. Seat reclining switch
20. Seat cushion outer finisher
21. Seat inner finisher
22. Seat cushion finisher B
23. Blower motor assembly
24. Seat cushion thermal electrical device (TED) assembly
25. Climate controlled seat control unit
26. Seat cushion finisher C
27. Seat harness assembly
28. Seat belt buckle
29. Seat cushion assembly

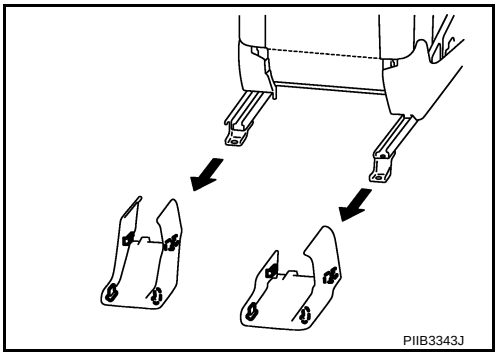
Removal and Installation

NIS0028G

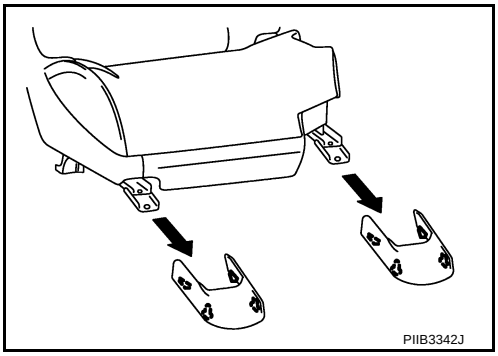
CAUTION:
When removing and installing, use shop cloths to protect parts from damage.

REMOVAL

1. Pull rear leg cover backward while opening outside to remove the rear leg cover.
2. Remove the mounting bolts on the back side of the front seat.


PIIB3343J

3. Pull rear leg cover forward while opening outside to remove the front leg cover.
4. Remove the mounting bolts on the front side of the front seat.

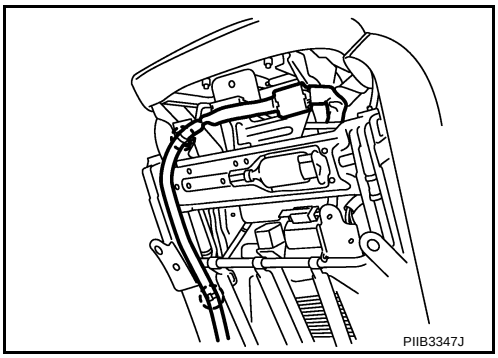

PIIB3342J

5. Disconnect harness connector under the seat and remove harness securing clips.
   CAUTION:
   Before removal, be sure to turn ignition switch OFF, disconnect both battery cables, and then wait for at least 3 minutes.
6. Set seatback in a standing position.
7. Remove the headrest.
8. Remove seat from the vehicle.
   CAUTION:
   When removing and installing, use shop cloths to protect parts from damage.

INSTALLATION

Install in the reverse order of removal. Be careful of the following two points.

- Before installation, be sure to turn ignition switch OFF, disconnect both battery cables, and then wait for at least 3 minutes.
- Clamp the harness in position.


PIIB3347J

Disassembly and Assembly

NIS0028H

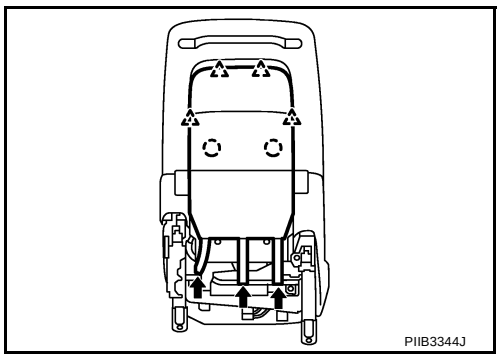
SEATBACK

Disassembly

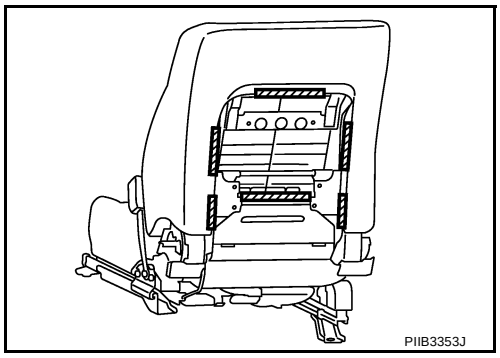
1. Remove seatback trim and seatback pad.

NOTE:
Seatback trim and seatback pad can be removed without removing seatback assembly from seat body.

- Remove the retainer from the lower side of seatback board.
- Disconnect the clips and pawls, and then remove the seatback board.
  △ : Pawl
  ◌ : Clip

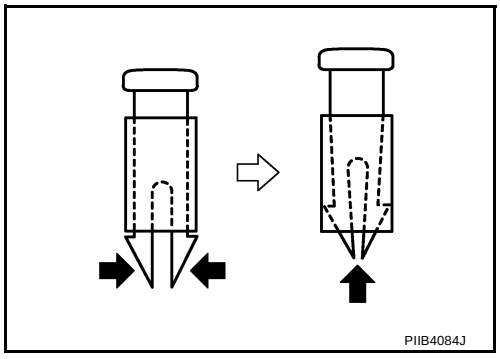

PIIB3344J

- Remove the seatback hinge mounting bolts.
- Remove the retainer on the back side of the seatback.

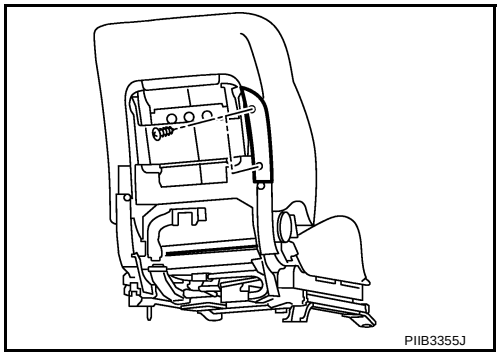

PIIB3353J

- Remove the seat speaker grills. (Applied 5.1 ch BOSE studio surround® system models.) Refer to AV-287, "Seat Speaker" .
- Remove the headrest holder.

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


PIIB4084J

- Disconnect the clip, and then remove the reclining device cover.
- Remove the screws, and then remove the seatback upper finisher.


PIIB3355J

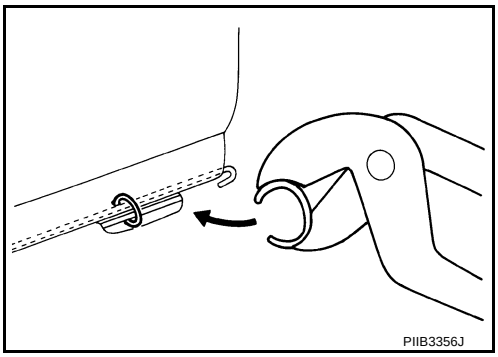
- Remove the bracket mounting nuts.
- Remove seatback trim and pad from seatback frame.
- Remove the hog rings to separate the trim and pad.

2. Remove seatback frame.
   - Remove seat speaker. (Applied 5.1 ch BOSE studio surround® system models) Refer to AV-287, "Seat Speaker" .
   - Remove the bands, and then remove seatback thermal electrical device (TED) assembly.
   - Remove the seat harness assembly from seatback assembly.
   - Remove the bolts, and then remove seatback frame from seat cushion frame.

Assembly

Assemble in the reverse order of disassembly. Be careful of the following one point.

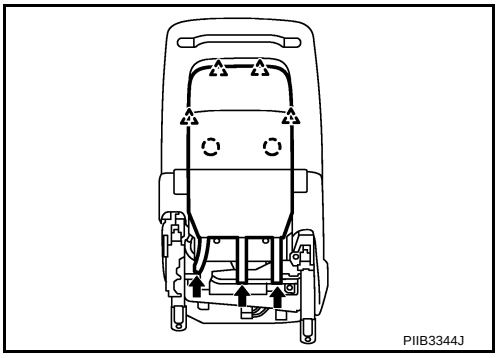
- Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim code with the pad side wire.



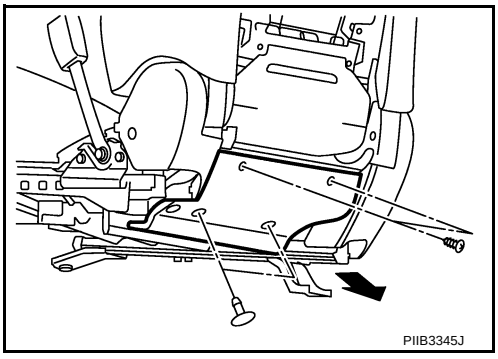
SEAT CUSHION

Disassembly

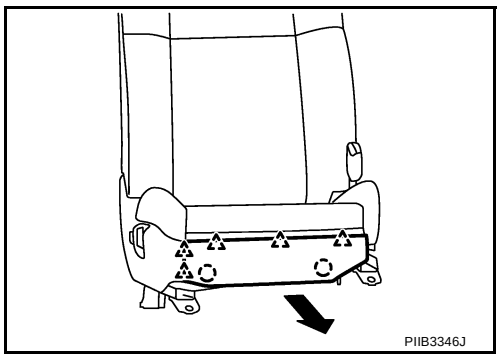
1. Remove the seatback trim and seatback pad.
   - Remove the retainer from the lower side of seatback board.
   - Disconnect the clip and pawl, and then remove seatback board.
     △ : Pawl
     ◌ : Clip



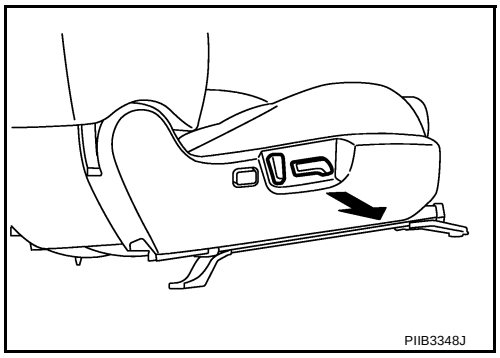
   - Remove the screws and disconnect the clips, and then remove the seat cushion rear finisher. (Climate controlled seat model)



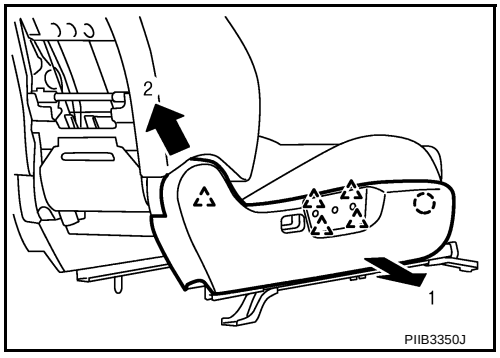
- Remove the seat cushion front finisher.
  : Pawl
  : Clip



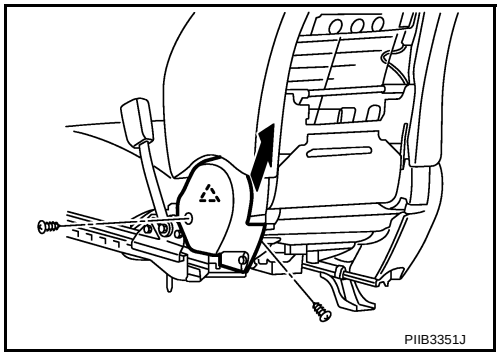
- Remove the seat reclining switch knob and seat slide switch knob.



- Pull seat cushion outer finisher forward, and then disconnect the pawls and clips.
  : Pawl
  : Clip
- Lift the rear part of the seat cushion outer finisher backward, and then remove the seat cushion outer finisher.



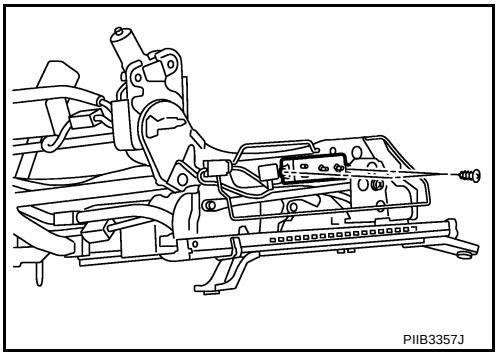
- Remove the harness connector clamp of lumber support switch.
- Removal the lumber support switch.
- Remove the seat cushion inner finisher.
  : Pawl



- Remove the retainers from the lower side of front seat. (Driver's seat only)
- Remove the hog rings to separate the trim and pad. (Driver's seat only)

2. Remove the nuts, and then remove the seat cushion frame. (Driver's seat only)
3. Remove each unit which is attached to seat cushion frame and seat adjuster assembly.
   - Remove the screws, and then remove the climate controlled seat control unit.
   - Remove the screws, and then remove the blower motor.
   - Remove the bands, and then remove the seat cushion thermal electrical device (TED) assembly.

- Remove driver's seat control unit. (Driver's seat only)
- Remove the driver seat control switch.

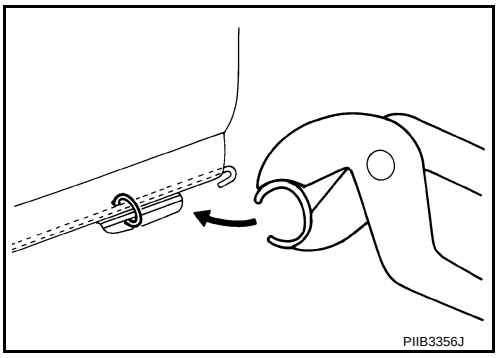

PIIB3357J

- Remove seat cushion finisher B and seat cushion finisher C.
- Remove seat harnesses.

Assembly

Assemble in the reverse order of disassembly. Be careful of the following two points.

- Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim code with the pad side wire.


PIIB3356J

- Clamp the harness in position.

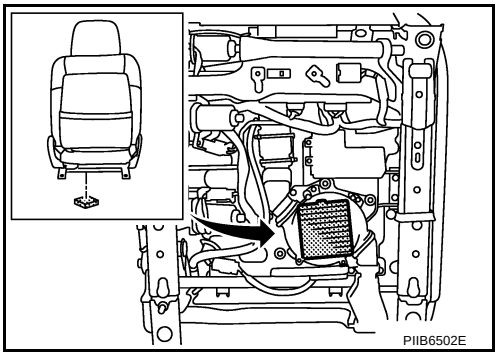
CLIMATE CONTROLLED SEAT

Blower Filter Replacement

Put your hand behind front seat cushion, pull filter downward and remove it. Replace filter with a new one.

NOTE:

- When replacing, be sure to set the front seat lifter to the top position.
- When installing, do not confuse up-down direction of the filter.


PIIB6502E

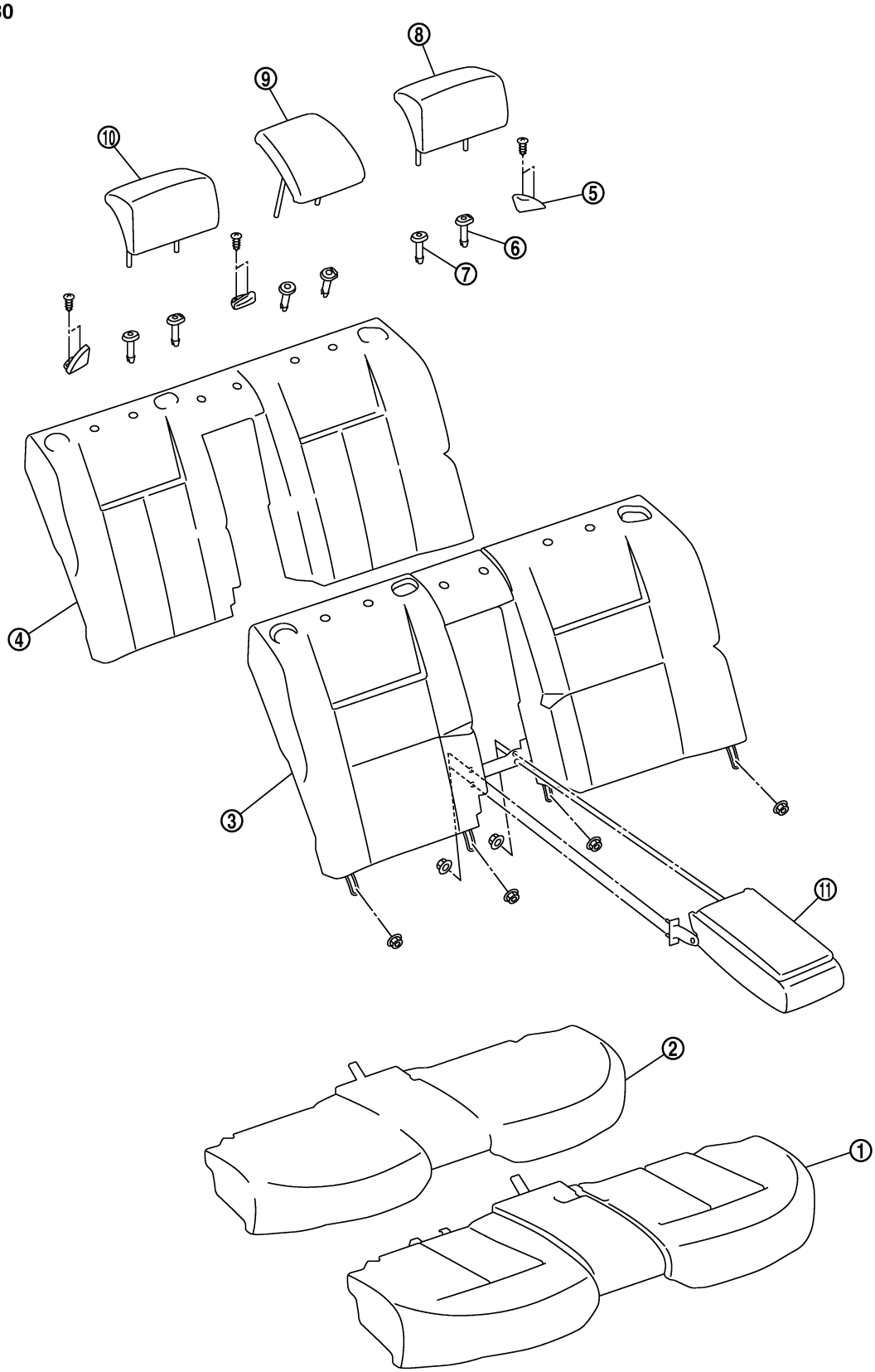
REAR SEAT

PFP:88300

Bench Seat Components

NIS0028I

SEC. 880



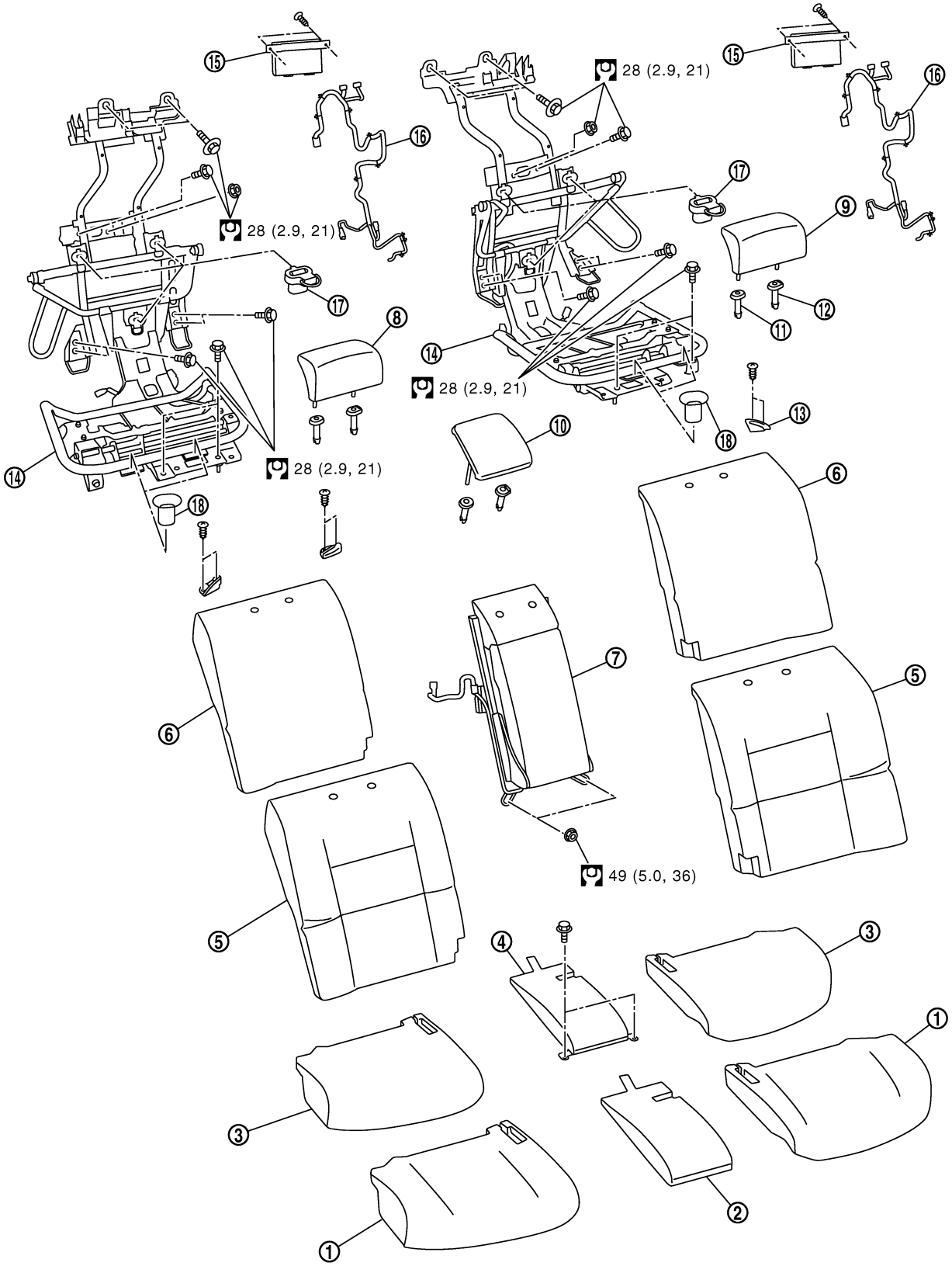
PIIB3362J

1. Seat cushion trim
2. Seat cushion pad
3. Seatback pad
4. Seatback trim
5. Seat belt guide
6. Headrest holder (locked)
7. Headrest holder (free)
8. Headrest (left)
9. Headrest (center)
10. Headrest (right)
11. Armrest

Power Seat (Split Type) Components

NIS0028J

SEC. 880



: N•m (kg-m, ft-lb)

PIIB3365J

1. Seat cushion side trim
2. Seat cushion center trim
3. Seat cushion side pad
4. Seat cushion center pad
5. Seatback trim
6. Seatback pad
7. Seatback center
8. Headrest (right)
9. Headrest (left)
10. Headrest (center)
11. Headrest holder (free)
12. Headrest holder (locked)
13. Seat belt guide
14. Rear seat frame
15. Rear seat control unit
16. Rear seat harness
17. Seatback hook
18. Seat cushion hook

Removal and Installation

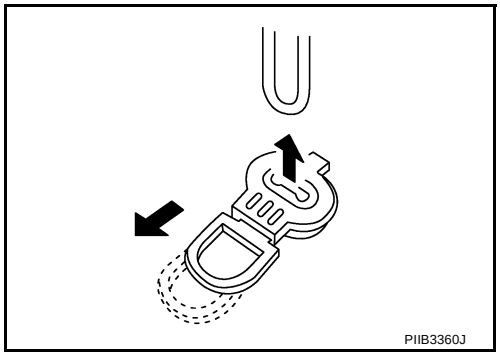
NIS0028K

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

BENCH SEAT

Removal

1. Remove seat cushion.
   - Pull the lock lever 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 seat cushion hook, then pull the seat cushion forward to remove.
   - Remove the seat cushion from the vehicle.
2. Remove seat back.
   - Remove the nuts under seatback.
   - Lift up seatback assembly from underneath, and then remove seatback assembly from seatback hook that is fixed to the vehicle.
   - Remove the headrest.
   - Remove the seatback from the vehicle.


PIIB3360J

Installation

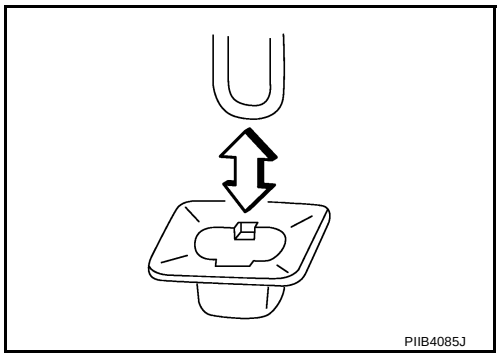
Install in the reverse order of removal. Be careful of the following one point.

- Securely engage the upper wire on the back side of seatback with seat hook.

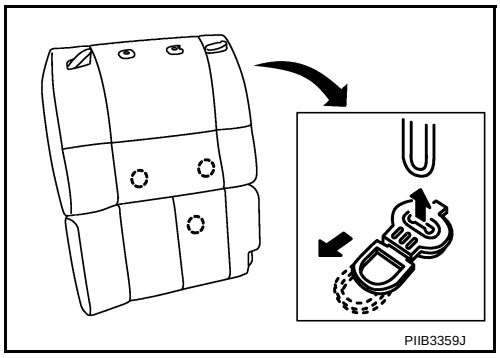
POWER SEAT

Removal

1. Remove seat cushion side.
   - Lift seat cushion side up, disengage the seat cushion hook, and then remove the seat cushion side.
   - Remove the seat cushion side from the vehicle.


PIIB4085J

2. Remove the seat cushion center.
   - Disconnect the harness connector.
   - Remove the bolts, and then remove the seat cushion center from the vehicle.
3. Remove seatback side.
   - Access to the back side of seatback side from the lower, and then pull the lock lever of seatback hook downward.
   - Pull seatback side, and then remove seatback side from the seatback hook.
     (◌): Seatback hook


PIIB3359J

   - Lift up seatback side from underneath, and then remove seatback side from seatback hook.

- Disconnect the harness connector.
- Remove the headrest.
- Remove the seatback side from the vehicle.

4. Remove seatback center.
   - Disconnect the harness connector.
   - Remove the seatback center mounting bolts and nuts.
   - Remove the seatback center from the vehicle.
5. Remove the rear seat frame.
   - Disconnect the harness connector.
   - Remove the bolts and nuts, and then remove the rear seat frame.

Installation

Install in the reverse order of removal.

Disassembly and Assembly

NIS0028L

BENCH SEAT

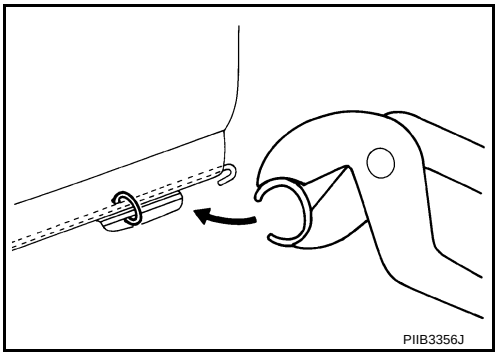
Disassembly of Seat Cushion

Remove the hog rings to separate the trim and pad.

Assembly of Seat Cushion

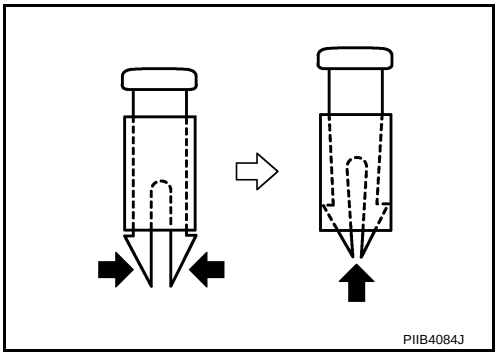
Assemble in the reverse order of disassembly. Be careful of the following one point.

- Install hog rings of seat cushion trim in position, and then securely connect the trim or trim code with the pad side wire.


PIIB3356J

Disassembly of Seatback

1. Remove the headrest holder.

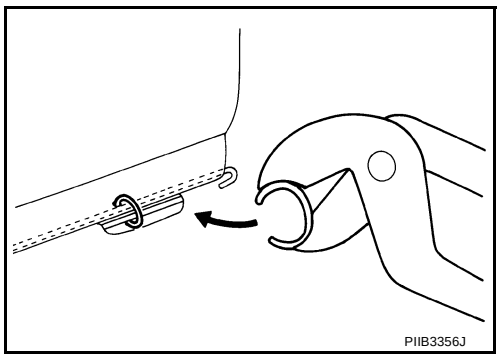

PIIB4084J

2. Remove the seat belt guide.
3. Remove the hog rings to separate the trim and pad.

Assembly of Seatback

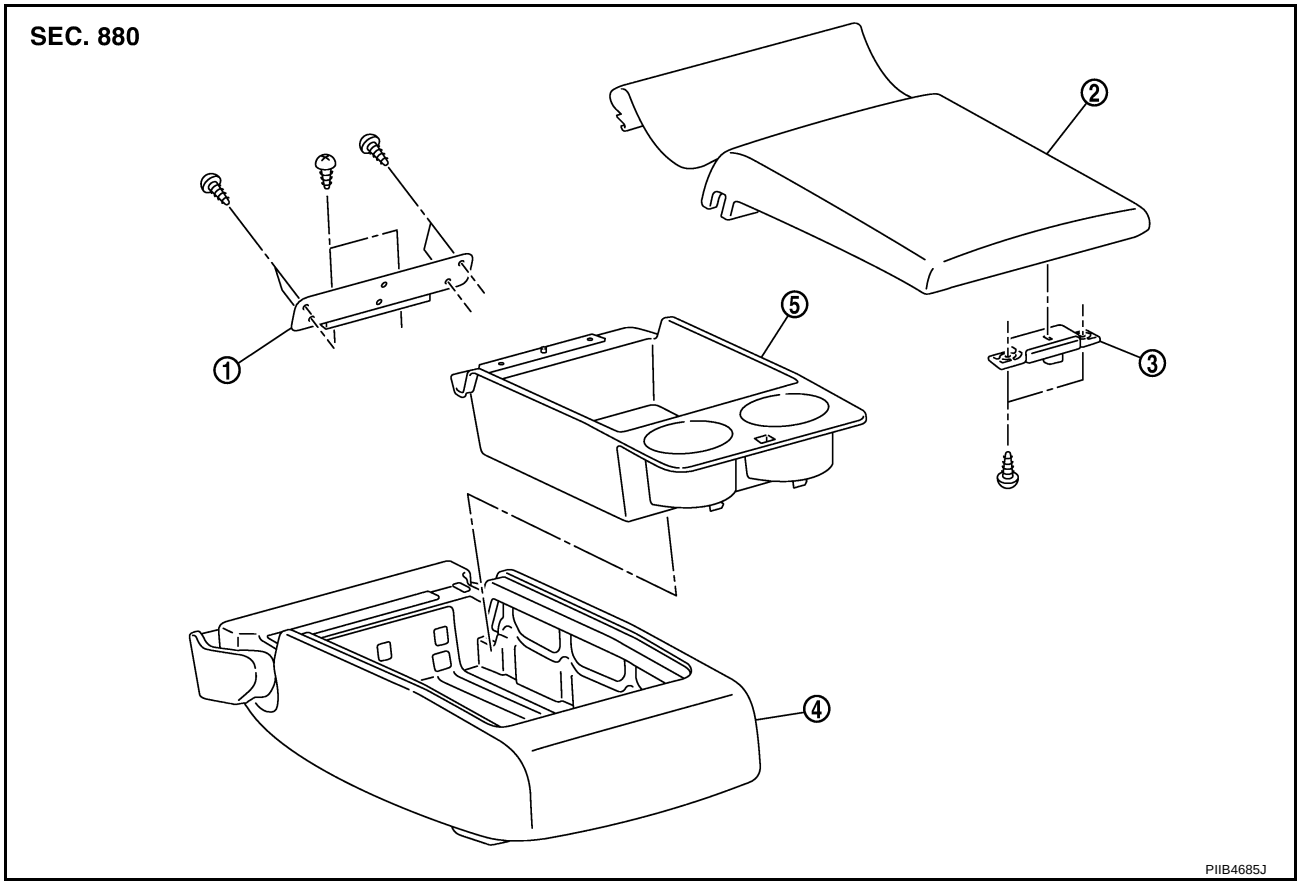
Assemble in the reverse order of disassembly. Be careful of the following one point.

- Install hog rings of seat cushion trim in position, and then securely connect the trim or trim code with the pad side wire.



Disassembly of Armrest

1. Remove the armrest from seatback.
   - Remove the retainer from the side of armrest lid in the back.
   - Remove the armrest mounting nuts on the back of seatback.
2. Disassemble the armrest.



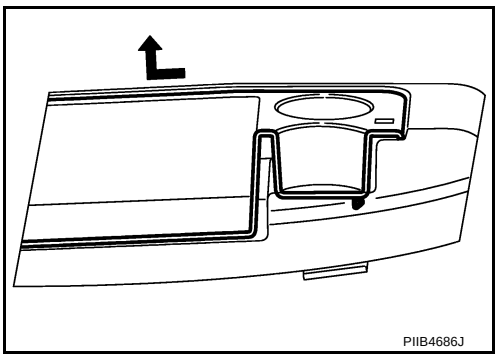
1. Armrest lid hinge
2. Armrest lid
3. Armrest lock assembly
4. Armrest assembly
5. Rear seat box

   - Remove the screws, and then remove armrest lid hinge.
   - Remove the armrest lid.
   - Remove screws, and then remove the armrest lock assembly from the armrest lid.

- Pull the rear seat box rearward and lift up, and then remove rear seat box from the armrest assembly.

CAUTION:

- **When removing, check that front tab is not damaged.**
- **If the tab is damaged when removing the rear seat box, replace rear seat box with a new one.**



Assembly of Armrest

Assemble in the reverse order of disassembly.

POWER SEAT

Disassembly of Seat Cushion

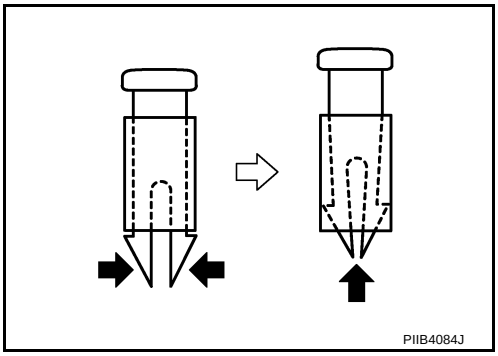
Remove the hog rings to separate the trim and pad.

Assembly of Seat Cushion

Assemble in the reverse order of disassembly.

Disassembly of Seatback

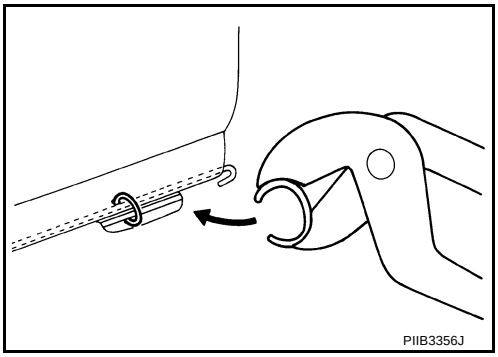
1. Remove the headrest holder.
2. Remove the seat belt guide.
3. Remove the hog rings to separate the trim and pad.



Assembly of Seatback

Assemble in the reverse order of disassembly. Be careful of the following one point.

- Install hog rings of seat cushion trim in position, and then securely connect the trim or trim code with the pad side wire.



Disassembly of Seat Frame

1. Disconnect the harness connectors, remove the screws,and then remove the rear seat control unit.
2. Remove the seatback hook and seat cushion hook.

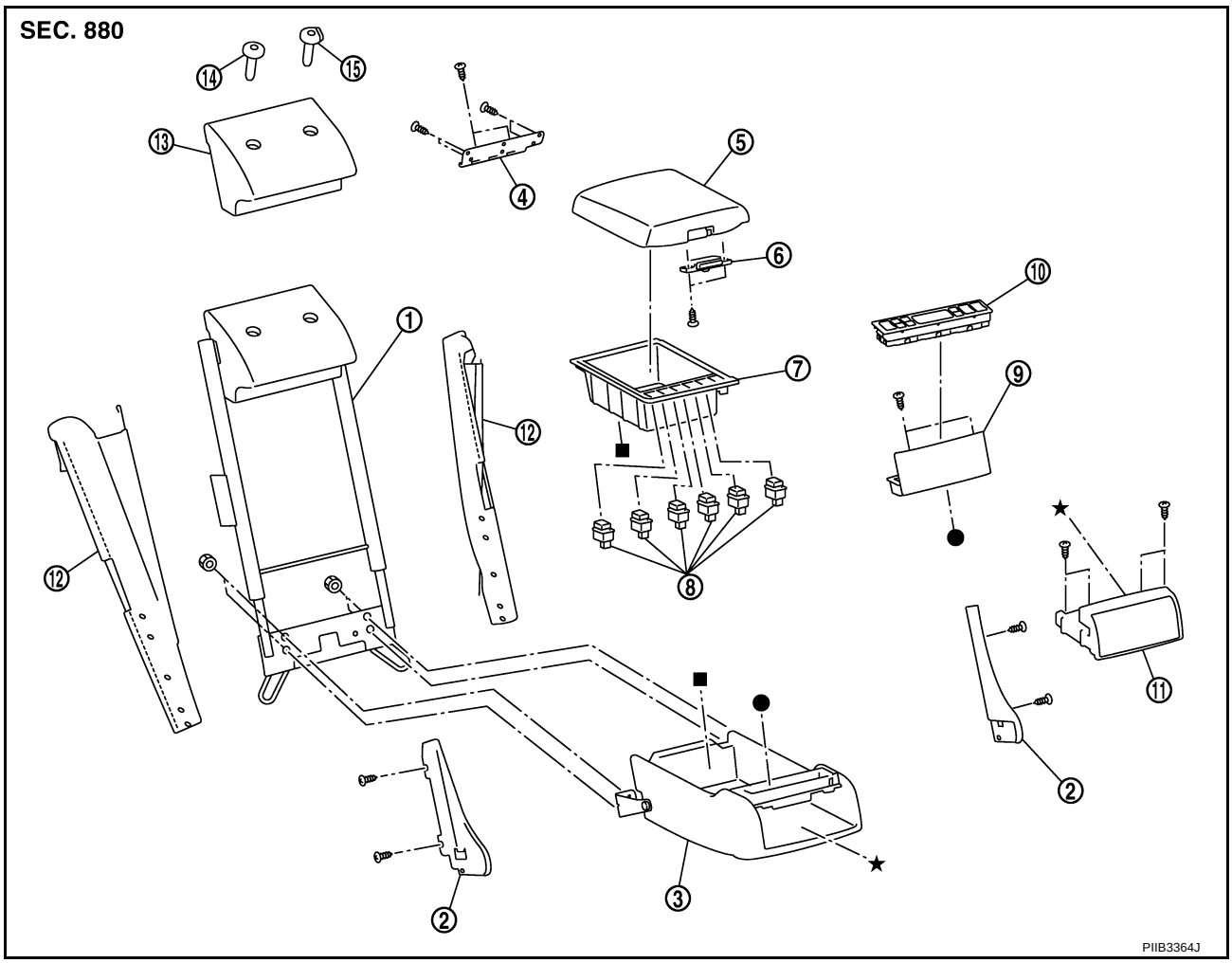
Assembly of Seat Frame

Assemble in the reverse order of removal.

Disassembly of Armrest

1. Remove the armrest from seatback center.
   - Remove the retainer from the side of armrest lid in the back.
   - Remove the armrest mounting nuts on the back of seatback.

2. Disassemble the armrest.



1. Seatback center	2. Armrest hinge cover	3. Armrest assembly
4. Armrest lid hinge	5. Armrest lid	6. Armrest lid lock assembly
7. Rear seat box	8. Switch	9. A/C box assembly
10. Rear seat control	11. Cup holder	12. Seatback center side trim
13. Seatback center trim	14. Headrest holder (free)	15. Headrest holder (locked)

- Remove the screws, and then remove the armrest hinge cover.
- Remove the screws, and then remove the armrest lid hinge.
- Remove the armrest lid.
- Remove the screws, and then remove the armrest lid lock assembly from the armrest lid.
- Remove the rear seat box.
- Remove all switches from the rear seat box.
- Remove the screws, and then remove the A/C box assembly.
- Remove the screws, and then remove the cup holder.
- Remove the hog rings, and then remove the seat back center side trim.
- Remove the headrest holder, and then remove the seatback center trim.

Assembly of Armrest

Assemble in the reverse order of removal.