SECTION SE
SEAT

CONTENTS

PRECAUTIONS

PFP:00001

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

EIS002XX

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.**

Precautions for Work

EIS002XY

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

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

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

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

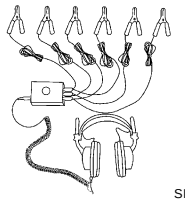
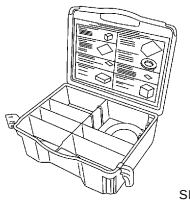
PREPARATION

PFP:00002

Special Service Tool

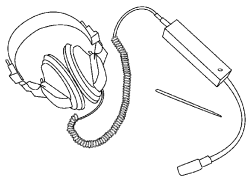
EIS002XZ

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

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

Commercial Service Tool

EIS002Y0

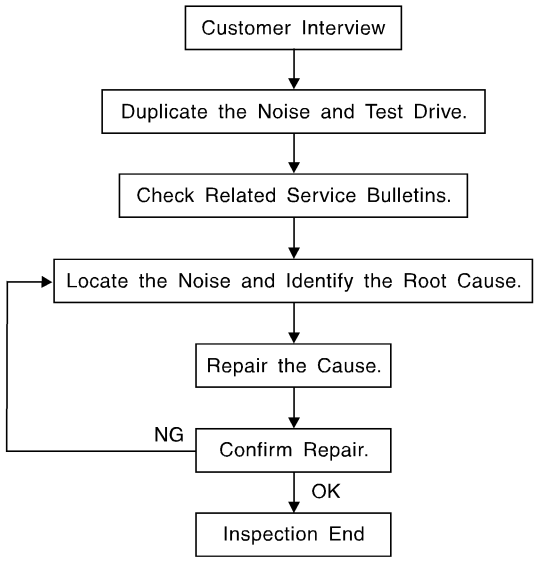
Tool name	Description
(J-39565) Engine ear  SIIA0995E	Locating the noise

SQUEAK AND RATTLE TROUBLE DIAGNOSES

PFP:00000

Work Flow

EIS002Y1



SBT842

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

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

CHECK RELATED SERVICE BULLETINS

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area.To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- removing the components in the area that you suspect the noise is coming from.
  Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
- tapping or pushing/pulling the component that you suspect is causing the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks.
  Refer to SE-7, "Generic Squeak and Rattle Troubleshooting" .

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:

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

CAUTION:
Do not use excessive force as many components are constructed of plastic and may be damaged.
Always check with the Parts Department for the latest parts information.
The following materials are contained in the NISSAN Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100×135 mm (3.94×5.31 in)/76884-71L01: 60×85 mm (2.36×3.35 in)/76884-71L02: 15×25 mm (0.59×0.98 in)
INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97×1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97×1.97 in)
INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18×1.97 in)
FELT CLOTH TAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15×25 mm (0.59×0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll. The following materials, not found in the kit can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that will be visible or not fit.
Note: Will only last a few months.
SILICONE SPRAY
Use when grease cannot be applied.
DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

EIS002Y2

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 silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

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

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
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 bumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

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

SUNROOF/HEADLINER

Noises in the sunroof/headliner 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 headliner and squeaking

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

OVERHEAD CONSOLE (FRONT AND REAR)

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

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

SEATS

When isolating seat noise it is 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

EIS002Y3

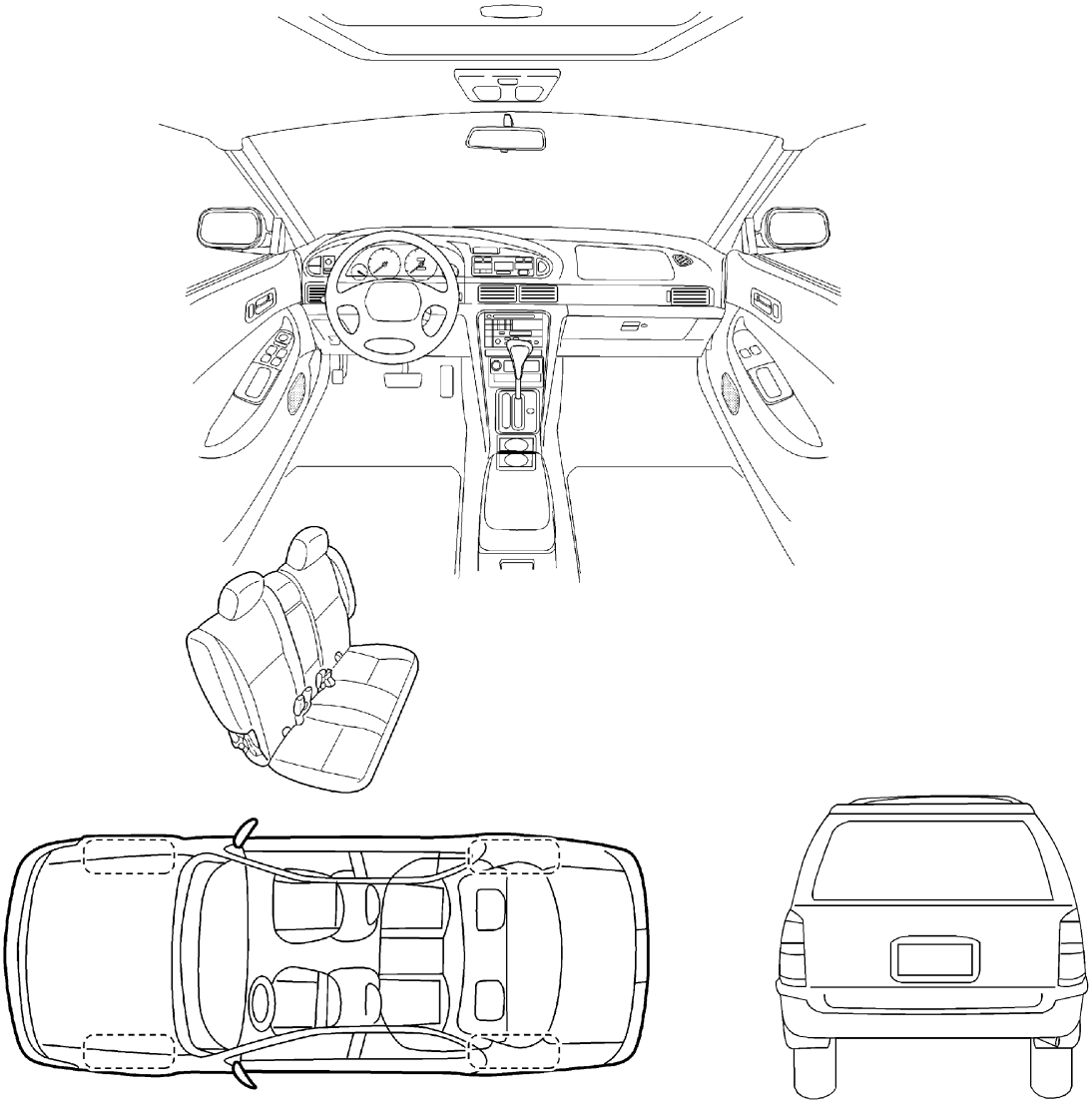
INFINITI

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: _____

SBT844

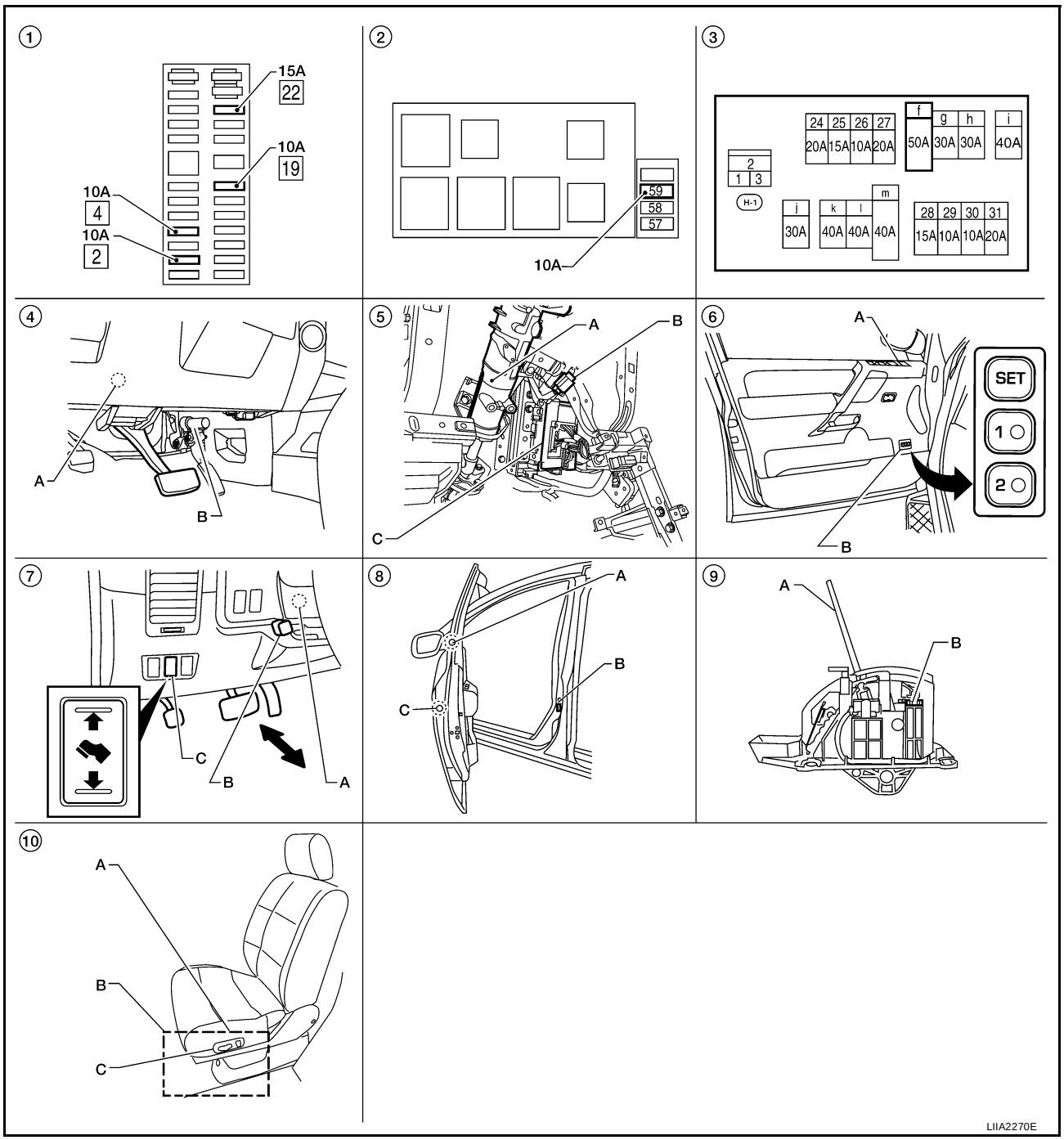
This form must be attached to Work Order

AUTOMATIC DRIVE POSITIONER

PFP:28491

Component Parts And Harness Connector Location

EIS002Y7



1. Fuse block (J/B)
2. Fuse and relay box
3. Fuse and fusible link box
4. A. Automatic drive positioner control unit M33, M34
   B. Pedal adjusting motor E109, E110
5. A. Steering column (View with instrument panel removed)
   B. Key switch and key lock solenoid M27
   C. BCM M18, M19, M20
6. A. Door mirror remote control switch D10
   B. Seat memory switch D5

7. A. Tilt motor M68, M69
   B. ADP steering switch M16
   C. Pedal adjusting switch M96
8. A. Door mirrror LH D4, Door mirror RH D107
   B. Front door switch LH B8
   C. Front door lock assembly LH (key cylinder switch) D14
9. A. A/T selector lever
   B. A/T device M203
10. A. Sliding motor LH P4 (Driver seat view), reclining motor LH P5, lifting motor (front) P6, lifting motor (rear) P7
    B. Driver seat control unit P2, P3
    C. Power seat switch LH P8

Manual Operation

EIS002Y4

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

NOTE:

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

Automatic Operation

EIS002Y5

Function		Description
Memory operation		The seat, steering wheel, pedal (accelerator, brake) 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 raises. (Exiting position)
	Entry operation	At entry, the seat and steering wheel return from Exiting position to the previous driving position before the Exiting operation.
Keyfob interlock operation		Perform memory operation, turnout operation and return operation by pressing keyfob unlock button.

NOTE:

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

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

NOTE:

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

System Description

EIS002Y6

- The system automatically moves the driver seat and steering wheel to facilitate entry/exit to/from the vehicle. The driver seat control unit can also store the optimum driving positions (front seat, pedal position and door mirror position) for 2 people. One-touch operation allows changing between driving positions.

- The settings (ON/OFF) of the automatic sliding seat (Entry/Exiting operation) at entry/exit can be changed as desired, using the display unit in the center of the instrument panel. The set content is transmitted by CAN communication, from display control unit to driver seat control unit.
- Using CONSULT-II, the seat slide amount at entry/exit setting can be changed.

FAIL-SAFE MODE

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

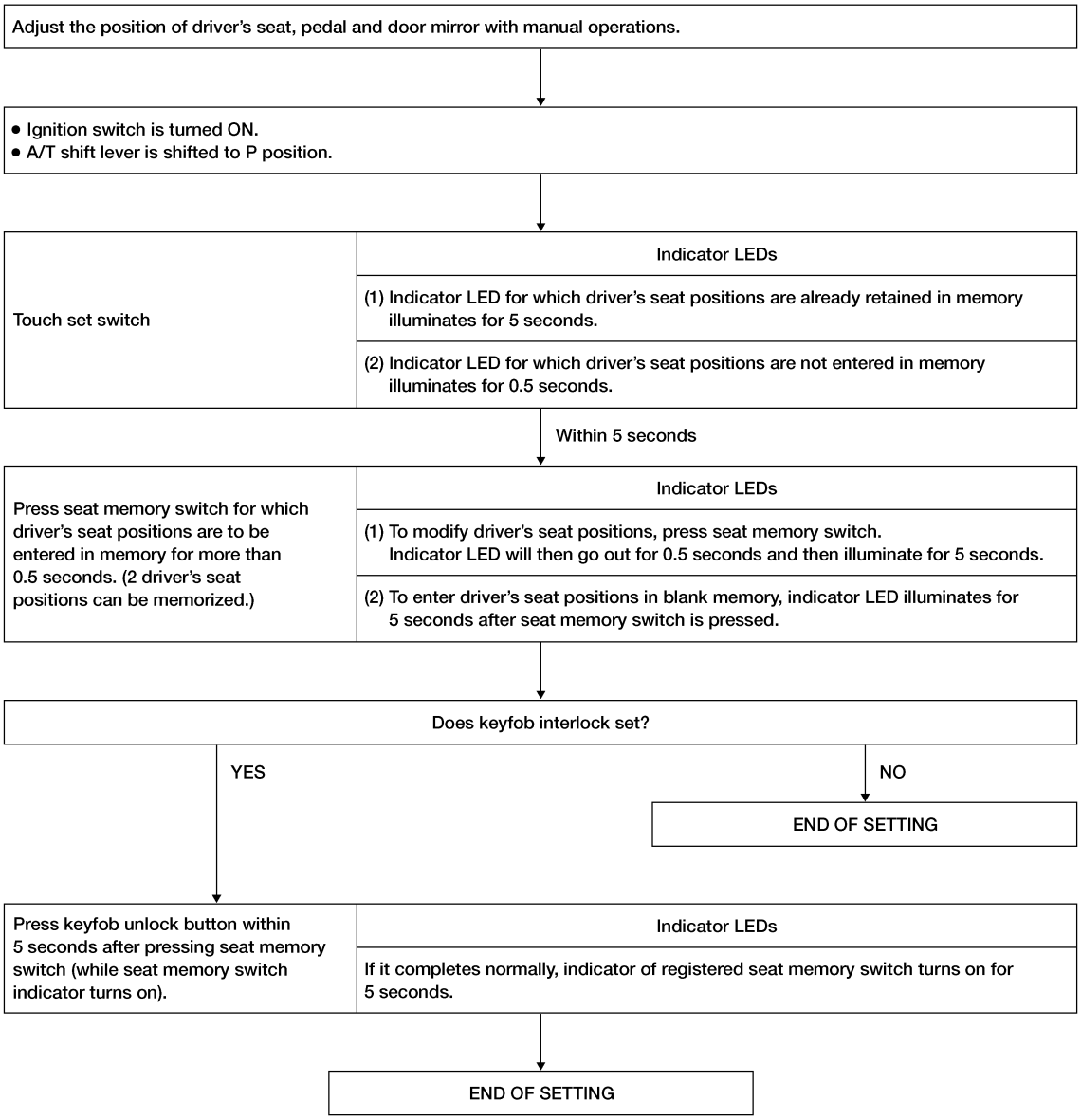
OPERATED PORTION	T2
Seat sliding	Approx. 0.1 sec.
Seat reclining	Same as above
Seat lifting (Front)	Same as above
Seat lifting (Rear)	Same as above
Steering wheel	Same as above
Pedal adjust	Same as above

CANCEL OF FAIL-SAFE MODE

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

MEMORY STORING AND KEYFOB INTERLOCK STORING

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



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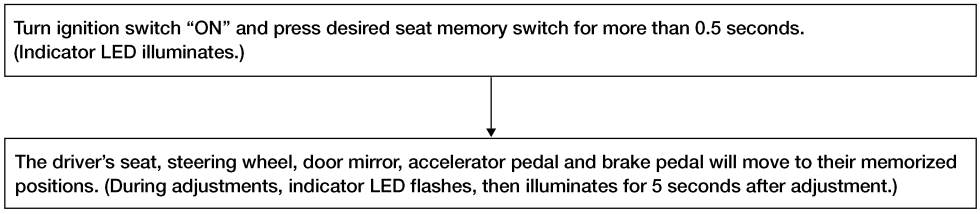
NOTE:

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

MEMORY OPERATION

Selecting the memorized position.



LIIA1477E

NOTE:

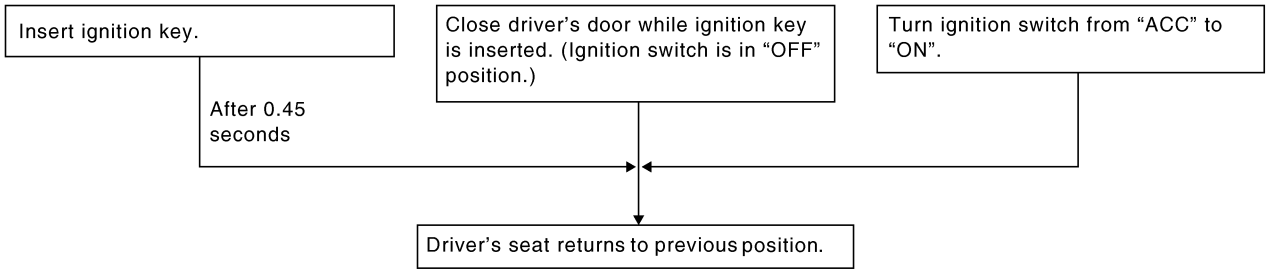
The front seat position and pedal adjustment functions (see the following table) operate simultaneously in the order of priority.

Priority	Function	Priority	Function
1	Seat sliding, (door mirror LH/RH)*	4	Seat reclining
2	Pedal	5	Seat lifter-FR
3	Steering wheel	6	Seat lifter-RR

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

ENTRY OPERATION

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



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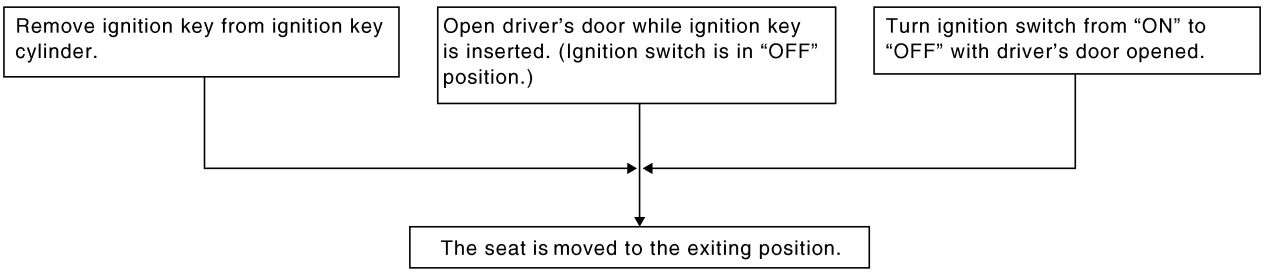
EXITING OPERATION

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



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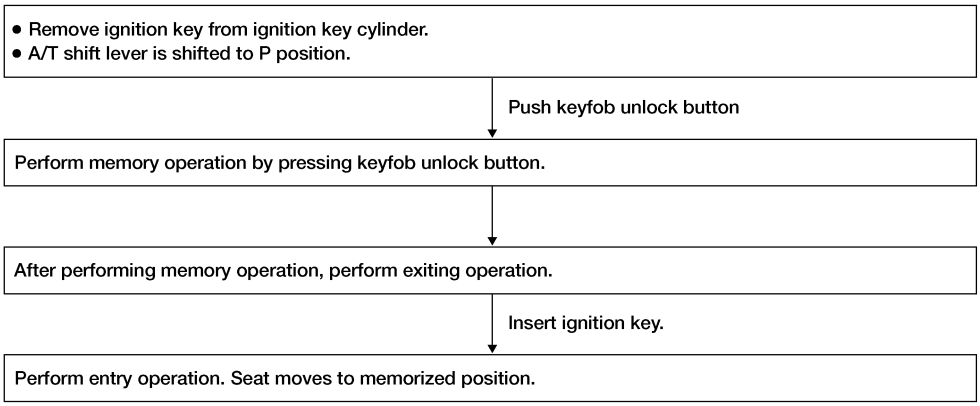
KEYFOB INTERLOCK OPERATION

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



LIIA1667E

NOTE:

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

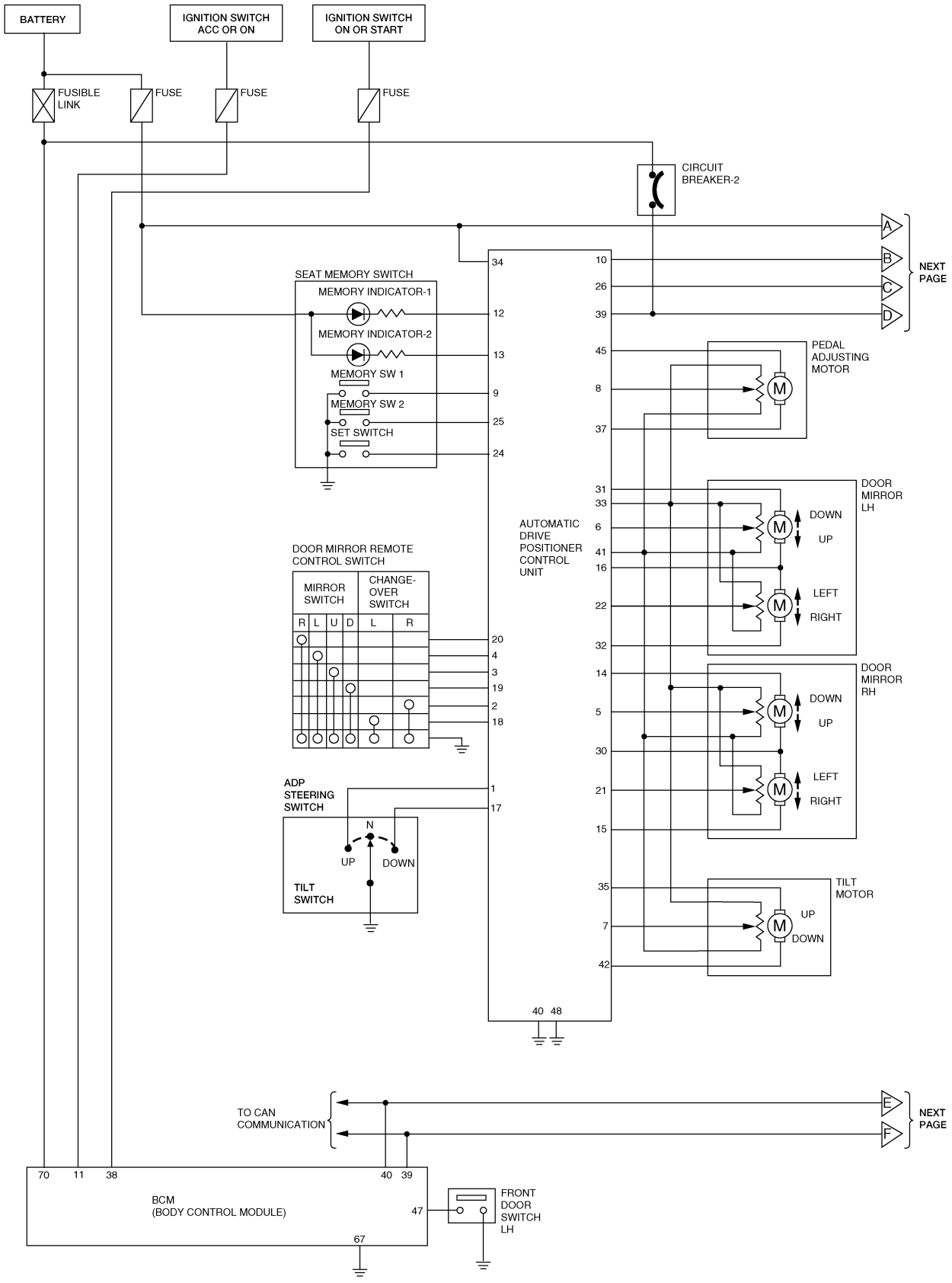
CAN Communication System Description

EIS002Y8

Refer to LAN-5, "CAN COMMUNICATION" .

Schematic

EIS002Y9



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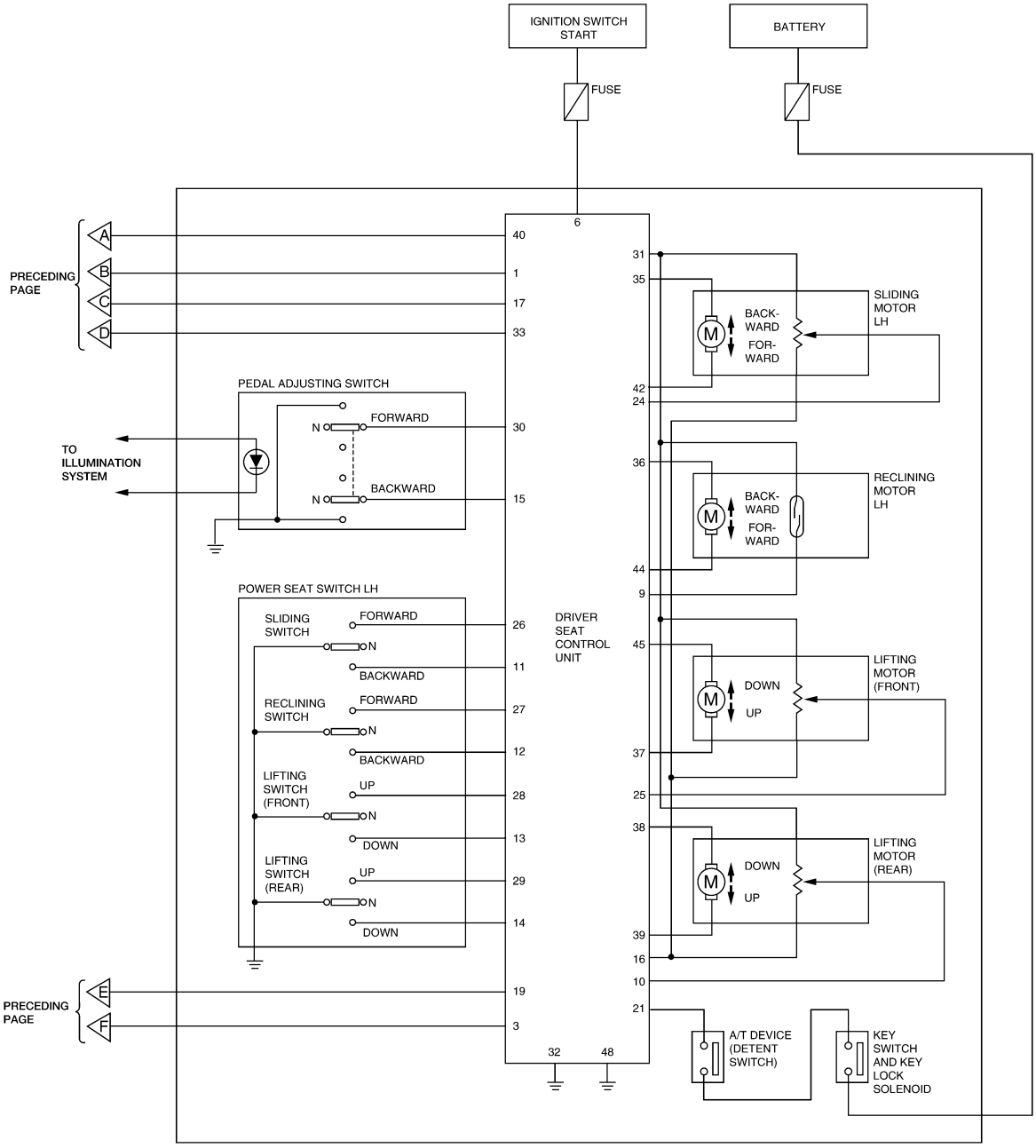
IGNITION SWITCH START
BATTERY
FUSE
FUSE
6
PRECEDING PAGE
A
B
C
D
40
1
17
33
PEDAL ADJUSTING SWITCH
FORWARD
BACKWARD
TO ILLUMINATION SYSTEM
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15
POWER SEAT SWITCH LH
SLIDING SWITCH
RECLINING SWITCH
LIFTING SWITCH (FRONT)
LIFTING SWITCH (REAR)
FORWARD
BACKWARD
UP
DOWN
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DRIVER SEAT CONTROL UNIT
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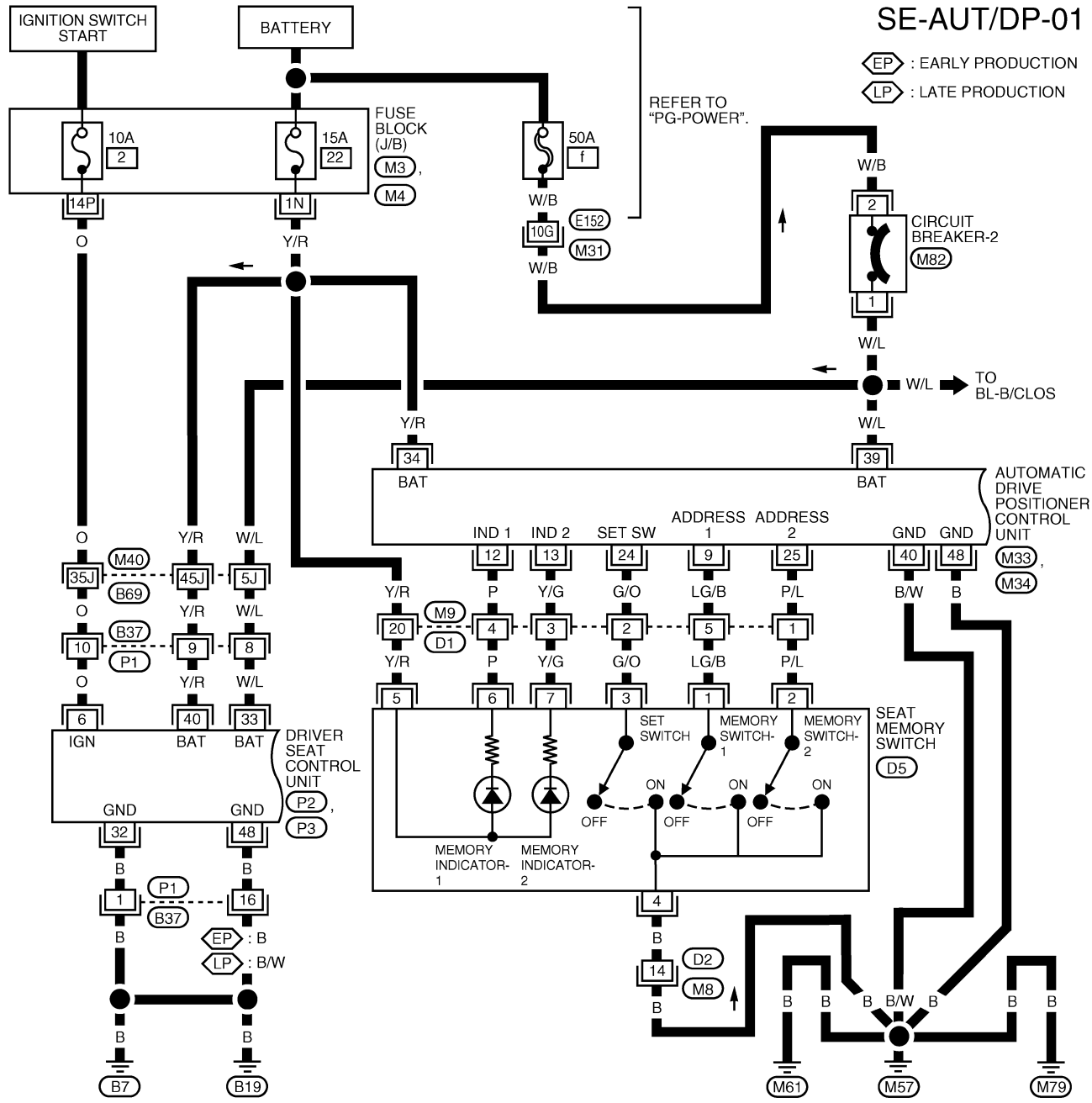
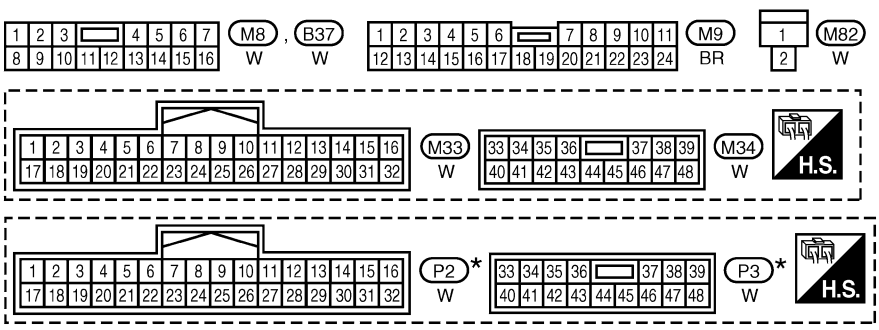
SLIDING MOTOR LH
BACK-WARD
FOR-WARD
RECLINING MOTOR LH
LIFTING MOTOR (FRONT)
LIFTING MOTOR (REAR)
DOWN
UP
M
PRECEDING PAGE
E
F
19
3
32
48
A/T DEVICE (DETENT SWITCH)
KEY SWITCH AND KEY LOCK SOLENOID

WIWA0576E

Wiring Diagram — AUT/DP —

EIS002YA



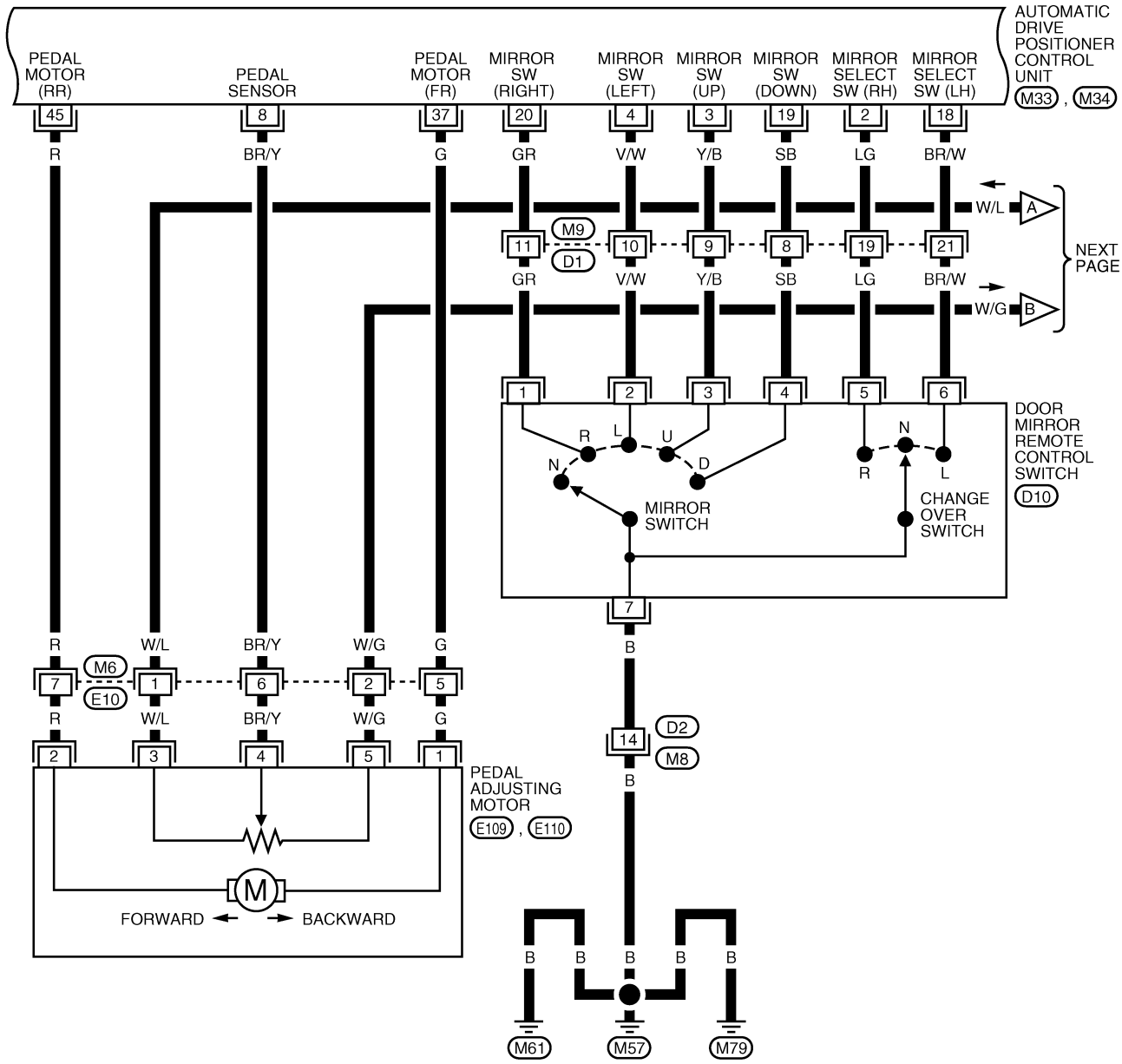


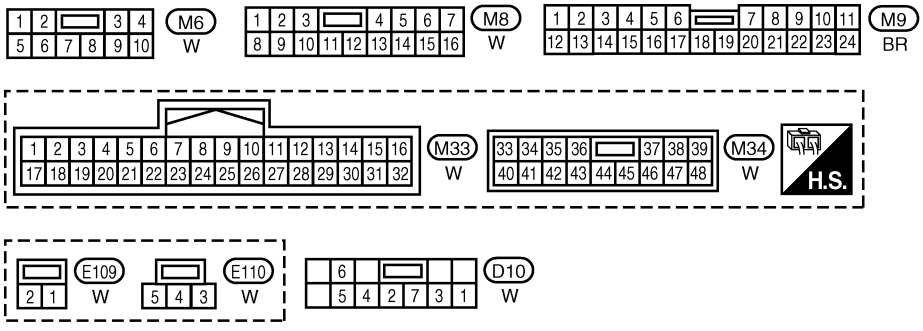
REFER TO THE FOLLOWING.
M3, M4 - FUSE BLOCK J/B
M31, M40 - SUPER MULTIPLE JUNCTION (SMJ)

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

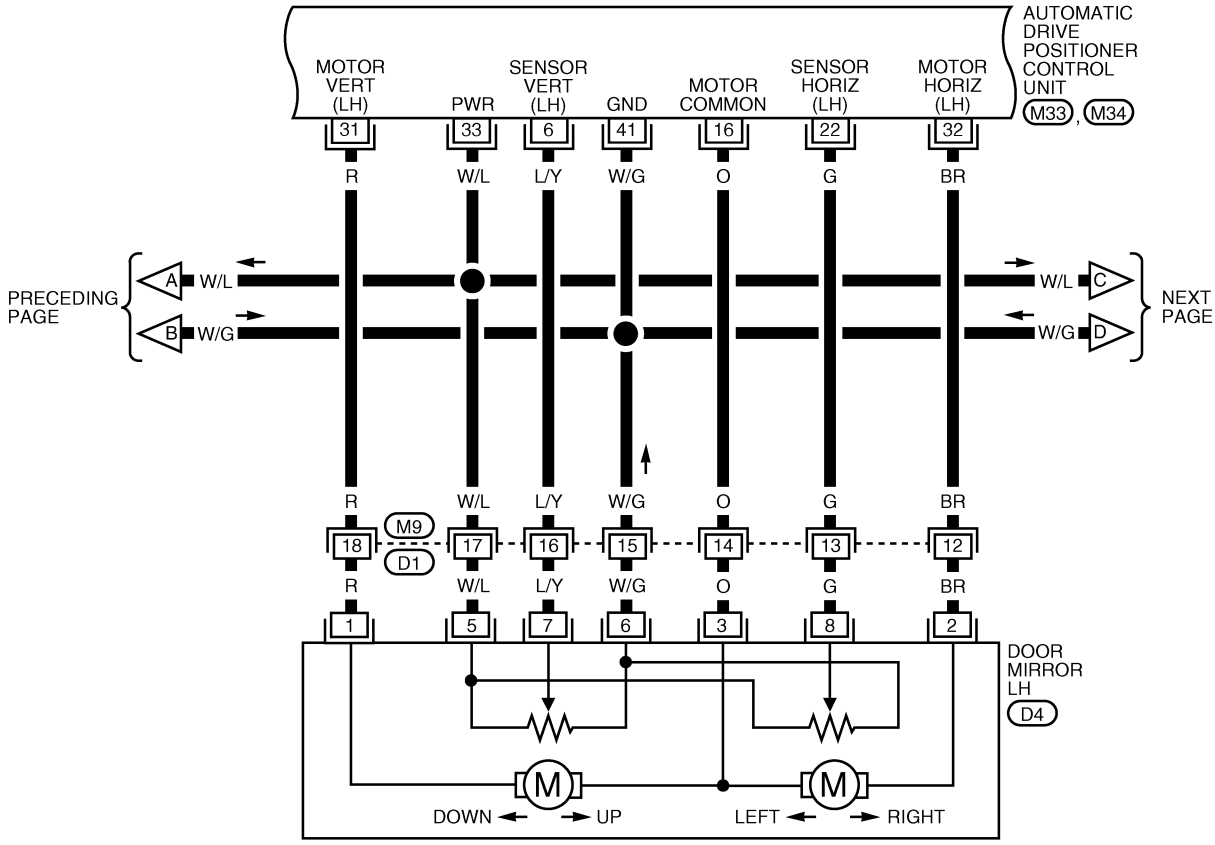
WIWA1102E

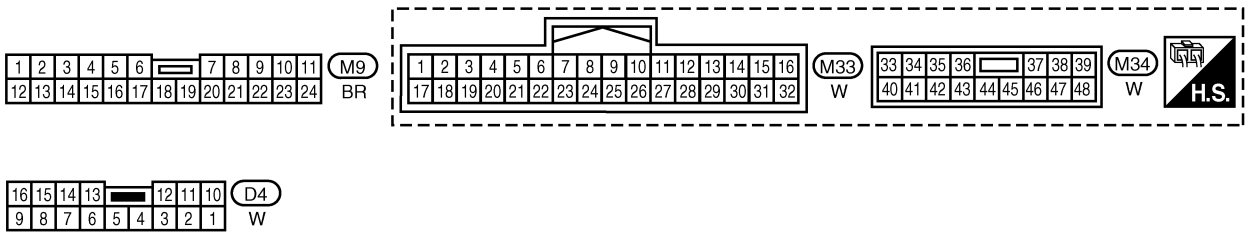
SE-AUT/DP-02



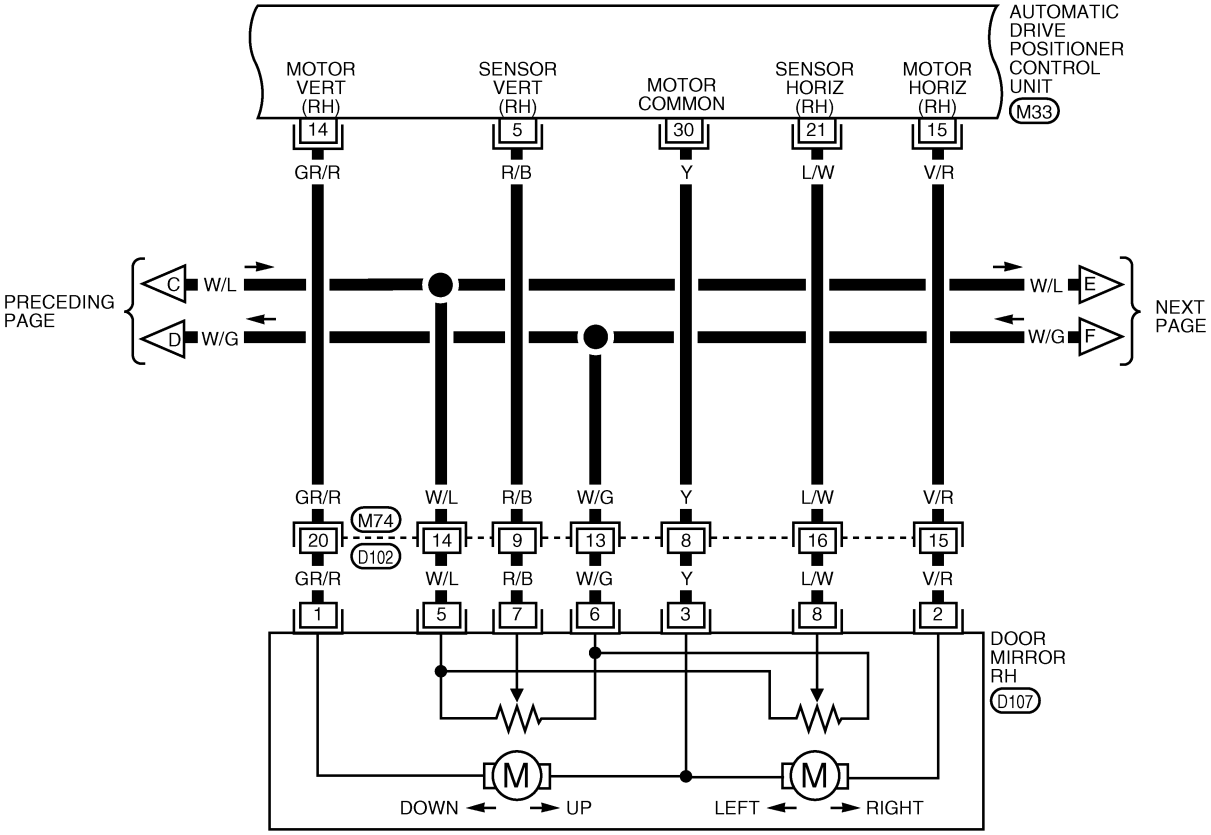


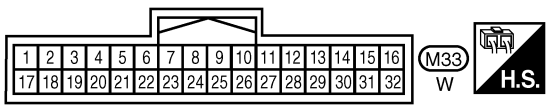
WIWA1103E

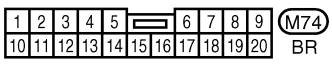

AUTOMATIC DRIVE POSITIONER CONTROL UNIT
M33, M34
MOTOR VERT (LH)
PWR
SENSOR VERT (LH)
GND
MOTOR COMMON
SENSOR HORIZ (LH)
MOTOR HORIZ (LH)
31
33
6
41
16
22
32
R
W/L
L/Y
W/G
O
G
BR
PRECEDING PAGE
A
W/L
B
W/G
W/L
C
W/G
D
NEXT PAGE
M9
D1
18
17
16
15
14
13
12
1
5
7
6
3
8
2
DOOR MIRROR LH
D4
M
DOWN
UP
LEFT
RIGHT

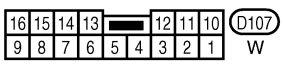

M9
BR
M33
W
M34
W
H.S.
D4
W

WIWA1104E


AUTOMATIC DRIVE POSITIONER CONTROL UNIT
M33
MOTOR VERT (RH)
SENSOR VERT (RH)
MOTOR COMMON
SENSOR HORIZ (RH)
MOTOR HORIZ (RH)
14
5
30
21
15
GR/R
R/B
Y
L/W
V/R
PRECEDING PAGE
C
W/L
D
W/G
E
W/L
F
W/G
NEXT PAGE
GR/R
W/L
R/B
W/G
Y
L/W
V/R
M74
D102
20
14
9
13
8
16
15
GR/R
W/L
R/B
W/G
Y
L/W
V/R
1
5
7
6
3
8
2
DOOR MIRROR RH
D107
M
M
DOWN
UP
LEFT
RIGHT

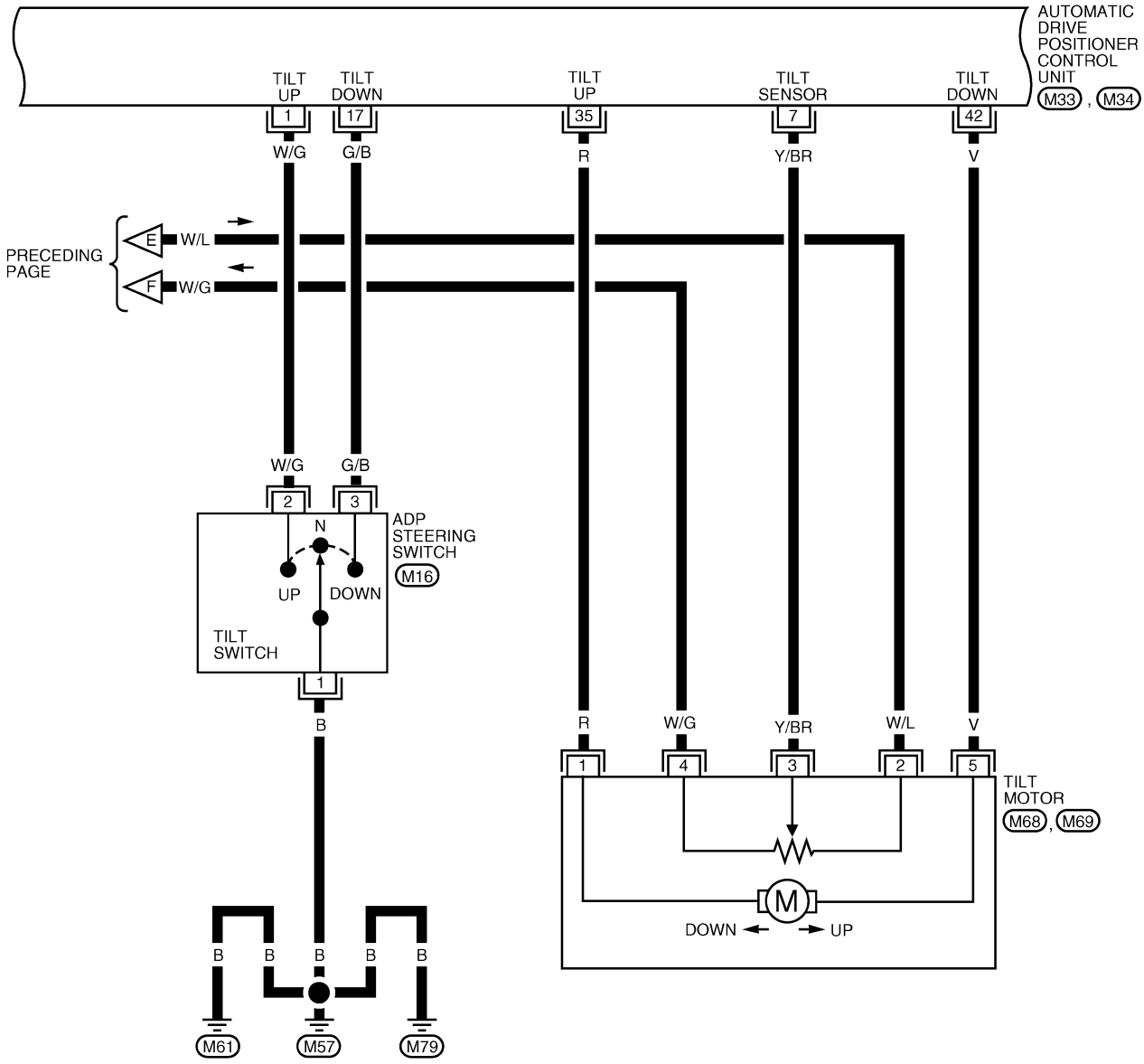

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
M33
W
H.S.

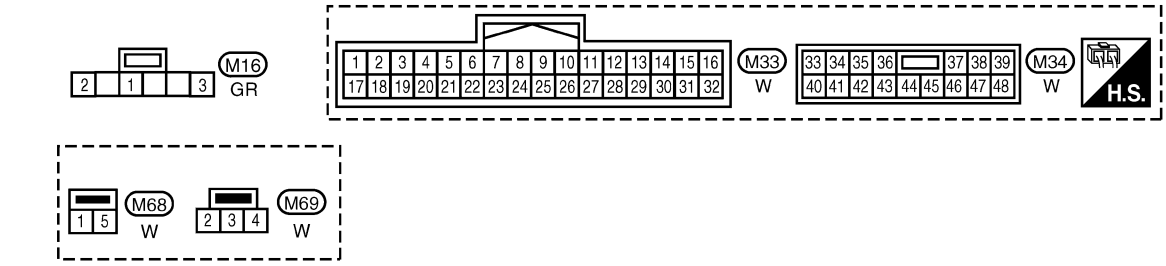

1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19 20
M74
BR


16 15 14 13 12 11 10
9 8 7 6 5 4 3 2 1
D107
W

WIWA1105E

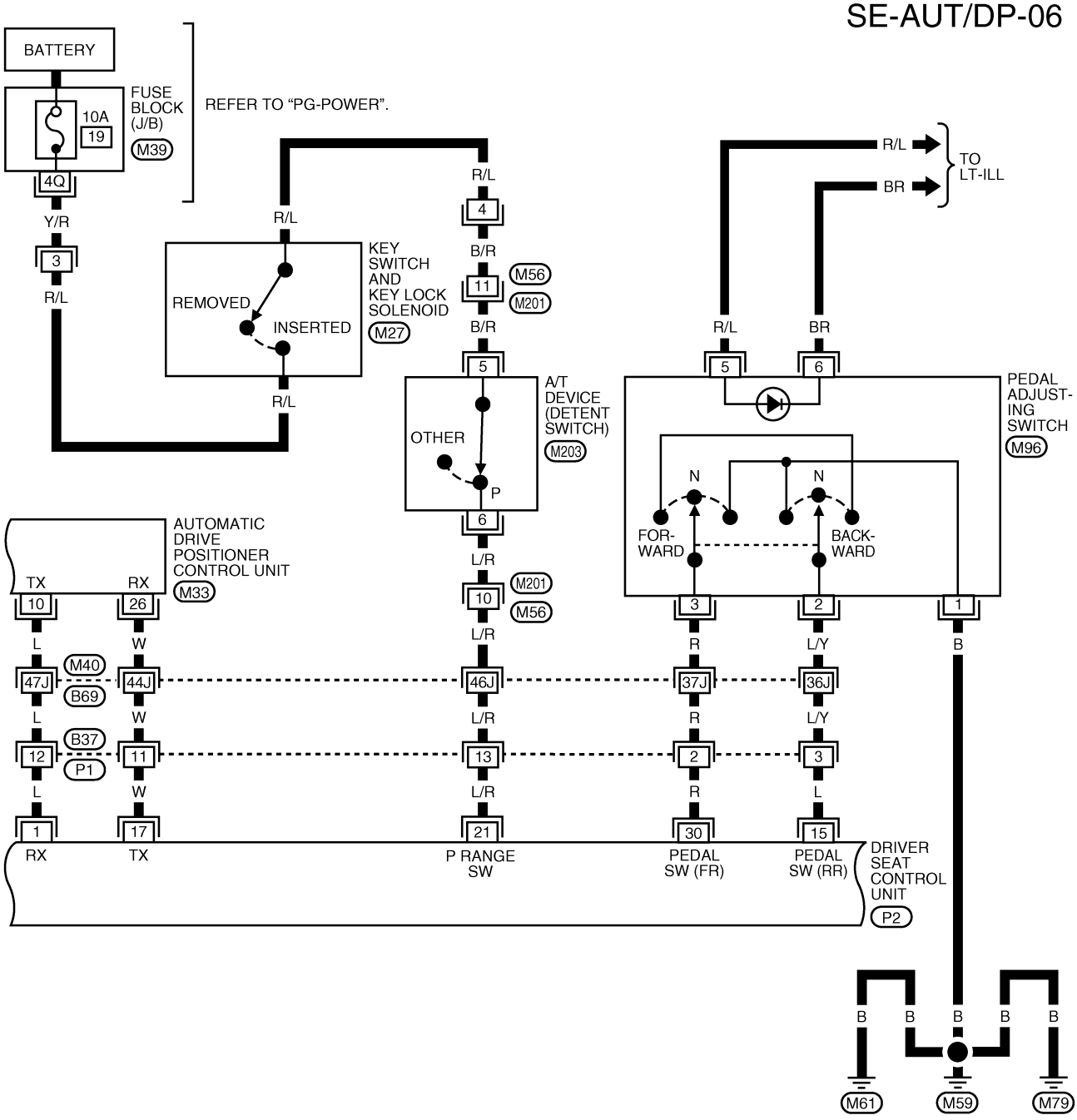
SE-AUT/DP-05

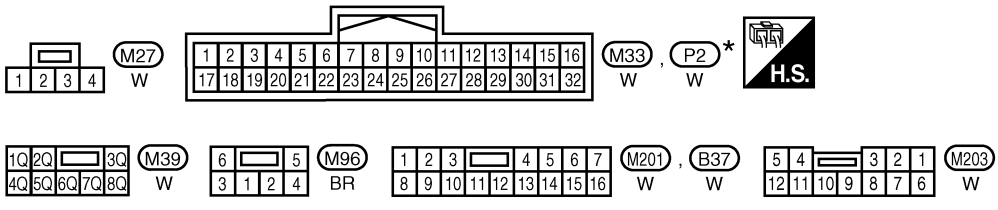




LIWA0438E

SE-AUT/DP-06

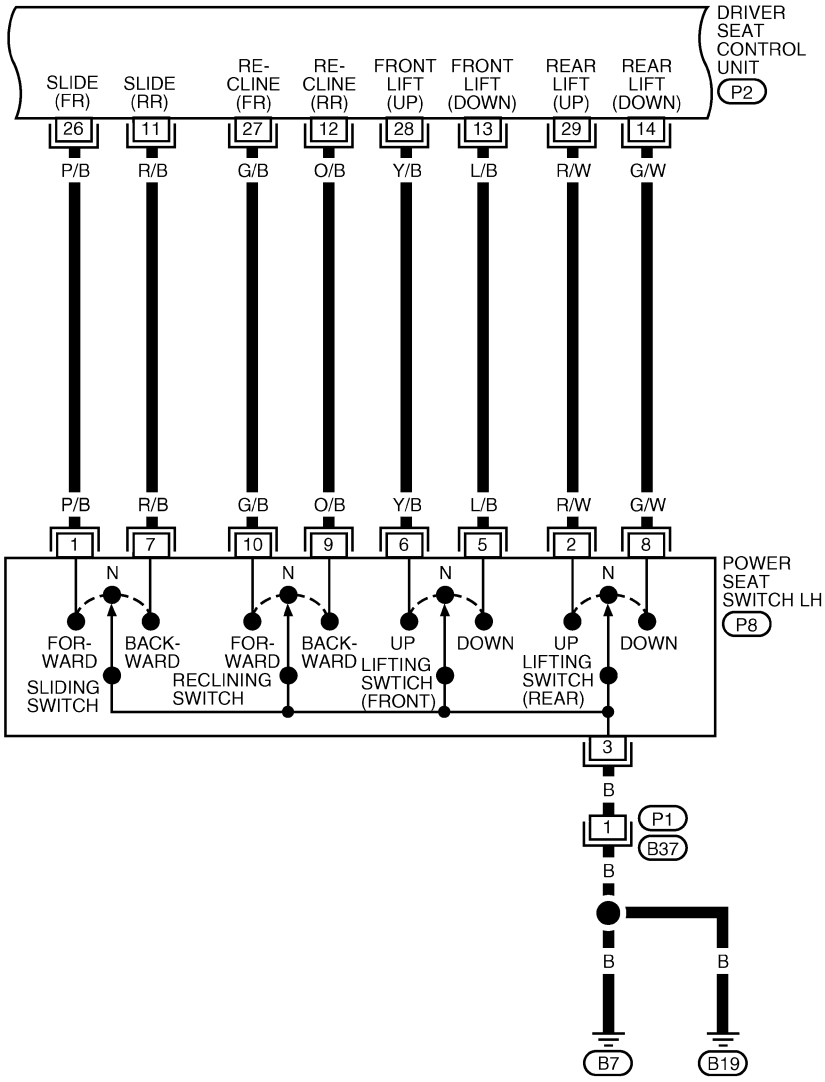


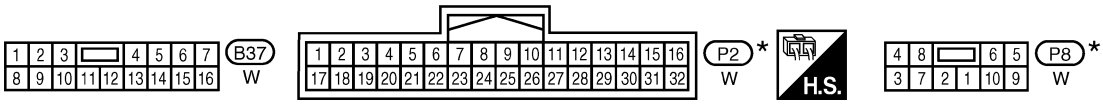


REFER TO THE FOLLOWING.
M40 - SUPER MULTIPLE JUNCTION (SMJ)

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

WIWA1106E

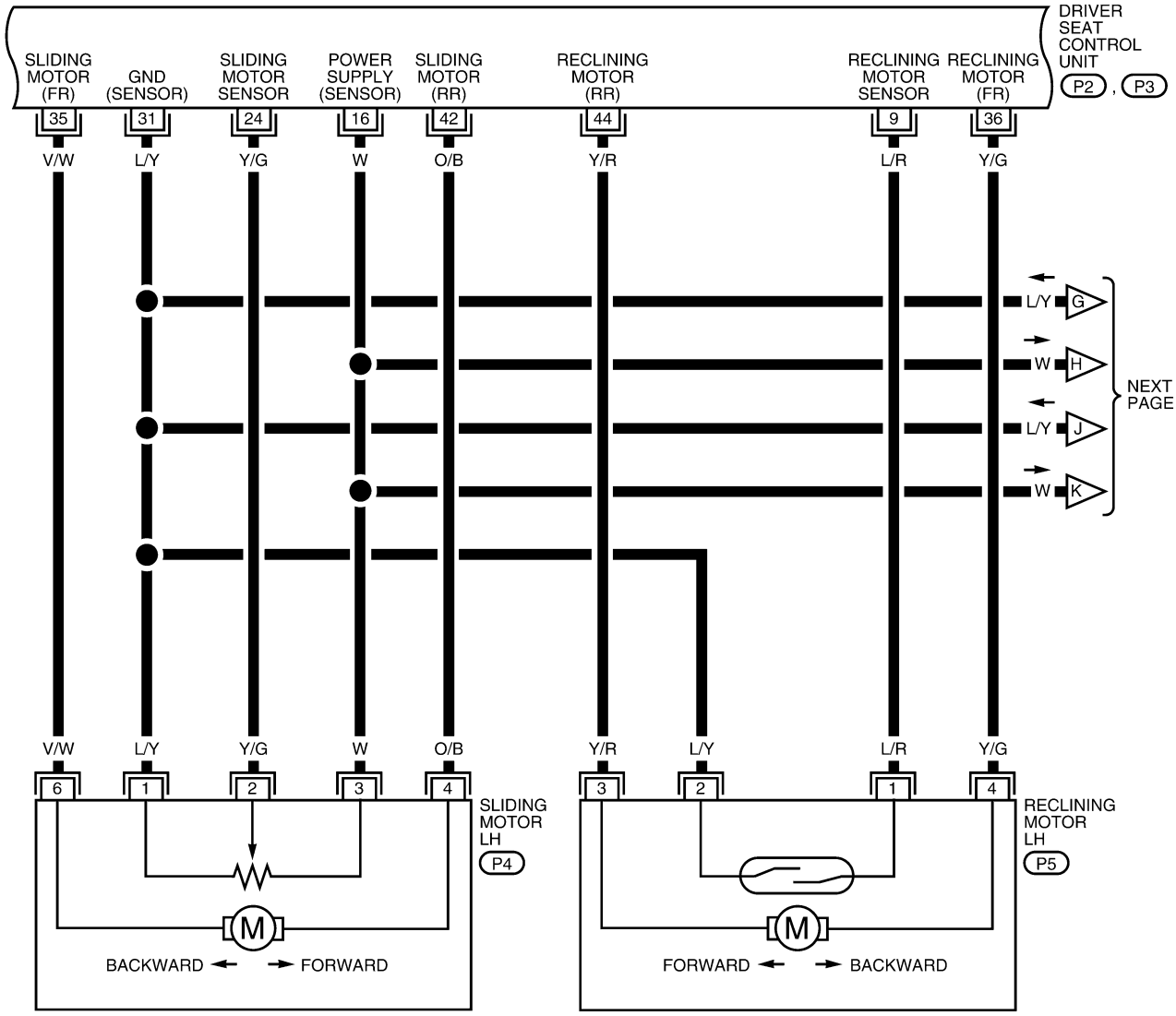


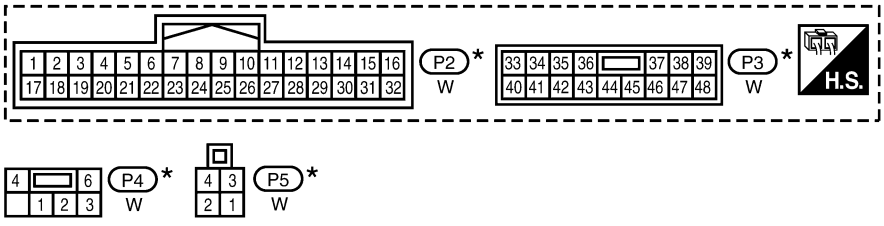


★: THIS CONNECTOR IS NOT SHOWN IN “HARNESS LAYOUT” OF PG SECTION.

LIWA0449E

SE-AUT/DP-08

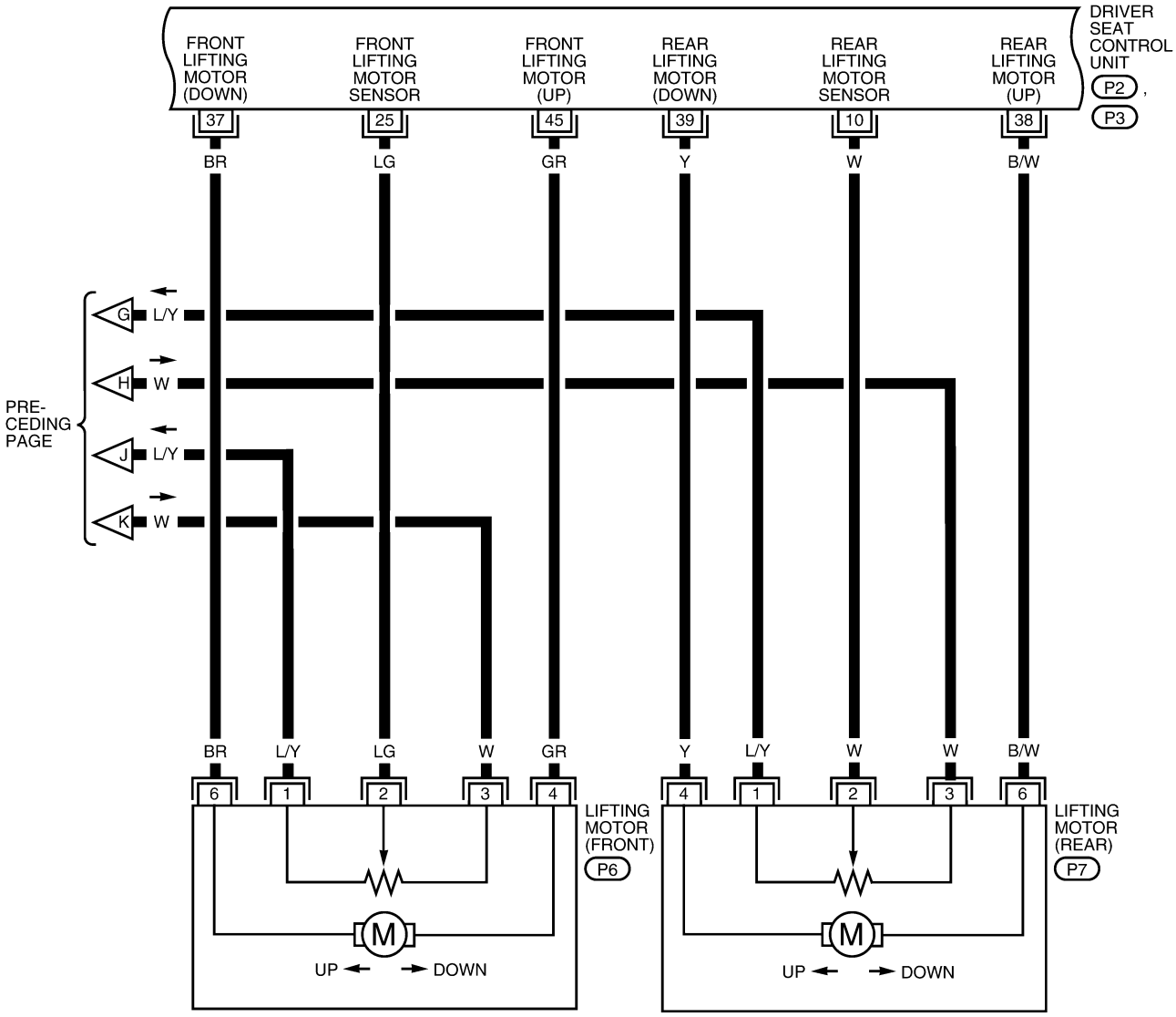


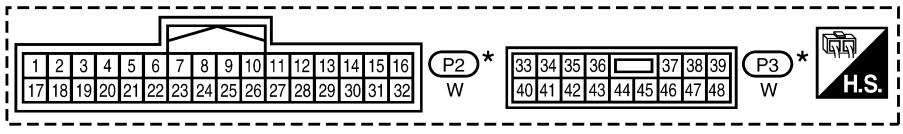


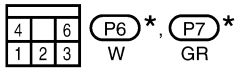
*: THIS CONNECTOR IS NOT SHOWN IN HARNESS LAYOUT OF PG SECTION.

WIWA0636E

SE-AUT/DP-09



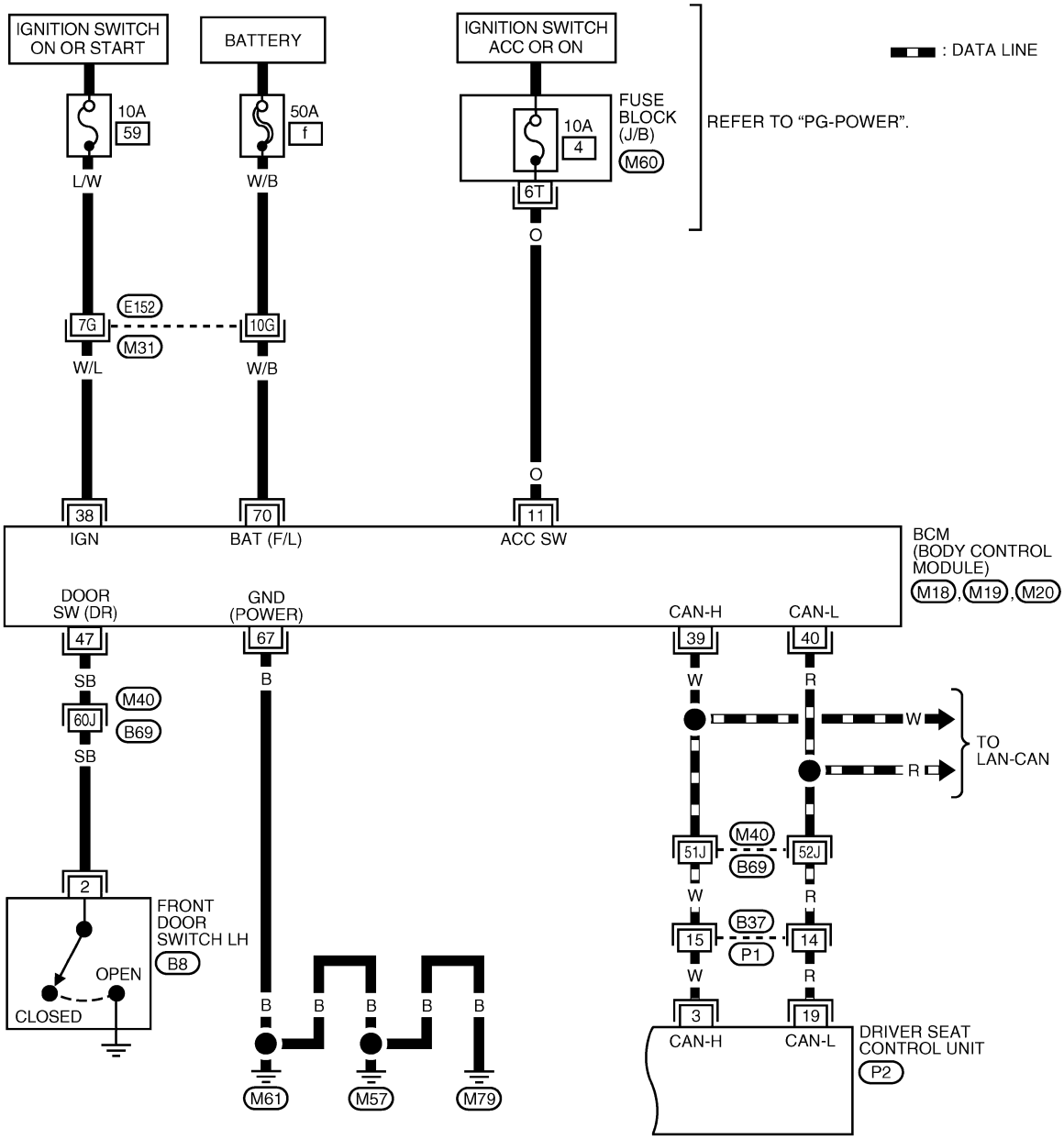




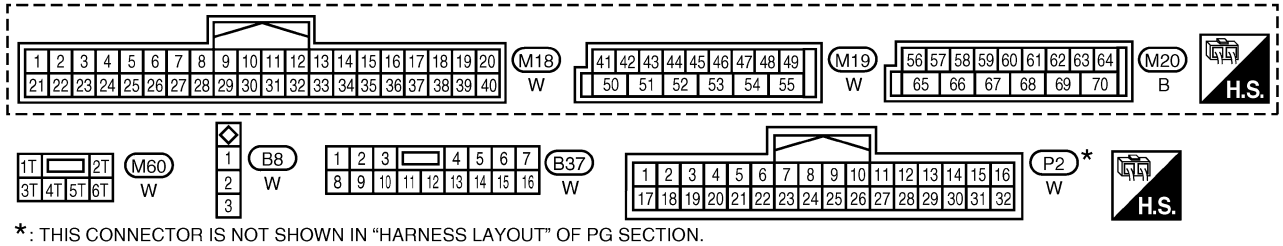
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

WIWA1144E

SE-AUT/DP-10



REFER TO THE FOLLOWING.
M31 , M40 - SUPER MULTIPLE JUNCTION (SMJ)



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

LIWA0441E

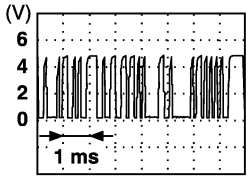
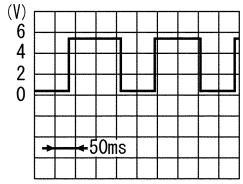
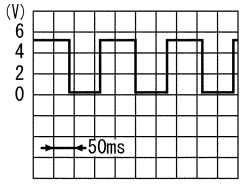
Terminals and Reference Values for BCM

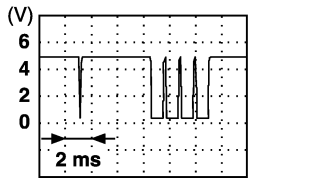
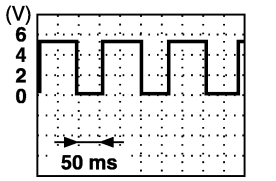
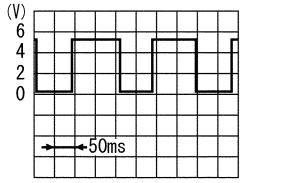
EIS0038I

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

Terminals and Reference Values for Driver Seat Control Unit

EIS0038J

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
1	L	UART LINE (RX)	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	 PIIA4813E
3	W	CAN-H	—	—
6	O	Ignition switch (START)	Ignition switch (START position)	Battery voltage
9	L/R	Reclining motor sensor signal	ON (seat reclining motor operation)	 SIIA0692J
			Other than above	0 or 5
10	W	Rear lifting motor sensor signal	ON (rear lifting motor operation)	 SIIA0693J
			Other than above	0 or 5
11	R/B	Sliding switch BACKWARD signal	ON (seat sliding switch BACKWARD operation)	0
			Other than above	Battery voltage
12	O/B	Reclining switch BACKWARD signal	ON (seat reclining switch BACKWARD operation)	0
			Other than above	Battery voltage
13	L/B	Front lifting switch DOWN signal	ON (front lifting switch DOWN operation)	0
			Other than above	Battery voltage

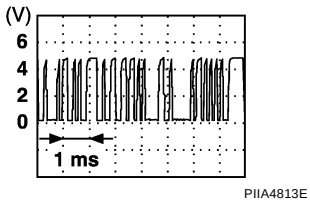
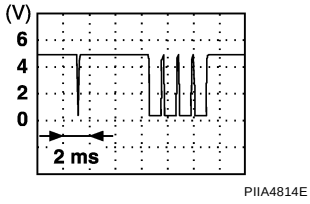
TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
14	G/W	Rear lifting switch DOWN signal	ON (rear lifting switch DOWN operation)	0
			Other than above	Battery voltage
15	L	Pedal adjusting switch BACKWARD signal	ON (pedal adjusting switch BACKWARD operation)	0
			Other than above	Battery voltage
16	W	Seat sensor power	Ignition switch ON	5
17	W	UART LINE (TX)	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	 PIIA4814E
19	R	CAN-L	—	—
21	L/R	A/T device (detent switch) signal	Selector lever in P position	0
			Selector lever other than P position with ignition key in ignition cylinder	Battery voltage
24	Y/G	Seat sliding motor sensor signal	ON (seat sliding motor operation)	 PIIA3277E
			Other than above	0 or 5
25	LG	Front lifting motor sensor signal	ON (front lifting motor operation)	 SIIA0691J
			Other than above.	0 or 5
26	P/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	R/W	Rear lifting switch UP signal	ON (rear lifting switch UP operation)	0
			Other than above	Battery voltage
30	R	Pedal adjusting switch FORWARD signal	ON (pedal adjusting switch FORWARD operation)	0
			Other than above	Battery voltage

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

Terminals and Reference Values for Automatic Drive Positioner Control Unit

EIS0038K

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
1	W/G	ADP steering switch TILT UP	ADP steering switch in UP position	0
			Other than above	5
2	LG	Changeover switch RH signal	Changeover switch in RH position	0
			Other than above	5
3	Y/B	Mirror switch UP signal	Mirror switch in UP position	0
			Other than above	5
4	V/W	Mirror switch LEFT signal	Mirror switch in LEFT position	0
			Other than above	5
5	R/B	Mirror sensor (RH vertical) signal	Mirror motor RH is operated UP or DOWN	Changes between 3.4 (close to peak) 0.6 (close to valley)
6	L/Y	Mirror sensor (LH vertical) signal	Mirror motor LH is operated UP or DOWN	Changes between 3.4 (close to peak) 0.6 (close to valley)
7	Y/BR	Tilt sensor input	Tilt position TOP	2
			Tilt position BOTTOM	4

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
8	BR/Y	Pedal sensor input signal	Pedal position front end	0.5
			Pedal position rear end	4.5
9	LG/B	Seat memory switch 1 signal	Memory switch 1 ON	0
			Memory switch 1 OFF	5
10	L	UART LINE (TX)	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	 PIIA4813E
12	P	Seat memory switch indictor 1 signal	Memory switch 1 ON	0
			Memory switch 1 OFF	Battery voltage
13	Y/G	Seat memory switch indictor 2 signal	Memory switch 2 ON	0
			Memory switch 2 OFF	Battery voltage
14	GR/R	Mirror motor RH UP signal	Mirror motor RH is operated UP	1.5 - Battery voltage
			Other than above	0
15	V/R	Mirror motor RH LEFT signal	Mirror motor RH is operated LEFT	1.5 - Battery voltage
			Other than above	0
16	O	Mirror motor LH DOWN signal	Mirror motor LH is operated DOWN	1.5 - Battery voltage
			Other than above	0
		Mirror motor LH RIGHT signal	Mirror motor LH is operated RIGHT	1.5 - Battery voltage
			Other than above	0
17	G/B	ADP steering switch TILT DOWN	ADP steering switch in DOWN position	0
			Other than above	5
18	BR/W	Changeover switch LH signal	Changeover switch in LH position	0
			Other than above	5
19	SB	Mirror switch DOWN signal	Mirror switch in DOWN position	0
			Other than above	5
20	GR	Mirror switch RIGHT signal	Mirror switch in RIGHT position	0
			Other than above	5
21	L/W	Mirror sensor (RH horizontal) signal	Mirror motor RH is operated LEFT or RIGHT	Changes between 3.4 (close to left edge) 0.6 (close to right edge)
22	G	Mirror sensor (LH horizontal) signal	Mirror motor LH is operated LEFT or RIGHT	Changes between 3.4 (close to left edge) 0.6 (close to right edge)
24	G/O	Seat memory set switch signal	Set switch 1 ON	0
			Set switch 1 OFF	5
25	P/L	Seat memory switch 2 signal	Memory switch 2 ON	0
			Memory switch 2 OFF	5
26	W	UART LINE (RX)	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	 PIIA4814E

TERMINAL	WIRE COLOR	ITEM	CONDITION	VOLTAGE (V) (Approx.)
30	Y	Mirror motor RH DOWN signal	Mirror motor RH is operated DOWN	1.5 - Battery voltage
			Other than above	0
		Mirror motor RH RIGHT signal	Mirror motor RH is operated RIGHT	1.5 - Battery voltage
			Other than above	0
31	R	Mirror motor LH UP signal	Mirror motor LH is operated UP	1.5 - Battery voltage
			Other than above	0
32	BR	Mirror motor LH LEFT signal	Mirror motor LH is operated LEFT	1.5 - Battery voltage
			Other than above	0
33	W/L	Sensor power supply	—	5
34	Y/R	Battery power supply	—	Battery voltage
35	R	Tilt motor UP signal	ADP steering switch in UP position	Battery voltage
			Other than above	0
37	G	Pedal adjust motor FORWARD signal	Pedal adjust motor FORWARD operation (Motor operated)	Battery voltage
			Other than above	0
39	W/L	Battery power supply	—	Battery voltage
40	B/W	Ground	—	0
41	W/G	Sensor ground	—	0
42	V	Tilt motor DOWN signal	ADP steering switch in DOWN position	Battery voltage
			Other than above	0
45	R	Pedal adjust motor BACKWARD signal	Pedal adjust motor BACKWARD operation (Motor operated)	Battery voltage
			Other than above	0
48	B	Ground	—	0

Work Flow

EIS002YE

1. Check the symptom and customer's requests.
2. Understand the system description. Refer to SE-12, "System Description" .
3. Perform the preliminary check. Refer to SE-34, "Preliminary Check" .
4. Check the self-diagnosis, results using CONSULT-II. Refer to SE-37, "CONSULT-II Function (AUTO DRIVE POS.)" .
5. Repair or replace depending on the self-diagnostic results.
6. Based on the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to SE-41, "Symptom Chart" .
7. Does the automatic drive positioner system operate normally?
   If it is normal, GO TO 8.
   If it is not normal, GO TO 3.
8. Inspection End.

Preliminary Check

EIS002YF

SETTING CHANGE FUNCTION

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

×: Applicable –: Not applicable

Setting item	Content	CONSULT–II (WORK SUPPORT)	Display unit	Default setting	Factory setting
SEAT SLIDE VOLUME SET	The distance at exiting operation can be selected from the following 3 modes.	40 mm	—	×	×
		80 mm		—	—
		150 mm		—	—
Sliding Front Seat and Steering Wheel Raise When Entry/ Exiting Vehicle	The seat sliding and steering wheel raise turnout and return at entry/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 ON	—	—

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

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

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

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

POWER SUPPLY AND GROUND CIRCUIT INSPECTION

1. CHECK BCM FUSE

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

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

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

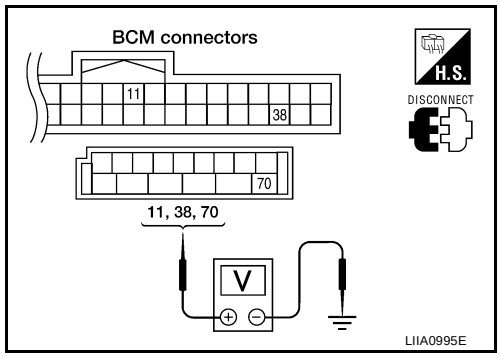
OK or NG

OK >> GO TO 2.
NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to SE-11, "Component Parts And Harness Connector Location" .

2. CHECK BCM POWER SUPPLY CIRCUIT

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

Connector	Terminals (Wire color)		Power source	Condition	Voltage (V) (Approx.)
	(+)	(–)			
M20	70 (W/B)	Ground	Battery power supply	Ignition switch OFF	Battery voltage
M18	38 (W/L)	Ground	Ignition power supply	Ignition switch ON	Battery voltage
	11 (O)	Ground	ACC power supply	Ignition switch ACC	Battery voltage



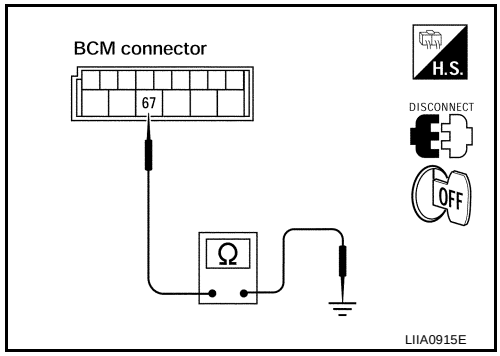
OK or NG

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

3. CHECK BCM GROUND CIRCUIT

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

67 (B) - Ground : Continuity should exist.



OK or NG

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

4. CHECK CONTROL UNIT FUSES

Make sure any of the following fuses for the driver seat control unit and automatic drive positioner control unit are not blown.

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

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

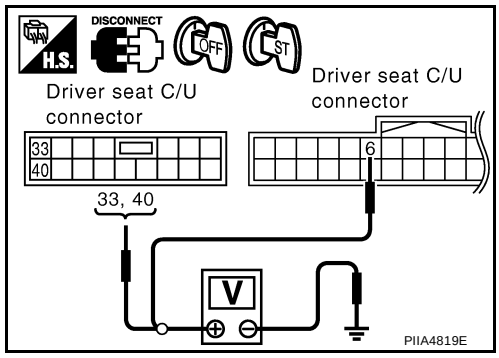
OK or NG

OK >> GO TO 5.
NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to SE-11, "Component Parts And Harness Connector Location" .

5. CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

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

Connector	Terminals (Wire color)		Power source	Condition	Voltage (V) (Approx.)
	(+)	(–)			
P3	33 (W/L)	Ground	Battery power supply	Ignition switch OFF	Battery voltage
	40 (Y/R)	Ground	Battery power supply	Ignition switch OFF	Battery voltage
P2	6 (O)	Ground	START power supply	Ignition switch START	Battery voltage



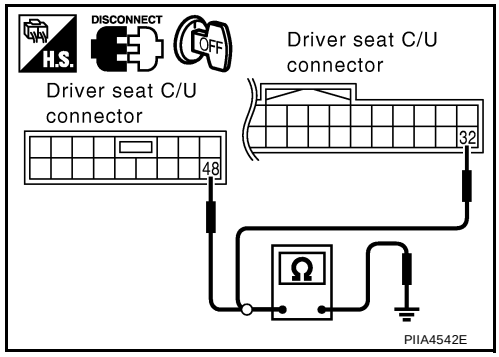
OK or NG

OK >> GO TO 6.
NG >> Repair or replace harness.

6. CHECK DRIVER SEAT CONTROL UNIT GROUND CIRCUIT

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

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



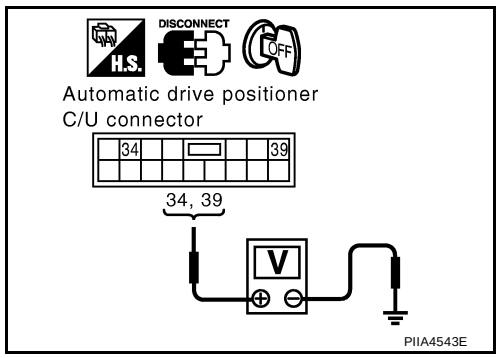
OK or NG

OK >> Driver seat control unit circuit check is OK, GO TO 7.
NG >> Repair or replace harness.

7. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY CIRCUIT

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

Connector	Terminals (Wire color)		Power source	Condition	Voltage (V) (Approx.)
	(+)	(–)			
M34	34 (Y/R)	Ground	Battery power supply	Ignition switch OFF	Battery voltage
	39 (W/L)	Ground	Battery power supply	Ignition switch OFF	Battery voltage



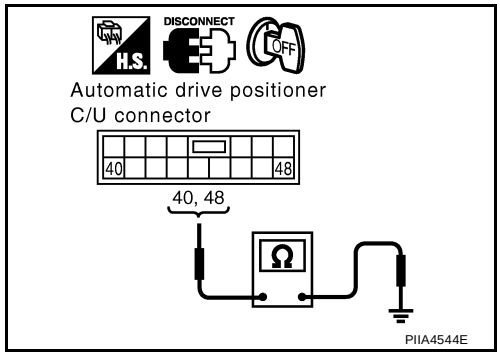
OK or NG

OK >> GO TO 8.
NG >> Repair or replace harness.

8. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT GROUND CIRCUIT

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

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



OK or NG

OK >> Automatic drive positioner control unit circuit is OK.
NG >> Repair or replace harness.

CONSULT-II Function (AUTO DRIVE POS.)

EIS002YG

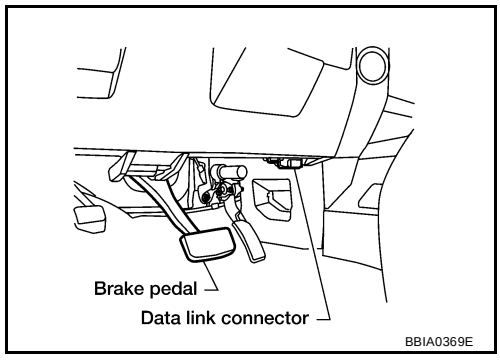
CONSULT-II can display each diagnostic item using the diagnostic test modes shown following.

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

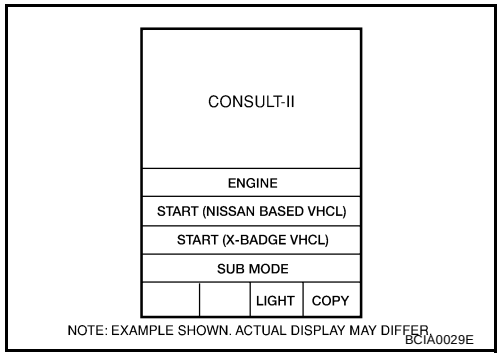
CONSULT-II INSPECTION PROCEDURE

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

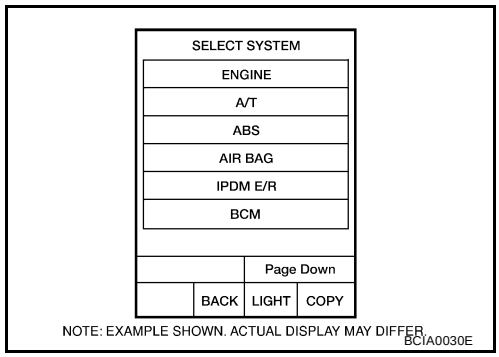
1. Turn ignition switch OFF.
2. Connect CONSULT-II and CONSULT-II CONVERTER to the data link connector.
3. Turn ignition switch ON.



4. Touch “START (NISSAN BASED VHCL)”.

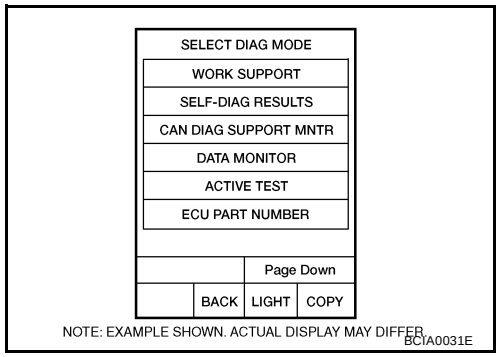


5. Touch “AUTO DRIVE POS”.
If “AUTO DRIVE POS.” is not indicated, refer to GI-39, "CONSULT-II Data Link Connector (DLC) Circuit" .



NOTE: EXAMPLE SHOWN. ACTUAL DISPLAY MAY DIFFER.
BCIA0030E

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



NOTE: EXAMPLE SHOWN. ACTUAL DISPLAY MAY DIFFER.
BCIA0031E

SELF-DIAGNOSIS RESULTS

DISPLAY ITEM LIST

CONSULT-II display	Item	Malfunction is detected when...	Reference page
CAN COMM CIRC [U1000]	CAN communication	Malfunction is detected in CAN communication.	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-43
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-44
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
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-47
STEERING TILT [B2116]	Steering tilt motor	When any manual and automatic operations are not performed, if any motor operations of tilt is detected for 0.1 second or more, status is judged “Output error”.	SE-53
TILT SENSOR [B2118]	Steering tilt sensor	When steering tilt sensor detects 0.5V or lower, or 4.5V or higher, for 0.5 seconds or more.	SE-64
ADJ PEDAL MOTOR [B2117]	Pedal adjust motor	When any manual and automatic operations are not performed, if motor operations of seat pedal is detected for 0.1 second or more, status is judged “Output error”.	SE-49
ADJ PEDAL SEN-SOR [B2120]	Pedal adjust sensor	When pedal adjust sensor detects 0.5V or lower, or 4.5V or higher, for 0.5 seconds or more.	SE-59
DETENT SW [B2126]	Park SW	With the A/T shift lever in P position (Park switch OFF), if the vehicle speed of 7 km/h (4 MPH) or higher was input the park switch input system is judged malfunctioning.	SE-81
UART COMM [B2128]	UART communica-tion	Malfunction is detected in UART communication.	SE-85

NOTE:

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

DATA MONITOR

CAN DIAGNOSIS SUPPORT MONITOR

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

SELECTIOM FROM MEMU

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

Monitor item [OPERATION or UNIT]		Contents
MIR/SEN LH U–D	“V”	Voltage output from LH door mirror sensor (UP/DOWN) is displayed.
PEDAL SEN	“V”	The pedal position (voltage) judged from the pedal adjust sensor signal is displayed.

ACTIVE TEST

CAUTION:

During vehicle driving, do not perform active test.

NOTE:

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

DISPLAY ITEM LIST

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

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

EIS002YH

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
	BSM
	METER/M&A
	ECM

Contents displayed

No malfunction>>Inspection End.

Malfunction in CAN communication system>>After printing the monitor items, go to “CAN System”. Refer to LAN-3, "Precautions When Using CONSULT-II" .

Symptom Chart

EIS002YI

Symptom	Diagnoses / service procedure	Refer to page
Only setting change function cannot be set with display.	1. Preliminary check	SE-34
	2. CAN communication inspection using CONSULT-II (self-diagnosis)	SE-41
	3. If the above systems are normal, check display system	AV-61

Symptom	Diagnoses / service procedure	Refer to page
A part of seat system does not operate (both automatically and manually).	1. Sliding motor circuit inspection	SE-43
	2. Reclining motor circuit inspection	SE-44
	3. Lifting motor (front) circuit inspection	SE-46
	4. Lifting motor (rear) circuit inspection	SE-47
	5. If the above systems are normal, replace the driver seat control unit	SE-11
A part of pedal adjust and door mirror does not operate (both automatically and manually).	1. Pedal adjusting motor circuit inspection	SE-49
	2. Mirror motor LH circuit check	SE-50
	3. Mirror motor RH circuit check	SE-52
	4. If the above systems are normal, replace the automatic drive positioner control unit.	SE-11
A part of seat system does not operate (only automatic operation).	1. Sliding sensor circuit inspection	SE-55
	2. Reclining sensor circuit inspection	SE-56
	3. Lifting sensor (front) circuit inspection	SE-57
	4. Lifting sensor (rear) circuit inspection	SE-58
	5. If the above systems are normal, replace the driver seat control unit	SE-11
A part of door mirror system does not operate (only automatic operation).	1. Mirror sensor LH circuit check	SE-60
	2. Mirror sensor RH circuit check	SE-62
	3. If the above systems are normal, replace the automatic drive positioner control unit.	SE-11
All of the automatic operations do not operate.	1. Park switch circuit inspection	SE-81
	2. UART communication line circuit inspection	SE-85
	3. Pedal adjusting sensor circuit inspection	SE-59
	4. Steering wheel tilt sensor circuit inspection	SE-64
	4. If all the above systems are normal, replace the automatic drive positioner control unit.	SE-11
A part of seat system does not operate (only manual operation).	1. Sliding switch circuit inspection	SE-66
	2. Reclining switch circuit inspection	SE-67
	3. Lifting switch (front) circuit inspection	SE-69
	4. Lifting switch (rear) circuit inspection	SE-70
	5. If the above systems are normal, replace the driver seat control unit	SE-11
A part of pedal adjust and door mirror does not operate (only manual operation).	1. Pedal adjusting switch circuit inspection	SE-72
	2. Door mirror switch (change over switch) circuit inspection	SE-74
	3. Door mirror switch (mirror switch) switching circuit inspection	SE-75
	4. If the above systems are normal, replace the automatic drive positioner control unit	SE-11
Only memory switch operation.	1. Seat memory switch circuit inspection	SE-77
	2. If the above systems are normal, replace the driver seat control unit	SE-11
Seat memory indicator lamps 1 and 2 do not illuminate.	1. Seat memory indicator lamp circuit inspection	SE-79
	2. If all the above systems are normal, replace the driver seat control unit.	SE-11

Symptom	Diagnoses / service procedure	Refer to page
The Entry/Exiting does not operate when door is opened and closed. (The Entry/Exiting operates with key switch)	1. Front door switch circuit inspection	SE-84
	2. If all the above systems are normal, replace the BCM.	BCS-19
Only door mirror system does not operate (only manual operation).	1.Door mirror switch ground circuit inspection	SE-76
Only door mirror system does not operate (only automatic operation).	1. Door mirror sensor power supply and ground circuit inspection	SE-80
Only seat system does not operate (only manual operation).	1. Power seat switch ground circuit inspection	SE-71

Sliding Motor Circuit Inspection

EIS002YJ

1. CHECK SEAT SLIDING MECHANISM

Check the following.

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

OK or NG

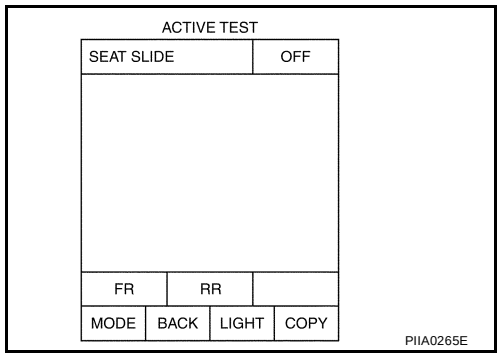
OK >> GO TO 2.
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

Check operation with “SEAT SLIDE” in ACTIVE TEST.

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



Without CONSULT-II

GO TO 3.

OK or NG

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

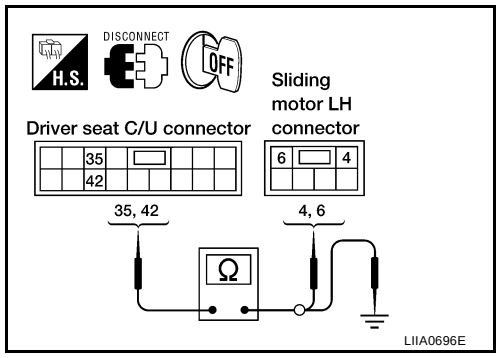
3. CHECK SLIDING MOTOR CIRCUIT HARNESS CONTINUITY

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

35 (V/W) - 6 (V/W) : Continuity should exist.
42 (O/B) - 4 (O/B) : Continuity should exist.

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

35 (V/W) - Ground : Continuity should not exist.
42 (O/B) - Ground : Continuity should not exist.



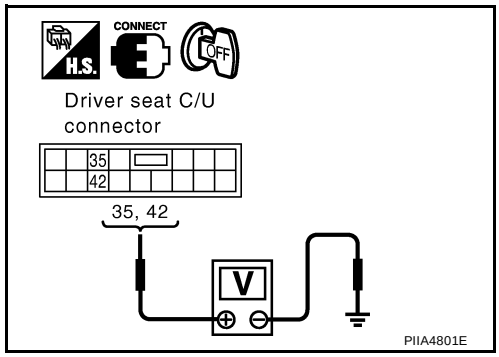
OK or NG

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

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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

EIS002YK

1. CHECK SEAT RECLINING MECHANISM

Check the following.

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

OK or NG

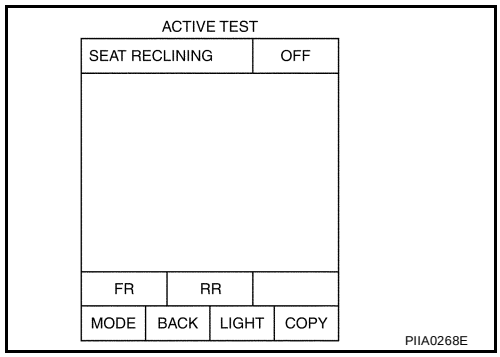
OK >> GO TO 2.
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

Check operation with “SEAT RECLINING” in ACTIVE TEST.

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



Without CONSULT-II

GO TO 3.

OK or NG

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

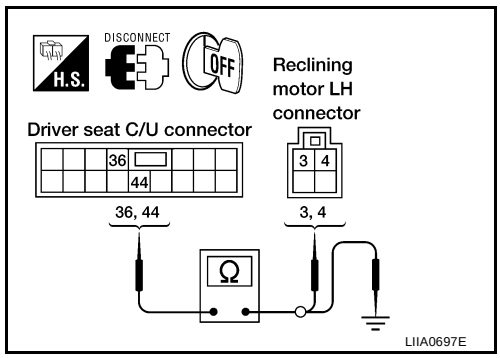
3. CHECK RECLINING MOTOR CIRCUIT HARNESS CONTINUITY

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

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

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

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

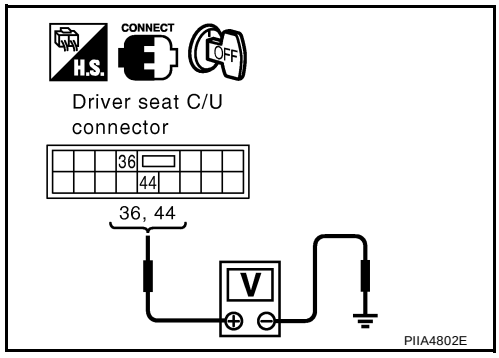


OK or NG

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

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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



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

OK or NG

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

Lifting Motor (Front) Circuit Inspection

EIS002YL

1. CHECK FRONT END SEAT LIFTING MECHANISM

Check the following.

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

OK or NG

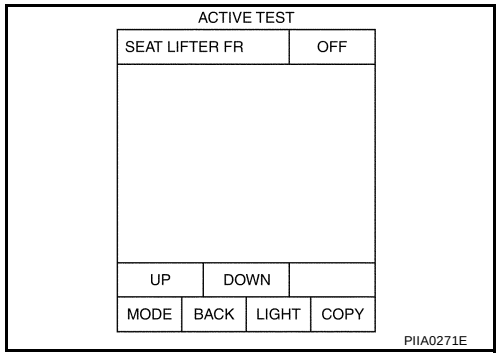
OK >> GO TO 2.
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

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

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



Without CONSULT-II

GO TO 3.

OK or NG

OK >> Lifting motor (front) circuit is OK.
NG >> GO TO 3.

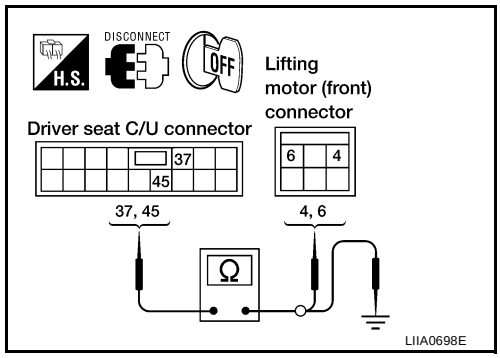
3. CHECK LIFTING MOTOR (FRONT) CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and lifting motor (front).
3. Check continuity between driver seat control unit connector P3 terminals 37, 45 and lifting motor (front) connector P6 terminals 4, 6.

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

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

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



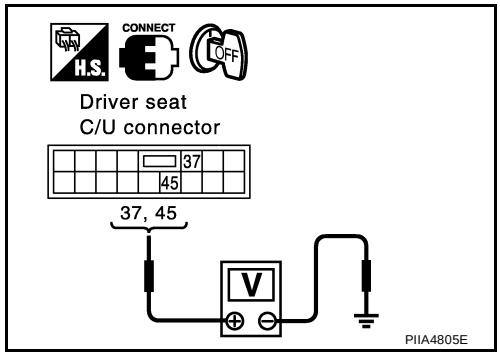
OK or NG

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

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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



OK or NG

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

Lifting Motor (Rear) Circuit Inspection

EIS002YM

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 lifting motor (rear) or lead screws
- Operation malfunction and interference with other parts by poor installation

OK or NG

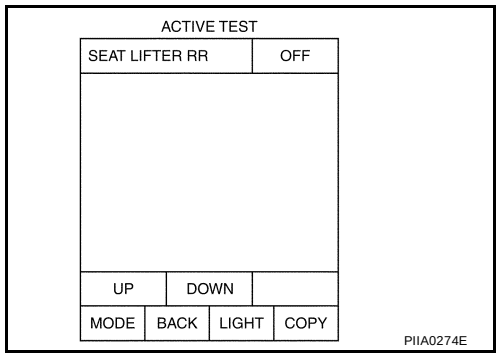
OK >> GO TO 2.
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

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

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



Without CONSULT-II

GO TO 3.

OK or NG

OK >> Lifting motor (rear) circuit is OK.
NG >> GO TO 3.

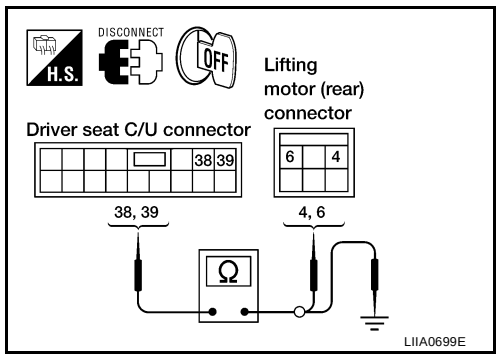
3. CHECK LIFTING MOTOR (REAR) CIRCUIT HARNESS CONTINUITY

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

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

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

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

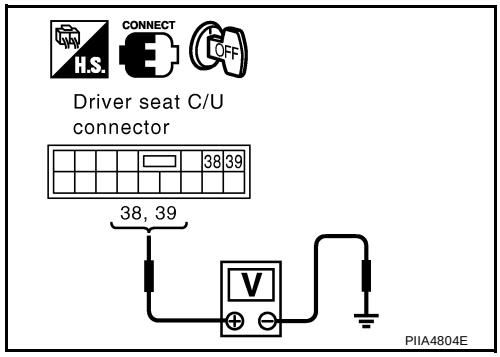


OK or NG

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

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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



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

OK or NG

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

Pedal Adjusting Motor Circuit Inspection

EIS002YN

1. CHECK PEDAL ADJUSTING MECHANISM

Check the following.

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

OK or NG

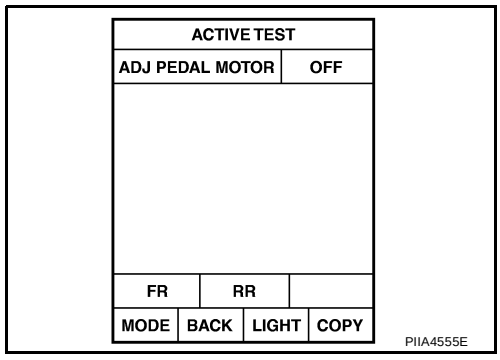
OK >> GO TO 2.
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

Check operation with “PEDAL” in ACTIVE TEST.

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



Without CONSULT-II

GO TO 3.

OK or NG

OK >> Pedal adjusting motor circuit is OK.
NG >> GO TO 3.

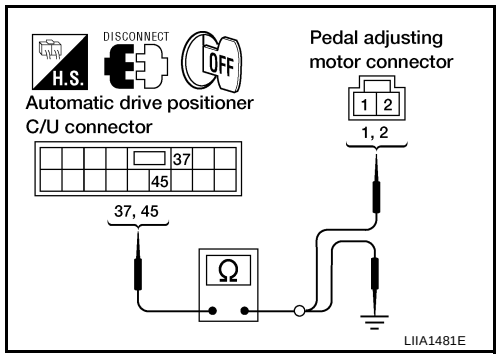
3. CHECK PEDAL ADJUSTING MOTOR CIRCUIT HARNESS CONTINUITY

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

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

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

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



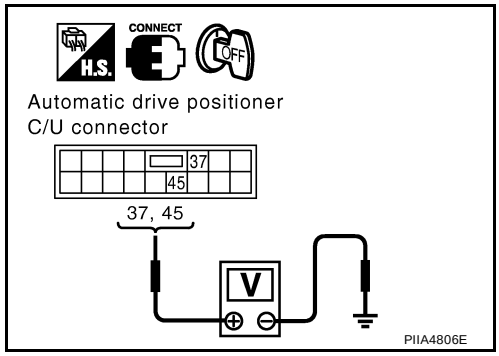
OK or NG

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

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(–)		
M34	37 (G)	Ground	Pedal adjusting switch ON (FORWARD operation)	Battery voltage
			Other than above	0
	45 (R)		Pedal adjusting switch ON (BACKWARD operation)	Battery voltage
			Other than above	0



OK or NG

OK >> Replace pedal adjusting motor.
NG >> Replace automatic drive positioner control unit.

Mirror Motor LH Circuit Check

EIS002YO

1. CHECK DOOR MIRROR LH MECHANISM

Check the following items.
Operation malfunction caused by a foreign object caught in door mirror face edge.

OK or NG

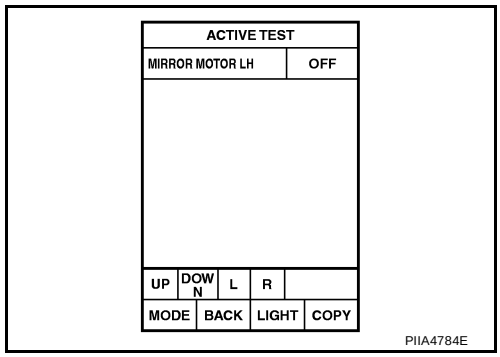
OK >> GO TO 2.
NG >> Repair the malfunctioning parts, and check the symptom again.

2. CHECK FUNCTION

With CONSULT–II

Check the operation with “MIRROR MOTOR LH” in the ACTIVE TEST.

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



Without CONSULT–II

GO TO 3.

OK or NG

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

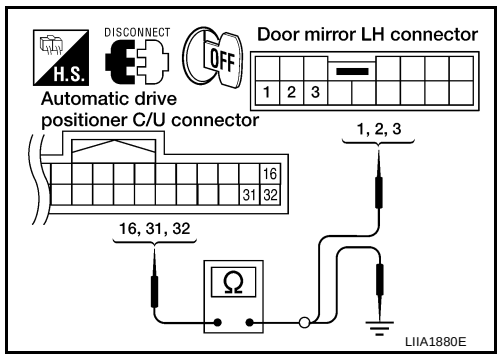
3. CHECK DOOR MIRROR MOTOR LH CIRCUIT HARNESS CONTINUITY

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

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

4. Check continuity between automatic drive positioner control unit connector M41 terminal 16, 31, 32 and ground.

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



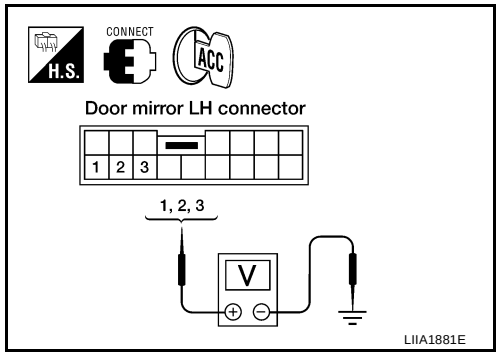
OK or NG

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

4. CHECK MIRROR MOTOR SIGNAL

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

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



OK or NG

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

Mirror Motor RH Circuit Check

EIS002YP

1. CHECK DOOR MIRROR RH MECHANISM

Check the following items.
Operation malfunction caused by a foreign object caught in door mirror face edge.

OK or NG

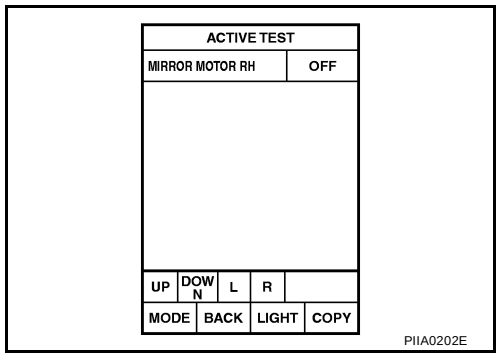
OK >> GO TO 2.
NG >> Repair the malfunctioning parts, and check the symptom again.

2. CHECK FUNCTION

With CONSULT–II

Check the operation with “MIRROR MOTOR RH” in the ACTIVE TEST.

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



Without CONSULT–II

GO TO 3.

OK or NG

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

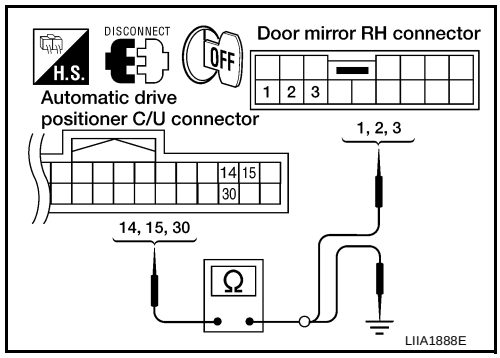
3. CHECK DOOR MIRROR RH CIRCUIT HARNESS CONTINUITY

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

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

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

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



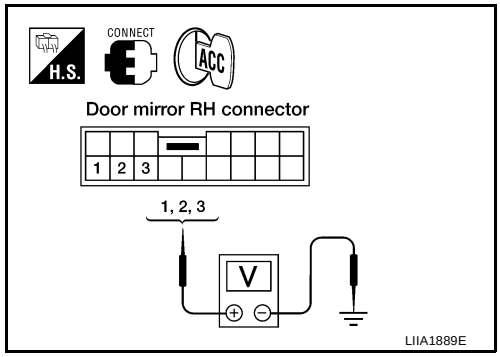
OK or NG

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

4. CHECK MIRROR MOTOR SIGNAL

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

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



OK or NG

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

Steering Wheel Tilt Circuit Inspection

EIS0038L

1. CHECK STEERING WHEEL TILT MECHANISM

Check the following.

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

OK or NG

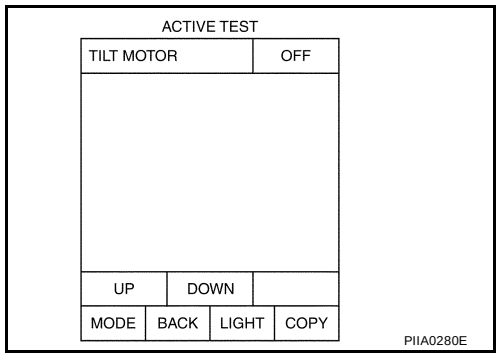
OK >> GO TO 2.
NG >> Repair the malfunctioning part and check again.

2. CHECK FUNCTION

With CONSULT-II

Check operation with “TILT MOTOR” in ACTIVE TEST.

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



Without CONSULT-II

GO TO 3.

OK or NG

OK >> Steering wheel tilt motor circuit is OK.
NG >> GO TO 3.

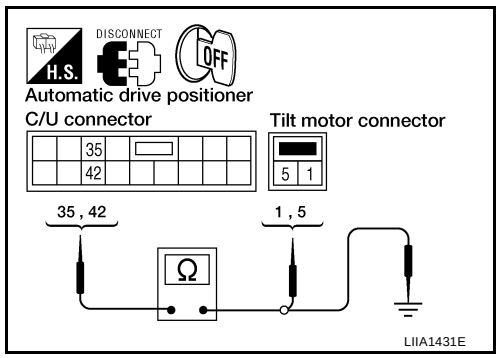
3. CHECK STEERING WHEEL MOTOR HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and steering wheel tilt motor.
3. Check continuity between automatic drive positioner control unit connector M34 terminals 35, 42 and steering wheel tilt motor connector M68 terminals 1, 5.

35 (R) - 1 (R) : Continuity should exist.
42 (V) - 5 (V) : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M34 terminals 35, 42 and ground.

35 (R) - Ground : Continuity should not exist.
42 (V) - Ground : Continuity should not exist.

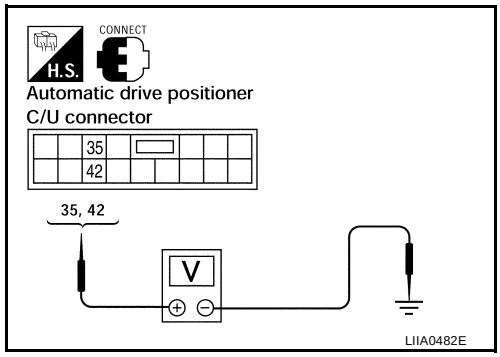


OK or NG

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

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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



Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(–)		
M34	35 (R)	Ground	Tilt switch ON (UP operation)	Battery voltage
			Other than above	0
	42 (V)		Tilt switch ON (DOWN operation)	Battery voltage
			Other than above	0

OK or NG

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

Sliding Sensor Circuit Inspection

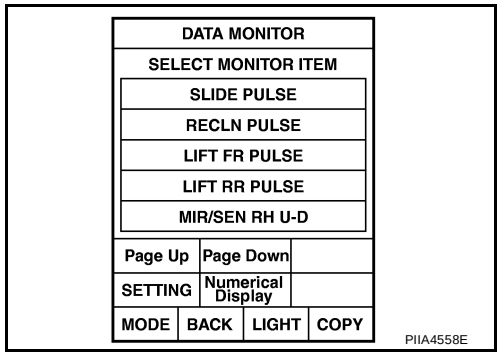
EIS002YQ

1. CHECK FUNCTION

With CONSULT-II

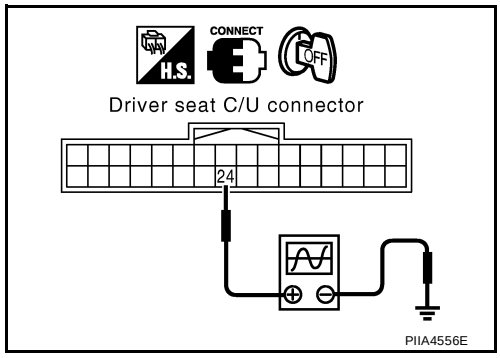
Check operation with “SLIDE PULSE” on the DATA MONITOR to make sure the pulse changes.

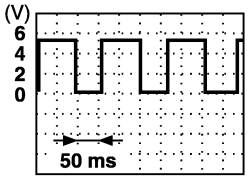
Monitor item [OPERATION or UNIT]		Contents
SLIDE PULSE	—	The seat sliding position (pulse) judged from the sliding sensor signal is displayed



Without CONSULT-II

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



Connector	Terminals (Wire color)		Condition	Signal
	(+)	(–)		
P2	24 (Y/G)	Ground	Sliding motor operation	

PIIA3277E

OK or NG

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

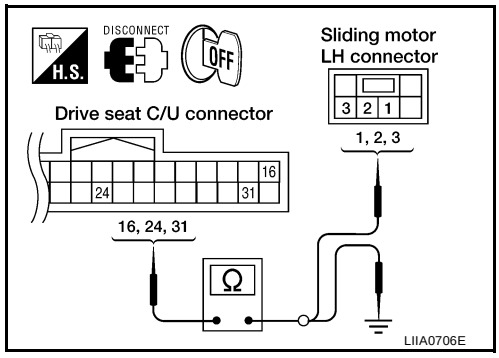
2. CHECK SLIDING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

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

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

3. Check continuity between driver seat control unit P2 terminals 16, 24, 31 and ground.

16 (W) - Ground : Continuity should not exist.
24 (Y/G) - Ground : Continuity should not exist.
31 (L/Y) - Ground : Continuity should not exist.



OK or NG

OK >> Replace sliding motor.
NG >> Repair or replace harness.

Reclining Sensor Circuit Inspection

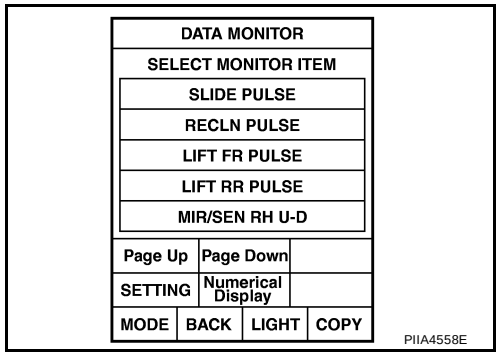
EIS002YR

1. CHECK FUNCTION

With CONSULT-II

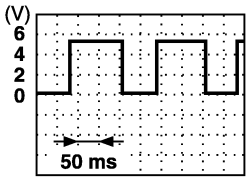
Check operation with “RECLN PULSE” on the DATA MONITOR to make sure the pulse changes.

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

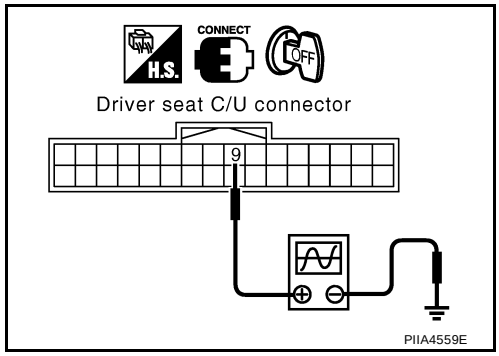


Without CONSULT-II

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

Connector	Terminals (Wire color) (+)	Terminals (Wire color) (–)	Condition	Signal
P2	9 (L/R)	Ground	Reclining motor operation	

PIIA3278E



OK or NG

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

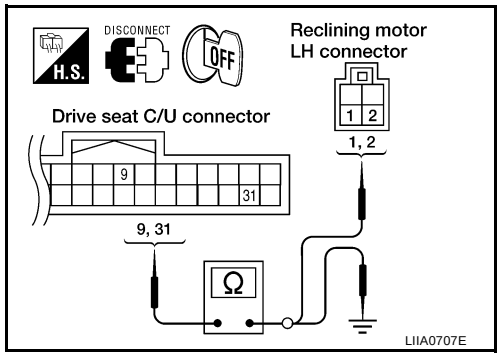
2. CHECK RECLINING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

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

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

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

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



OK or NG

OK >> Replace reclining motor.
NG >> Repair or replace harness.

Lifting Sensor (Front) Circuit Inspection

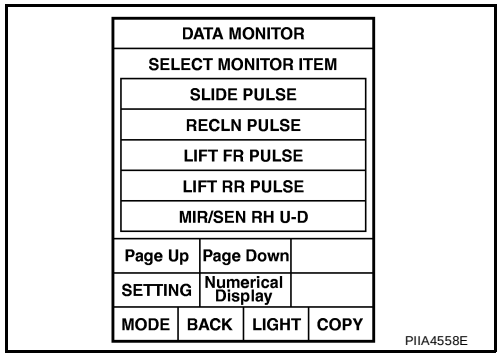
EIS002YS

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

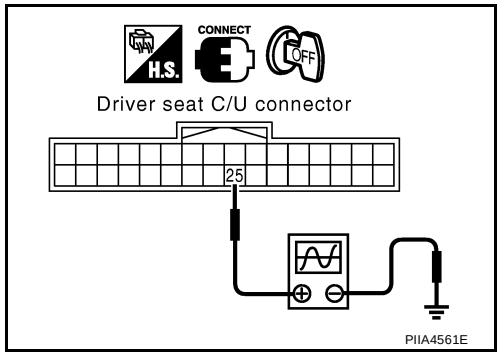


Without CONSULT-II

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

Connector	Terminals (Wire color) (+)	Terminals (Wire color) (–)	Condition	Signal
P2	25 (LG)	Ground	Lifting motor (front) operation	(V) 6 4 2 0, 50 ms

PIIA3278E



OK or NG

OK >> Front lifting sensor is OK.
NG >> GO TO 2.

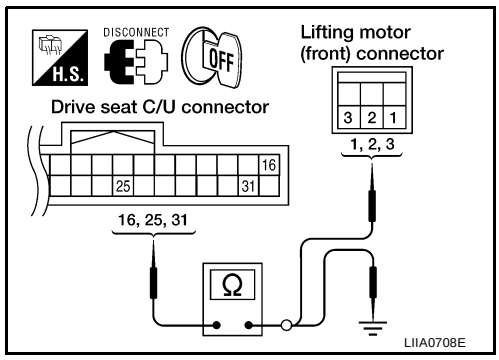
2. CHECK FRONT LIFTING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

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

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

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

16 (W) - Ground : Continuity should not exist.
25 (LG) - Ground : Continuity should not exist.
31 (L/Y) - Ground : Continuity should not exist.



OK or NG

OK >> Replace lifting motor (front).
NG >> Repair or replace harness.

Lifting Sensor (Rear) Circuit Inspection

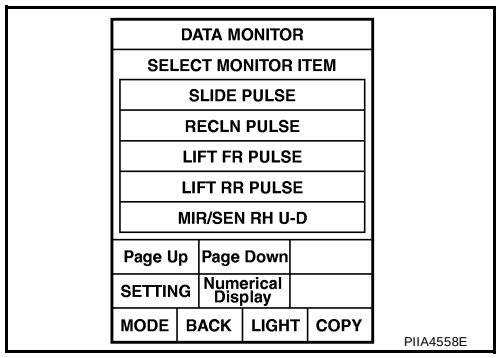
EIS002YT

1. CHECK FUNCTION

With CONSULT-II

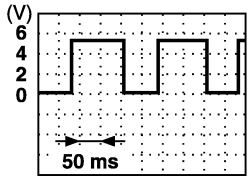
Check operation with “LIFT RR PULSE” on the DATA MONITOR to make sure pulse changes.

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

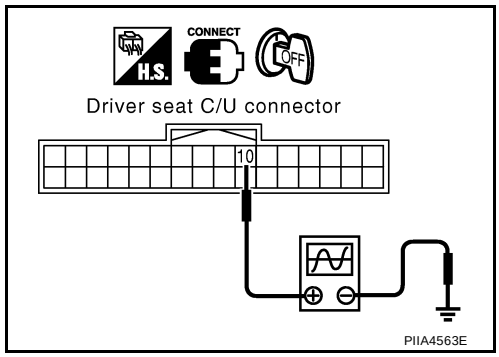


Without CONSULT-II

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

Connector	Terminals (Wire color) (+)	Terminals (Wire color) (–)	Condition	Signal
P2	10 (W)	Ground	Lifting motor (rear) operation	

PIIA3278E



OK or NG

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

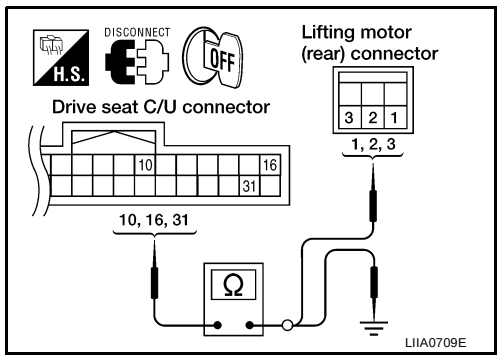
2. CHECK REAR LIFTING MOTOR SENSOR CIRCUIT HARNESS CONTINUITY

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

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

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

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



OK or NG

OK >> Replace lifting motor (rear).
NG >> Repair or replace harness.

Pedal Adjusting Sensor Circuit Inspection

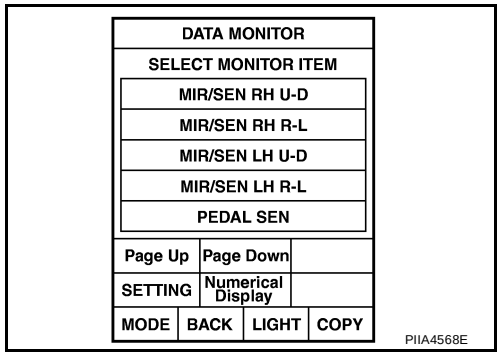
EIS002YU

1. CHECK FUNCTION

With CONSULT-II

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

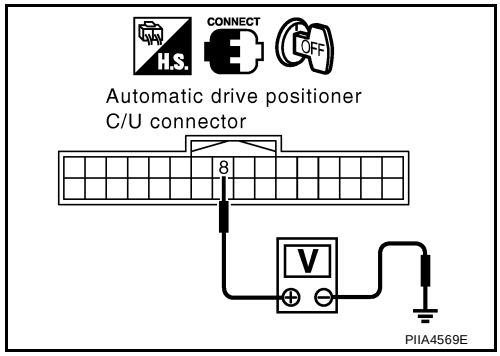
Monitor item [OPERATION or UNIT]		Contents
PEDAL SEN	“V”	The pedal adjusting position (voltage) judged from the pedal adjust sensor signal is displayed.



Without CONSULT-II

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

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



OK or NG

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

2. CHECK PEDAL ADJUSTING SENSOR CIRCUIT HARNESS CONTINUITY

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

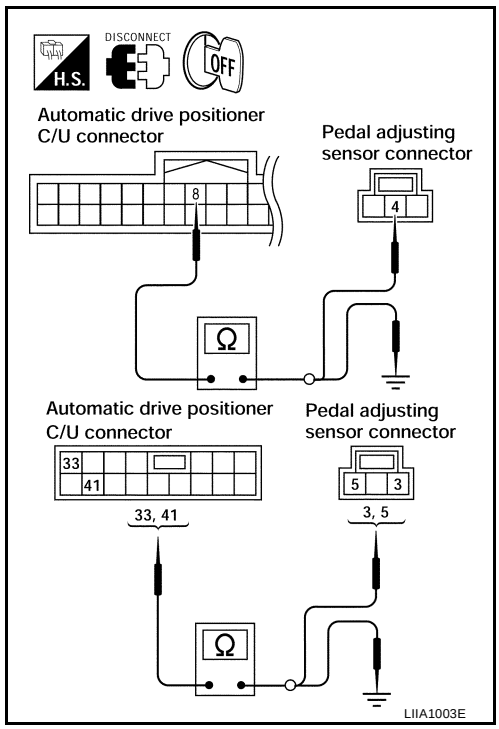
8 (BR/Y) - 4 (BR/Y) : Continuity should exist.
33 (W/L) - 3 (W/L) : Continuity should exist.
41 (W/G) - 5 (W/G) : Continuity should exist.

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

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

OK or NG

OK >> Replace pedal adjusting motor.
NG >> Repair or replace harness.



Mirror Sensor LH Circuit Check

EIS002YV

1. CHECK DOOR MIRROR FUNCTION

Check the following items.
Operation malfunction in memory control

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

OK or NG

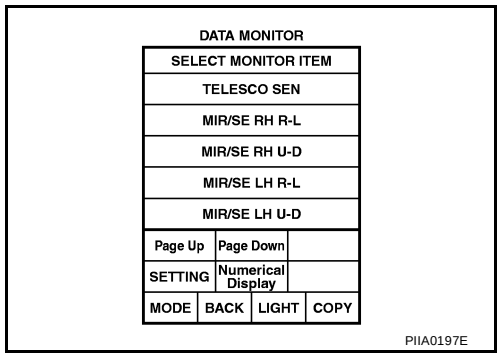
OK >> GO TO 2.
NG >> Repair the malfunctioning parts, and check the symptom again.

2. CHECK MIRROR SENSOR INSPECTION

With CONSULT–II

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

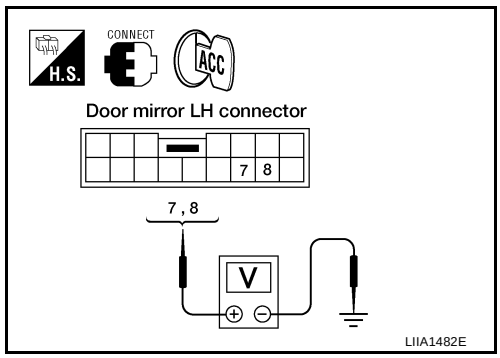
Monitor item [OPERATION or UNIT]		Contents
MIR/ SEN LH R–L	“V”	Voltage output from door mirror LH sensor (LH/ RH) is displayed.
MIR/ SEN LH U–D	“V”	Voltage output from door mirror LH sensor (UP/ DOWN) is displayed.



Without CONSULT–II

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

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



OK or NG

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

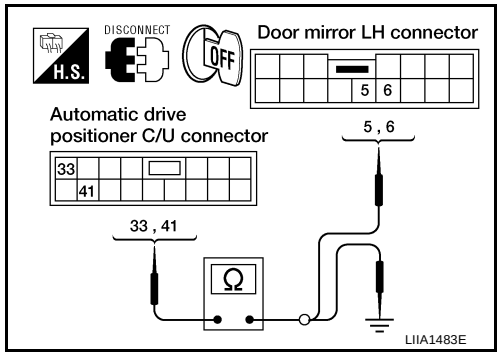
3. CHECK HARNESS CONTINUITY 1

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

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

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

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



OK or NG

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

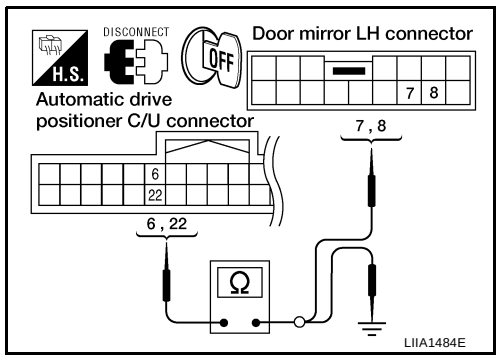
4. CHECK HARNESS CONTINUITY 2

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

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

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

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



OK or NG

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

Mirror Sensor RH Circuit Check

EIS002YW

1. CHECK DOOR MIRROR FUNCTION

Check the following items.
Operation malfunction in memory control

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

OK or NG

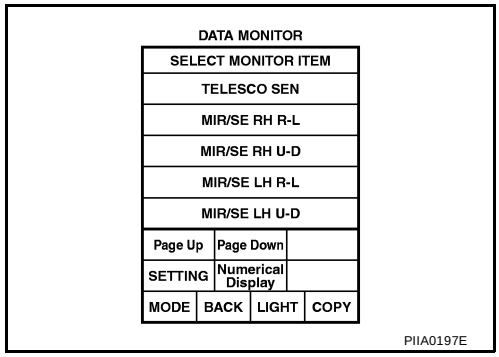
OK >> GO TO 2.
NG >> Repair the malfunctioning parts, and check the symptom again.

2. CHECK MIRROR SENSOR INSPECTION

With CONSULT–II

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

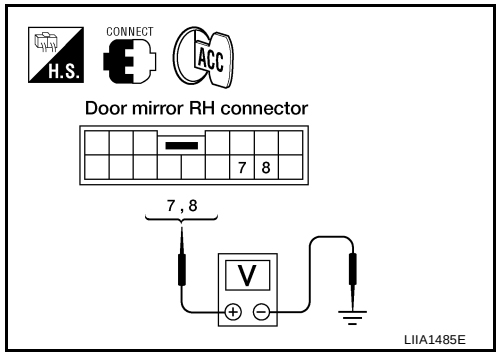
Monitor item [OPERATION or UNIT]		Contents
MIR/ SEN RH R–L	“V”	Voltage output from door mirror RH sensor (LH/ RH) is displayed.
MIR/ SEN RH U–D	“V”	Voltage output from door mirror RH sensor (UP/ DOWN) is displayed.



Without CONSULT–II

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

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



OK or NG

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

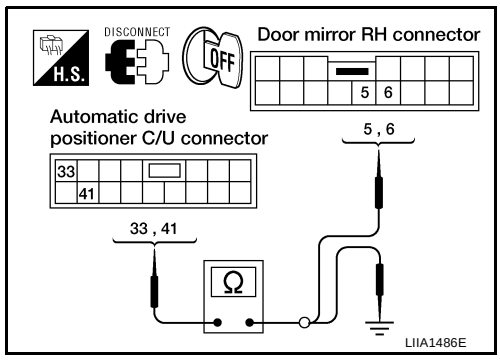
3. CHECK HARNESS CONTINUITY 1

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

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

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

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



OK or NG

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

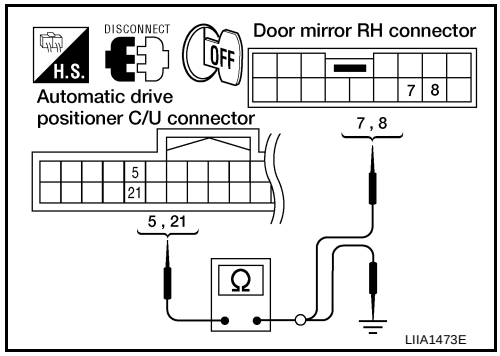
4. CHECK HARNESS CONTINUITY 2

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

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

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

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



OK or NG

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

Steering Wheel Tilt Sensor Circuit Inspection

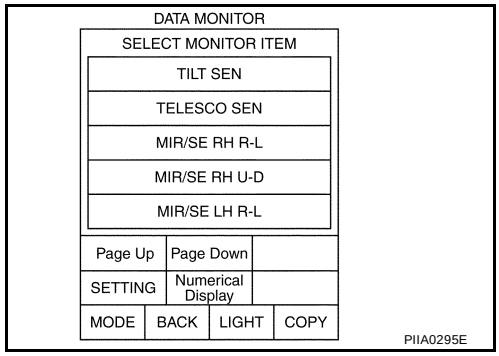
EIS0038M

1. CHECK FUNCTION

With CONSULT-II

Operate the pedal adjusting switch with “TILT SEN” on the DATA MONITOR to make sure the voltage changes.

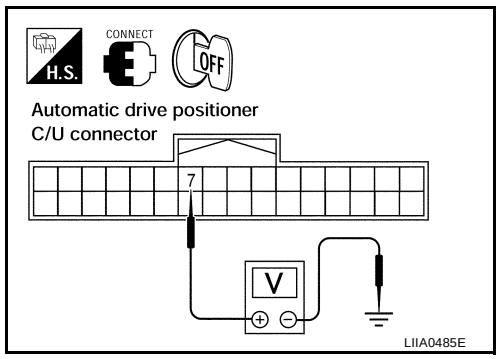
Monitor item [OPERATION or UNIT]		Contents
TILT SEN	“V”	The tilt position (voltage) judged from the tilt sensor signal is displayed.



Without CONSULT-II

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

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(–)		
M33	7 (Y/BR)	Ground	Pedal front end position	0.6
			Pedal back end position	4.5



OK or NG

OK >> Steering wheel tilt sensor circuit is OK.
NG >> GO TO 2.

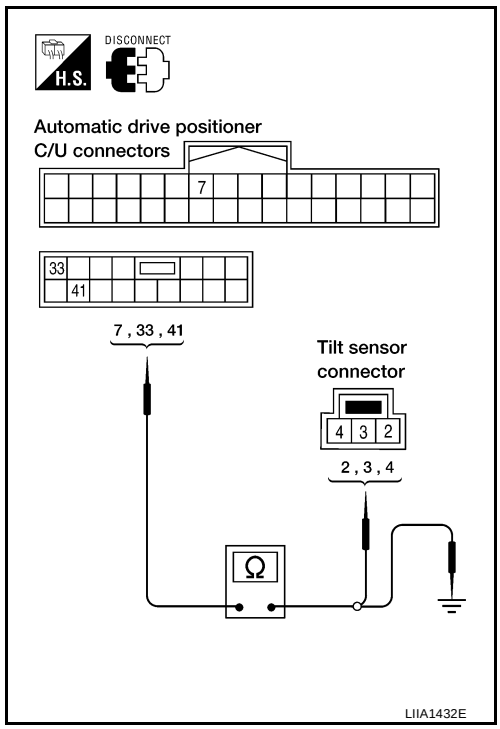
2. CHECK HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit and steering wheel tilt sensor connector.
2. Check continuity between automatic drive positioner connector M33, M34 terminals 7, 33, 41 and steering wheel tilt sensor connector M69 terminals 2, 3, 4.

7 (Y/BR) - 3 (Y/BR) : Continuity should exist.
33 (W/L) - 2 (W/L) : Continuity should exist.
41 (W/G) - 4 (W/G) : Continuity should exist.

3. Check continuity between automatic drive positioner control unit connectors M33, M34 terminals 7, 33, 41 and ground.

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



OK or NG

OK >> Replace steering wheel tilt motor.
NG >> Repair or replace harness.

Sliding Switch Circuit Inspection

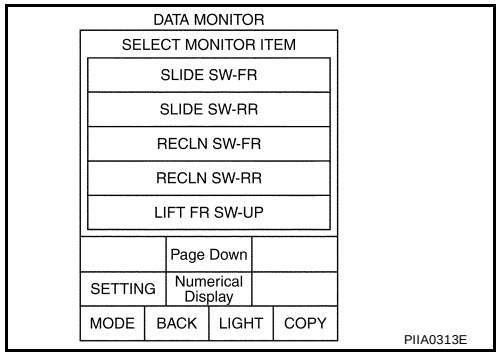
EIS002YX

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.

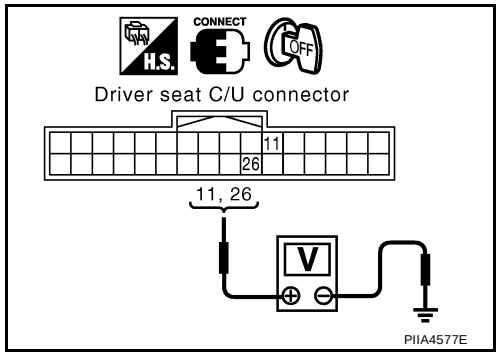
Monitor item [OPERATION or UNIT]		Contents
SLIDE SW–FR	"ON/OFF"	ON / OFF status judged from the sliding switch (FR) signal is displayed.
SLIDE SW–RR	"ON/OFF"	ON / OFF status judged from the sliding switch (RR) signal is displayed.



Without CONSULT-II

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

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



OK or NG

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

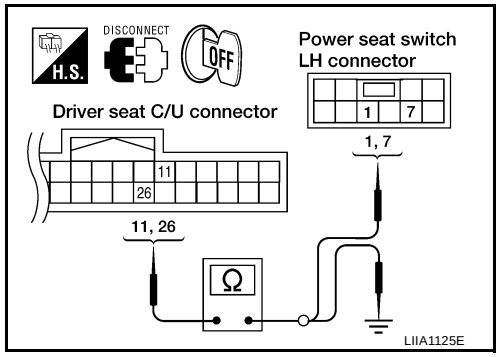
2. CHECK SLIDING SWITCH CIRCUIT HARNESS CONTINUITY

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

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

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

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



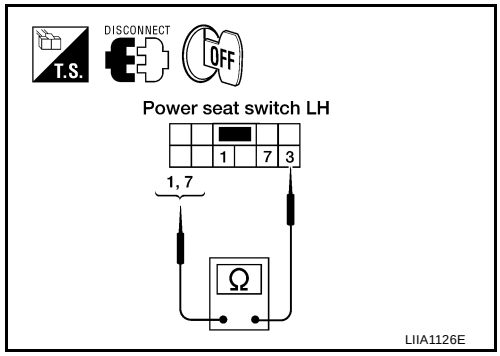
OK or NG

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

3. CHECK SLIDING SWITCH

Check continuity between power seat switch LH as follows.

Terminal (+)	Terminal (–)	Condition	Continuity
7	3	Sliding switch ON (BACKWARD operation)	Yes
		Other than above	No
1		Sliding switch ON (FORWARD operation)	Yes
		Other than above	No



OK or NG

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

Reclining Switch Inspection

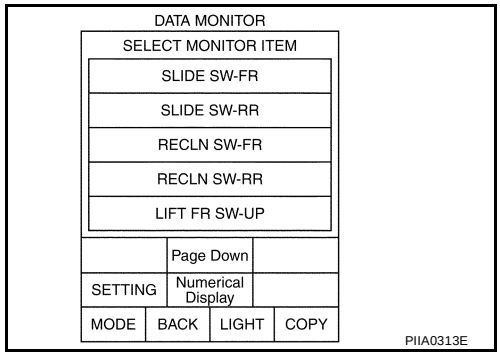
EIS002YY

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.

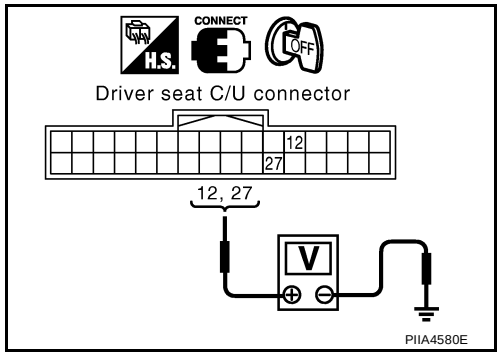
Monitor item [OPERATION or UNIT]		Contents
RECLN SW –FR	"ON/ OFF"	ON/OFF status judged from the reclining switch (FR) signal is displayed.
RECLN SW –RR	"ON/ OFF"	ON/OFF status judged from the reclining switch (RR) signal is displayed.



Without CONSULT-II

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

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



OK or NG

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

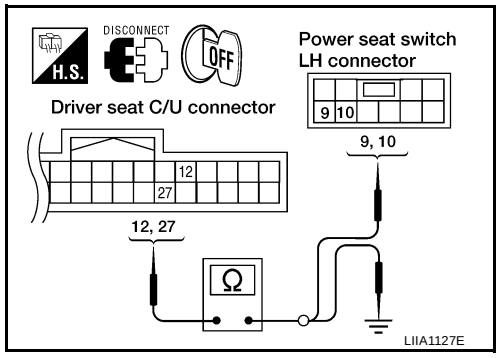
2. CHECK RECLINING SWITCH CIRCUIT HARNESS CONTINUITY

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

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

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

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



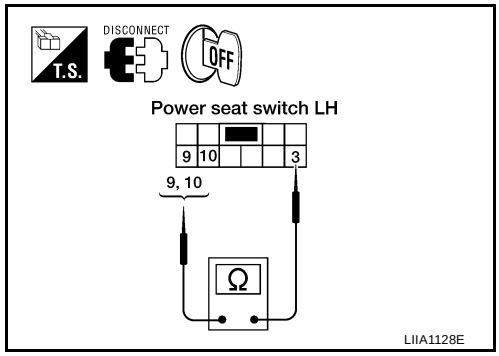
OK or NG

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

3. RECLINING SWITCH INSPECTION

Check continuity between power seat switch LH as follows.

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



OK or NG

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

Lifting Switch (Front) Circuit Inspection

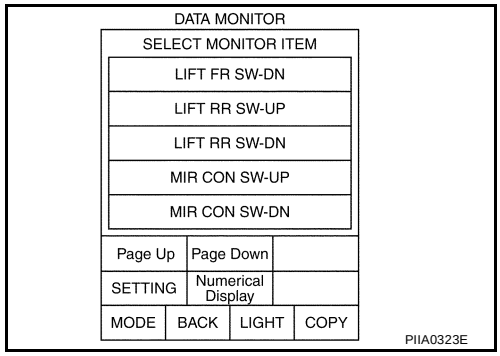
EIS002YZ

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.

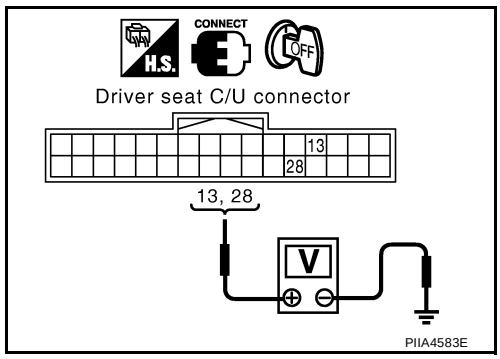
Monitor item [OPERATION or UNIT]		Contents
LIFT FR SW–DN	"ON/OFF"	ON / OFF status judged from the FR lifter switch (DOWN) signal is displayed.
LIFT RR SW–UP	"ON/OFF"	ON / OFF status judged from the RR lifter switch (UP) signal is displayed.



Without CONSULT-II

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

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



OK or NG

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

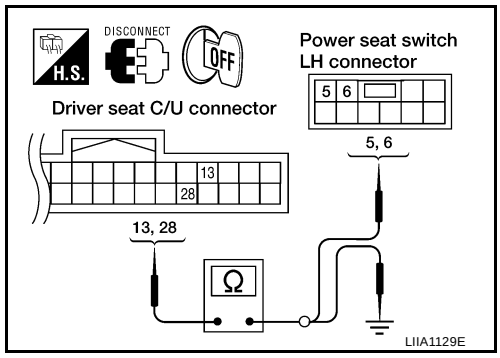
2. CHECK LIFTING SWITCH (FRONT) CIRCUIT HARNESS CONTINUITY

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

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

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

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



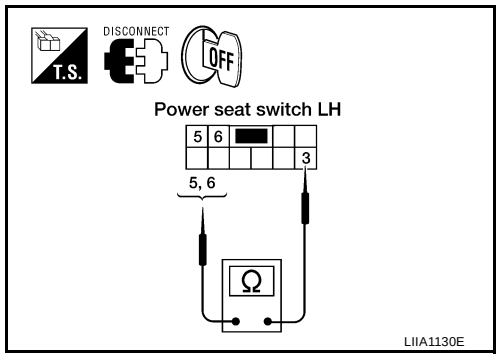
OK or NG

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

3. CHECK LIFTING SWITCH (FRONT)

Check continuity between power seat switch LH as follows.

Terminals (+)	Terminals (–)	Condition	Continuity
5	3	Lifting switch (front) ON (DOWN operation)	Yes
		Other than above	No
6		Lifting switch (front) ON (UP operation)	Yes
		Other than above	No



OK or NG

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

Lifting Switch (Rear) Circuit Inspection

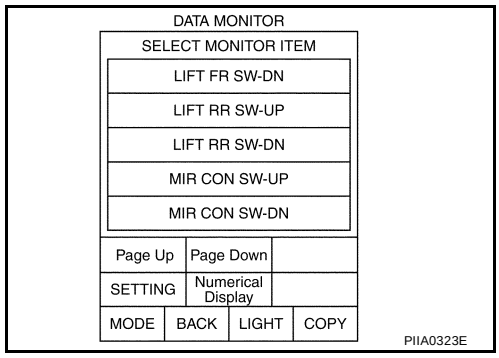
EIS002Z0

1. CHECK FUNCTION

With CONSULT-II

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

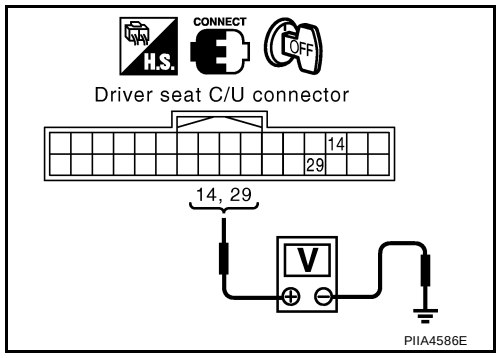
Monitor item [OPERATION or UNIT]		Contents
LIFT RR SW–UP	“ON/OFF”	Operation (ON)/open (OFF) status judged from the RR lifter switch (UP) signal is displayed.
LIFT RR SW–DN	“ON/OFF”	Operation (ON)/open (OFF) status judged from the RR lifter switch (DOWN) signal is displayed.



Without CONSULT-II

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

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



OK or NG

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

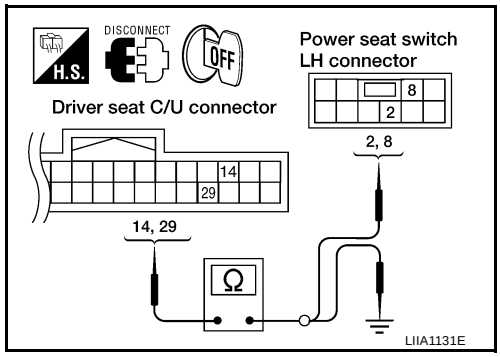
2. CHECK LIFTING SWITCH (REAR) CIRCUIT HARNESS CONTINUITY

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

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

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

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



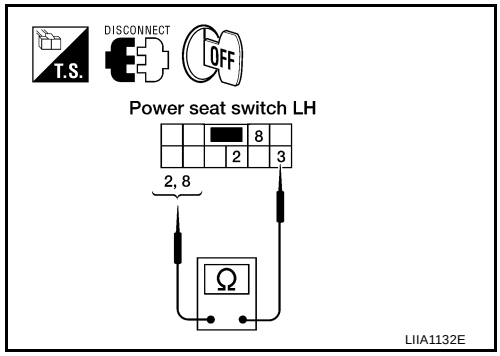
OK or NG

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

3. CHECK LIFTING SWITCH (REAR)

Check continuity between power seat switch LH as follows.

Terminals		Condition	Continuity
(+)	(–)		
8	3	Lifting switch (rear) ON (DOWN operation)	Yes
		Other than above	No
2		Lifting switch (rear) ON (UP operation)	Yes
		Other than above	No



OK or NG

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

Power Seat Switch Ground Inspection

EIS002Z1

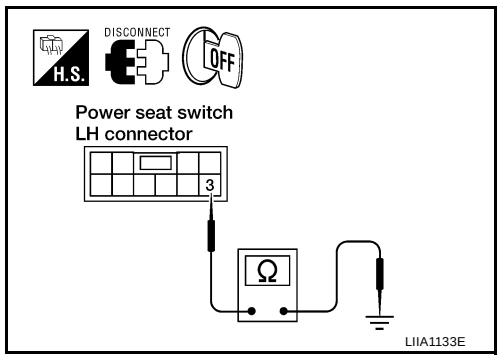
1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check continuity between power seat switch LH connector P8 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

OK or NG

OK >> Check the condition of the harness and connector.
NG >> Repair or replace harness.



Pedal Adjusting Switch Circuit Inspection

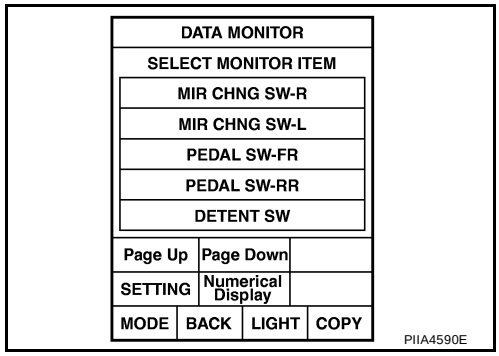
EIS002Z2

1. CHECK FUNCTION

With CONSULT-II

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

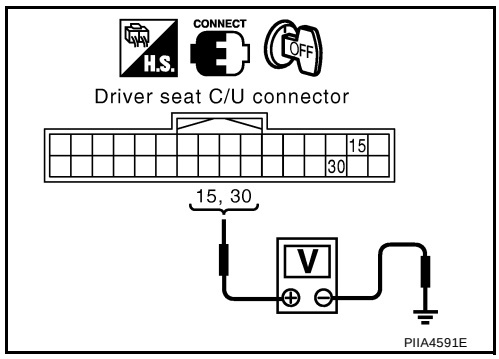
Monitor item [OPERATION or UNIT]		Contents
PEDAL SW–FR	"ON/OFF"	Operation (ON)/open (OFF) status judged from the pedal adjusting switch (FR) signal is displayed.
PEDAL SW–RR	"ON/OFF"	Operation (ON)/open (OFF) status judged from the pedal adjusting switch (RR) signal is displayed.



Without CONSULT-II

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

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



OK or NG

OK >> Pedal adjusting switch circuit is OK.
NG >> GO TO 2.

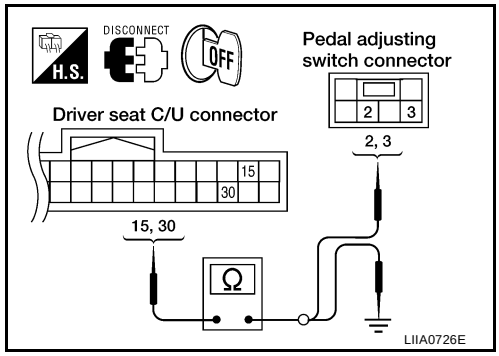
2. CHECK PEDAL ADJUSTING SWITCH CIRCUIT HARNESS CONTINUITY

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

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

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

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



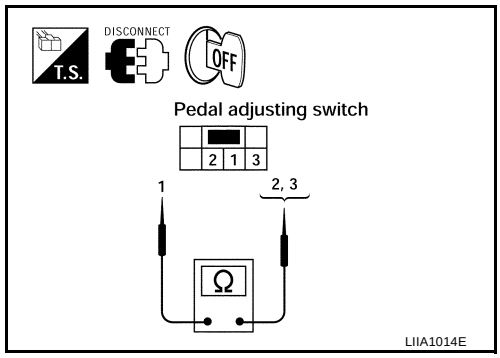
OK or NG

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

3. CHECK PEDAL ADJUSTING SWITCH

Check continuity between pedal adjusting switch as follows.

Terminals		Condition	Continuity
(+)	(–)		
2	1	Pedal adjusting switch ON (BACKWARD operation)	Yes
		Other than above	No
3		Pedal adjusting switch ON (FORWARD operation)	Yes
		Other than above	No



OK or NG

OK >> GO TO 4.
NG >> Replace pedal adjusting switch.

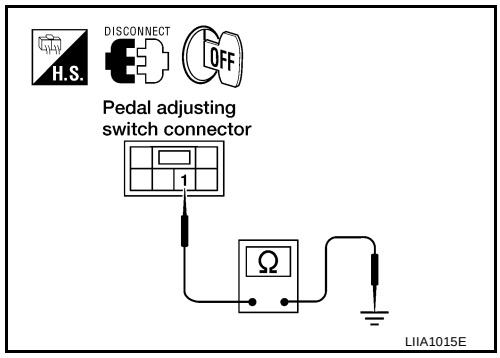
4. CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT

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

1 (B) - Ground : Continuity should exist.

OK or NG

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



Door Mirror Switch (Changeover Switch) Circuit Check

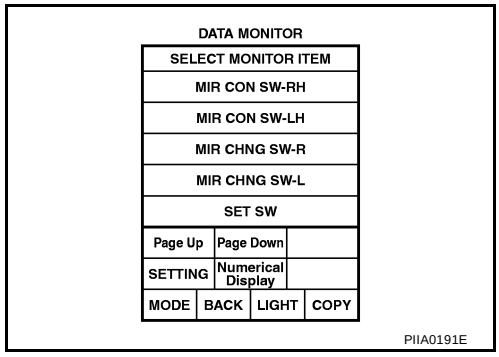
EIS002Z3

1. CHECK FUNCTION

With CONSULT–II

Check the operation on “MIR CHNG SW – R” or “MIR CHNG SW–L" in the DATA MONITOR.

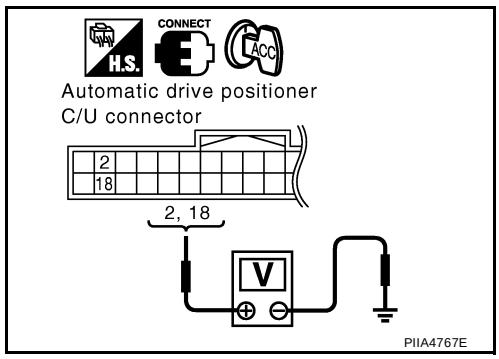
Monitor item [OPERATION or UNIT]		Contents
MIR CHNG SW–R	“ON/OFF”	ON/OFF status judged from the door mirror switch (switching to RIGHT) signal is displayed.
MIR CHNG SW–L	“ON/OFF”	ON/OFF status judged from the door mirror switch (switching to LEFT) signal is displayed.



Without CONSULT–II

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

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



OK or NG

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

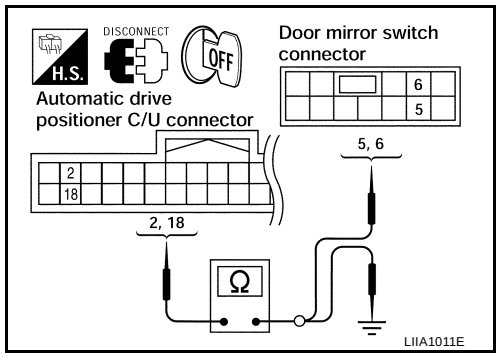
2. CHECK DOOR MIRROR SWITCH CIRCUIT HARNESS CONTINUITY

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

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

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

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



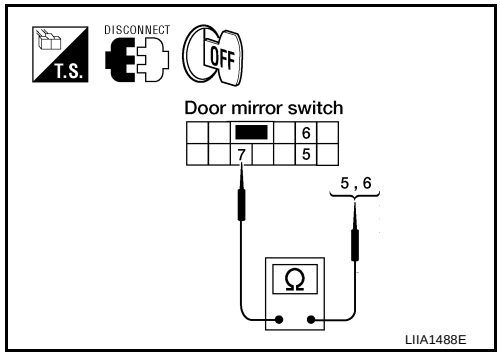
OK or NG

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

3. CHECK DOOR MIRROR SWITCH (CHANGEOVER SWITCH)

Check continuity between door mirror switch as follows.

Terminals (+)	Terminals (–)	Condition	Continuity
5	7	Changeover switch RIGHT position	Yes
		Other than above	No
6		Changeover switch LEFT position	Yes
		Other than above	No



OK or NG

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

Door Mirror Switch (Mirror Switch) Circuit Check

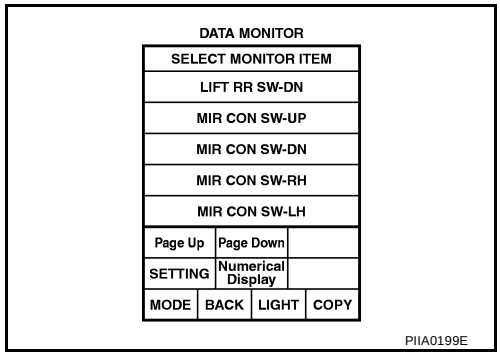
EIS002Z4

1. CHECK DOOR MIRROR SWITCH (MIRROR SWITCH) SIGNAL

With CONSULT–II

Check the operation on “MIR CON SW–UP/DN” and “MIR CON SW–RH/LH” in the DATA MONITOR.

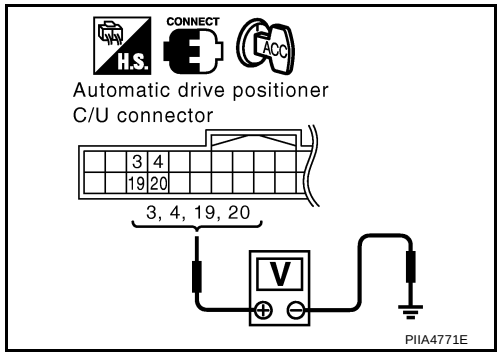
Monitor item [OPERATION or UNIT]		Contents
MIR CON SW –UP	“ON/OFF”	ON/OFF status judged from the door mirror switch (UP) signal is displayed.
MIR CON SW –DN	“ON/OFF”	ON/OFF status judged from the door mirror switch (DOWN) signal is displayed.
MIR CON SW –RH	“ON/OFF”	ON/OFF status judged from the door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



Without CONSULT–II

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

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



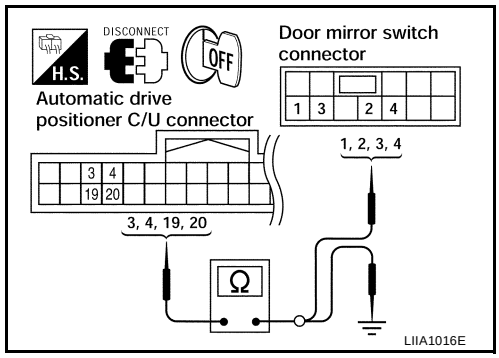
OK or NG

OK >> Door mirror switch (mirror switch) circuit is OK.
NG >> GO TO 2.

2. CHECK HARNESS CONTINUITY

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

3 (Y/B) - 3 (Y/B) : Continuity should exist.
4 (V/W) - 2 (V/W) : Continuity should exist.
19 (SB) - 4 (SB) : Continuity should exist.
20 (GR) - 1 (GR) : Continuity should exist.



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

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

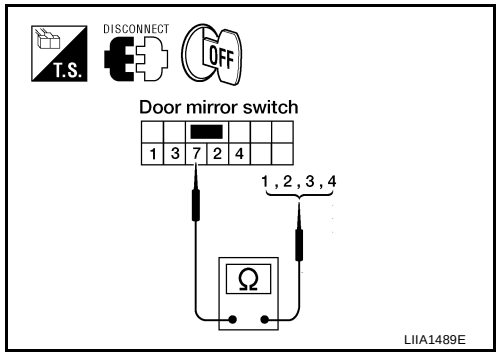
OK or NG

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

3. CHECK DOOR MIRROR SWITCH (MIRROR SWITCH)

Check continuity between door mirror switch as follows.

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



OK or NG

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

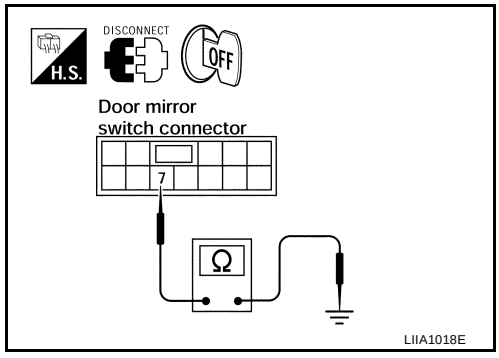
Door Mirror Switch Ground Circuit Inspection

EIS002Z5

1. CHECK DOOR MIRROR SWITCH GROUND CIRCUIT

Check continuity between door mirror switch connector D10 terminal 7 and ground.

7 (B) - Ground : Continuity should exist.



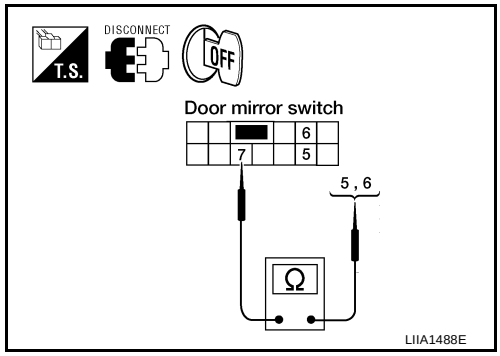
OK or NG

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

2. CHECK DOOR MIRROR SWITCH (CHANGEOVER SWITCH)

Check continuity between door mirror switch as follows.

Terminals (+)	Terminals (–)	Condition	Continuity
5	7	Changeover switch RIGHT position	Yes
		Other than above	No
6		Changeover switch LEFT position	Yes
		Other than above	No



OK or NG

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

Seat Memory Switch Circuit Inspection

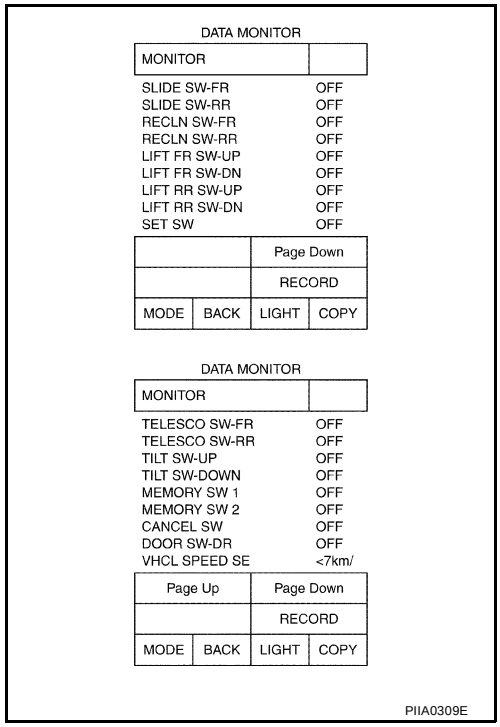
EIS002Z6

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
MEMORY SW1	“ON/OFF”	ON/OFF status judged from the seat memory switch 1 signal is displayed.
MEMORY SW2	“ON/OFF”	ON/OFF status judged from the seat memory switch 2 signal is displayed.
SET SW	“ON/OFF”	ON/OFF status judged from the setting switch signal is displayed.



Without CONSULT-II

GO TO 2.

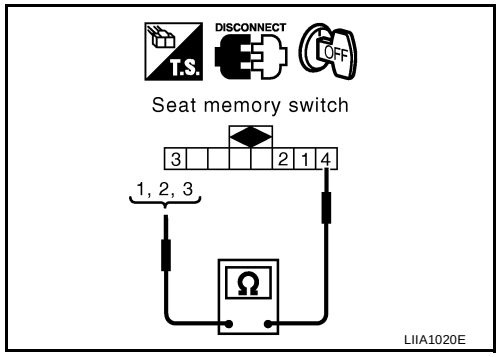
OK or NG

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

2. CHECK SEAT MEMORY SWITCH

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

Terminal		Condition	Continuity
(+)	(–)		
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.

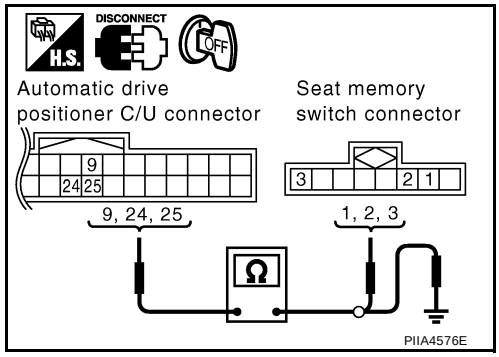
3. CHECK HARNESS CONTINUITY

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

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

3. Check continuity between automatic drive positioner control unit connector M41 terminals 9, 24, 25 and ground.

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



OK or NG

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

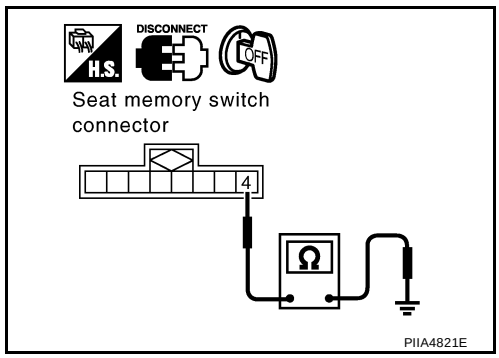
4. CHECK SEAT MEMORY SWITCH GROUND CIRCUIT

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

4 (B) - Ground : Continuity should exist.

OK or NG

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



Seat Memory Indicator Lamp Circuit Inspection

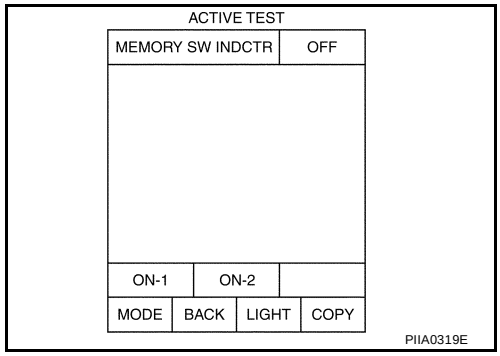
EIS002Z7

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.



Without CONSULT-II

GO TO 2.

OK or NG

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

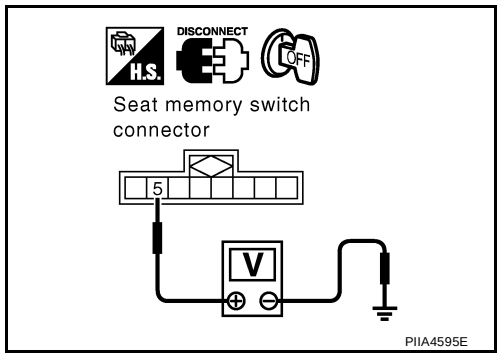
2. CHECK SEAT MEMORY SWITCH POWER SUPPLY CIRCUIT

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

5 (Y/R) - Ground : Battery voltage

OK or NG

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



3. CHECK SEAT MEMORY INDICATOR CIRCUIT HARNESS CONTINUITY

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

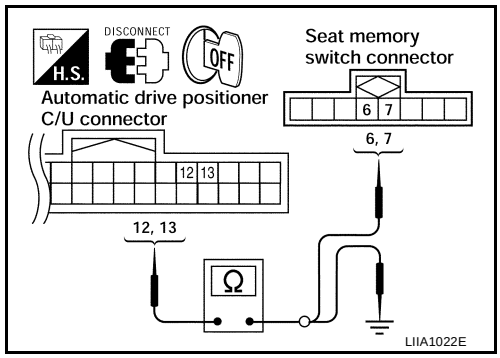
12 (P) - 6 (P) : Continuity should exist.
13 (Y/G) - 7 (Y/G) : Continuity should exist.

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

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

OK or NG

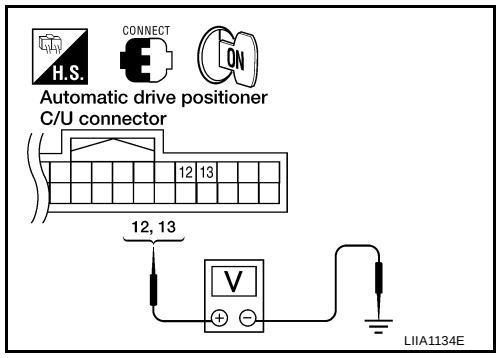
OK >> GO TO 4.
NG >> Repair or replace harness.



4. CHECK SEAT MEMORY SWITCH INDICATOR SIGNAL

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

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



OK or NG

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

Door Mirror Sensor Power Supply and Ground Circuit inspection

EIS002Z8

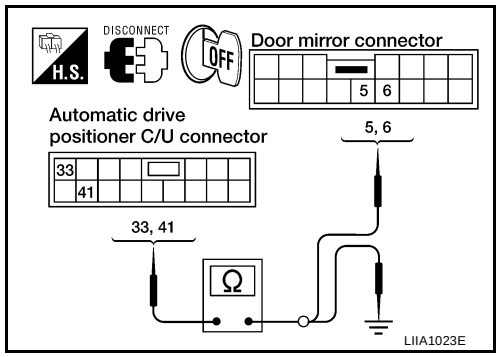
1. CHECK DOOR MIRROR SENSOR CIRCUIT HARNESS CONTINUITY

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

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

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

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



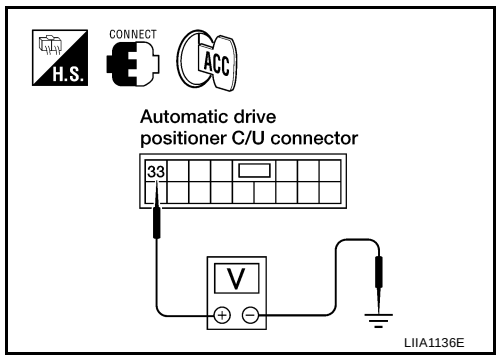
OK or NG

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

2. CHECK MIRROR SENSOR POWER SUPPLY

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

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



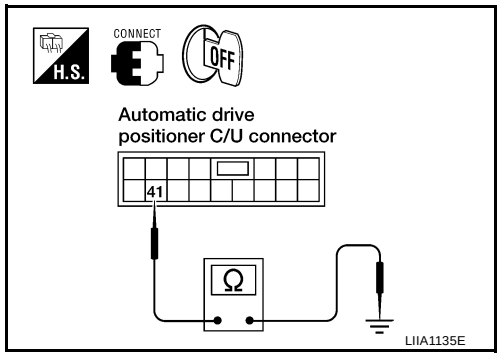
OK or NG

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

3. CHECK MIRROR SENSOR GROUND CIRCUIT

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

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



OK or NG

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

A/T Device (Detent Switch) Circuit Inspection

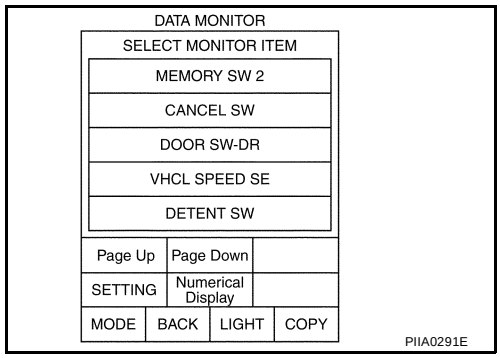
EIS002Z9

1. CHECK FUNCTION

With CONSULT-II

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

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



Without CONSULT-II

GO TO 2.

OK or NG

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

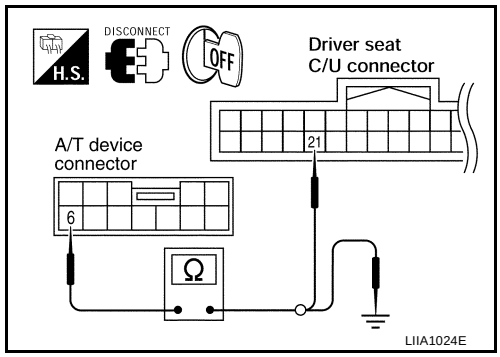
2. CHECK A/T DEVICE (DETENT SWITCH) HARNESS

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

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

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

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



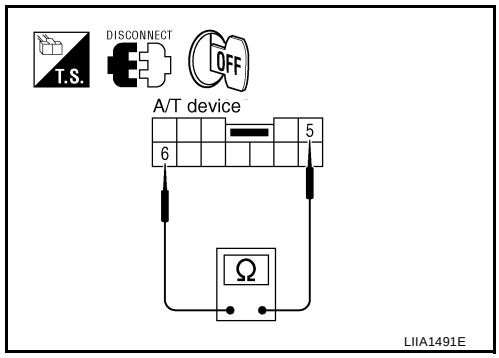
OK or NG

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

3. CHECK DETENTION SWITCH

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

Terminals		Condition	Continuity
(+)	(–)		
5	6	P position	Continuity should not exist.
		Other than P position	Continuity should exist.



OK or NG

OK >> A/T device is OK.
NG >> Replace A/T device.

Steering Wheel Tilt Switch Circuit Inspection

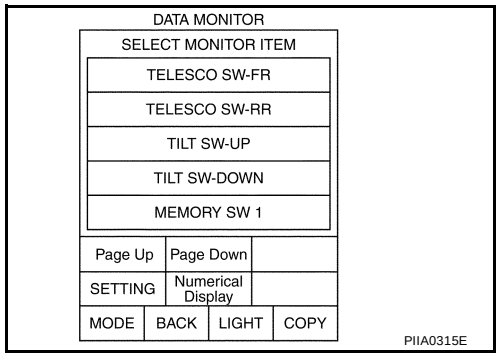
EIS0038N

1. CHECK FUNCTION

With CONSULT-II

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

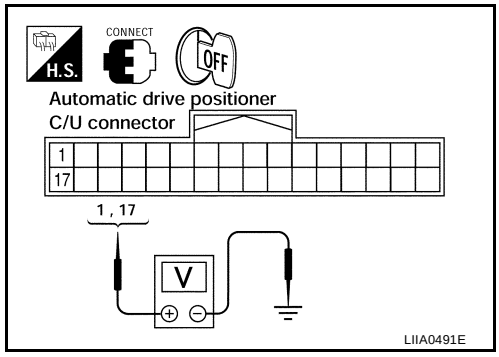
Monitor item [OPERATION or UNIT]		Contents
TILT SW-UP	“ON/OFF”	Operation (ON)/open (OFF) status judged from the tilt switch (FR) signal is displayed.
TILT SW-DOWN	“ON/OFF”	Operation (ON)/open (OFF) status judged from the tilt switch (RR) signal is displayed.



Without CONSULT-II

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

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
	(+)	(–)		
M33	1 (W/G)	Ground	Tilt switch ON (UP operation)	0
			Other than above	5
	17 (G/B)		Tilt switch ON (DOWN operation)	0
			Other than above	5



OK or NG

OK >> ADP steering wheel tilt switch circuit is OK.
NG >> GO TO 2.

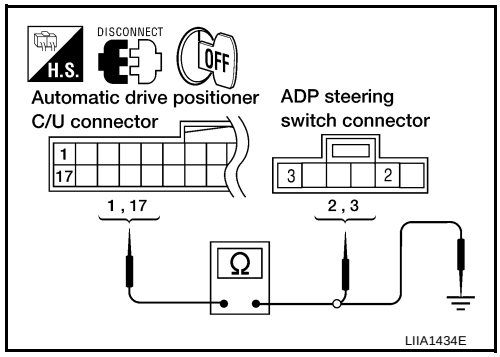
2. CHECK ADP STEERING WHEEL TILT SWITCH HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit connector and ADP steering wheel tilt switch.
2. Check continuity between automatic drive positioner control unit connector M33 terminals 1, 17 and ADP steering wheel tilt switch connector M16 terminals 2, 3.

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

3. Check continuity between automatic drive positioner control unit connector M33 terminals 1, 17 and ground.

1 (W/G) - Ground : Continuity should not exist.
17 (G/B) - Ground : Continuity should not exist.



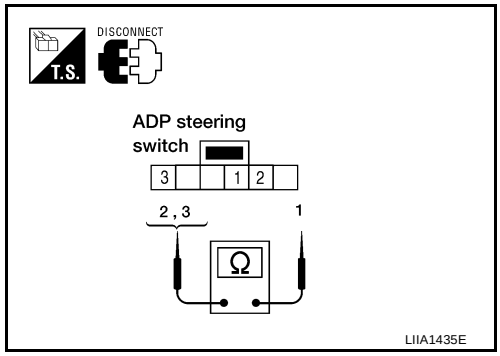
OK or NG

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

3. CHECK ADP STEERING WHEEL TILT SWITCH

Check continuity between ADP steering wheel tilt switch as follows.

Terminals (+)	Terminals (–)	Condition	Continuity
2	1	Tilt switch ON (UP operation)	Yes
		Other than above	No
3		Tilt switch ON (DOWN operation)	Yes
		Other than above	No



OK or NG

OK >> GO TO 4.
NG >> Replace ADP steering wheel tilt switch.

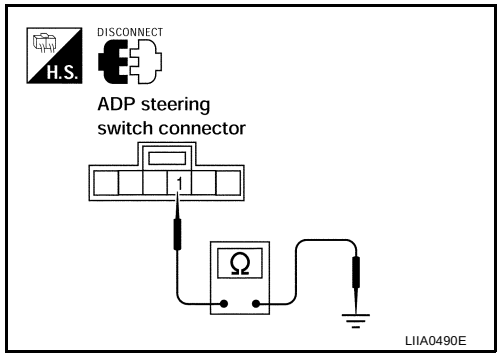
4. CHECK ADP STEERING WHEEL TILT SWITCH GROUND CIRCUIT

Check continuity between ADP steering wheel tilt switch connector M16 terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

OK or NG

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



Front Door Switch LH Circuit Inspection

EIS002ZA

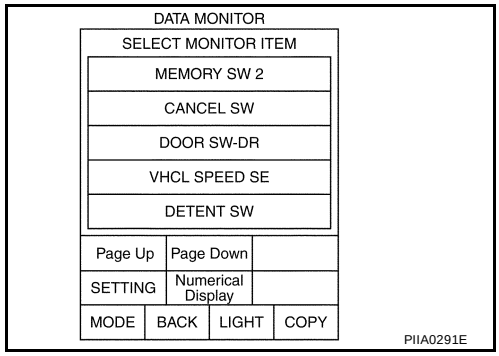
1. CHECK FUNCTION

With CONSULT-II

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

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

*:Refer to SE-40, "DATA MONITOR" .



Without CONSULT-II

GO TO 2.

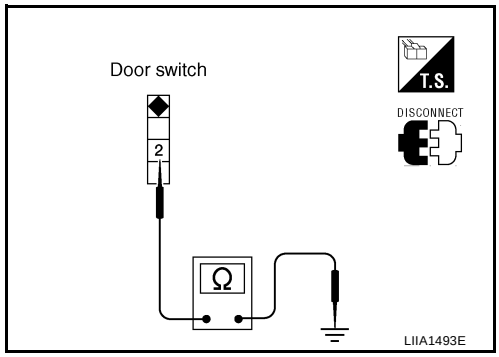
OK or NG

OK >> Front door switch LH circuit is OK.
NG >> GO TO 2.

2. CHECK FRONT DOOR SWITCH LH

1. Turn ignition switch OFF.
2. Disconnect front door switch.
3. Check continuity between front door switch LH terminal 2 and ground.

Terminals (+)	Terminals (–)	Condition	Continuity
2	Ground	With the front door switch LH pressed	No
		With the front door switch LH released	Yes



OK or NG

OK >> GO TO 3.
NG >> Replace front door switch LH.

3. CHECK HARNESS CONTINUITY

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

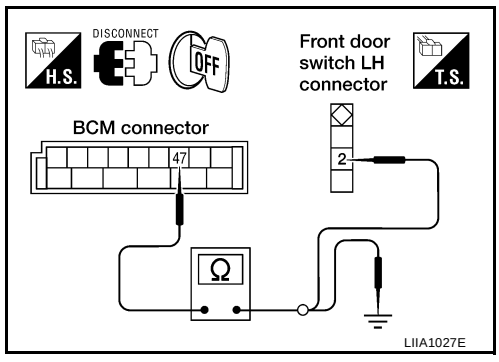
47 (SB) - 2 (SB) : Continuity should exist.

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

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

OK or NG

OK >> Front door switch LH circuit is OK.
NG >> Repair or replace harness.

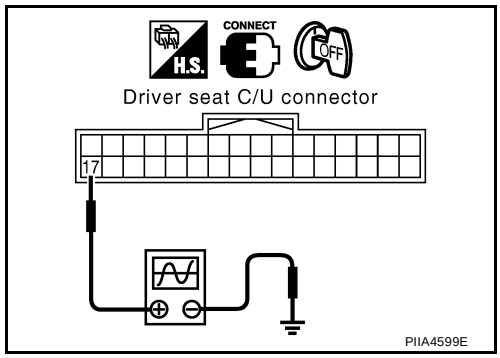


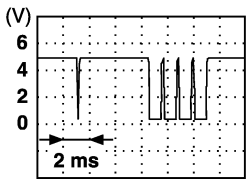
UART Communication Line Circuit Inspection

EIS002ZB

1. CHECK UART LINE INPUT/OUTPUT SIGNAL 1

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



Connector	Terminals (Wire color)		Condition	Signal
	(+)	(–)		
P2	17 (W)	Ground	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	

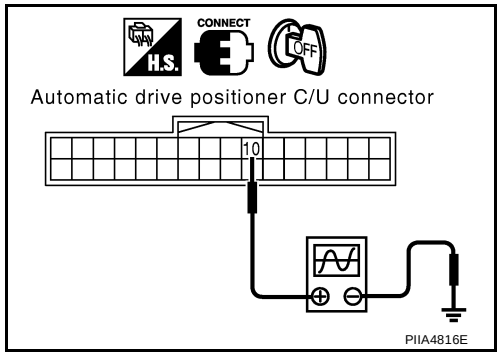
OK or NG

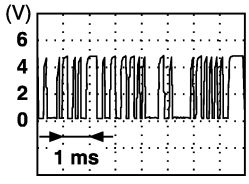
OK >> GO TO 2.
NG >> Check the following.

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

2. CHECK UART LINE INPUT/OUTPUT SIGNAL 2

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



Connector	Terminals (Wire color)		Condition	Signal
	(+)	(–)		
M33	10 (L)	Ground	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	

OK or NG

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

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

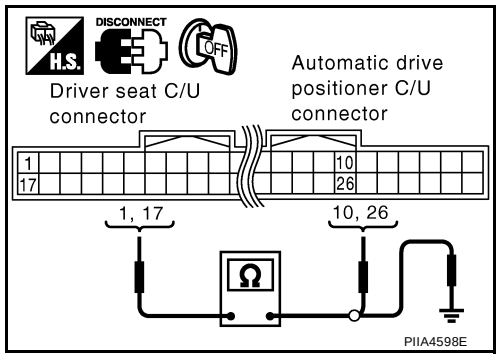
3. CHECK UART LINE HARNESS

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

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

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

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



OK or NG

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

4. CHECK DRIVER SEAT CONTROL UNIT

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

OK or NG

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

Removal and Installation

EIS002ZC

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

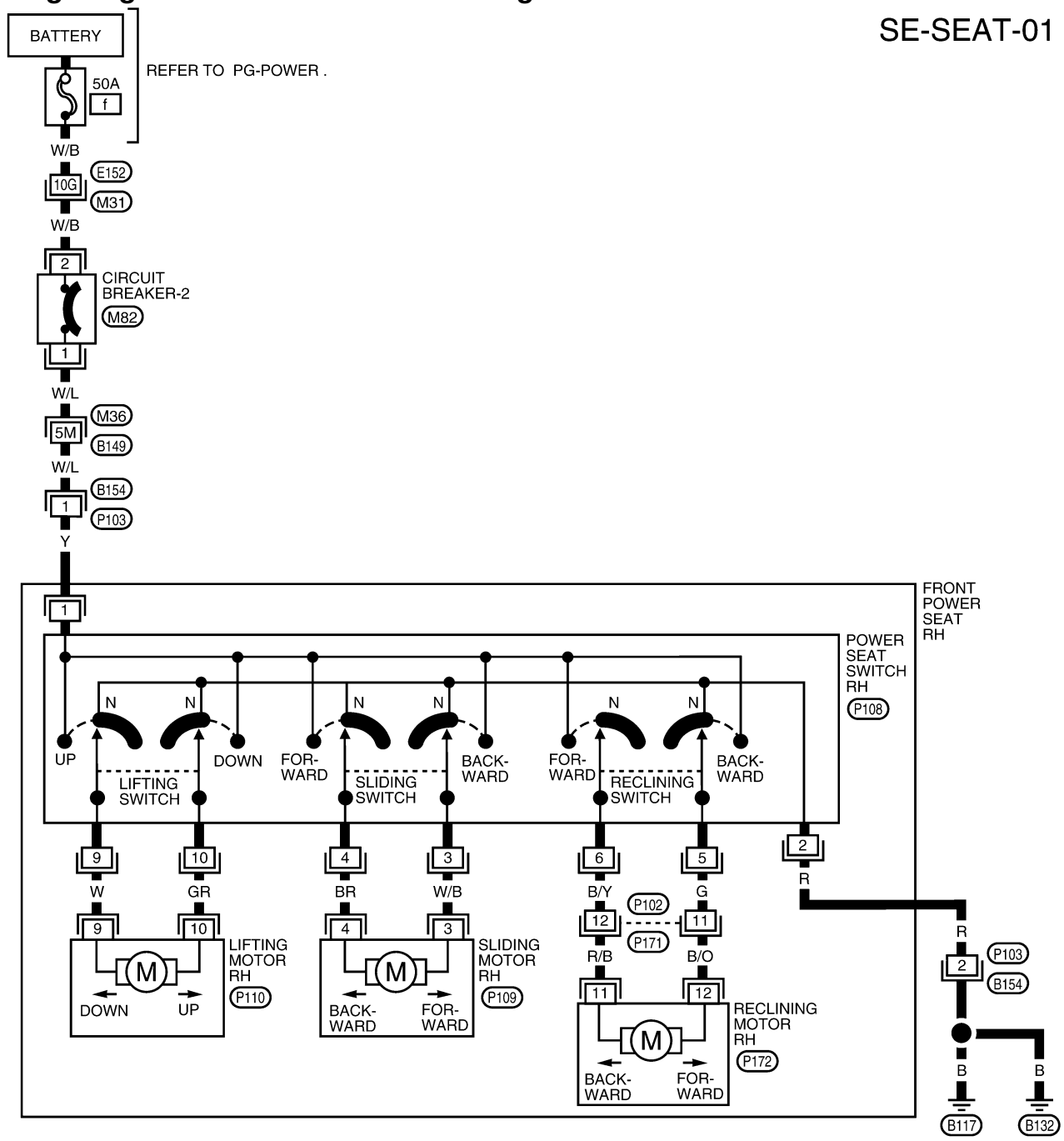
POWER SEAT

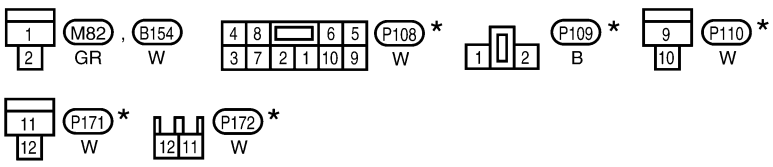
PFP:87016

Wiring Diagram — SEAT — for Passenger Seat

EIS003EQ

SE-SEAT-01





REFER TO THE FOLLOWING.
M31 , M36 - SUPER MULTIPLE JUNCTION (SMJ)

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

WIWA0638E

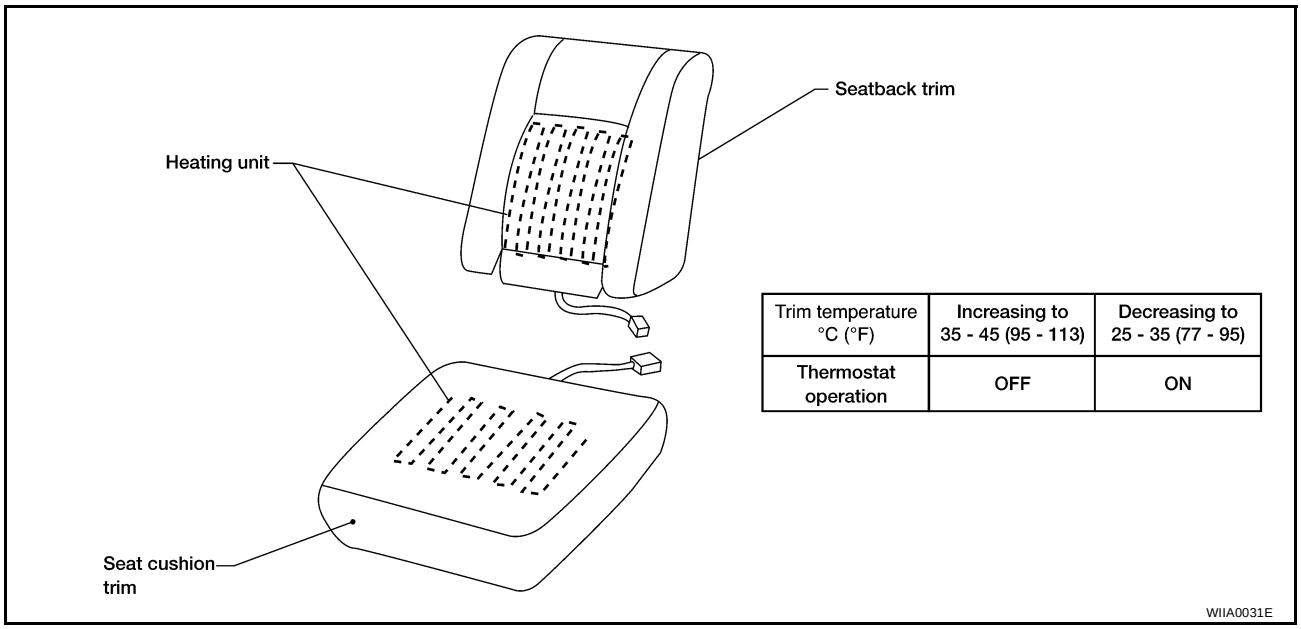
HEATED SEAT

PFP:87335

Description

EIS002ZF

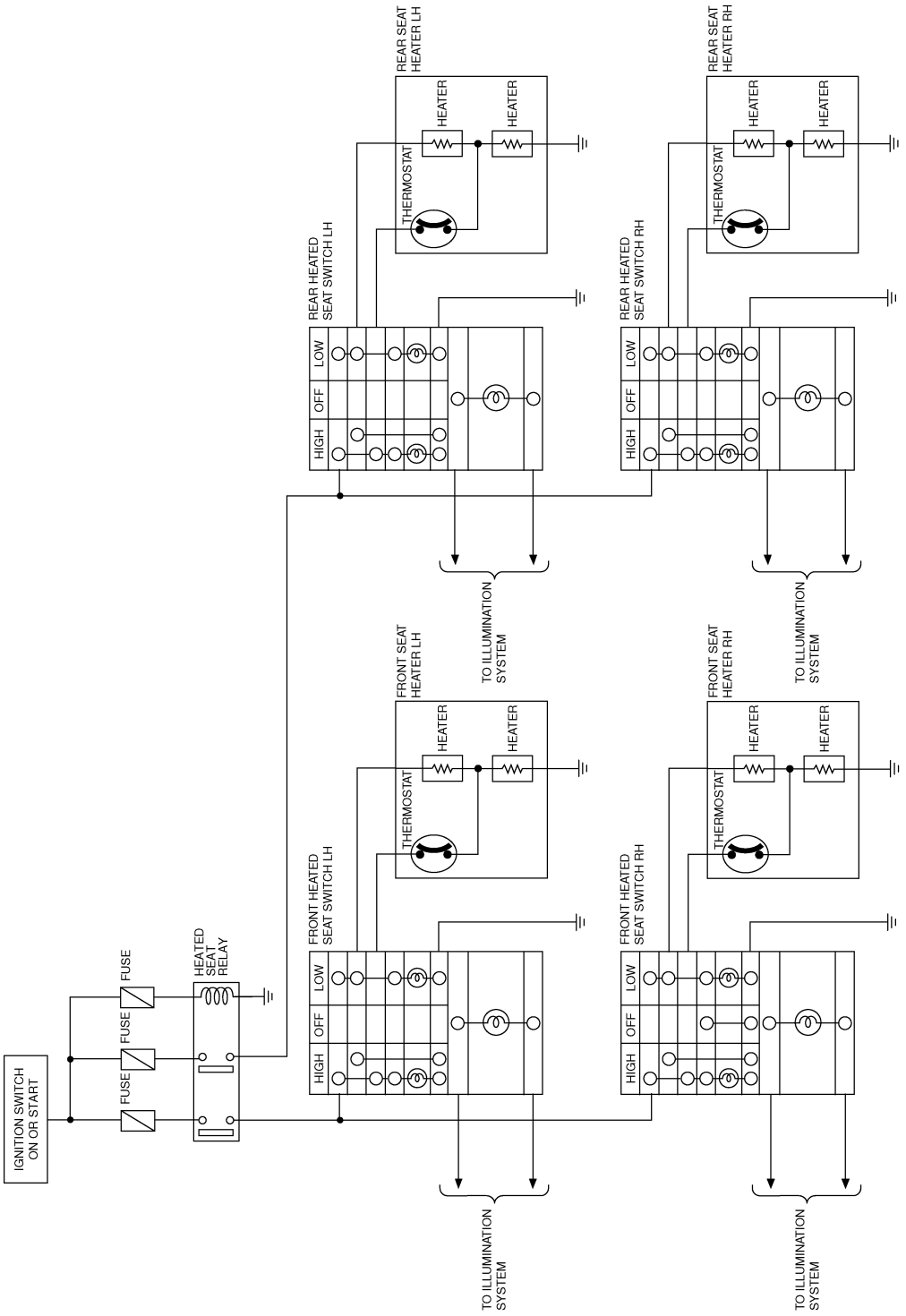
- When handling seat, be extremely careful not to scratch heating unit.
- To replace heating unit, seat trim and pad should be separated for front seat cushion LH. For seatback and front seat cushion RH, complete cushion or seatback assembly must be replaced.
- Do not use any organic solvent, such as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



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

Schematic

EIS002ZG

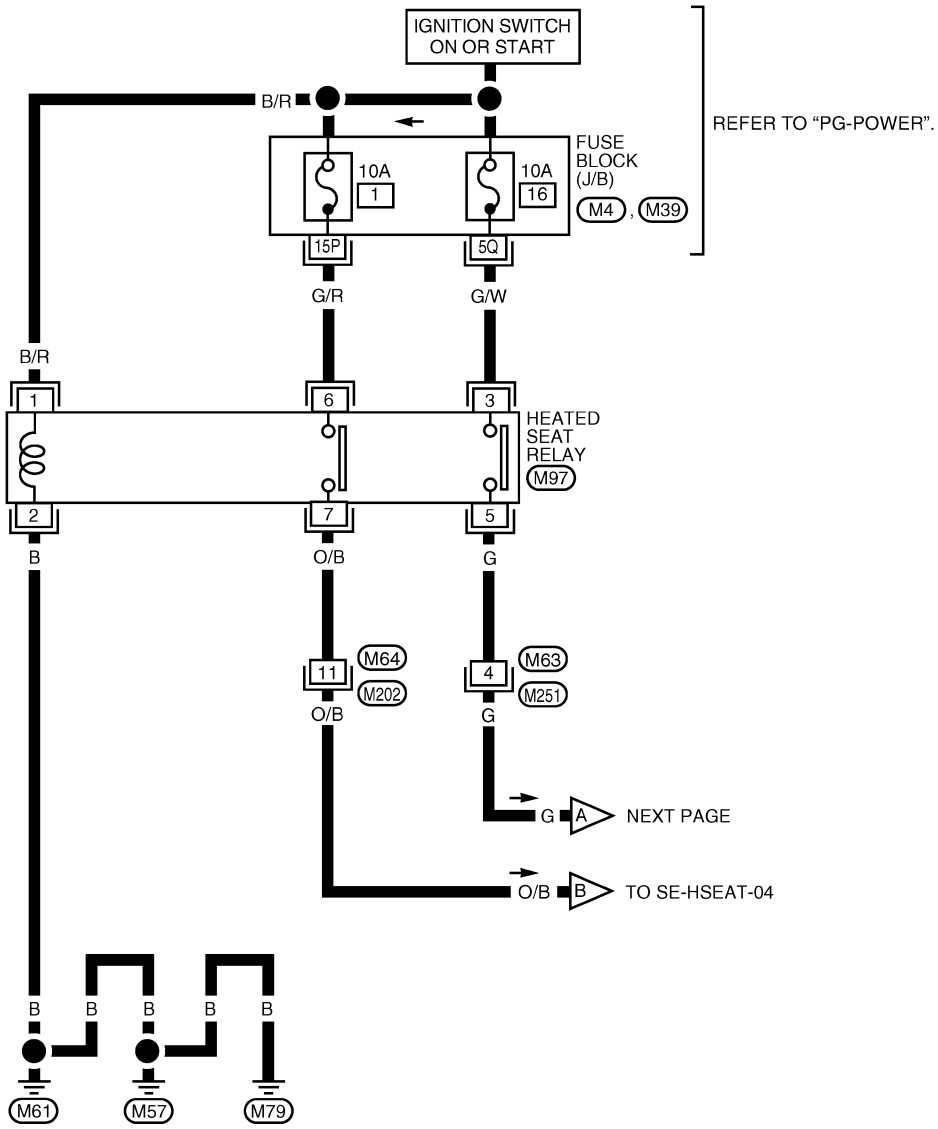


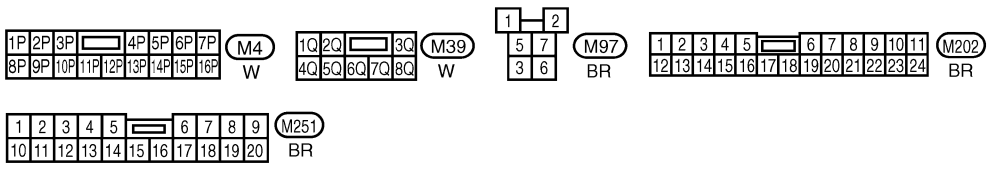
WIWA1107E

Wiring Diagram — HSEAT —

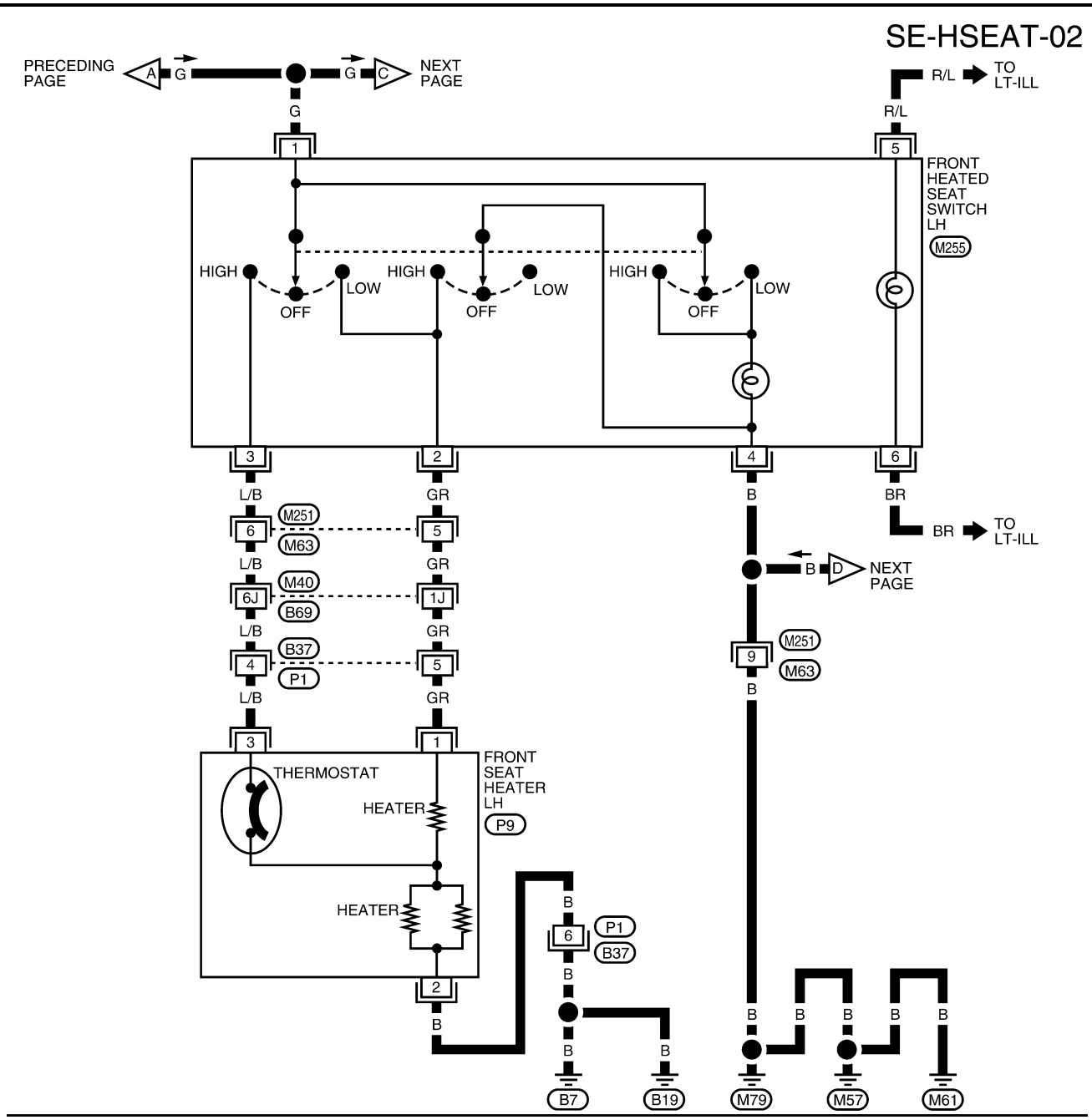
EIS002ZH

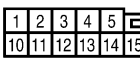
SE-HSEAT-01

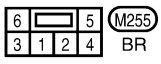


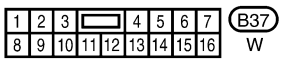


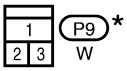
LIWA0443E









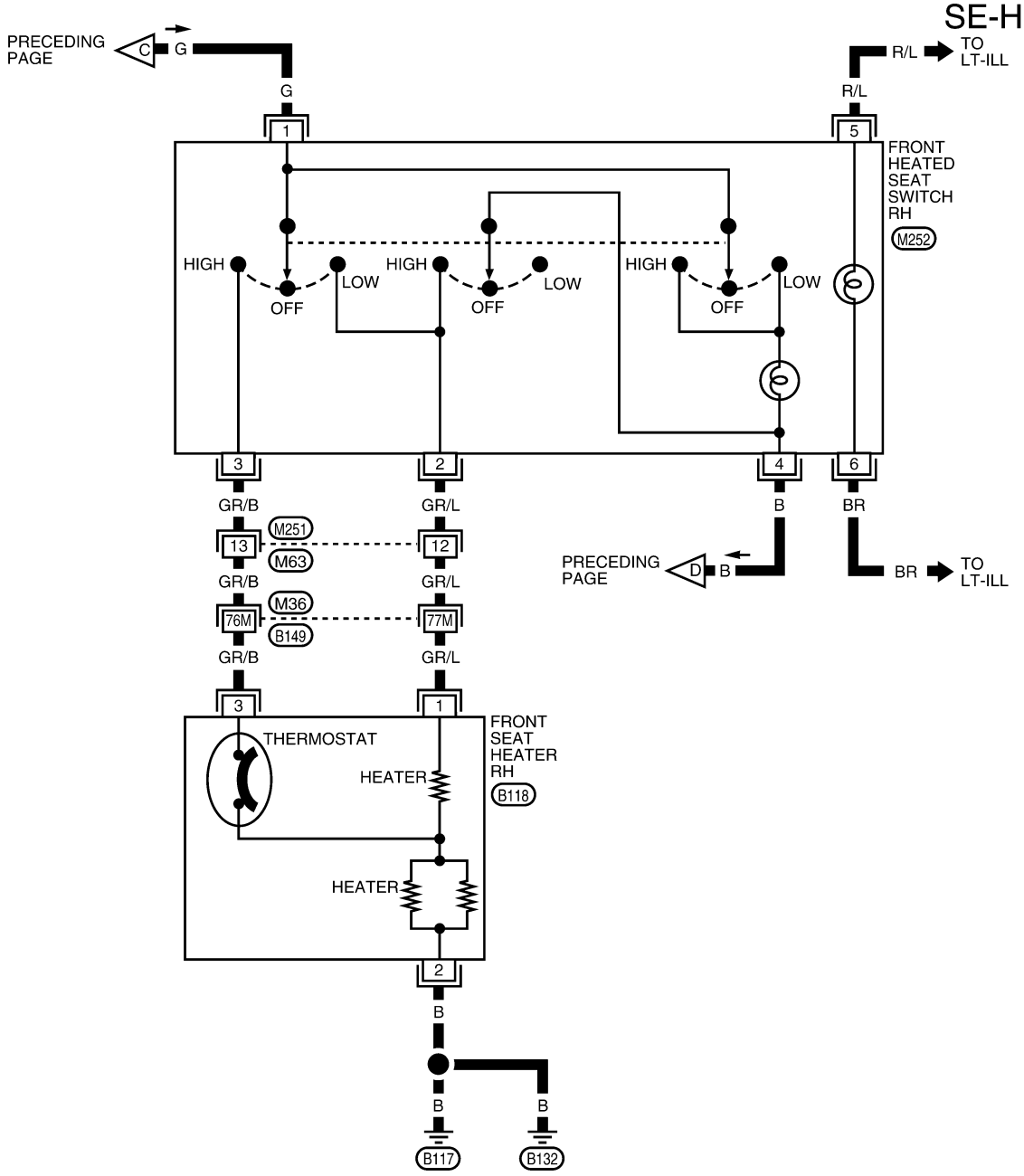


REFER TO THE FOLLOWING.
M40 - SUPER MULTIPLE JUNCTION (SMJ)

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

WIWA0588E

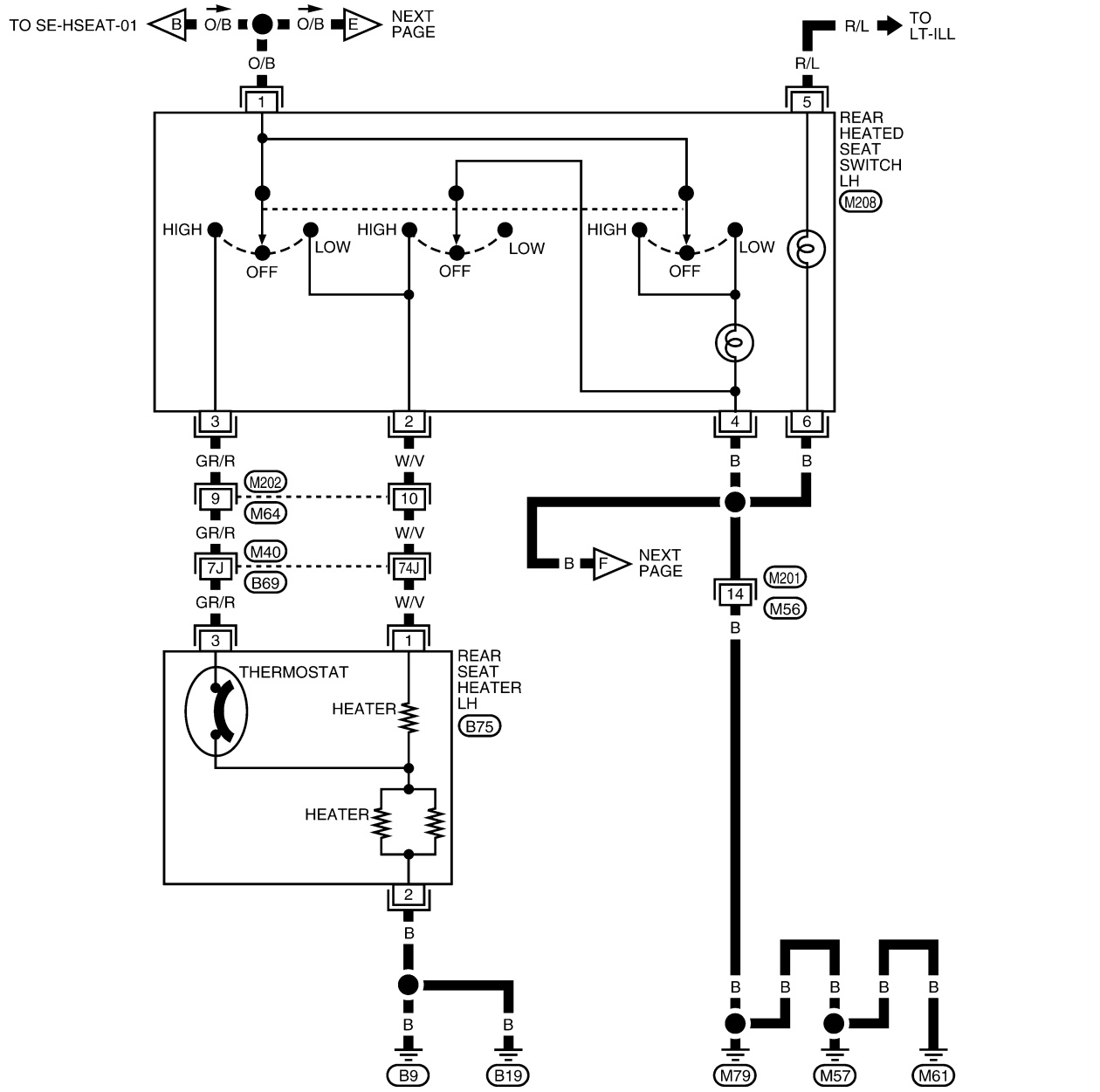
SE-HSEAT-03

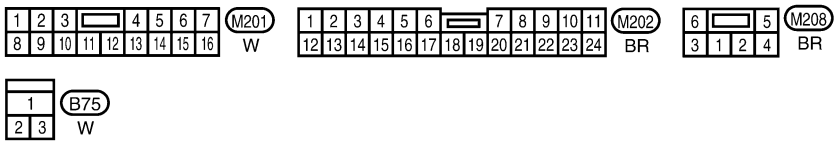


REFER TO THE FOLLOWING.
M36 - SUPER MULTIPLE JUNCTION (SMJ)

WIWA0589E

SE-HSEAT-04

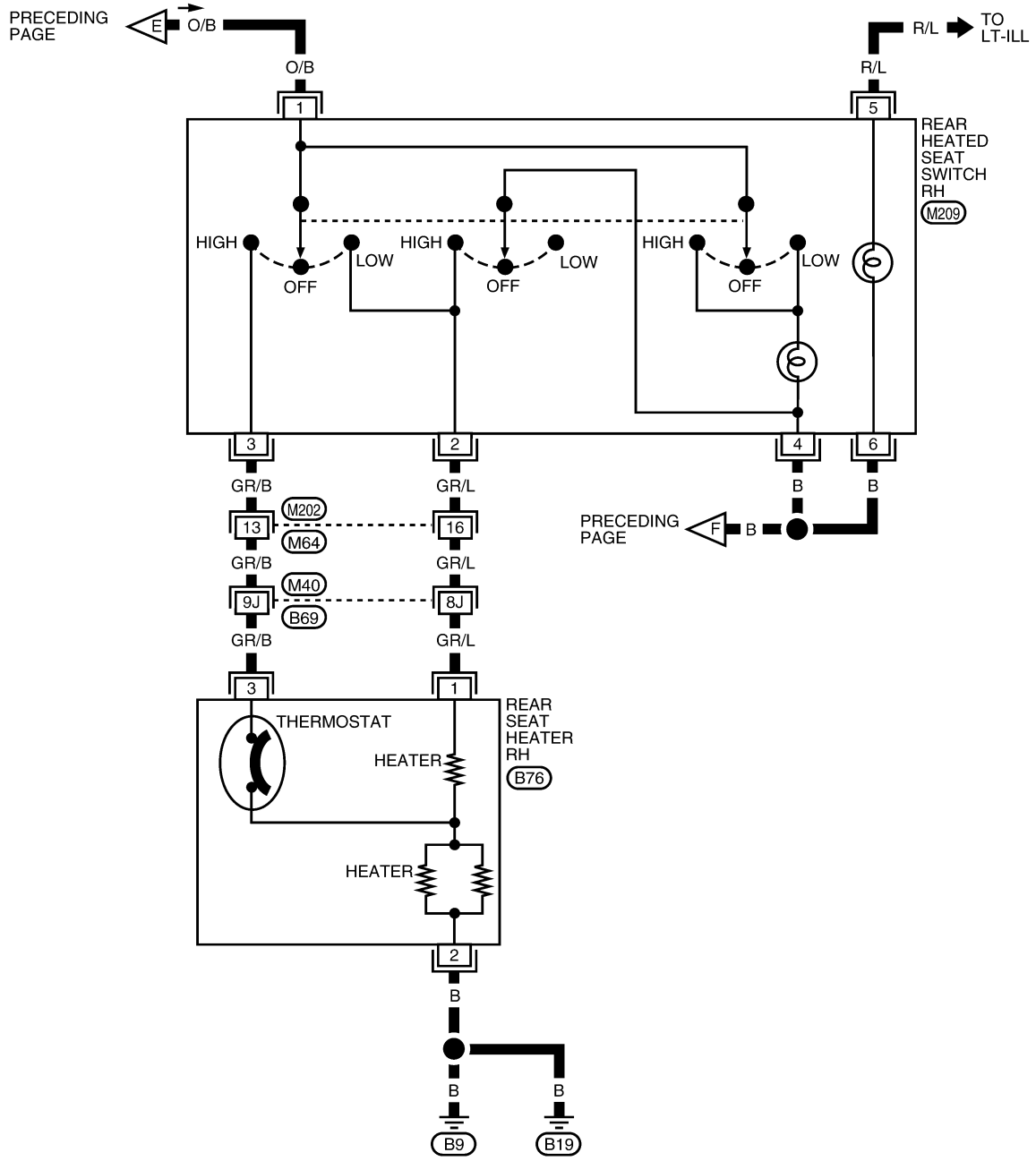




REFER TO THE FOLLOWING.
M40 - SUPER MULTIPLE JUNCTION (SMJ)

WIWA0639E

SE-HSEAT-05



REFER TO THE FOLLOWING.
M40 - SUPER MULTIPLE JUNCTION (SMJ)

WIWA1148E

FRONT SEAT

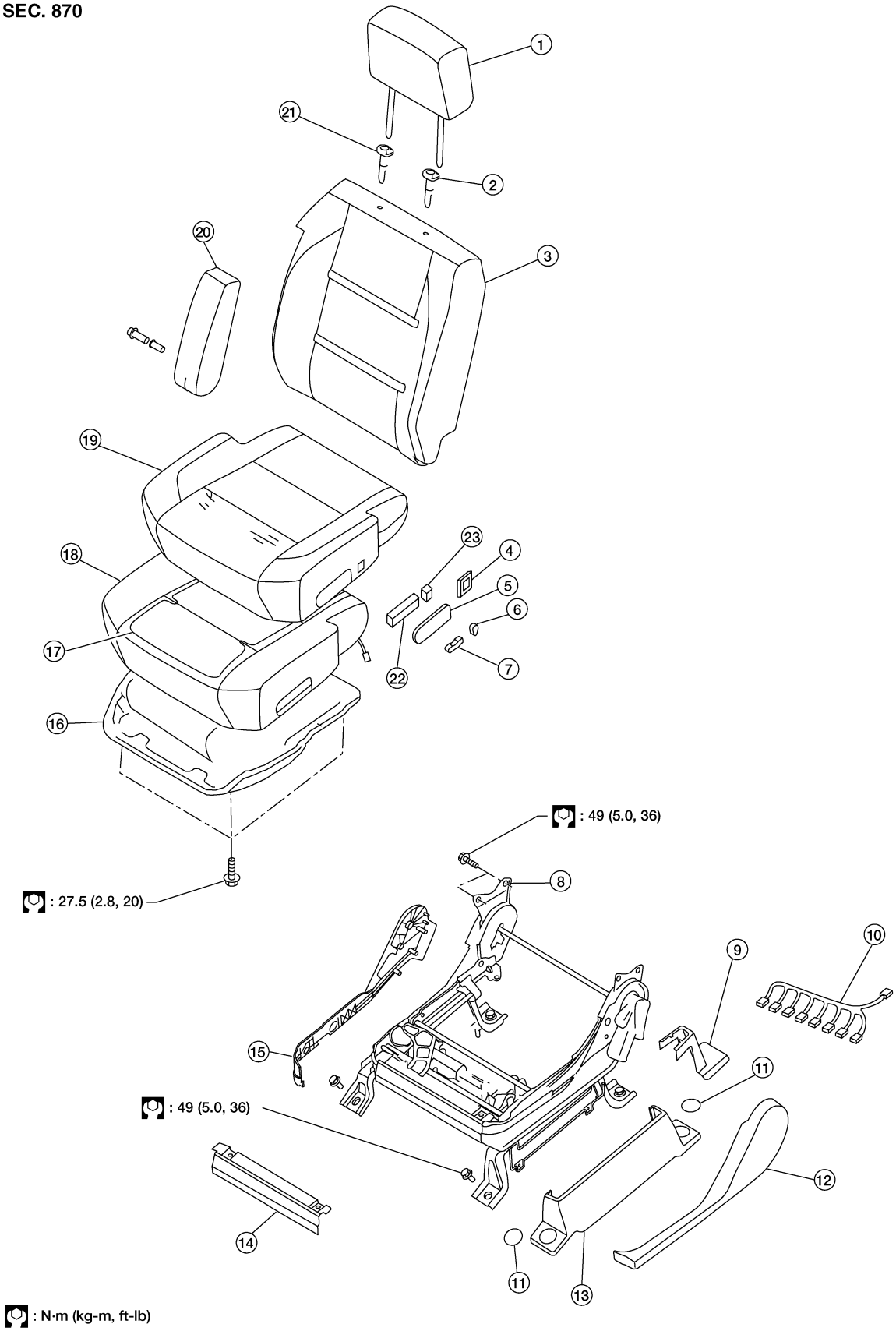
PFP:87000

Components

EIS002ZI

Driver Seat

SEC. 870

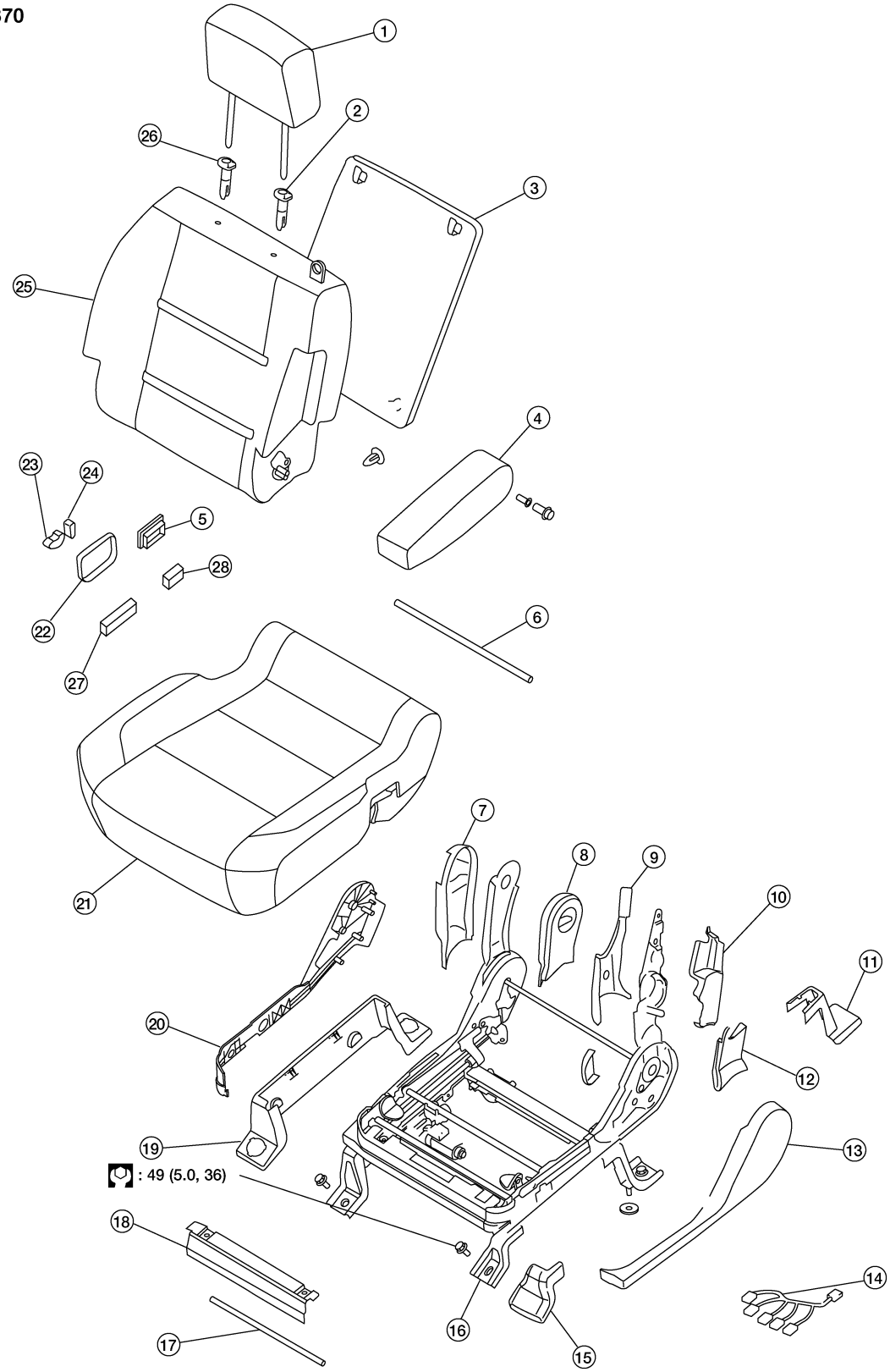


LIIA1578E

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

Passenger Seat

SEC. 870



WIIA0476E

1. Headrest
2. Headrest holder with multi-position lock
3. Seatback board
4. Armrest assembly
5. Lumbar switch bezel
6. Fold flat link bar

7. Outboard reclining arm outer cover
8. Outboard reclining arm inner cover
9. Inboard reclining arm inner cove
10. Latch cover
11. LH outer leg cover
12. Outboard reclining arm inner cover
13. Seat cushion inner cover
14. Passenger seat wiring harness
15. Inner front leg cover
16. Power seat frame assembly
17. NVH assembly
18. Seat cushion front finisher
19. Outer pedestal finisher
20. Seat cushion outer finisher
21. Seat cushion assembly
22. Power seat switch escutcheon
23. Slide switch knob
24. Recliner switch knob
25. Seatback assembly
26. Headrest holder
27. Seat slide/ recline switch
28. Power lumbar switch

Removal and Installation

EIS007N5

REMOVAL

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

CAUTION:

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

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

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

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

INSTALLATION

- Installation is in the reverse order of removal.

Disassembly and Assembly

EIS002ZJ

SEATBACK TRIM AND PAD

Disassembly

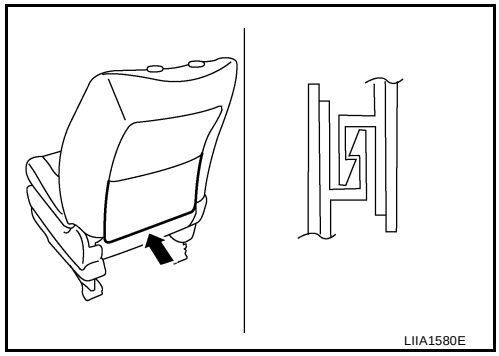
NOTE:
Only complete seatback assemblies can be replaced on vehicles equipped with side air bags.

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

Driver Seat

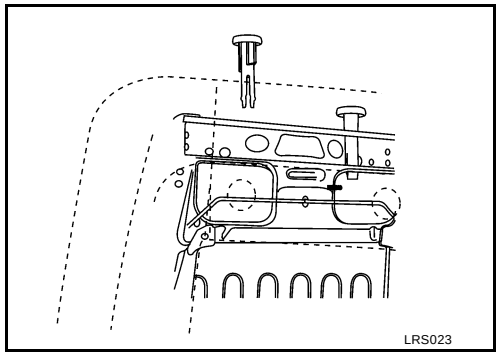
1. Remove the headrest.

2. Unhook the j-channel.



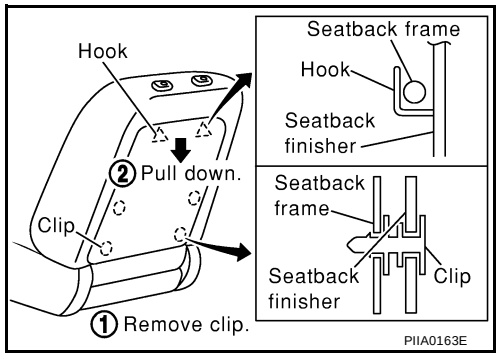
3. From inside of the seatback, squeeze the headrest holder tabs at the base of the stay pipe and pull up to remove.

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

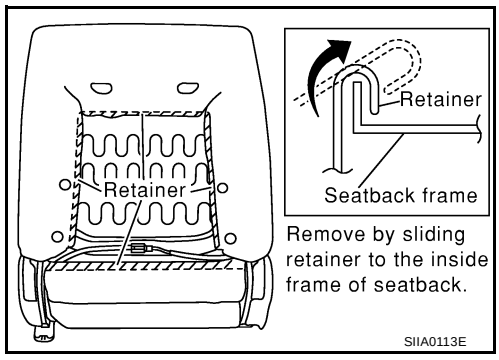


Passenger Seat

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

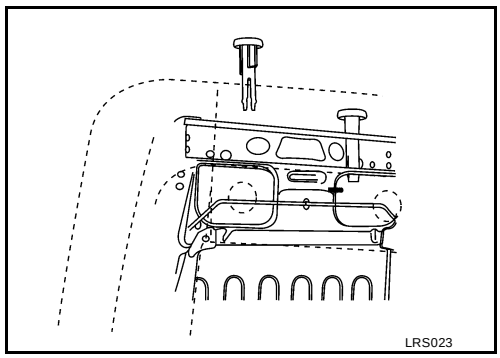


3. Remove the retainer.



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

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



Assembly

Assembly is in the reverse order of disassembly.

REMOVAL OF SEATBACK ASSEMBLY

1. Remove the headrest.
2. For driver seatback unhook the j-channel. For passenger seatback, remove the seatback board from the back of the seatback.
3. Remove the side air bag harness connector from the seat cushion.
4. Remove the mounting bolts (2 for each side) and seatback assembly.

INSTALLATION OF SEATBACK ASSEMBLY

- Installation is in the reverse order of removal.

SEAT CUSHION TRIM AND PAD

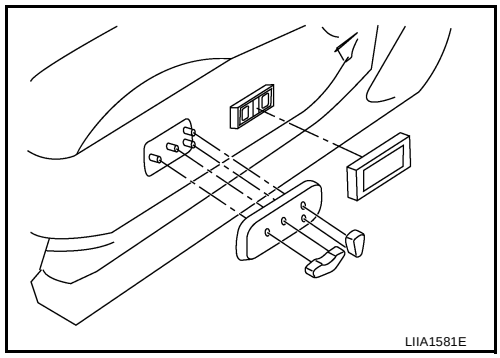
Disassembly

CAUTION:

- **Front passenger seat is equipped with an Occupant Classification System sensor and control module. Do not disassemble front passenger seat cushion assembly or remove the trim as this will affect the Occupant Classification System calibration.**
- **Always replace passenger seat cushion as an assembly.**
- **When removed, the passenger seat cushion must always be placed pan side UP to prevent damage.**
- **During installation, the wire harness clips must be reinstalled in the holes they were originally in. Do not add additional clips.**
- **The Occupant Classification System control module can only be replaced as part of the seat cushion assembly.**

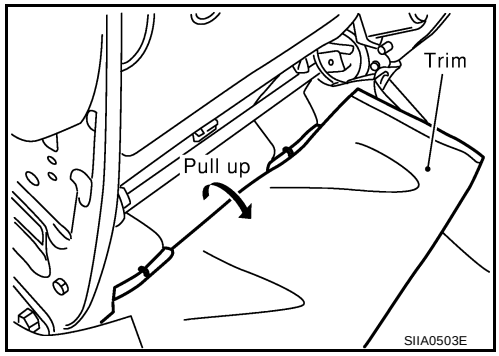
NOTE:
If the vehicle has been involved in a collision the seat must be inspected for damage. Refer to SRS-60, "COLLISION DIAGNOSIS" .

1. Remove the power seat switch knobs, power seat switch escutcheon and lumbar switch bezel.

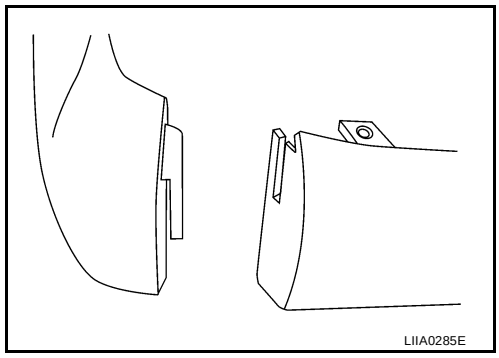


2. Remove the power seat and power lumbar switches.

3. Remove four bolts and the seat cushion assembly.



4. Remove the retainer on the seat cushion frame, then remove the harness connector for the seat heater.
5. Remove the front seat cushion finisher (inner).



6. On the drivers seat only, after removing the seat cushion trim and pad, remove the hog rings to separate the trim cover from the pad and seat cushion heater unit.

Assembly

Assembly is in the reverse order of disassembly.

REAR SEAT

PFP:88300

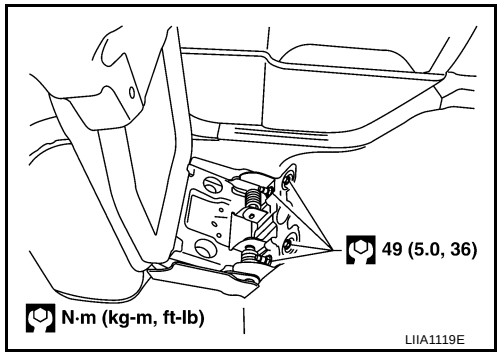
Removal and Installation

EIS002ZK

SECOND ROW OUTBOARD

Removal

1. Remove seat base trim cover.
2. Lift handle and tilt seat forward.
3. DIsconnect the seat cushion heating element electrical connector.
4. Remove seat anchor nuts, bolts and seat assembly.



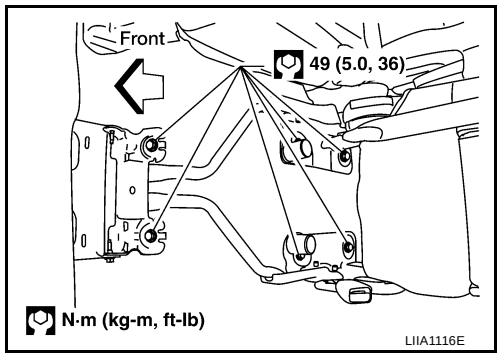
Installation

Installation is in the reverse order of removal.

SECOND ROW CENTER

Removal

1. Tilt the seat cushion forward.
2. Remove the seat anchor bolts.
3. Tilt the seat cushion back and remove the seat.



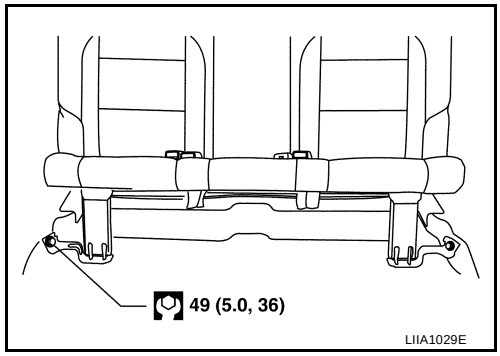
Installation

Installation is in the reverse order of removal.

THIRD ROW

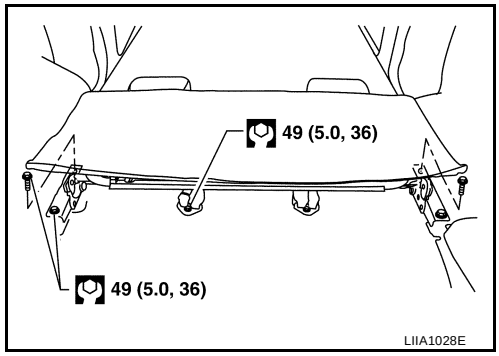
Removal

1. Remove the lower base trim covers.
2. Remove front anchor bolts.



3. Retract the seat into the cargo floor position.

4. Remove the rear anchor bolts from the seat assembly.
5. Remove the seat assembly.



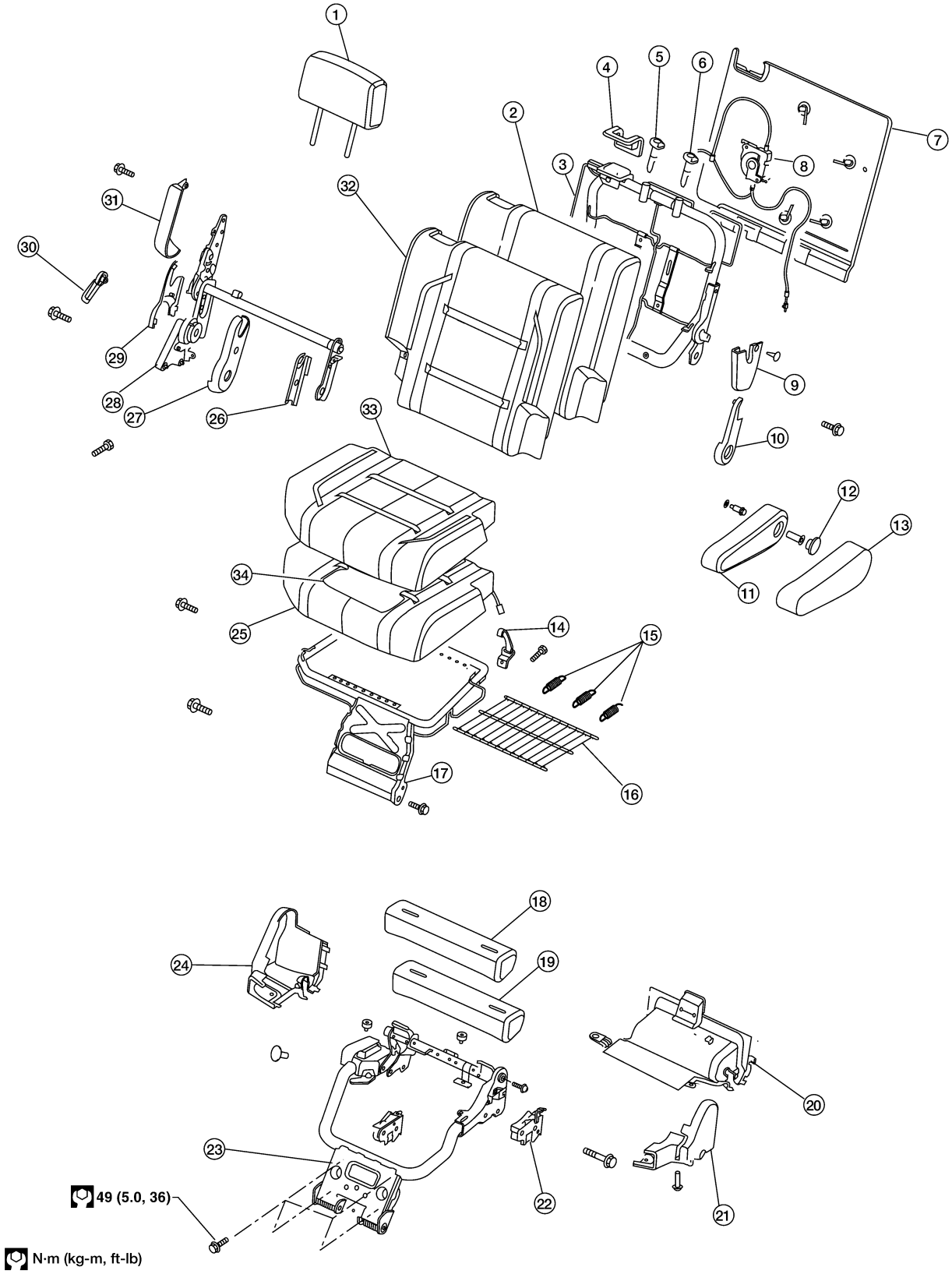
Installation

Installation is in the reverse order of removal.

Disassembly and Assembly

EIS002ZL

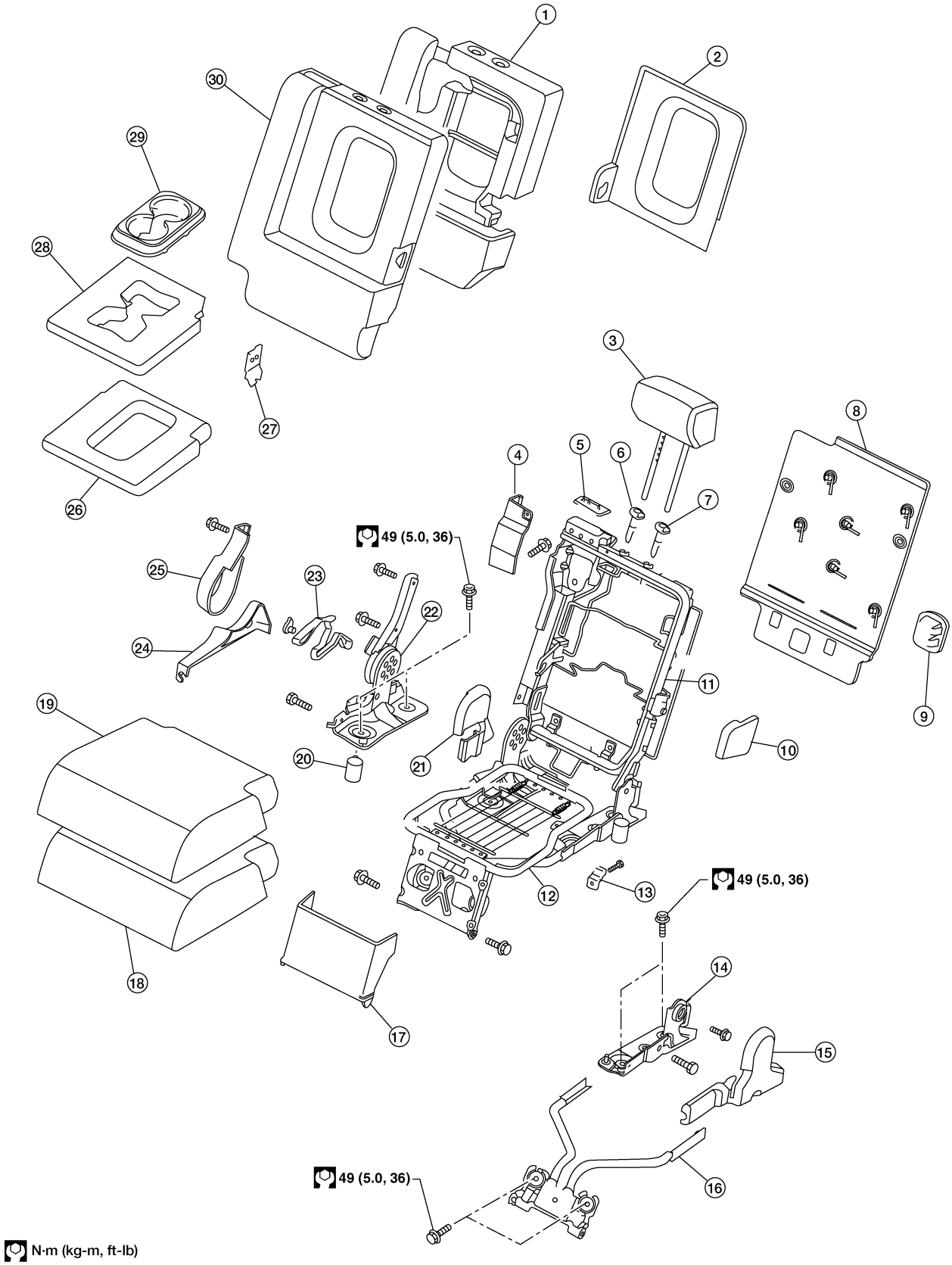
Second Row RH



WIIA0473E

1. Headrest
2. Seatback pad
3. Seatback frame
4. Rear seat bezel
5. RH Headrest guide
6. LH Headrest guide
7. Seat back panel
8. Seat actuator assembly
9. Reclining device inner cover
10. Reclining device inner mid cover
11. Armrest assembly
12. Latch assembly
13. Seat cushion mat springs
14. Seat cushion mat
15. Seat cushion frame assembly
16. Seat support trim cover
17. Seat support pad assembly
18. Lower rear seat cover
19. Lower rear seat cover inner
20. Outboard cushion floor latch
21. Seat cushion support frame assembly
22. Inboard cushion floor latch
23. Seat cushion support frame assembly
24. Lower rear seat cover outer
25. Seat cushion pad
26. Inner inboard reclining device cover
27. Outer inboard reclining device cover
28. Seat latch and recliner release
29. Reclining device outer mid cover
30. Reclining device lever
31. Reclining device outer cover
32. Seatback trim cover
33. Seat cushion trim cover
34. Seat cushion heating element

Second row center

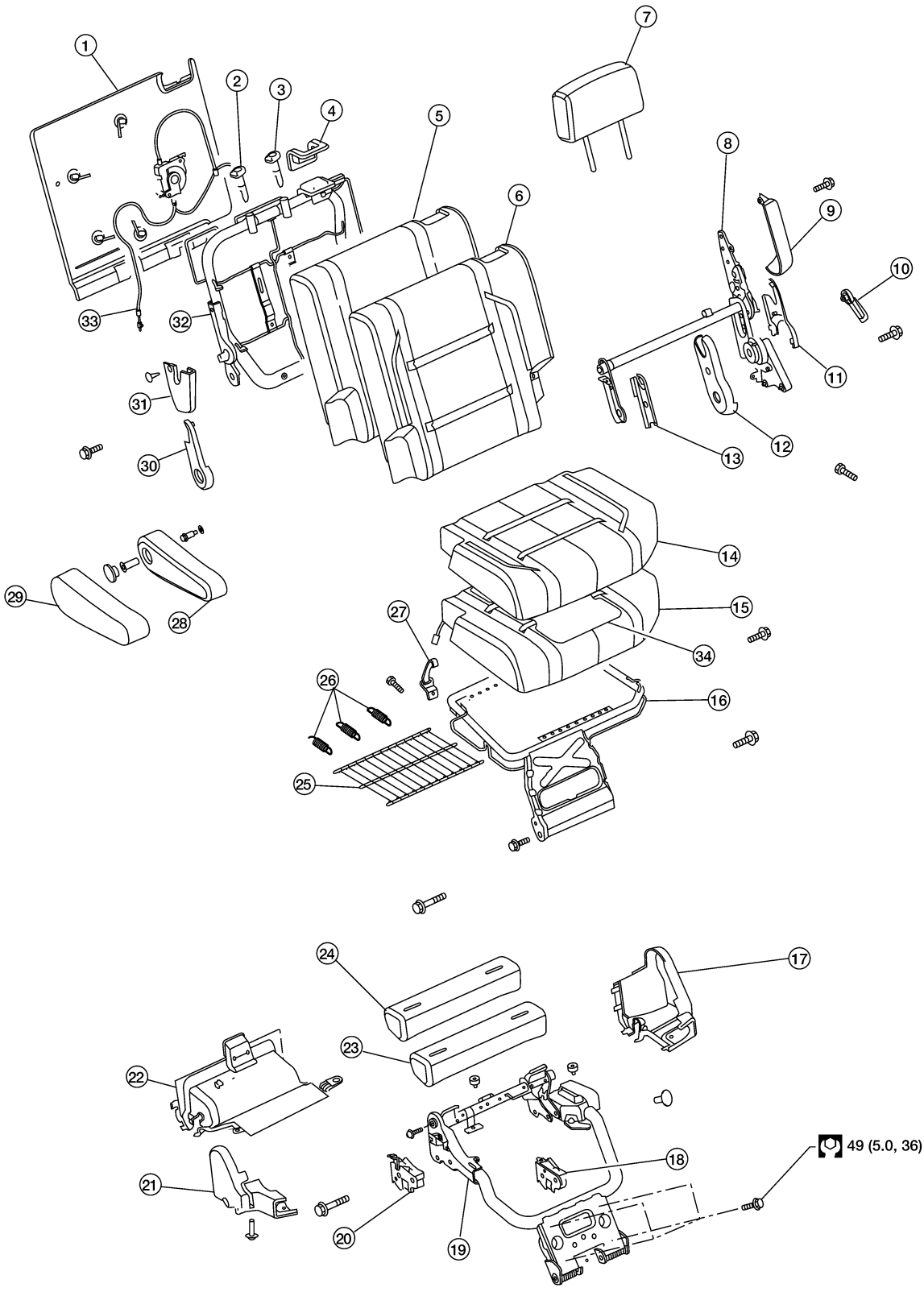


WIIA0410E

1. Seatback pad
2. Armrest finisher
3. Headrest
4. Seat belt retractor cover
5. Seat belt bezel
6. RH headrest guide locking

7. LH headrest guide free
8. Seatback board
9. Seat bracket cover
10. Armrest pivot bracket cover
11. Seatback frame
12. Seat cushion frame
13. Latch assembly
14. Lower rear pivot bracket support
15. Outer hinge cover
16. Center seat base assembly
17. Link and pivot bracket apron
18. Seat cushion pad
19. Seat cushion trim cover
20. Cushion stop bumper
21. Inner lever cover
22. Seat hinge assembly
23. Seat lever assembly
24. Outer lever cover
25. Seat lock cover
26. Armrest cover
27. Armrest bracket
28. Armrest pad
29. Cup holder
30. Seatback trim cover

Second row LH



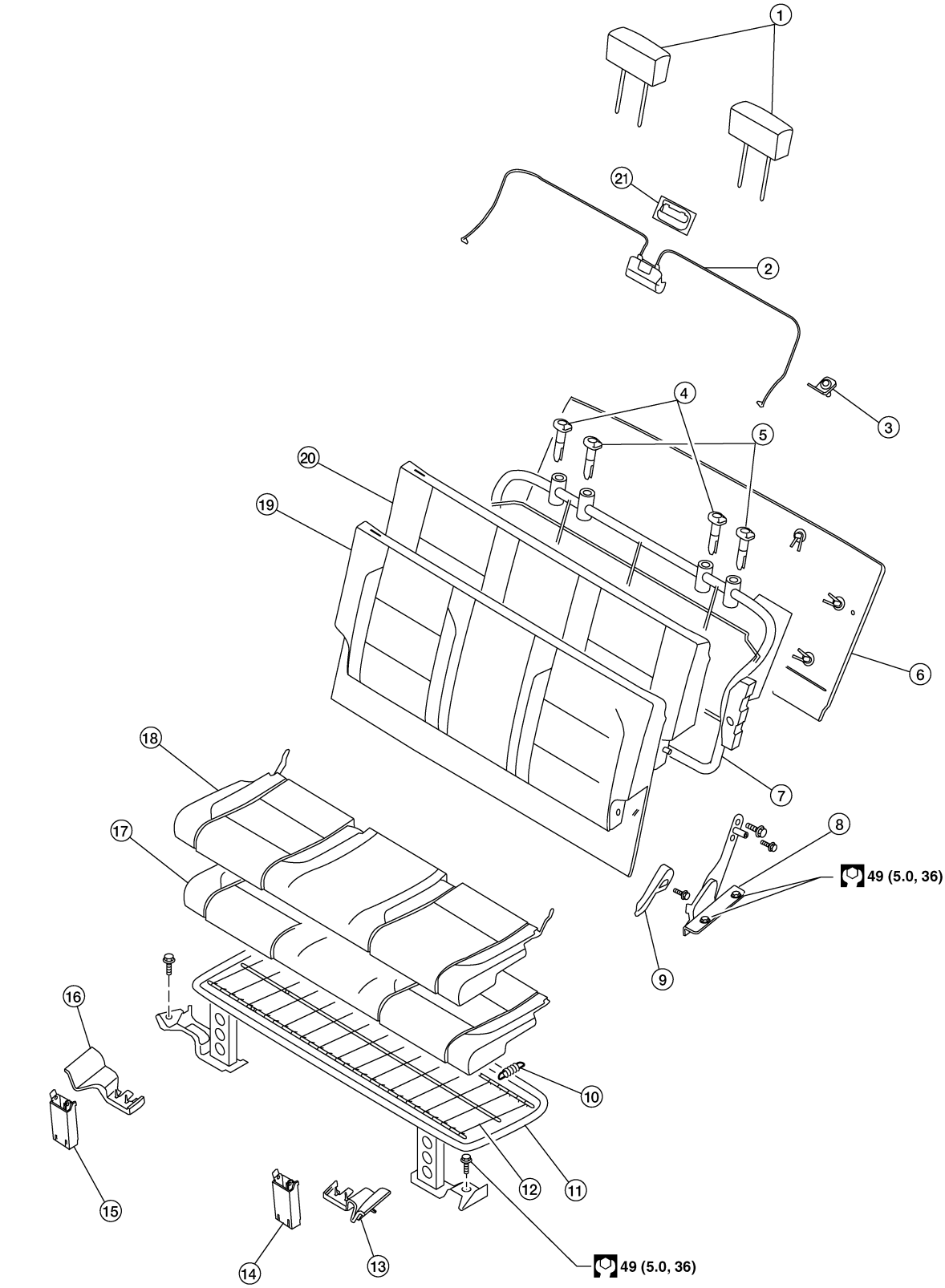
N·m (kg-m, ft-lb)

WIIA0777E

1. Seat back panel
2. RH headrest guide
3. LH headrest guide
4. Rear seat bezel
5. Seatback pad
6. Seatback trim cover

7. Headrest
8. Seat latch and recliner release
9. Reclining device outer cover
10. Reclining device lever
11. Reclining device outer mid cover
12. Outer inboard reclining device cover
13. Inner inboard reclining device cover
14. Seat cushion trim cover
15. Seat cushion pad
16. Seat cushion frame assembly
17. Lower rear seat cover outer
18. Outboard cushion floor latch
19. Seat cushion support frame assembly
20. Inboard cushion floor latch
21. Lower rear seat cover inner
22. Lower rear seat cover
23. Seat support pad assembly
24. Seat support trim cover
25. Seat cushion mat
26. Seat cushion mat springs
27. Latch assembly
28. Armrest assembly
29. Armrest trim cover
30. Reclining device outer cover
31. Reclining device inner cover
32. Seatback frame
33. Seat actuator assembly
34. Seat cushion heating element

Third row



WIIA0412E

1. Headrests
2. Release handle and cable
3. Tether anchor plate
4. Headrest locking guide
5. Headrest guide free
6. Seatback panel

7. Seatback frame
8. Seatback latch
9. Slide link cover
10. Extension spring
11. Seat cushion frame
12. Flex mat
13. Floor bracket cover LH
14. Front link cover LH
15. Front link cover RH
16. Floor bracket cover RH
17. Seat cushion pad
18. Seat cushion trim cover
19. Seatback trim cover
20. Seatback pad