SECTION SE

SEAT

CONTENTS

SERVICE INFORMATION

PRECAUTIONS

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

INFOID:0000000001718757

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.**

Precaution for Work

INFOID:0000000001718758

- 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.

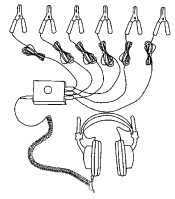
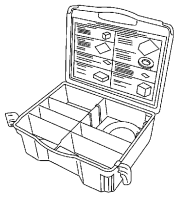
- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

Special Service Tool

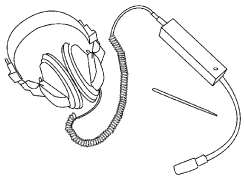
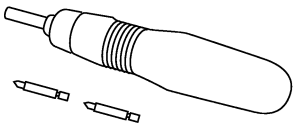
INFOID:0000000001718759

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

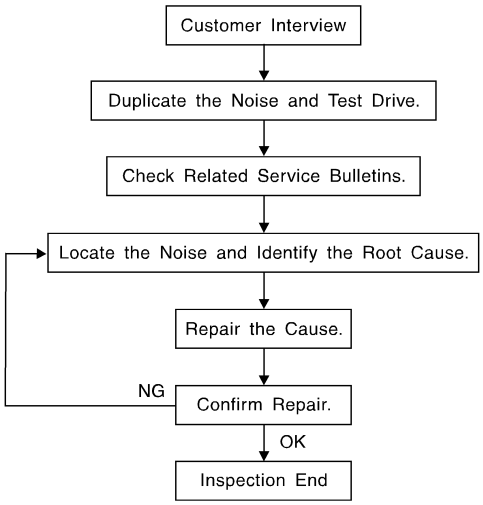
INFOID:0000000001718760

(Kent-Moore No.) Tool name	Description
(J-39565) Engine ear  SIIA0995E	Locating the noise
Power tool  PBIC0191E	Loosening bolts and nuts

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000001718761



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: 15×25mm(0.59×0.98 in)
INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97×1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97×1.97 in)
INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18×1.97 in)
FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15×25 mm (0.59×0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll. The following materials, not found in the kit can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.

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

INFOID:0000000001718762

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.

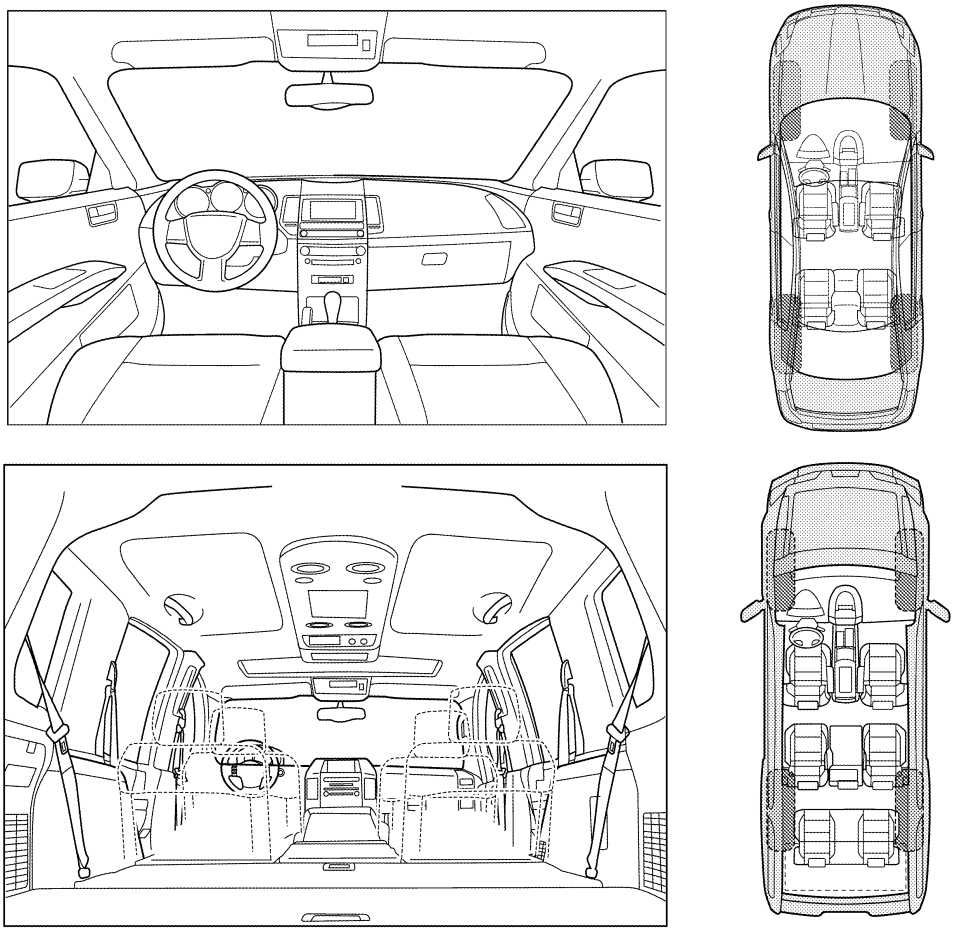
Diagnostic Worksheet

INFOID:0000000001718763

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

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 page 2 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.

LAIA0072E

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

II. WHEN DOES IT OCCUR? (please 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 rain
- ☐ When it is raining or wet
- ☐ Dry or dusty conditions
- ☐ Other:

III. WHEN DRIVING:

- ☐ Through driveways
- ☐ Over rough roads
- ☐ Over speed bumps
- ☐ Only 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 at the door)
- ☐ Tick (like a clock second hand)
- ☐ Thump (heavy muffled knock noise)
- ☐ Buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

_____

_____

_____

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

VIN: _____ Customer Name _____

W.O.# _____ Date: _____

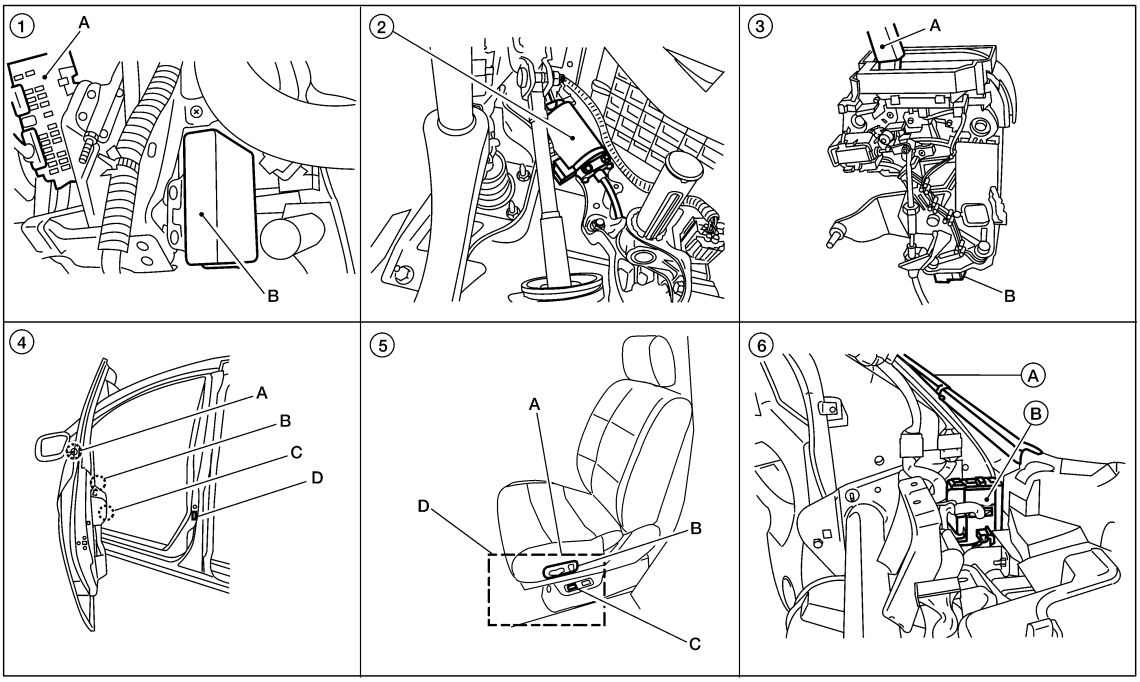
This form must be attached to Work Order

LAIA0071E

AUTOMATIC DRIVE POSITIONER

Component Parts and Harness Connector Location

INFOID:0000000001718764



LIIA2458E

1. A. Fuse block (J/B)
   B. Automatic drive positioner control unit M41, M42 (view with instrument panel removed)
2. Pedal adjusting motor E109, E110
3. A. A/T selector lever
   B. A/T device M34
4. A. Door mirror LH D4, D13
   Door mirror RH D107, D113
   B. Door mirror remote control switch D10
   C. Seat memory switch D5
   D. Front door switch LH B8
5. A. Sliding motor LH B403
   Reclining motor LH B404
   Lifting motor (front) B405
   Lifting motor (rear) B406
   B. Power seat switch LH B407
   C. Pedal adjusting switch B22
   D. Driver seat control unit B401, B402
   (front seat LH view)
6. A. A-pillar
   B. BCM M18, M19, M20 (view with instrument panel removed)

System Description

INFOID:0000000001718765

- Refer to Owner's Manual for Automatic Drive Positioner system operating instructions.
- 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-Ill, the seat slide amount at entry/exit setting can be changed.

Function		Description
Memory operation		The front seat LH, pedal (accelerator, brake) and door mirrors move to the stored driving position by pushing seat memory switch (1 or 2).
Entry/exiting function	Exiting operation	At exit, the front seat LH moves backward. (exiting position)
	Entry operation	At entry, the front seat LH returns from exiting position to the previous driving position before the exiting operation.
Keyfob interlock operation		Perform a linked memory 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, turn ignition switch ON→OFF and then operate the front door switch LH ON (open)→OFF (close)→ON (open)→OFF (close), 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 LH 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.

FAIL-SAFE MODE

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

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

CANCEL OF FAIL-SAFE MODE

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

NOTE:

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

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

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

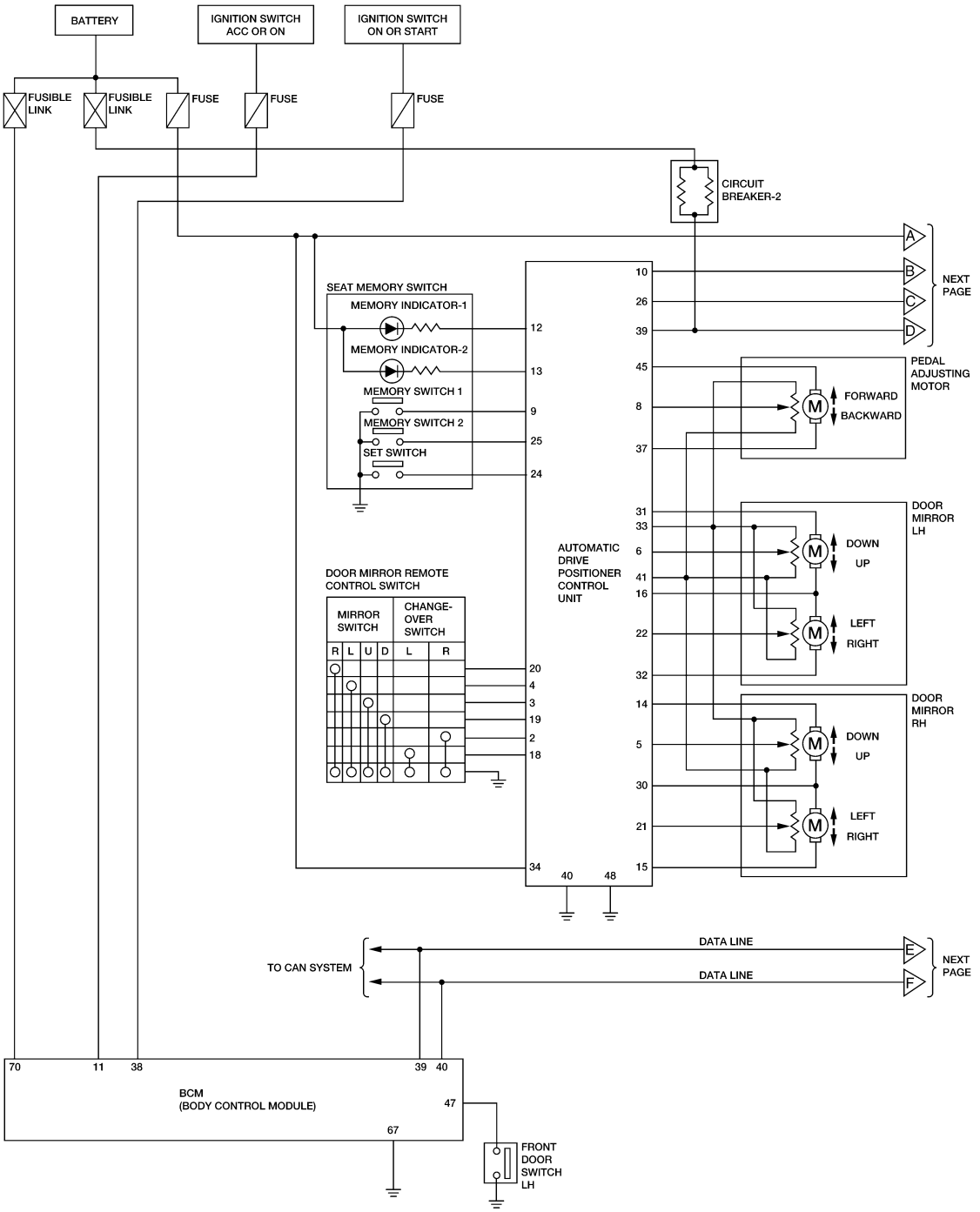
CAN Communication System Description

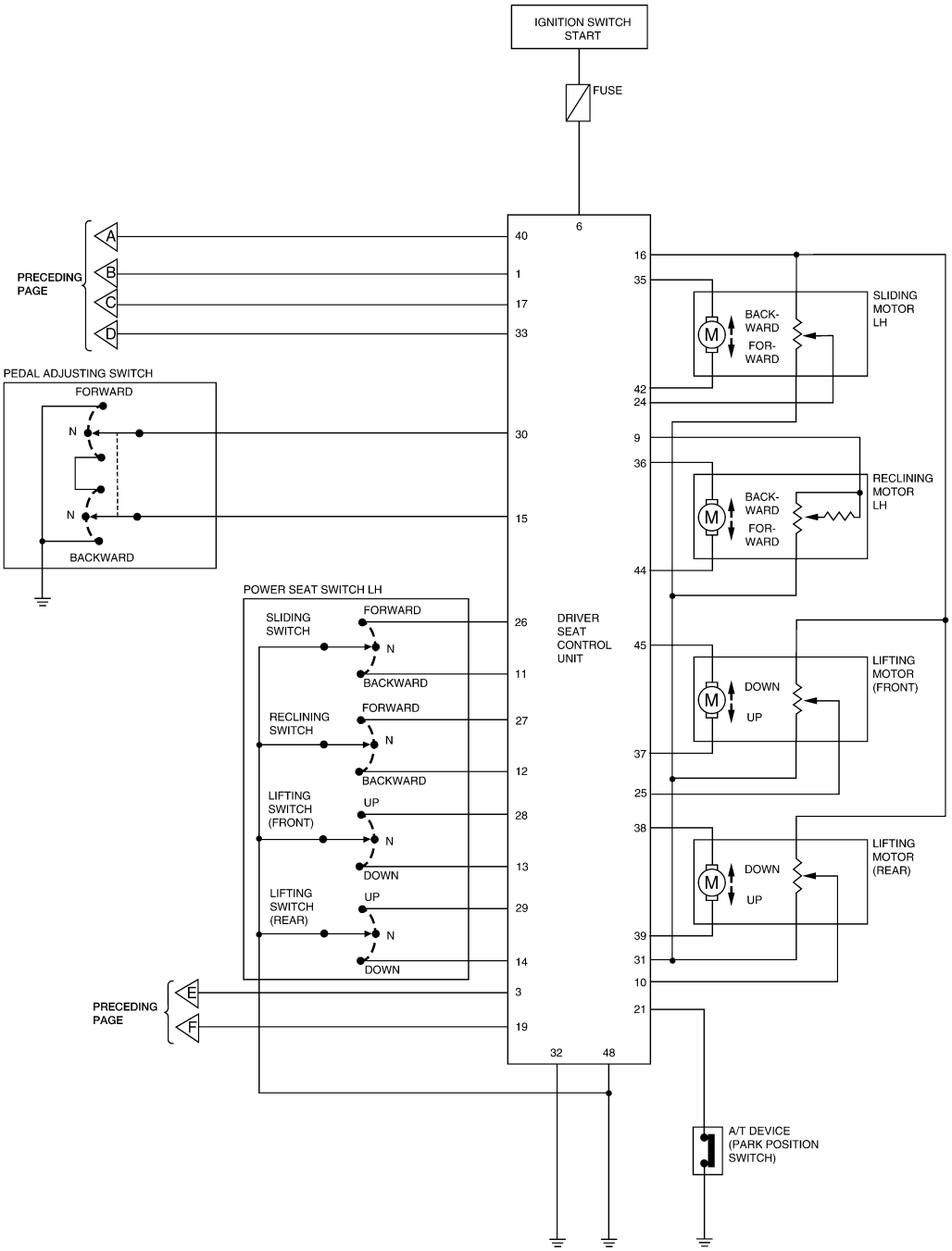
INFOID:0000000001718766

Refer to LAN-3, "CAN Communication System".

Schematic

INFOID:0000000001718767

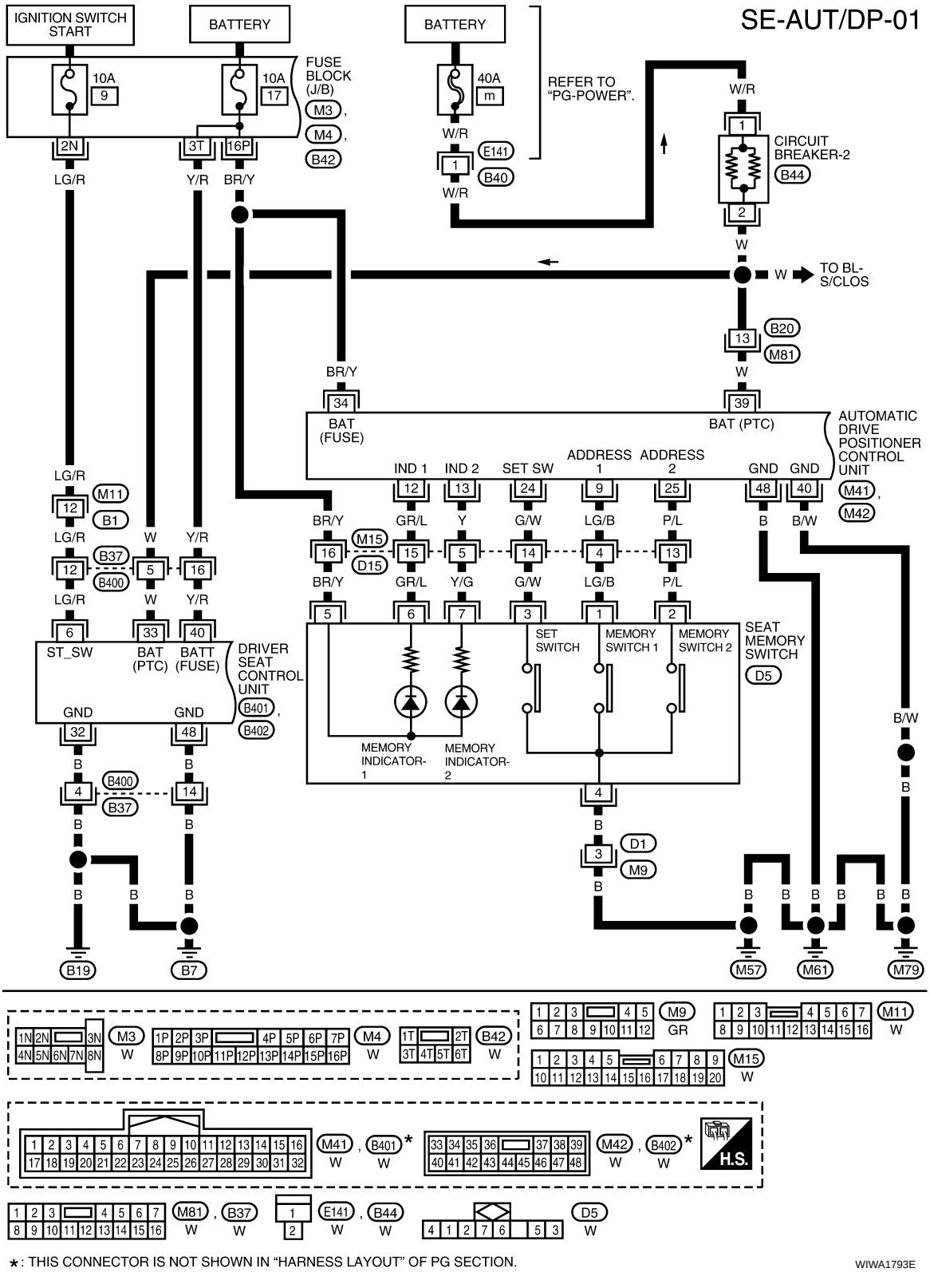


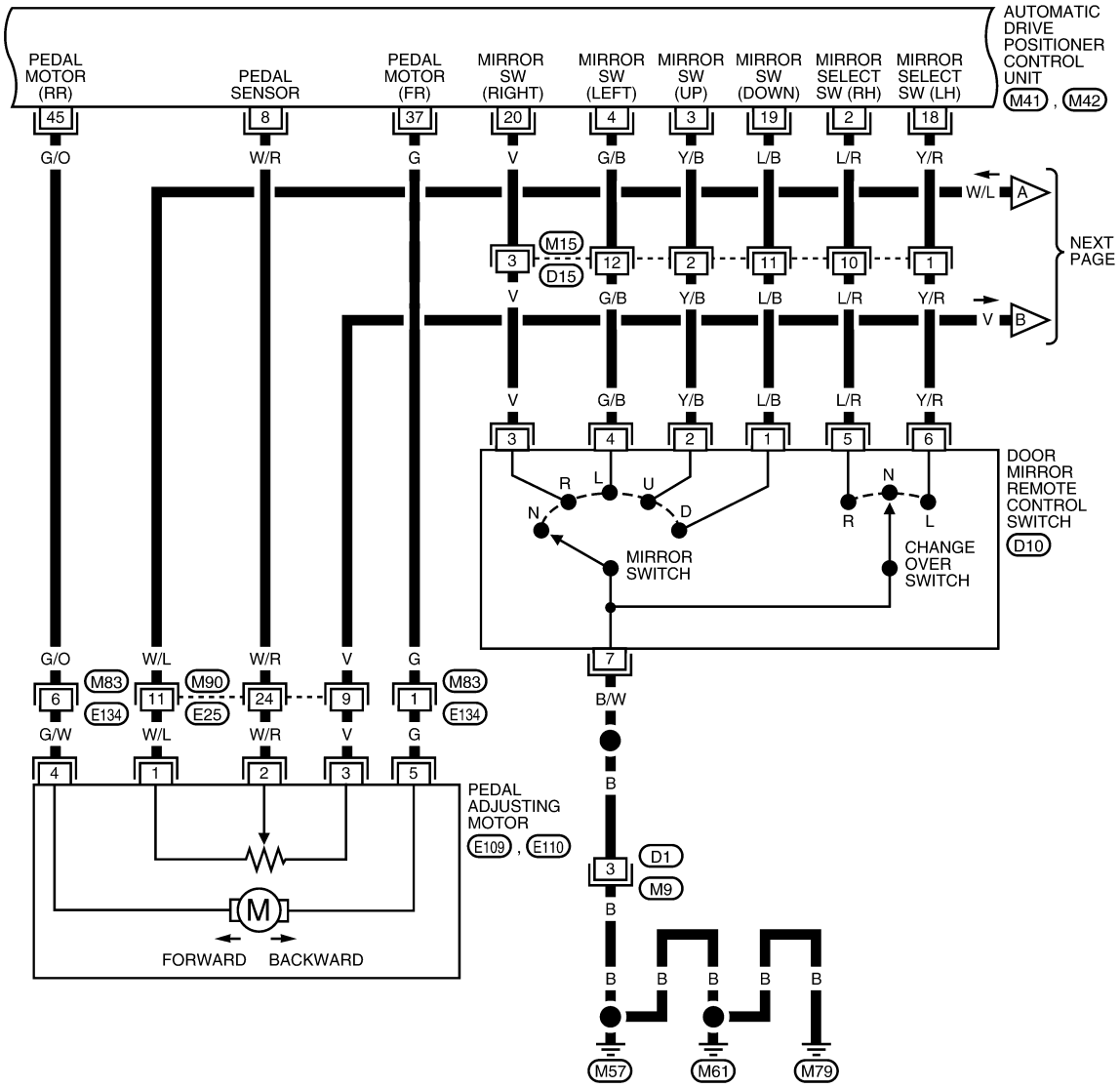

IGNITION SWITCH START
FUSE
6
PRECEDING PAGE
A
B
C
D
40
1
17
33
PEDAL ADJUSTING SWITCH
FORWARD
N
N
BACKWARD
30
15
POWER SEAT SWITCH LH
SLIDING SWITCH
FORWARD
N
BACKWARD
26
11
RECLINING SWITCH
FORWARD
N
BACKWARD
27
12
LIFTING SWITCH (FRONT)
UP
N
DOWN
28
13
LIFTING SWITCH (REAR)
UP
N
DOWN
29
14
DRIVER SEAT CONTROL UNIT
PRECEDING PAGE
E
F
3
19
32
48
16
35
SLIDING MOTOR LH
BACK-WARD
FOR-WARD
42
24
9
36
RECLINING MOTOR LH
BACK-WARD
FOR-WARD
44
45
LIFTING MOTOR (FRONT)
DOWN
UP
37
25
38
LIFTING MOTOR (REAR)
DOWN
UP
39
31
10
21
A/T DEVICE (PARK POSITION SWITCH)

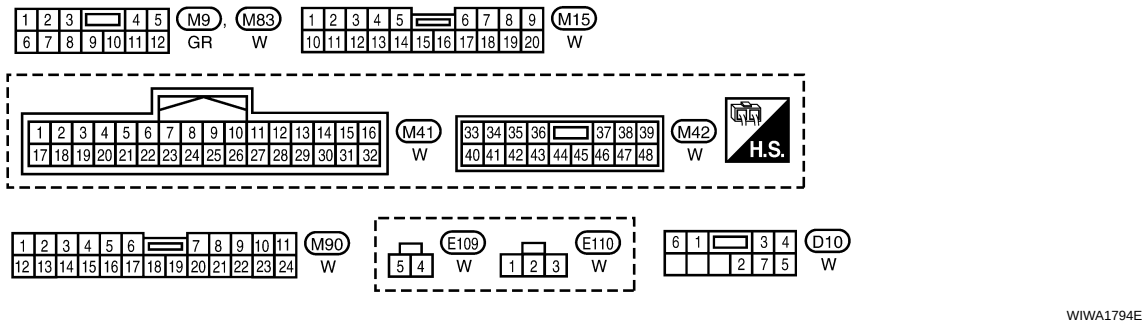
WIWA1792E

Wiring Diagram - AUT/DP -

INFOID:0000000001718768

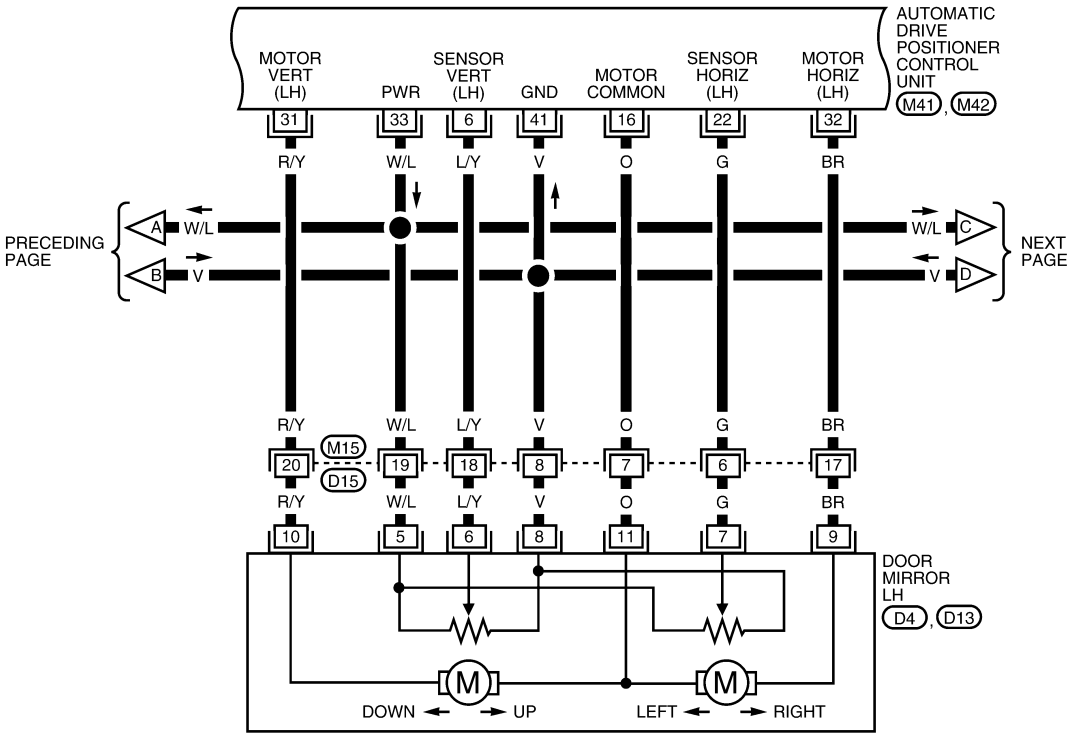


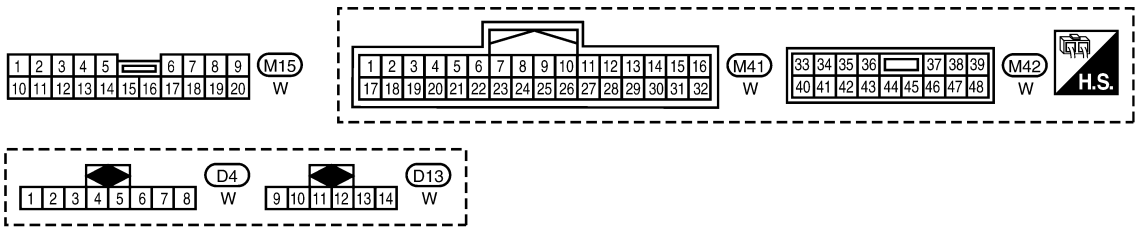

AUTOMATIC DRIVE POSITIONER CONTROL UNIT
M41 , M42
PEDAL MOTOR (RR)
PEDAL SENSOR
PEDAL MOTOR (FR)
MIRROR SW (RIGHT)
MIRROR SW (LEFT)
MIRROR SW (UP)
MIRROR SW (DOWN)
MIRROR SELECT SW (RH)
MIRROR SELECT SW (LH)
45
8
37
20
4
3
19
2
18
G/O
W/R
G
V
G/B
Y/B
L/B
L/R
Y/R
W/L
A
NEXT PAGE
M15
D15
3
12
2
11
10
1
V
B
DOOR MIRROR REMOTE CONTROL SWITCH
D10
R
L
U
D
N
MIRROR SWITCH
CHANGE OVER SWITCH
7
B/W
G/W
W/L
6
11
24
9
1
M83
M90
E134
E25
4
1
2
3
5
PEDAL ADJUSTING MOTOR
E109 , E110
FORWARD
BACKWARD
D1
M9
M57
M61
M79


M9 , M83
GR
W
M15
W
M41
W
M42
W
H.S.
M90
W
E109
W
E110
W
D10
W

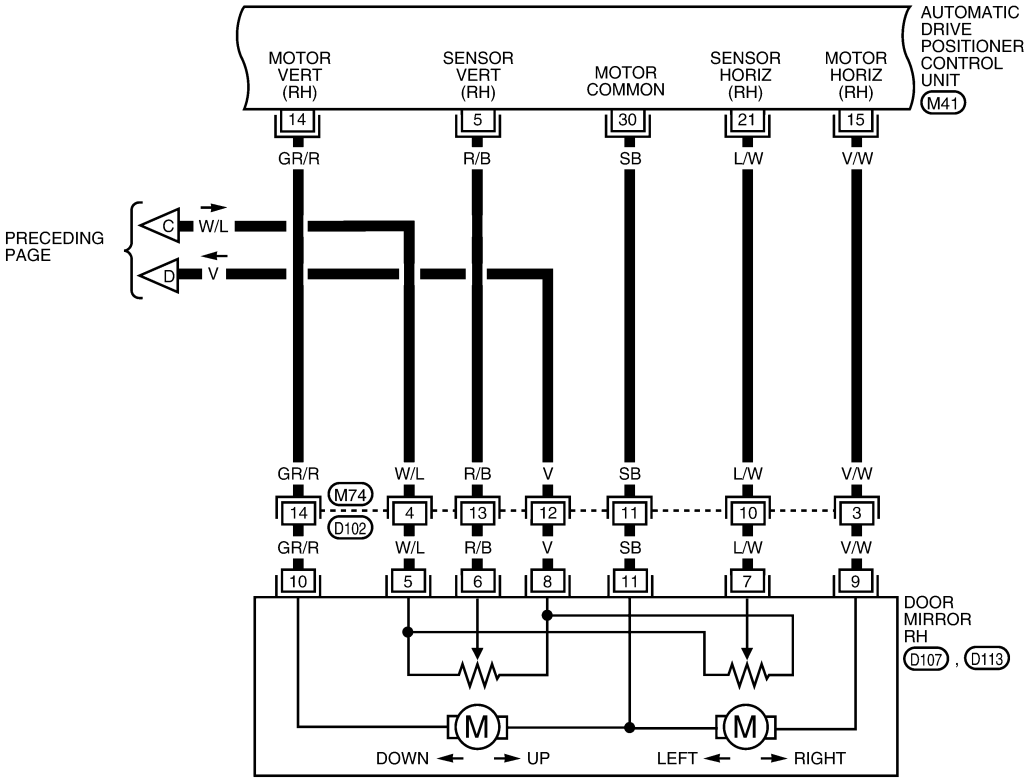
WIWA1794E

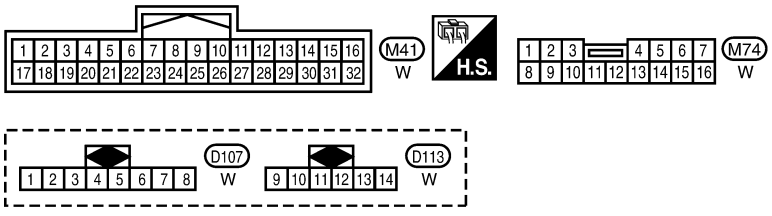
SE-AUT/DP-03





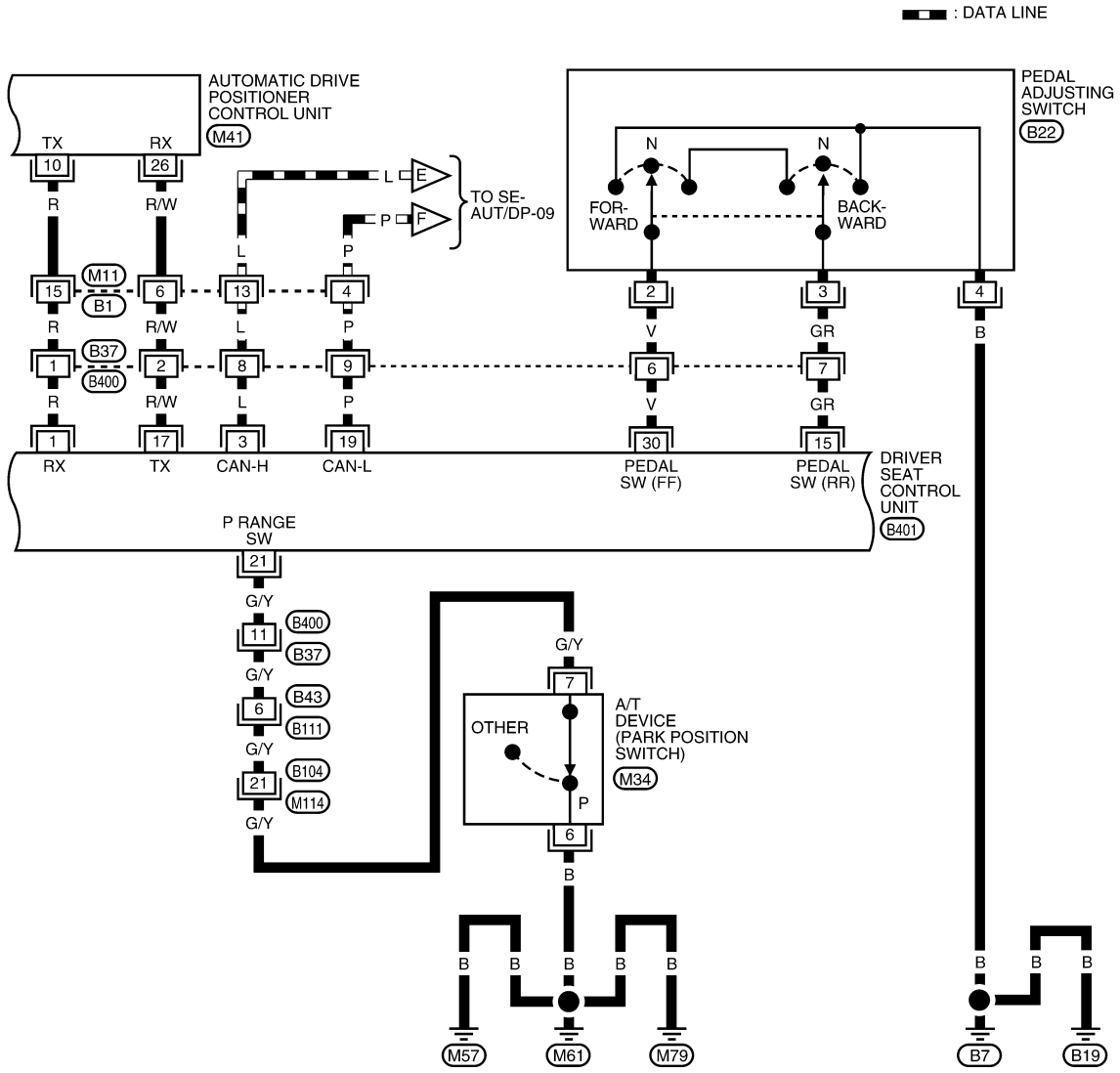
WIWA1795E

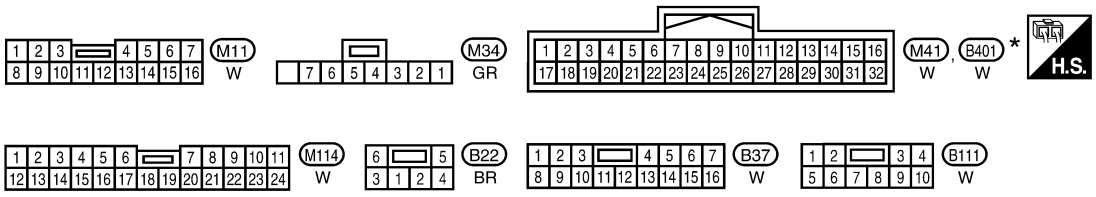

AUTOMATIC DRIVE POSITIONER CONTROL UNIT
M41
MOTOR VERT (RH)
SENSOR VERT (RH)
MOTOR COMMON
SENSOR HORIZ (RH)
MOTOR HORIZ (RH)
14
5
30
21
15
GR/R
R/B
SB
L/W
V/W
PRECEDING PAGE
C
W/L
D
V
GR/R
W/L
R/B
V
SB
L/W
V/W
M74
D102
14
4
13
12
11
10
3
GR/R
W/L
R/B
V
SB
L/W
V/W
10
5
6
8
11
7
9
DOOR MIRROR RH
D107 , D113
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
M41
W
H.S.
1 2 3 4 5 6 7
8 9 10 11 12 13 14 15 16
M74
W
D107
W
1 2 3 4 5 6 7 8
D113
W
9 10 11 12 13 14

WIWA1796E

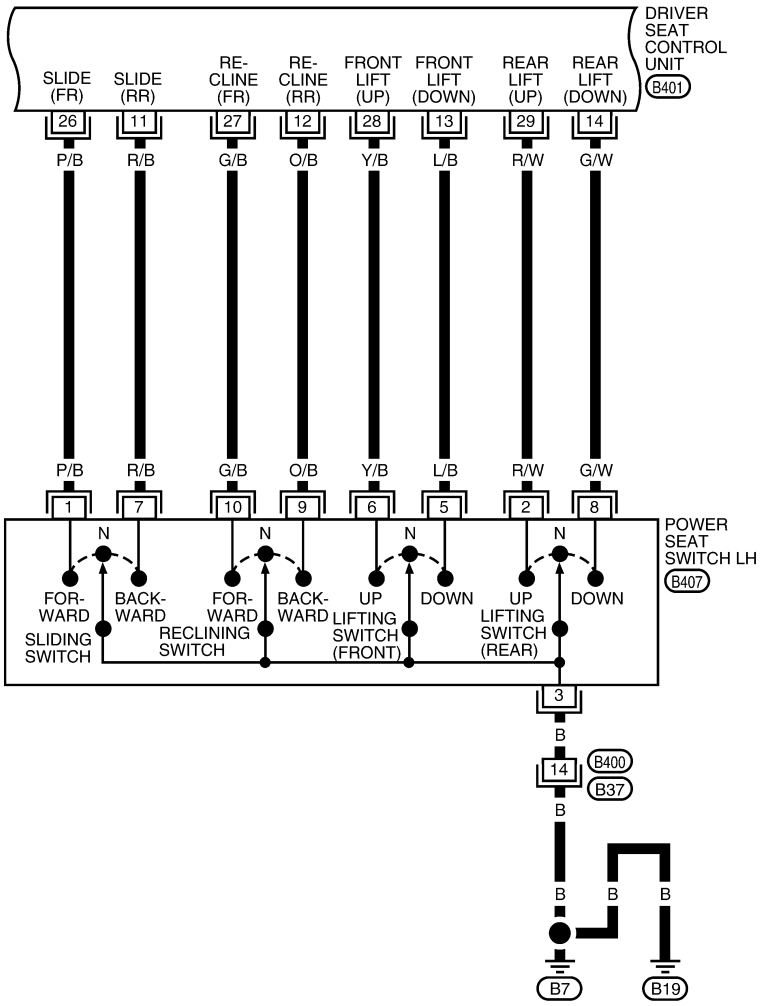
SE-AUT/DP-05

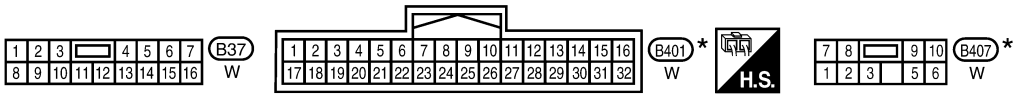




*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

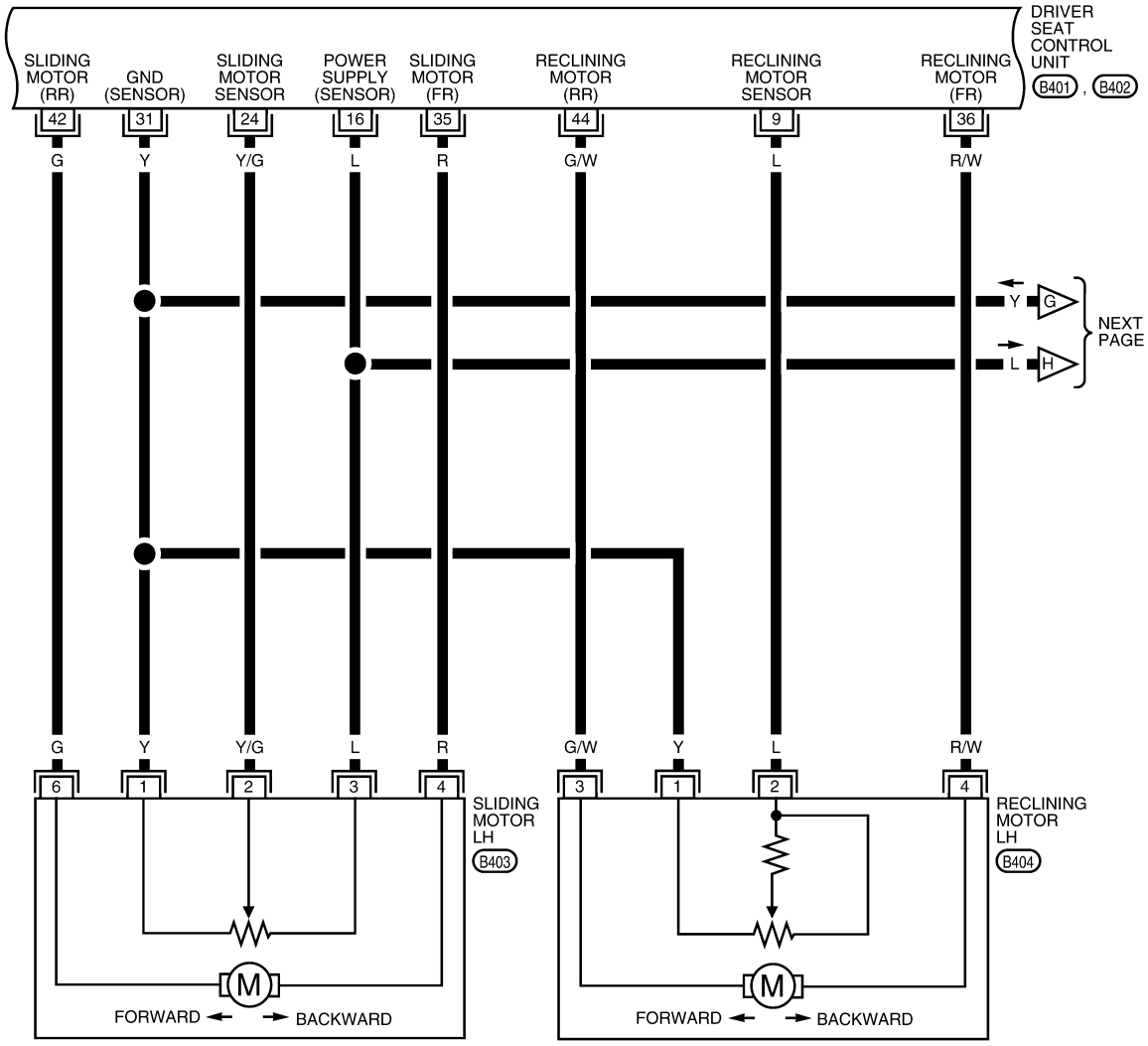
ALJWA0040GB

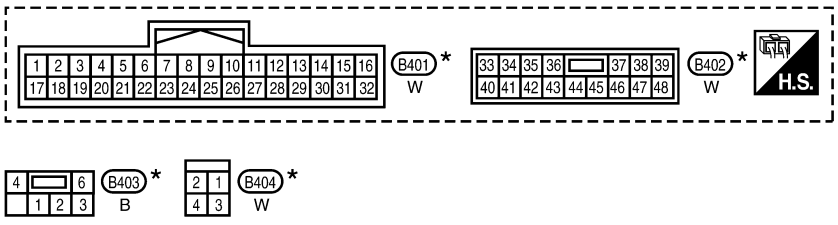




★: THIS CONNECTOR IS NOT SHOWN IN “HARNESS LAYOUT” OF PG SECTION.

WIWA1798E

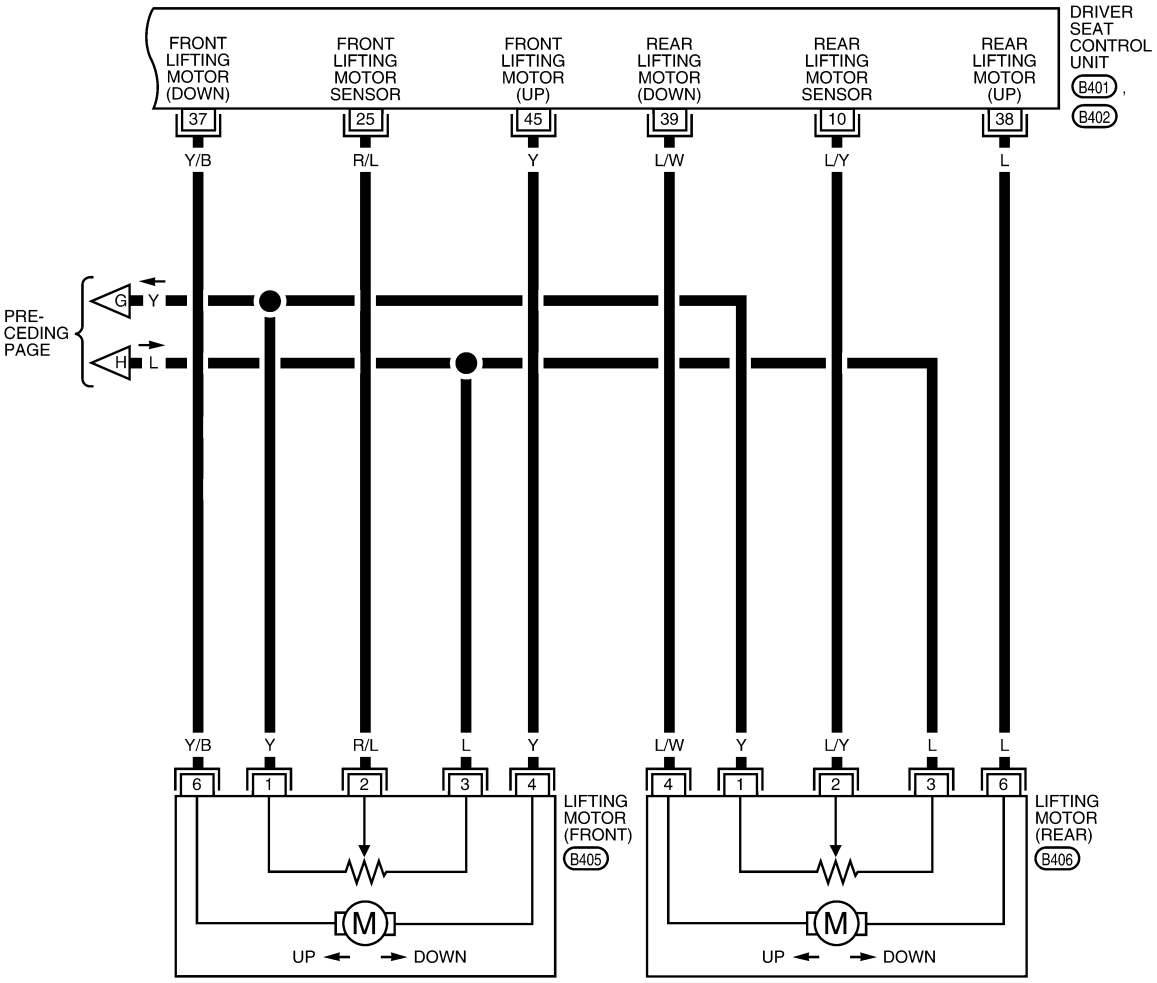


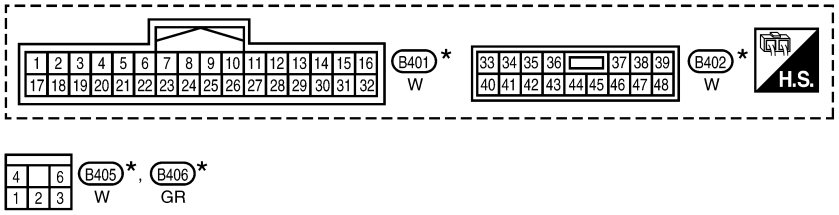


*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

WIWA1799E

SE-AUT/DP-08

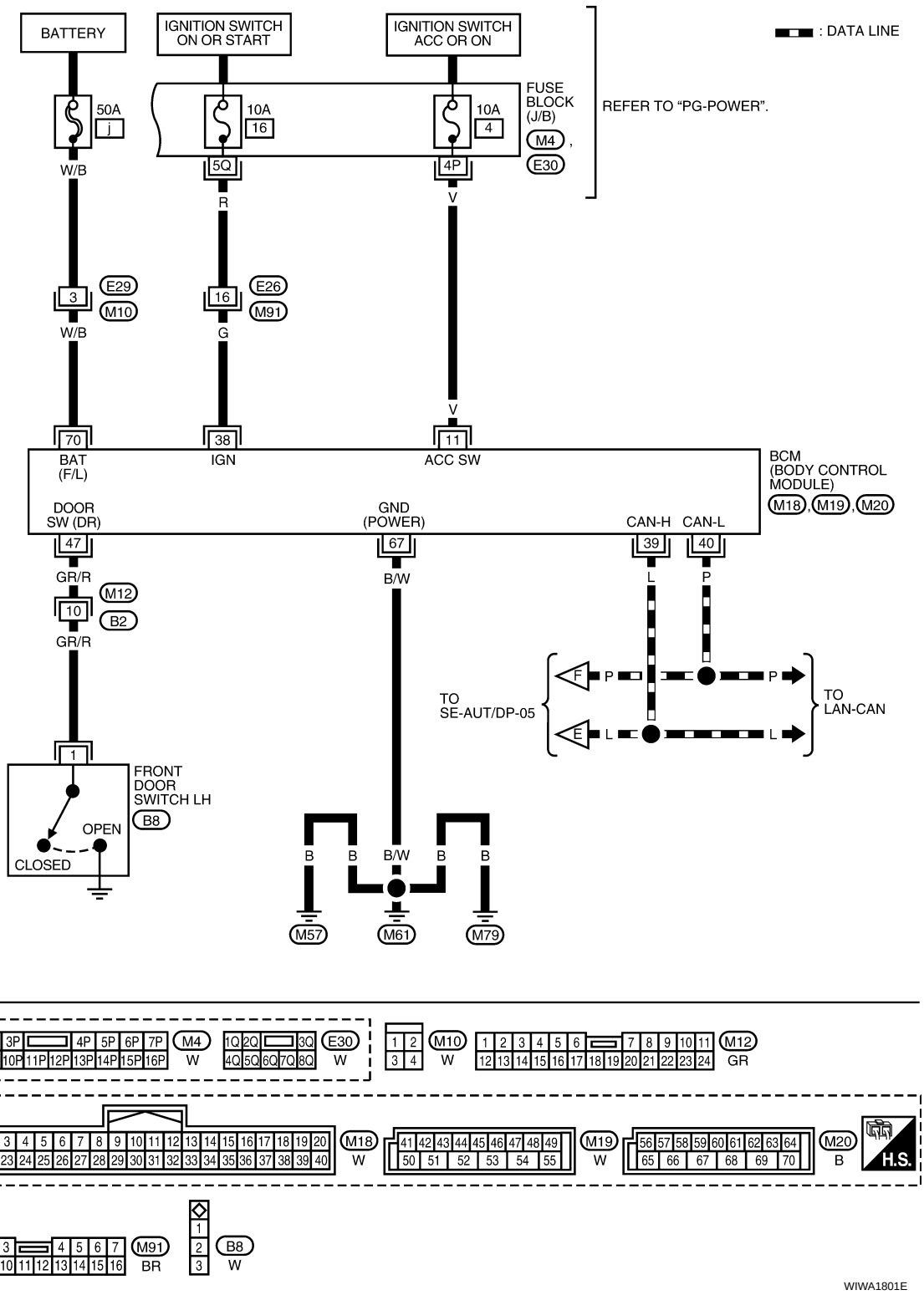




*: THIS CONNECTOR IS NOT SHOWN IN “HARNESS LAYOUT” OF PG SECTION.

ALJWA0041GB

SE-AUT/DP-09



WIWA1801E

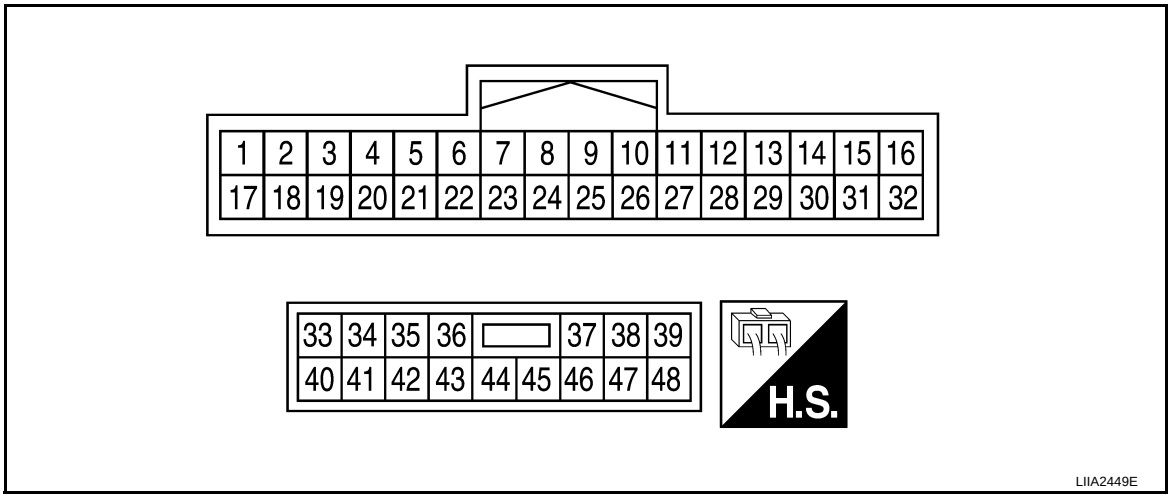
Terminal and Reference Value for BCM

INFOID:0000000001718769

Refer to BCS-11, "Terminal and Reference Value for BCM".

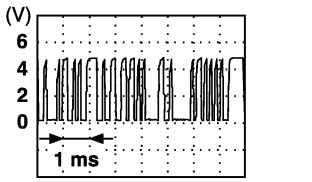
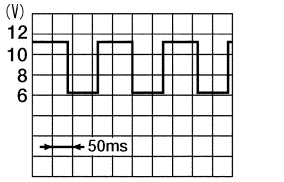
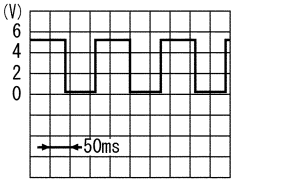
Driver Seat Control Unit Harness Connector Terminal Layout

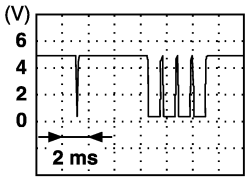
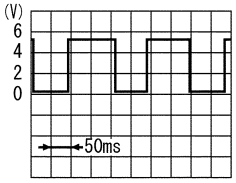
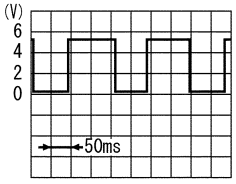
INFOID:0000000001718770



Terminal and Reference Value for Driver Seat Control Unit

INFOID:0000000001718771

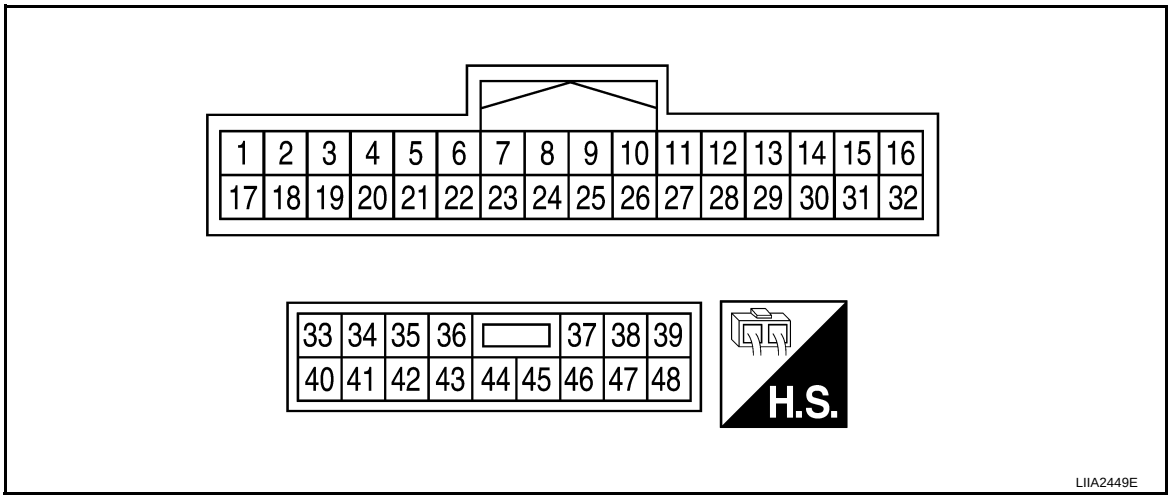
Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
1	R	UART LINE (RX)	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	 PIIA4813E
3	L	CAN-H	—	—
6	LG/R	Ignition switch (START)	Ignition switch (START position)	Battery voltage
9	L	Reclining sensor signal	ON (seat reclining motor operation)	 LIIA2339E
			Other than above	0 or 5
10	L/Y	Rear lifting 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

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
13	L/B	Front lifting switch DOWN signal	ON (front lifting switch DOWN operation)	0
			Other than above	Battery voltage
14	G/W	Rear lifting switch DOWN signal	ON (rear lifting switch DOWN operation)	0
			Other than above	Battery voltage
15	GR	Pedal adjusting switch BACKWARD signal	ON (pedal adjusting switch BACKWARD operation)	0
			Other than above	Battery voltage
16	L	Seat sensor power	—	5
17	R/W	UART LINE (TX)	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	 PIIA4814E
19	P	CAN-L	—	—
21	G/Y	A/T device (park position switch) signal	Selector lever in P position	0
			Selector lever in other than P position	Battery voltage
24	Y/G	Seat sliding sensor signal	ON (seat sliding motor operation)	 SIIA0691J
			Other than above	0 or 5
25	R/L	Front lifting 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

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
30	V	Pedal adjusting switch FORWARD signal	ON (pedal adjusting switch FORWARD operation)	0
			Other than above	Battery voltage
31	Y	Sensor ground	—	0
32	B	Ground	—	0
33	W	Battery power supply (PTC)	—	Battery voltage
35	R	Sliding motor FORWARD output signal	Sliding switch FORWARD operation (Motor operated)	Battery voltage
			Other than above	0
36	R/W	Reclining motor FORWARD output signal	Reclining switch FORWARD operation (Motor operated)	Battery voltage
			Other than above	0
37	Y/B	Front lifting motor DOWN output signal	Front lifting switch DOWN operation (Motor operated)	Battery voltage
			Other than above	0
38	L	Rear lifting motor UP output signal	Rear lifting switch UP operation (Motor operated)	Battery voltage
			Other than above	0
39	L/W	Rear lifting motor DOWN output signal	Rear lifting switch DOWN operation (Motor operated)	Battery voltage
			Other than above	0
40	Y/R	Battery power supply	—	Battery voltage
42	G	Sliding motor BACKWARD output signal	Sliding switch BACKWARD operation (Motor operated)	Battery voltage
			Other than above	0
44	G/W	Reclining motor BACKWARD output signal	Reclining switch BACKWARD operation (Motor operated)	Battery voltage
			Other than above	0
45	Y	Front lifting motor UP output signal	Front lifting switch UP operation (Motor operated)	Battery voltage
			Other than above	0
48	B	Ground	—	0

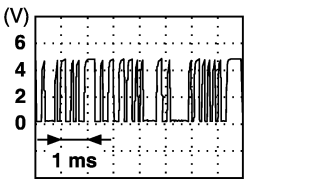
Automatic Drive Positioner Control Unit Harness Connector Terminal Layout

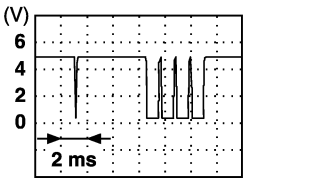
INFOID:0000000001718772



Terminal and Reference Value for Automatic Drive Positioner Control Unit

INFOID:0000000001718773

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
2	L/R	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	G/B	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 UP or DOWN operation	Changes between 3.5 (close to peak) 0.5 (close to valley)
6	L/Y	Mirror sensor (LH vertical) signal	Mirror motor LH is UP or DOWN operation	Changes between 3.5 (close to peak) 0.5 (close to valley)
8	W/R	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	R	UART LINE (TX)	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	 PIIA4813E
12	GR/L	Seat memory switch indicator-1 signal	Memory switch 1 ON	1
			Memory switch 1 OFF	Battery voltage
13	Y	Seat memory switch indicator-2 signal	Memory switch 2 ON	1
			Memory switch 2 OFF	Battery voltage
14	GR/R	Mirror motor RH UP signal	Mirror motor RH UP operation	1.7 - Battery voltage
			Other than above	0
15	V/W	Mirror motor RH LEFT signal	Mirror motor RH LEFT operation	1.7 - Battery voltage
			Other than above	0
16	O	Mirror motor LH DOWN signal	Mirror motor LH DOWN operation	1.7 - Battery voltage
			Other than above	0
		Mirror motor LH RIGHT signal	Mirror motor LH RIGHT operation	1.7 - Battery voltage
			Other than above	0
18	Y/R	Changeover switch LH signal	Changeover switch in LH position	0
			Other than above	5
19	L/B	Mirror switch DOWN signal	Mirror switch in DOWN position	0
			Other than above	5
20	V	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 LEFT or RIGHT operation	Changes between 3.5 (close to left edge) 0.5 (close to right edge)
22	G	Mirror sensor (LH horizontal) signal	Mirror motor LH is LEFT or RIGHT operation	Changes between 3.5 (close to right edge) 0.5 (close to left edge)

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
24	G/W	Seat 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	R/W	UART LINE (RX)	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	 PIIA4814E
30	SB	Mirror motor RH DOWN signal	Mirror motor RH DOWN operation	1.7 - Battery voltage
			Other than above	0
		Mirror motor RH RIGHT signal	Mirror motor RH RIGHT operation	1.7 - Battery voltage
			Other than above	0
31	R/Y	Mirror motor LH UP signal	Mirror motor LH UP operation	1.7 - Battery voltage
			Other than above	0
32	BR	Mirror motor LH LEFT signal	Mirror motor LH LEFT operation	1.7 - Battery voltage
			Other than above	0
33	W/L	Sensor power supply	—	5
34	BR/Y	Battery power supply	—	Battery voltage
37	G	Pedal adjusting motor FORWARD signal	Pedal adjusting motor FORWARD operation (Motor operated)	Battery voltage
			Other than above	0
39	W	Battery power supply	—	Battery voltage
40	B/W	Ground	—	0
41	V	Sensor ground	—	0
45	G/O	Pedal adjusting motor BACKWARD signal	Pedal adjusting motor BACKWARD operation (Motor operated)	Battery voltage
			Other than above	0
48	B	Ground	—	0

Work Flow

INFOID:0000000001718774

1. Check the symptom and customer's requests.
2. Understand the system description. Refer to SE-11, "System Description".
3. Perform the preliminary check. Refer to SE-29, "Preliminary Check".
4. Check the self-diagnosis results using CONSULT-III. Refer to SE-30, "CONSULT-III 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-33, "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

INFOID:0000000001718775

SETTING CHANGE FUNCTION

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

×: Applicable –: Not applicable

Setting item	Content	CONSULT–III (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.	40mm	—	×	×
		80mm		—	—
		150mm		—	—
Sliding Front Seat When Entering/Exiting Vehicle	The seat sliding 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*	Returns all settings to default.	—	Default: Setting button ON	—	—

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

BCM Power Supply and Ground Circuit Inspection

INFOID:0000000001718776

Refer to BCS-15, "BCM Power Supply and Ground Circuit Inspection" .

Power Supply and Ground Circuit Inspection

INFOID:0000000001718777

1. CHECK CONTROL UNIT FUSES AND FUSIBLE LINK

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

Unit	Power source	Fuse No.
Driver seat control unit	START power supply	9 (10A)
Driver seat control unit and automatic drive positioner control unit	Battery power supply	17 (10A)
	Battery power supply	**m** (40A)

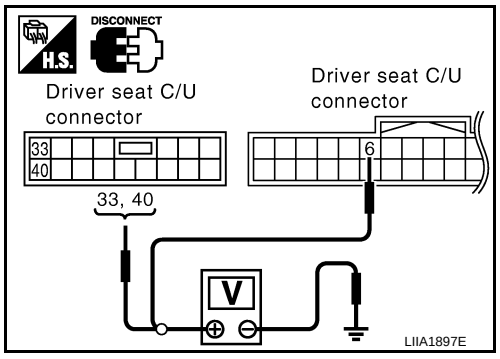
OK or NG

OK >> GO TO 2.

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

2. CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

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



Connector	Terminals (+)	Terminals (-)	Power source	Condition	Voltage (V) (Approx.)
B402	33, 40	Ground	Battery power supply	Ignition switch OFF	Battery voltage
B401	6	Ground	START power supply	Ignition switch START	Battery voltage

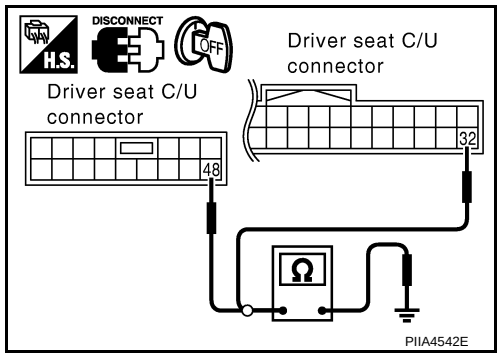
OK or NG

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

3. CHECK DRIVER SEAT CONTROL UNIT GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between the driver seat control unit connectors B401 terminal 32, B402 terminal 48 and ground.

32 - Ground : Continuity should exist.
48 - Ground : Continuity should exist.



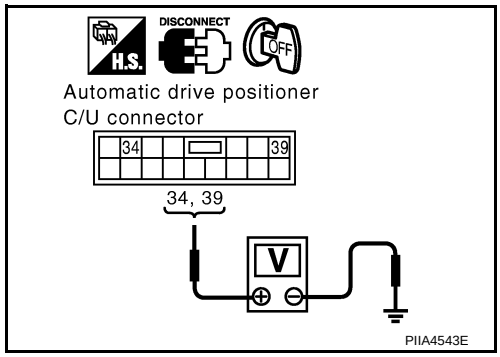
OK or NG

OK >> Driver seat control unit circuit check is OK. Check the automatic drive positioner control unit. GO TO 4.
NG >> Repair or replace harness.

4. 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 M42 terminals 34, 39 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M42	34	Ground	Ignition switch OFF	Battery voltage
	39	Ground	Ignition switch OFF	Battery voltage



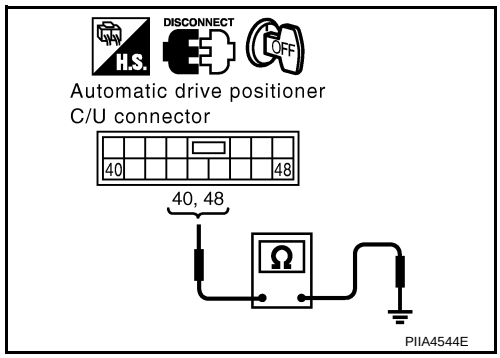
OK or NG

OK >> GO TO 5.
NG >> Repair or replace harness.

5. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT GROUND CIRCUIT

Check continuity between the automatic drive positioner control unit connector M42 terminals 40, 48 and ground.

40 - Ground : Continuity should exist.
48 - Ground : Continuity should exist.



OK or NG

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

CONSULT-III Function (AUTO DRIVE POS.)

INFOID:0000000001718778

CONSULT-III 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.

AUTO DRIVE POS. diagnostic mode	Description
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.

SELF-DIAGNOSIS RESULTS

DISPLAY ITEM LIST

CONSULT-III display	Item	Malfunction is detected when...	Reference page
CAN COMM CIRC [U1000]	CAN communication	Malfunction is detected in CAN communication.	LAN-3
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-35 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-36 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-37 SE-45
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-38 SE-46
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-39 SE-47
ADJ PEDAL SENSOR [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-47
DETENT SW [B2126]	Park SW	With the A/T selector lever in P position (park position switch OFF), if the vehicle speed of 7 km/h (4 MPH) or higher was input the park position switch input system is judged malfunctioning.	SE-64
UART COMM [B2128]	UART communication	Malfunction is detected in UART communication.	SE-66

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
INITIAL DIAG	[OK/NG]	When CAN communication circuit is malfunctioning, it displays “NG”.

Monitor item [UNIT]		Contents
TRANSMIT DIAG	[OK/UNKWN]	Displays [OK/UNKWN] condition of the CAN communication judged by each signal input.
BCM	[OK/UNKWN]	
METER/M&A	[OK/UNKWN]	
ECM	[OK/UNKWN]	

SELECTIOM FROM MENU

Monitor item [OPERATION or UNIT]		Contents
SLIDE SW-FR	“ON/OFF”	ON/OFF status judged from the sliding switch (FR) signal is displayed.
SLIDE SW-RR	“ON/OFF”	ON/OFF status judged from the sliding switch (RR) signal is displayed.
RECLN SW-FR	“ON/OFF”	ON/OFF status judged from the reclining switch (FR) signal is displayed.
RECLN SW-RR	“ON/OFF”	ON/OFF status judged from the reclining switch (RR) signal is displayed.
LIFT FR SW-UP	“ON/OFF”	ON/OFF status judged from the FR lifter switch (UP) signal is displayed.
LIFT FR SW-DN	“ON/OFF”	ON/OFF status judged from the FR lifter switch (DOWN) signal is displayed.
LIFT RR SW-UP	“ON/OFF”	ON/OFF status judged from the RR lifter switch (UP) signal is displayed.
LIFT RR SW-DN	“ON/OFF”	ON/OFF status judged from the RR lifter switch (DOWN) signal is displayed.
MIR CON SW-UP	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (UP) signal is displayed.
MIR CON SW-DN	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (DOWN) signal is displayed.
MIR CON SW-RH	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (RIGHT) signal is displayed.
MIR CON SW-LH	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (LEFT) signal s displayed.
MIR CHNG SW-R	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (switching to RIGHT) signal is displayed.
MIR CHNG SW-L	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (switching to LEFT) signal is displayed.
SET SW	“ON/OFF”	ON/OFF status judged from the setting switch signal is displayed.
PEDAL SW-FR	“ON/OFF”	ON/OFF status judged from the pedal adjusting switch (FR) signal is displayed.
PEDAL SW-RR	“ON/OFF”	ON/OFF status judged from the pedal adjusting switch (RR) signal is displayed.
MEMORY SW 1	“ON/OFF”	ON/OFF status judged from the seat memory switch 1 signal is displayed.
MEMORY SW 2	“ON/OFF”	ON/OFF status judged from the seat memory switch 2 signal is displayed.
DETENT SW	“ON/OFF”	The A/Tselector 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 automatic drive positioner seat memory 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 adjusting 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 door mirror RH motor moves the mirror UP/DOWN and LEFT/RIGHT by receiving the drive signal.
MIRROR MOTOR LH	The door mirrorLH motor moves the mirror UP/DOWN and LEFT/RIGHT by receiving the drive signal.

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

INFOID:0000000003303103

1.SELF-DIAGNOSTIC RESULT CHECK

1. Connect to CONSULT-III, and select “AUTO DRIVE POS” on the “SELECT DIAG SYSTEM” screen.
2. Select “SELF-DIAG RESULTS” on "SELECT DIAG MODE" screen.
3. Check U1000 displayed in self-diagnostic results.

OK or NG

OK >> Inspection End.
NG >> Refer to LAN-3, "CAN Communication System".

Symptom Chart

INFOID:0000000001718780

Symptom	Diagnoses/service procedure	Refer to page
Only setting change function cannot be set with display.	1. Preliminary check	SE-29
	2. CAN communication inspection using CONSULT-III (self-diagnosis)	LAN-9, "Self-Diagnosis"
	3. If the above systems are normal, check display system	AV-150
A part of seat system does not operate (both automatically and manually).	1. Sliding motor circuit inspection	SE-35
	2. Reclining motor circuit inspection	SE-36
	3. Lifting motor (front) circuit inspection	SE-37
	4. Lifting motor (rear) circuit inspection	SE-38
	5. If the above systems are normal, replace the driver seat control unit	SE-11

Symptom	Diagnoses/service procedure	Refer to page
A part of pedal adjust and door mirror does not operate (both automatically and manually).	1. Pedal adjusting motor circuit inspection	SE-39
	2. Mirror motor LH circuit check	SE-40
	3. Mirror motor RH circuit check	SE-42
	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-43
	2. Reclining sensor circuit inspection	SE-44
	3. Lifting sensor (front) circuit inspection	SE-45
	4. Lifting sensor (rear) circuit inspection	SE-46
	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-48
	2. Mirror sensor RH circuit check	SE-49
	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. A/T device (park position switch) circuit inspection	SE-64
	2. UART communication line circuit inspection	SE-66
	3. Pedal adjusting sensor circuit inspection	SE-47
	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-51
	2. Reclining switch circuit inspection	SE-52
	3. Lifting switch (front) circuit inspection	SE-53
	4. Lifting switch (rear) circuit inspection	SE-54
	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-56
	2. Door mirror remote control switch (change over switch) circuit inspection	SE-58
	3. Door mirror remote control switch (mirror switch) switching circuit inspection	SE-59
	4. If the above systems are normal, replace the automatic drive positioner control unit	SE-11
Automatic drive positioner system does not operate (only memory switch operation).	1. Seat memory switch circuit inspection	SE-61
	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-62
	2. If all the above systems are normal, replace the driver seat control unit.	SE-11
The entry/exiting does not operate when door is opened and closed. (entry/exiting operates with key switch)	1. Front door switch circuit inspection	SE-65
	2. If all the above systems are normal, replace the BCM.	BCS-18
Door mirror system does not operate (only manual operation).	1. Door mirror remote control switch ground circuit inspection	SE-61
Door mirror system does not operate (only automatic operation).	1. Door mirror sensor power supply and ground circuit inspection	SE-63
Seat system does not operate (only manual operation).	1. Power seat switch ground circuit inspection	SE-56

Symptom	Diagnoses/service procedure	Refer to page
Reverse tilt mirrors do not operate.	1. Door mirror remote control switch is not in L or R position.	—
	2. CAN communication inspection using CONSULT-III (self-diagnosis)	LAN-9, "Self-Diagnosis"
	3. Door mirror sensor power supply and ground circuit inspection	SE-63

Sliding Motor Circuit Inspection

INFOID:0000000001718781

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-III
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-III
GO TO 3.

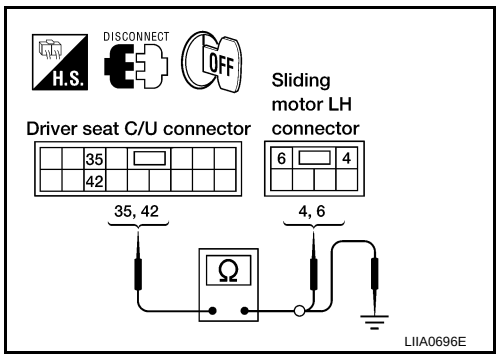
OK or NG

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 B402 terminals 35, 42 and sliding motor connector B403 terminals 4, 6.

35 - 4 : Continuity should exist.
42 - 6 : Continuity should exist.



4. Check continuity between driver seat control unit connector B402 terminals 35, 42 and ground.

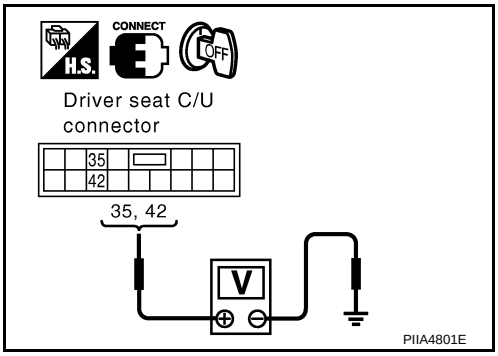
35 - Ground : Continuity should not exist.
42 - Ground : Continuity should not exist.

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 (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
B402	35	Ground	Sliding switch ON (FORWARD operation)	Battery voltage
			Other than above	0
	42		Sliding switch ON (BACKWARD operation)	Battery voltage
			Other than above	0

OK or NG

OK >> Replace sliding motor. Refer to SE-75.
NG >> Replace driver seat control unit. Refer to SE-75.

Reclining Motor LH Circuit Inspection

INFOID:0000000001718782

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-III

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-III

GO TO 3.

OK or NG

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

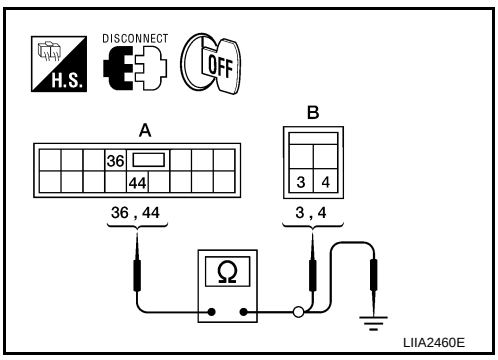
3.CHECK RECLINING MOTOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and reclining motor LH.
3. Check continuity between driver seat control unit connector B402 (A) terminals 36, 44 and reclining motor LH connector B404 (B) terminals 3, 4.

36 - 4 : Continuity should exist.
44 - 3 : Continuity should exist.

4. Check continuity between driver seat control unit connector B402 (A) terminals 36, 44 and ground.

36 - Ground : Continuity should not exist.
44 - Ground : Continuity should not exist.



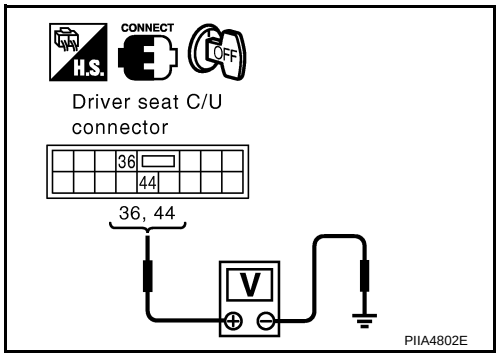
OK or NG

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 (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
B402	36	Ground	Reclining switch ON (FORWARD operation)	Battery voltage
			Other than above	0
	44		Reclining switch ON (BACKWARD operation)	Battery voltage
			Other than above	0

OK or NG

OK >> Replace reclining motor. Refer to SE-75.
NG >> Replace driver seat control unit. Refer to SE-75.

Lifting Motor (Front) Circuit Inspection

INFOID:0000000001718783

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-III

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-III

GO TO 3.

OK or NG

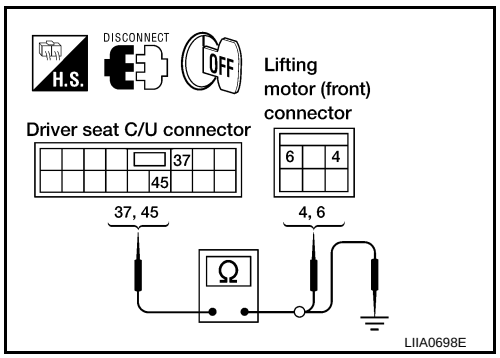
OK >> Lifting motor (front) circuit is OK.
NG >> GO TO 3.

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 B402 terminals 37, 45 and lifting motor (front) connector B405 terminals 4, 6.

37 - 6 : Continuity should exist.
45 - 4 : Continuity should exist.

4. Check continuity between driver seat control unit connector B402 terminals 37, 45 and ground.



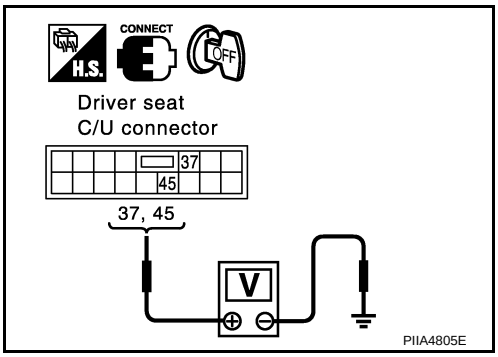
37 - Ground : Continuity should not exist.
45 - Ground : Continuity should not exist.

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 (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
B402	37	Ground	Lifting switch (front) ON (DOWN operation)	Battery voltage
			Other than above	0
	45		Llifting switch (front) ON (UP operation)	Battery voltage
			Other than above	0

OK or NG

OK >> Replace lifting motor (front). Refer to SE-75.
NG >> Replace driver seat control unit. Refer to SE-75.

Lifting Motor (Rear) Circuit Inspection

INFOID:0000000001718784

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-III
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-III
GO TO 3.

OK or NG

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

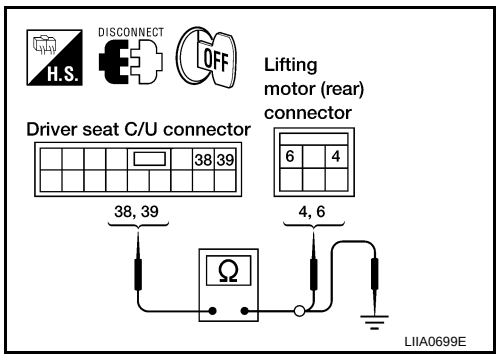
3.CHECK LIFTING MOTOR (REAR) CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and lifting motor (rear).
3. Check continuity between driver seat control unit connector B402 terminals 38, 39 and lifting motor (rear) connector B406 terminals 4, 6.

38 - 6 : Continuity should exist.
39 - 4 : Continuity should exist.

4. Check continuity between driver seat control unit B402 terminals 38, 39 and ground.

38 - Ground : Continuity should not exist.
39 - Ground : Continuity should not exist.

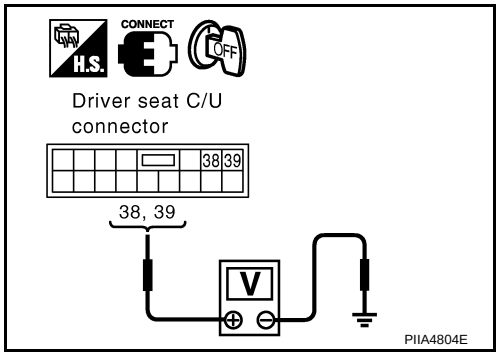


OK or NG

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 (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
B402	38	Ground	Lifting switch (rear) ON (UP operation)	Battery voltage
			Other than above	0
	39		Lifting switch (rear) ON (DOWN operation)	Battery voltage
			Other than above	0

OK or NG

OK >> Replace lifting motor (rear). Refer to SE-75.
NG >> Replace driver seat control unit. Refer to SE-75.

Pedal Adjusting Motor Circuit Inspection

INFOID:0000000001718785

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-III
Check operation with “ADJ PEDAL MOTOR” in ACTIVE TEST.

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

Without CONSULT-III
GO TO 3.

OK or NG

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

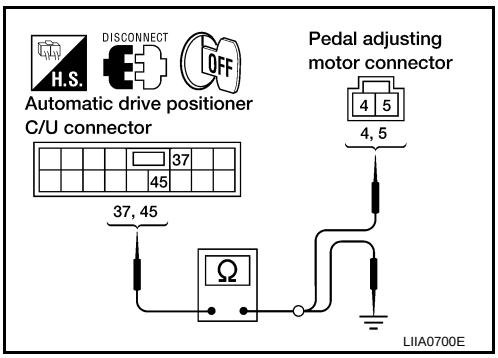
3.CHECK PEDAL ADJUSTING MOTOR CIRCUIT HARNESS CONTINUITY

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 M42 terminals 37, 45 and pedal adjusting motor connector E109 terminals 4, 5.

37 - 5 : Continuity should exist.
45 - 4 : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M42 terminals 37, 45 and ground.

37 - Ground : Continuity should not exist.
45 - Ground : Continuity should not exist.



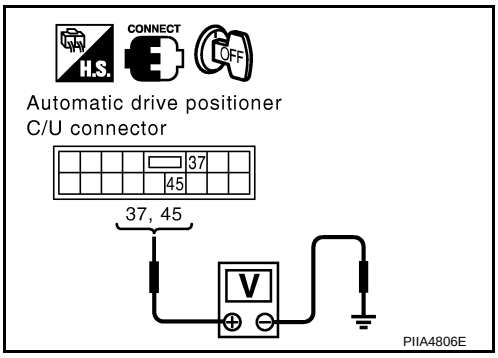
OK or NG

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 (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
M42	37	Ground	Pedal adjusting switch ON (FORWARD operation)	Battery voltage
			Other than above	0
	45		Pedal adjusting switch ON (BACKWARD operation)	Battery voltage
			Other than above	0



OK or NG

OK >> Replace pedal adjusting motor. Refer to SE-67, "Removal and Installation".
NG >> Replace automatic drive positioner control unit.

Mirror Motor LH Circuit Inspection

INFOID:0000000001718786

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-III
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-III

GO TO 3.

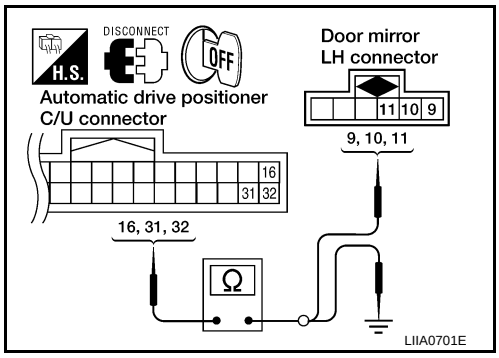
OK or NG

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

3. CHECK MIRROR MOTOR LH CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror LH.
3. Check continuity between automatic drive positioner control unit connector M41 terminals 16, 31, 32 and door mirror LH connector D13 terminals 9, 10, 11.

16 - 11 : Continuity should exist.
31 - 10 : Continuity should exist.
32 - 9 : Continuity should exist.



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

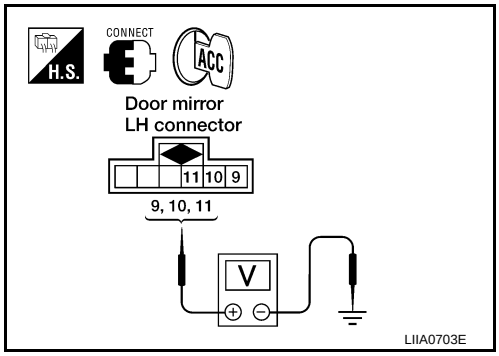
16 - Ground : Continuity should not exist.
31 - Ground : Continuity should not exist.
32 - Ground : Continuity should not exist.

OK or NG

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

4. CHECK MIRROR MOTOR SIGNAL

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



Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
D13	10	Ground	Mirror motor is operated UP	1.7 - Battery voltage
			Other than above	0
	9		Mirror motor is operated LEFT	1.7 - Battery voltage
			Other than above	0
	11		Mirror motor is operated DOWN or RIGHT	1.7 - Battery voltage
			Other than above	0

OK or NG

OK >> Replace door mirror LH. Refer to GW-93, "Door Mirror Assembly".
NG >> Repair or replace harness.

Mirror Motor RH Circuit Inspection

INFOID:0000000001718787

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-III
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.

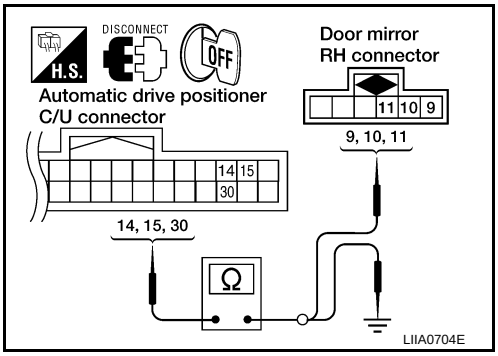
Without CONSULT-III
GO TO 3.

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 M41 terminals 14, 15, 30 and door mirror RH connector D113 terminals 9, 10, 11.



14 - 10 : Continuity should exist.
15 - 9 : Continuity should exist.
30 - 11 : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M41 terminals 14, 15, 30 and ground.

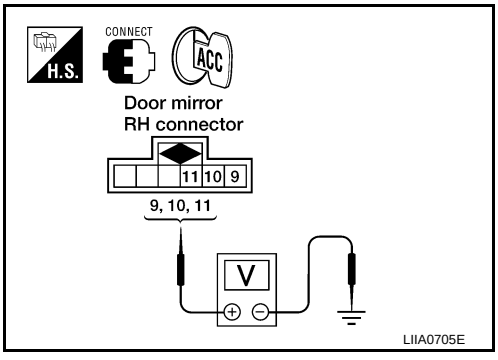
14 - Ground : Continuity should not exist.
15 - Ground : Continuity should not exist.
30 - Ground : Continuity should not exist.

OK or NG

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

4.CHECK MIRROR MOTOR SIGNAL

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



Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
D113	10	Ground	Mirror motor is operated UP	1.7 - Battery voltage
			Other than above	0
	9		Mirror motor is operated LEFT	1.7 - Battery voltage
			Other than above	0
	11		Mirror motor is operated DOWN or RIGHT	1.7 - Battery voltage
			Other than above	0

OK or NG

OK >> Replace door mirror motor RH. Refer to GW-93, "Door Mirror Assembly".
NG >> Repair or replace harness.

Sliding Sensor Circuit Inspection

INFOID:0000000001718788

1.CHECK FUNCTION

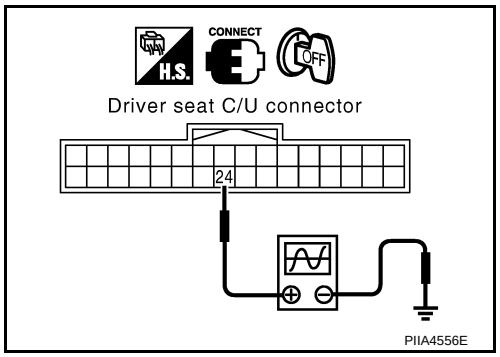
With CONSULT-III

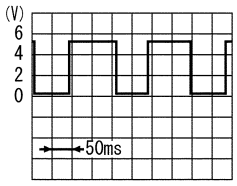
Check operation with “SLIDE PULSE” on the DATA MONITOR to make sure the pulse changes.

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

Without CONSULT-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Signal
B401	24	Ground	Sliding motor operation	

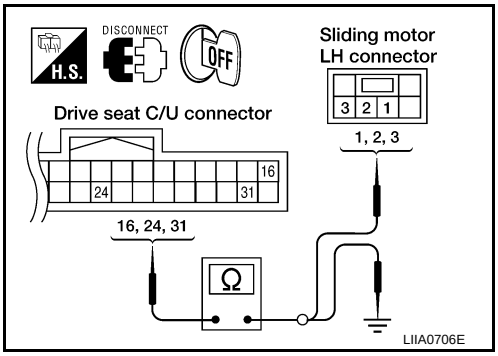
SIIA0691J

OK or NG

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

2.CHECK SLIDING SENSOR CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit connector and sliding motor LH connector.
2. Check continuity between driver seat control unit connector B401 terminals 16, 24, 31 and sliding motor B403 terminals 1, 2, 3.



16 - 3	**: Continuity should exist.**
24 - 2	**: Continuity should exist.**
31 - 1	**: Continuity should exist.**

3. Check continuity between driver seat control unit B401 terminals 16, 24, 31 and ground.

16 - Ground	**: Continuity should not exist.**
24 - Ground	**: Continuity should not exist.**
31 - Ground	**: Continuity should not exist.**

OK or NG

OK >> Replace sliding motor. Refer to SE-75.
NG >> Repair or replace harness.

Reclining Sensor Circuit Inspection

INFOID:0000000001718789

1.CHECK FUNCTION

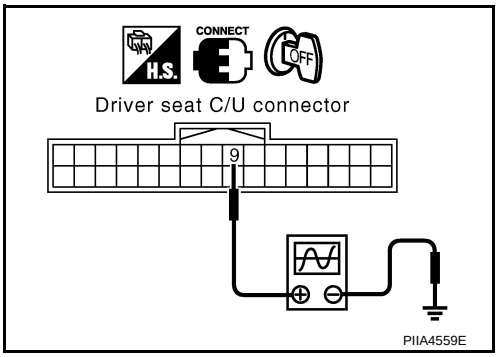
With CONSULT-III

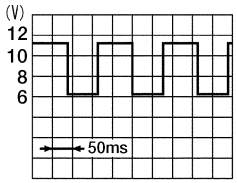
Check operation with “RECLN PULSE” on the DATA MONITOR to make sure the pulse changes.

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

Without CONSULT-III

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



Connector	Terminals		Condition	Signal
	(+)	(-)		
B401	9	Ground	Reclining motor operation	

OK or NG

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

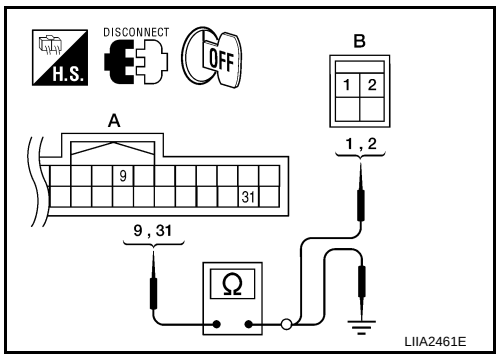
2.CHECK RECLINING SENSOR CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and reclining motor LH.
2. Check continuity between driver seat control unit connector B401 terminals 9, 31 and reclining motor LH connector B404 terminals 1, 2.

9 - 2 : Continuity should exist.
31 - 1 : Continuity should exist.

3. Check continuity between driver seat control unit connector B401 terminals 9, 31 and ground.

9 - Ground : Continuity should not exist.
31 - Ground : Continuity should not exist.



OK or NG

OK >> Replace reclining motor. Refer to SE-75.
NG >> Repair or replace harness.

Lifting Sensor (Front) Circuit Inspection

INFOID:0000000001718790

1.CHECK FUNCTION

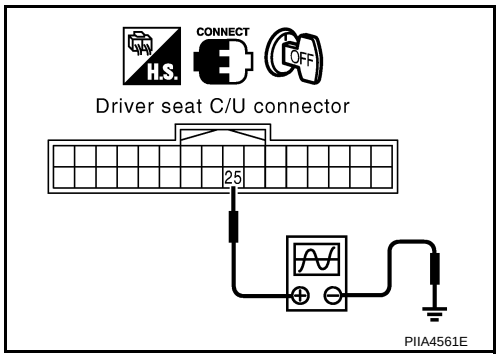
With CONSULT-III

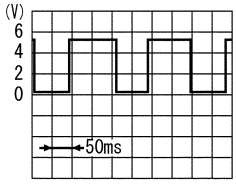
Check operation with “LIFT FR PULSE” on the DATA MONITOR to make sure the pulse changes.

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

Without CONSULT-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Signal
B401	25	Ground	Lifting motor (front) operation	

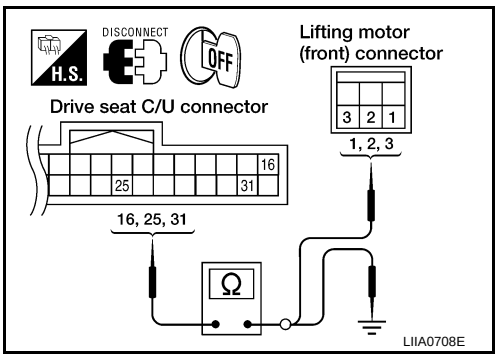
SIIA0691J

OK or NG

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

2.CHECK FRONT LIFTING SENSOR CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and lifting motor (front).
2. Check continuity between driver seat control unit connector B401 terminals 16, 25, 31 and lifting motor (front) connector B405 terminals 1, 2, 3.



16 - 3 : Continuity should exist.
25 - 2 : Continuity should exist.
31 - 1 : Continuity should exist.

3. Check continuity between driver seat control unit connector B401 terminals 16, 25, 31 and ground.

16 - Ground : Continuity should not exist.
25 - Ground : Continuity should not exist.
31 - Ground : Continuity should not exist.

OK or NG

OK >> Replace lifting motor (front). Refer to SE-75.
NG >> Repair or replace harness.

Lifting Sensor (Rear) Circuit Inspection

INFOID:0000000001718791

1.CHECK REAR END LIFTING SENSOR INPUT/OUTPUT SIGNAL

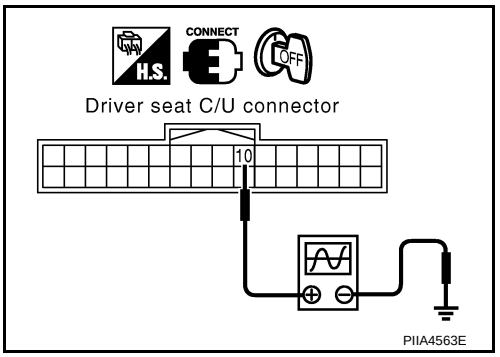
With CONSULT-III

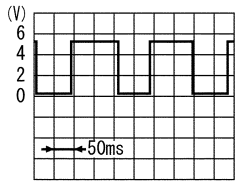
Check operation with “LIFT RR PULSE” on the DATA MONITOR to make sure pulse changes.

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

Without CONSULT-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Signal
B401	10	Ground	Lifting motor (rear) operation	

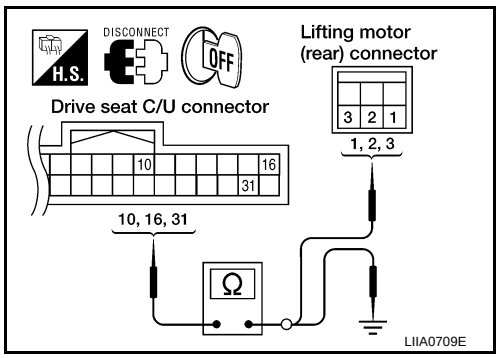
SIIA0691J

OK or NG

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

2.CHECK REAR LIFTING SENSOR CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and lifting motor (rear).
2. Check continuity between driver seat control unit connector B401 terminals 10, 16, 31 and lifting motor (rear) connector B406 terminals 1, 2, 3.



10 - 2 : Continuity should exist.
16 - 3 : Continuity should exist.
31 - 1 : Continuity should exist.

3. Check continuity between driver seat control unit connector B401 terminals 10, 16, 31 and ground.

10 - Ground : Continuity should not exist.
16 - Ground : Continuity should not exist.
31 - Ground : Continuity should not exist.

OK or NG

OK >> Replace lifting motor (rear). Refer to SE-75.
NG >> Repair or replace harness.

Pedal Adjusting Sensor Circuit Inspection

INFOID:0000000001718792

1.CHECK FUNCTION

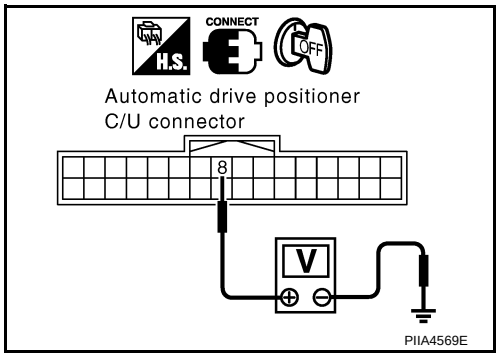
With CONSULT-III

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-III

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



Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M41	8	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 M41, M42 terminals 8, 33, 41 and pedal adjusting sensor connector E110 terminals 1, 2, 3.

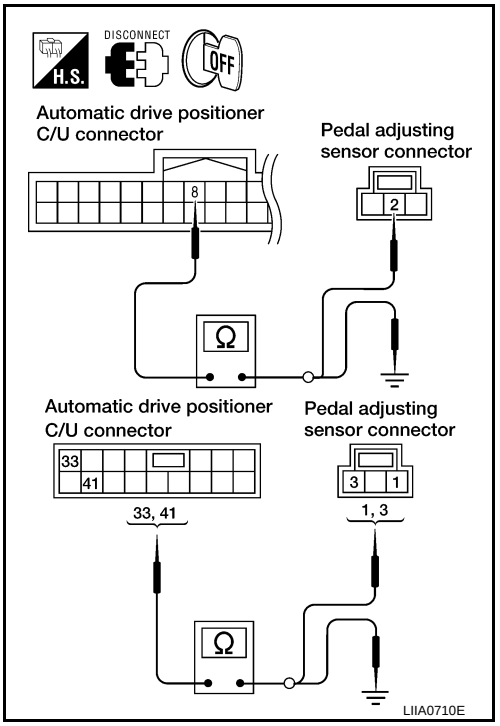
8 - 2	**: Continuity should exist.**
33 - 1	**: Continuity should exist.**
41 - 3	**: Continuity should exist.**

3. Check continuity between automatic drive positioner control unit connector M41, M42 terminals 8, 33, 41 and ground.

8 - Ground	**: Continuity should not exist.**
33 - Ground	**: Continuity should not exist.**
41 - Ground	**: Continuity should not exist.**

OK or NG

OK >> Replace pedal adjusting motor. Refer to SE-67, "Removal and Installation".
NG >> Repair or replace harness.



Mirror Sensor LH Circuit Inspection

INFOID:0000000001718793

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

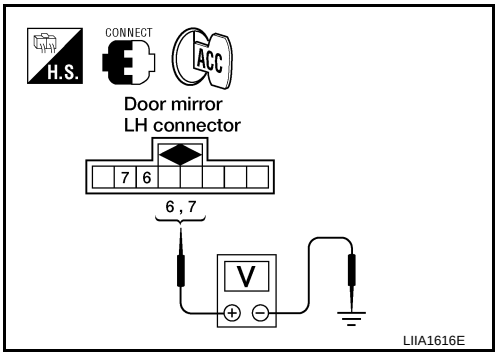
With CONSULT-III

Check that “ON” is displayed on “MIR/SEN LH R-L, MIR/SEN 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-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
D4	7	Ground	When motor is operated LEFT or RIGHT	Changes between 3.5 (close to right edge) – 0.5 (close to left edge)
	6		When motor is operated UP or DOWN	Changes between 3.5 (close to peak) – 0.5 (close to valley)

OK or NG

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

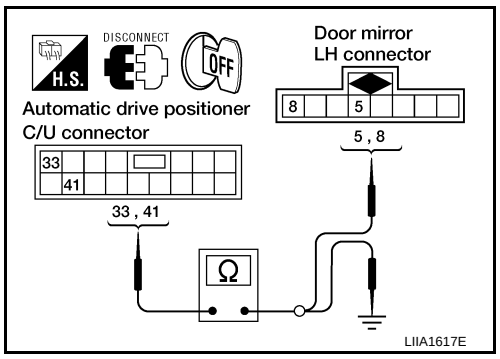
3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror LH.
3. Check continuity between automatic drive positioner control unit connector M42 terminals 33, 41 and door mirror LH connector D2 terminals 5, 8.

33 - 5 : Continuity should exist.
41 - 8 : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M42 terminals 33, 41 and ground.

33 - Ground : Continuity should not exist.
41 - Ground : Continuity should not exist.



OK or NG

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

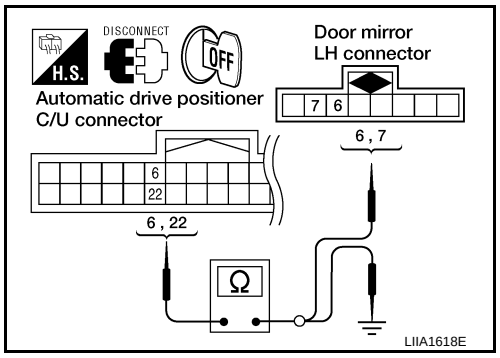
4. CHECK HARNESS CONTINUITY 2

1. Check continuity between automatic drive positioner control unit connector M41 terminals 6, 22 and door mirror LH connector D4 terminals 6, 7.

6 - 6 : Continuity should exist.
22 - 7 : Continuity should exist.

2. Check continuity between automatic drive positioner control unit connector M41 terminals 6, 22 and ground.

6 - Ground : Continuity should not exist.
22 - Ground : Continuity should not exist.



OK or NG

OK >> Replace door mirror LH. Refer to GW-93, "Door Mirror Assembly".
NG >> Repair or replace harness.

Mirror Sensor RH Circuit Inspection

INFOID:0000000001718794

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.

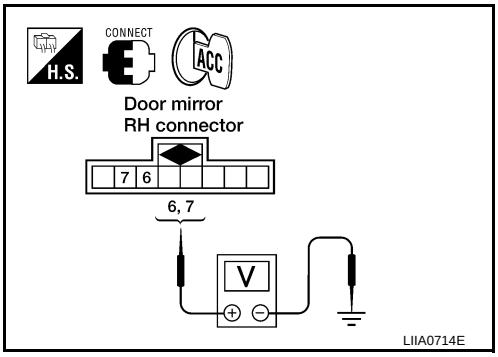
2. CHECK MIRROR SENSOR INSPECTION

With CONSULT-III
Check that “ON” is displayed on “MIR/SEN RH R-L, MIR/SEN 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-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
D107	7	Ground	When motor is operated LEFT or RIGHT	Changes between 3.5 (close to left edge) – 0.5 (close to right edge)
	6		When motor is operated UP or DOWN	Changes between 3.5 (close to peak) – 0.5 (close to valley)

OK or NG

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

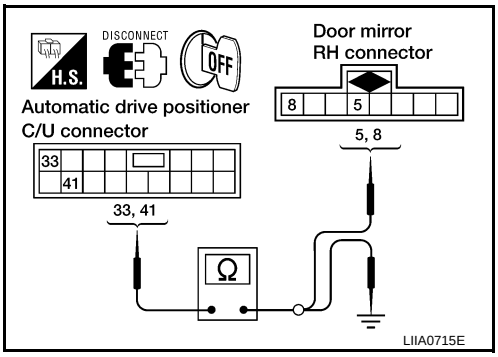
3. CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror RH.
3. Check continuity between automatic drive positioner control unit connector M42 terminals 33, 41 and door mirror RH connector D107 terminals 5, 8.

33 - 5 : Continuity should exist.
41 - 8 : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M42 terminals 33, 41 and ground.

33 - Ground : Continuity should not exist.
41 - Ground : Continuity should not exist.



OK or NG

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

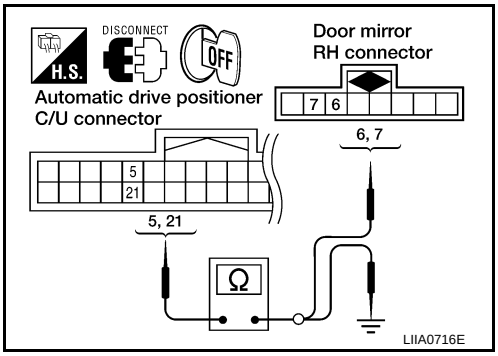
4. CHECK HARNESS CONTINUITY 2

1. Check continuity between automatic drive positioner control unit connector M41 terminals 5, 21 and door mirror RH connector D107 terminals 6, 7.

5 - 6 : Continuity should exist.
21 - 7 : Continuity should exist.

2. Check continuity between automatic drive positioner control unit connector M41 terminals 5, 21 and ground.

5 - Ground : Continuity should not exist.
21 - Ground : Continuity should not exist.



OK or NG

OK >> Replace door mirror RH. Refer to GW-93, "Door Mirror Assembly".
NG >> Repair or replace harness.

Sliding Switch Circuit Inspection

INFOID:0000000001718795

1.CHECK FUNCTION

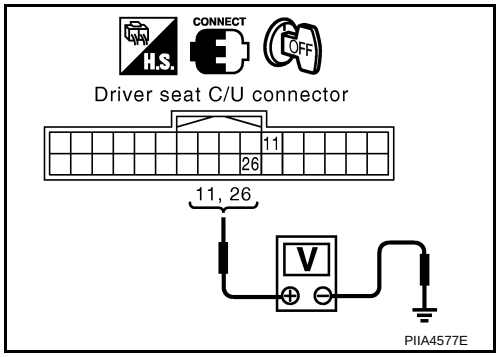
With CONSULT-III

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-III

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



Connector	Terminal (+)	Terminal (-)	Condition	Voltage (V) (Approx.)
B401	11	Ground	Sliding switch ON (BACKWARD operation)	0
			Other than above	Battery voltage
	26		Sliding switch ON (FORWARD operation)	0
			Other than above	Battery voltage

OK or NG

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

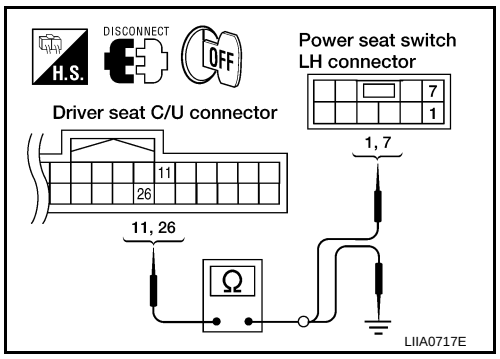
2.CHECK SLIDING SWITCH CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit connector and power seat switch LH connector.
2. Check continuity between driver seat control unit connector B401 terminals 11, 26 and power seat switch LH connector B407 terminals 1, 7.

11 - 7 : Continuity should exist.
26 - 1 : Continuity should exist.

3. Check continuity between driver seat control unit connector B401 terminals 11, 26 and ground.

11 - Ground : Continuity should not exist.
26 - Ground : Continuity should not exist.

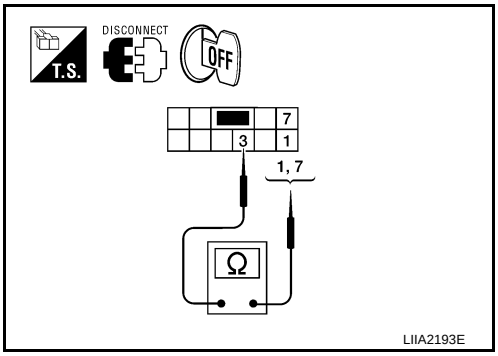


OK or NG

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

3.CHECK SLIDING SWITCH

Check continuity between power seat switch LH terminals as follows.



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. Refer to SE-75.

Reclining Switch Inspection

INFOID:0000000001718796

1.CHECK FUNCTION

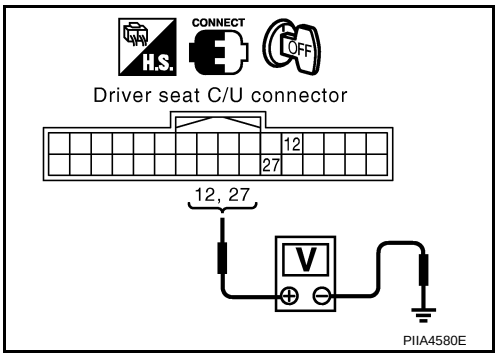
With CONSULT-III

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-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
B401	12	Ground	Reclining switch ON (BACKWARD operation)	0
			Other than above	Battery voltage
	27		Reclining switch ON (FORWARD operation)	0
			Other than above	Battery voltage

OK or NG

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

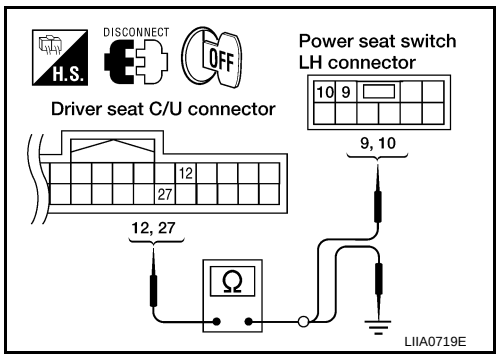
2.CHECK RECLINING SWITCH CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and power seat switch LH.
2. Check continuity between driver seat control unit connector B401 terminals 12, 27 and power seat switch LH connector B407 terminals 9, 10.

12 - 9 : Continuity should exist.
27 - 10 : Continuity should exist.

3. Check continuity between driver seat control unit connector B401 terminals 12, 27 and ground.

12 - Ground : Continuity should not exist.
27 - Ground : Continuity should not exist.



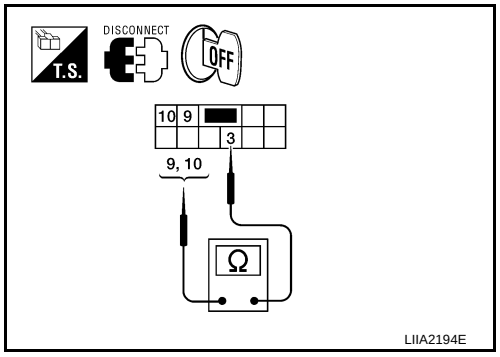
OK or NG

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

3.RECLINING SWITCH INSPECTION

Check continuity between power seat switch LH terminals as follows.

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. Refer to SE-75.

Lifting Switch (Front) Circuit Inspection

INFOID:0000000001718797

1.CHECK FUNCTION

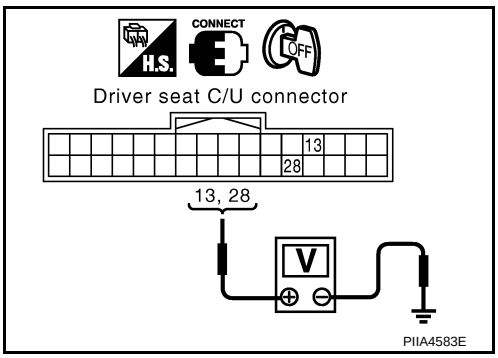
With CONSULT-III

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-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
B401	13	Ground	Lifting switch (front) ON (DOWN operation)	0
			Other than above	Battery voltage
	28		Lifting switch (front) ON (UP operation)	0
			Other than above	Battery voltage

OK or NG

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

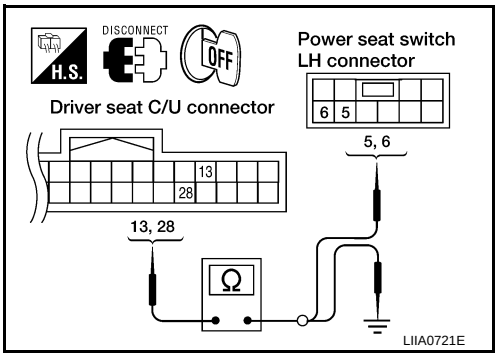
2.CHECK LIFTING SWITCH (FRONT) CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and power seat switch LH.
2. Check continuity between driver seat control unit connector B401 terminals 13, 28 and power seat switch LH connector B407 terminals 5, 6.

13 - 5 : Continuity should exist.
28 - 6 : Continuity should exist.

3. Check continuity between driver seat control unit connector B401 terminals 13, 28 and ground

13 - Ground : Continuity should not exist.
28 - Ground : Continuity should not exist.

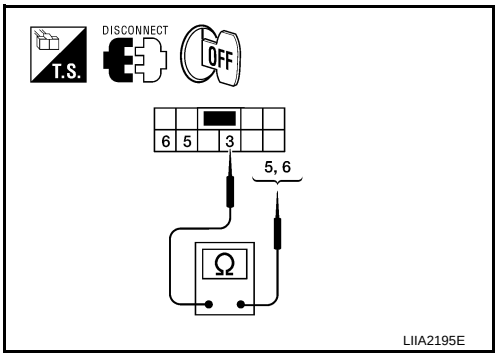


OK or NG

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

3.CHECK LIFTING SWITCH (FRONT)

Check continuity between power seat switch LH terminals as follows.



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. Refer to SE-75.

Lifting Switch (Rear) Circuit Inspection

INFOID:0000000001718798

1.CHECK FUNCTION

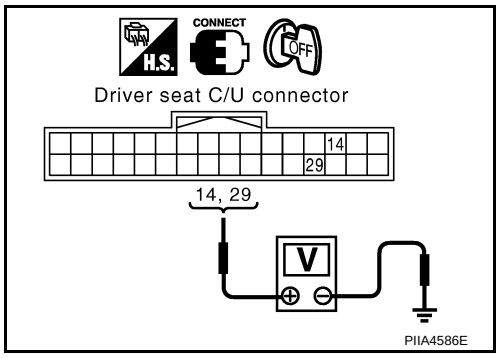
With CONSULT-III

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-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
B401	14	Ground	Lifting switch (rear) ON (DOWN operation)	0
			Other than above	Battery voltage
	29		Lifting switch (rear) ON (UP operation)	0
			Other than above	Battery voltage

OK or NG

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

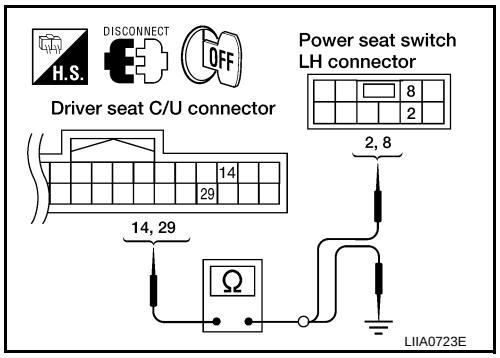
2. CHECK LIFTING SWITCH (REAR) CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and power seat switch LH.
2. Check continuity between driver seat control unit connector B401 terminals 14, 29 and power seat switch connector B407 terminals 2, 8.

14 - 8 : Continuity should exist.
29 - 2 : Continuity should exist.

3. Check continuity between driver seat control unit connector B401 terminals 14, 29 and ground.

14 - Ground : Continuity should not exist.
29 - Ground : Continuity should not exist.

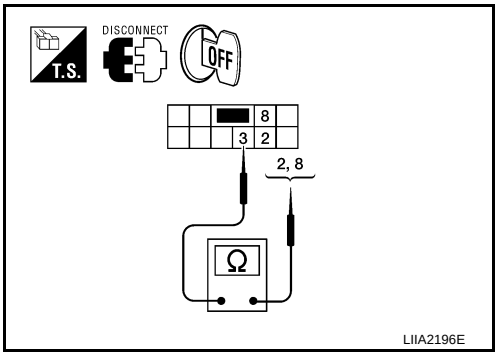


OK or NG

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

3. CHECK LIFTING SWITCH (REAR)

Check continuity between power seat switch LH terminals 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. Refer to SE-75.

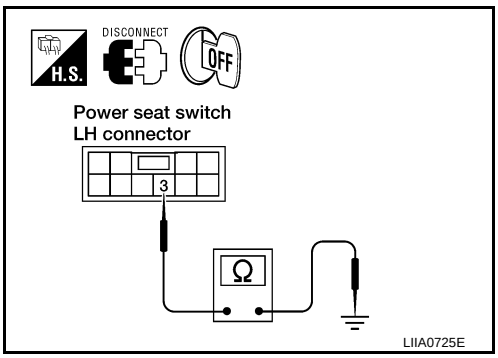
Power Seat Switch Ground Inspection

INFOID:0000000001718799

1.CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check continuity between power seat switch LH connector B407 terminal 3 and ground.

3 - 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

INFOID:0000000001718800

1.CHECK FUNCTION

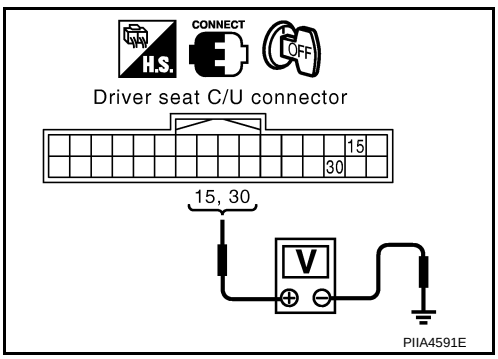
With CONSULT-III

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-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
B401	15	Ground	Pedal adjusting switch ON (BACKWARD operation)	0
			Other than above	Battery voltage
	30		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.

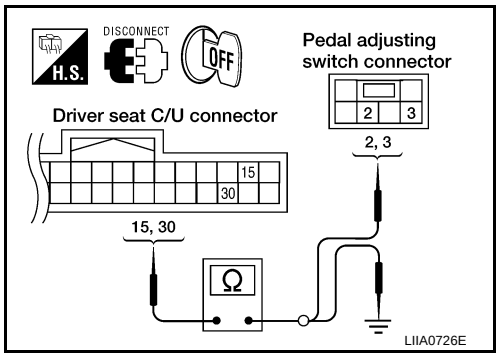
2.CHECK PEDAL ADJUSTING SWITCH CIRCUIT HARNESS CONTINUITY

1. Disconnect driver seat control unit and pedal adjusting switch.
2. Check continuity between driver seat control unit connector B401 terminals 15, 30 and pedal adjusting switch connector B22 terminals 2, 3.

15 - 3 : Continuity should exist.
30 - 2 : Continuity should exist.

3. Check continuity between driver seat control unit connector B401 terminals 15, 30 and ground.

15 - Ground : Continuity should not exist.
30 - Ground : Continuity should not exist.



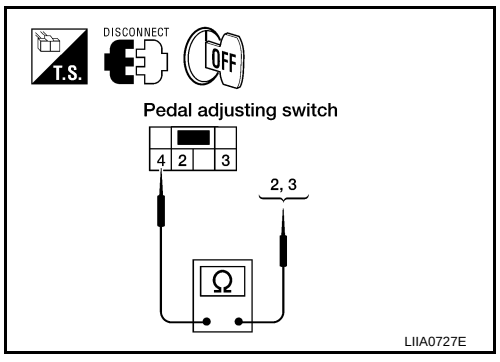
OK or NG

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

3.CHECK PEDAL ADJUSTING SWITCH

Check continuity between pedal adjusting switch terminals as follows.

Terminals		Condition	Continuity
2	4	Pedal adjusting switch ON (BACKWARD operation)	Yes
		Other than above	No
3		Pedal adjusting switch ON (FORWARD operation)	Yes
		Other than above	No



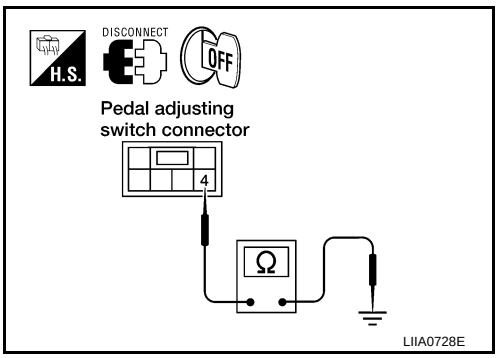
OK or NG

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

4.CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT

Check continuity between pedal adjusting switch connector B22 terminal 4 and ground.

4 - Ground : Continuity should exist.



OK or NG

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

Door Mirror Remote Control Switch (Changeover Switch) Circuit Inspection

INFOID:0000000001718801

1.CHECK FUNCTION

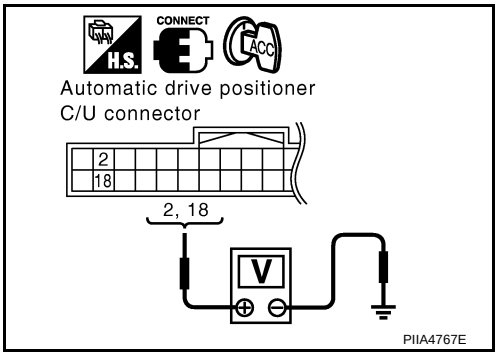
With CONSULT-III

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 remote control switch (switching to RIGHT) signal is displayed.
MIR CHNG SW-L	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (switching to LEFT) signal is displayed.

Without CONSULT-III

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



Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
M41	2	Ground	Changeover switch RIGHT position	0
			Other than above	5
	18		Changeover switch LEFT position	0
			Other than above	5

OK or NG

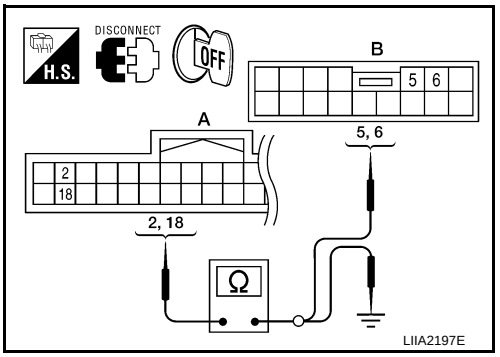
OK >> Door mirror remote control switch (changeover switch) is OK.
NG >> GO TO 2.

2.CHECK DOOR MIRROR REMOTE CONTROL SWITCH CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror remote control switch .
3. Check continuity between automatic drive positioner control unit connector M41 (A) terminals 2, 18 and door mirror remote control switch connector D10 (B) terminals 5, 6.

2 - 5 : Continuity should exist.
18 - 6 : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M41 (A) terminals 2, 18 and ground.



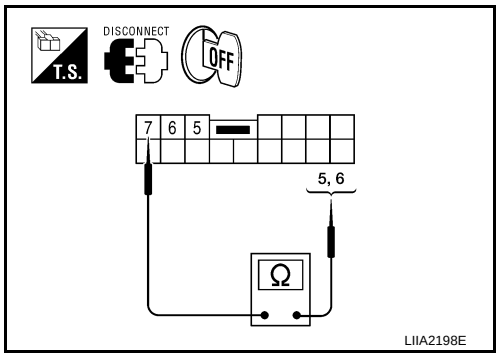
2 - Ground : Continuity should not exist.
18 - Ground : Continuity should not exist.

OK or NG

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

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

Check continuity between door mirror remote control switch terminals as follows.



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 remote control switch.

Door Mirror Remote Control Switch (Mirror Switch) Circuit Inspection

INFOID:0000000001718802

1. CHECK DOOR MIRROR SWITCH (MIRROR SWITCH) SIGNAL

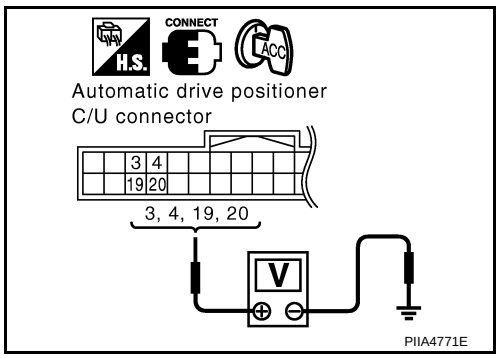
With CONSULT-III

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 remote control switch (UP) signal is displayed.
MIR CON SW-DN	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (DOWN) signal is displayed.
MIR CON SW-RH	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (RIGHT) signal is displayed.
MIR CON SW-LH	“ON/OFF”	ON/OFF status judged from the door mirror remote control switch (LEFT) signal is displayed.

Without CONSULT-III

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



Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		

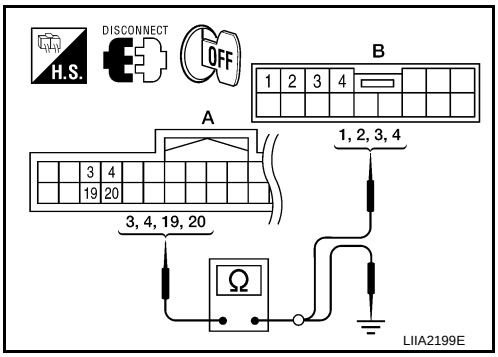
M41	3	Ground	Mirror switch UP operation	0
			Other than above	5
	4		Mirror switch LEFT operation	0
			Other than above	5
	19		Mirror switch DOWN operation	0
			Other than above	5
	20		Mirror switch RIGHT operation	0
			Other than above	5

OK or NG

OK >> Door mirror remote control 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 remote control switch.
3. Check continuity between automatic drive positioner control unit connector M41 (A) terminals 3, 4, 19, 20 and door mirror remote control switch connector D10 (B) terminals 1, 2, 3, 4.



3 - 2 : Continuity should exist.
4 - 4 : Continuity should exist.
19 - 1 : Continuity should exist.
20 - 3 : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M41 (A) terminals 3, 4, 19, 20 and ground.

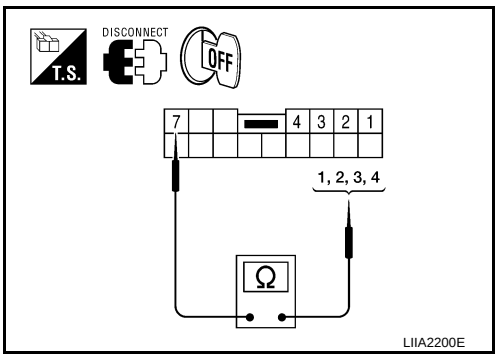
3 - Ground : Continuity should not exist.
4 - Ground : Continuity should not exist.
19 - Ground : Continuity should not exist.
20 - Ground : Continuity should not exist.

OK or NG

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

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

Check continuity between door mirror remote control switch terminals as follows.



Terminals		Condition	Continuity
3	7	Mirror switch RIGHT operation	Yes
		Other than above	No
4		Mirror switch LEFT operation	Yes
		Other than above	No
2		Mirror switch UP operation	Yes
		Other than above	No
1		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 remote control switch.

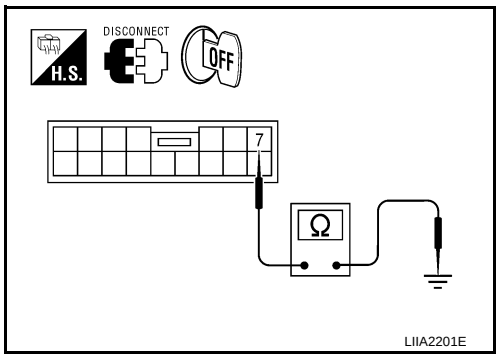
Door Mirror Remote Control Switch Ground Circuit Inspection

INFOID:0000000001718803

1.CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

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

7 - Ground : Continuity should exist.

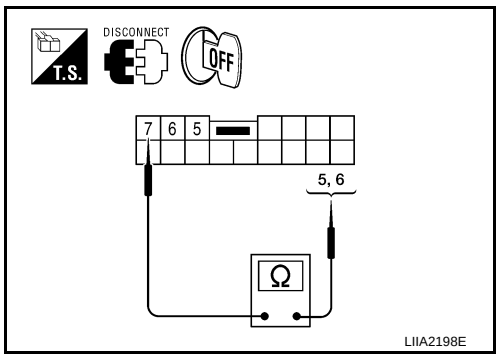


OK or NG

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

2.CHECK DOOR MIRROR REMOTE CONTROL SWITCH (CHANGEOVER SWITCH)

Check continuity between door mirror remote control switch terminals as follows.



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 remote control switch.

Seat Memory Switch Circuit Inspection

INFOID:0000000001718804

1.CHECK FUNCTION

With CONSULT-III

With “SET SW, MEMORY SW 1, MEMORY SW 2” on the DATA MONITOR, operate the switch to check ON/OFF operation.

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

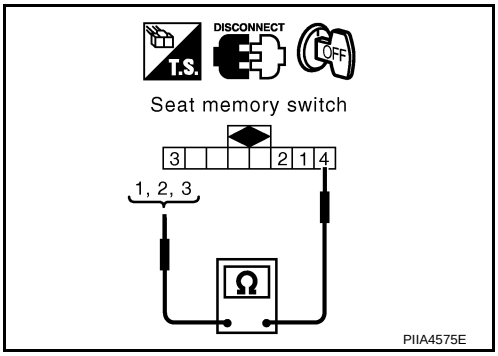
GO TO 2.

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 terminals 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. Refer to EI-29, "Removal and Installation".

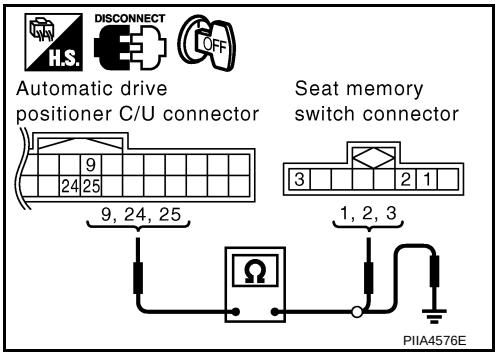
3.CHECK HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit.
2. Check continuity between automatic drive positioner control unit connector M41 terminals 9, 24, 25 and seat memory switch connector D5 terminals 1, 2, 3.

9 - 1 : Continuity should exist.
24 - 3 : Continuity should exist.
25 - 2 : Continuity should exist.

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

9 - Ground : Continuity should not exist.
24 - Ground : Continuity should not exist.
25 - Ground : Continuity should not exist.



OK or NG

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

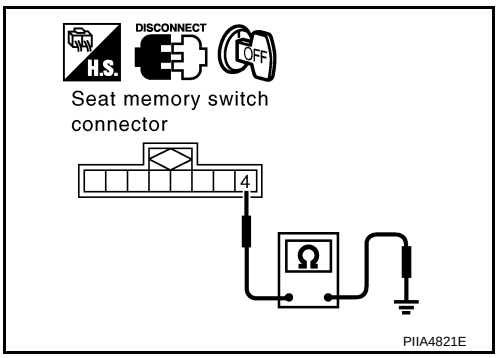
4.CHECK SEAT MEMORY SWITCH GROUND CIRCUIT

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

4 - 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

INFOID:0000000001718805

1.CHECK FUNCTION

With CONSULT-III
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-III

GO TO 2.

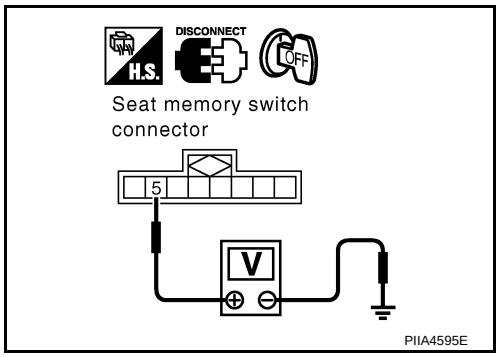
OK or NG

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 - Ground : Battery voltage



OK or NG

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

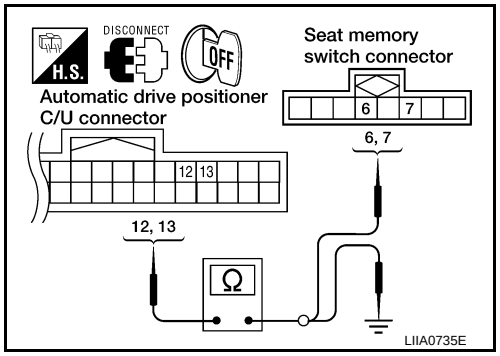
3.CHECK SEAT MEMORY INDICATOR CIRCUIT HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit.
2. Check continuity between automatic drive positioner control unit connector M41 terminals 12, 13 and seat memory switch connector D5 terminals 6, 7.

12 - 6 : Continuity should exist.
13 - 7 : Continuity should exist.

3. Check continuity between automatic drive positioner control unit connector M41 terminals 12, 13 and ground.

12 - Ground : Continuity should not exist.
13 - Ground : Continuity should not exist.



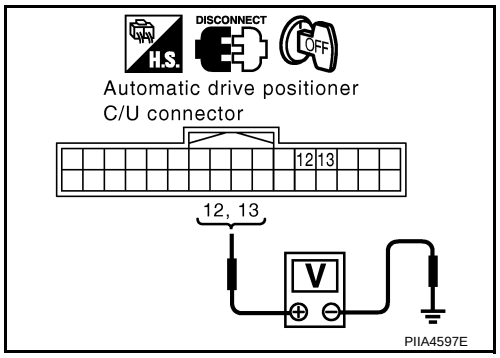
OK or NG

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

4.CHECK SEAT MEMORY SWITCH INDICATOR SIGNAL

Check voltage between automatic drive positioner control unit connector M41 terminals 12, 13 and ground.

12 - Ground : Battery voltage
13 - Ground : Battery voltage



OK or NG

OK >> Replace automatic drive positioner control unit.
NG >> Replace seat memory switch. Refer to EI-29, "Removal and Installation".

Door Mirror Sensor Power Supply and Ground Circuit inspection

INFOID:0000000001718806

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 M42 terminals 33, 41 and door mirror LH connector D4 LH, D107 RH terminals 5, 8.

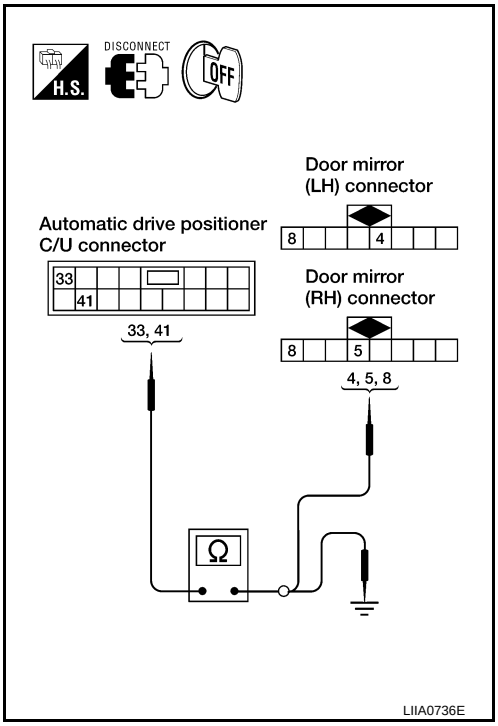
33 - 5 : Continuity should exist.
41 - 8 : Continuity should exist.

3. Check continuity between automatic drive positioner control unit connector M42 terminals 33, 41 and ground.

33 - Ground : Continuity should not exist.
41 - Ground : Continuity should not exist.

OK or NG

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



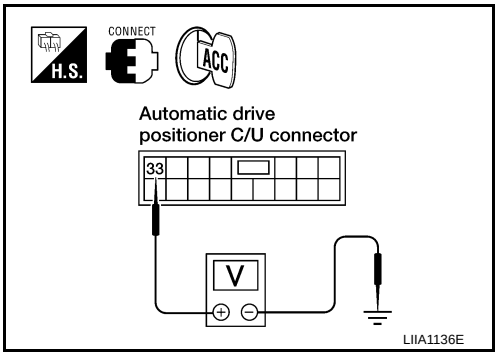
2. CHECK MIRROR SENSOR POWER SUPPLY

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 M42 terminal 33 and ground.

33 - Ground : Approx. 5V

OK or NG

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



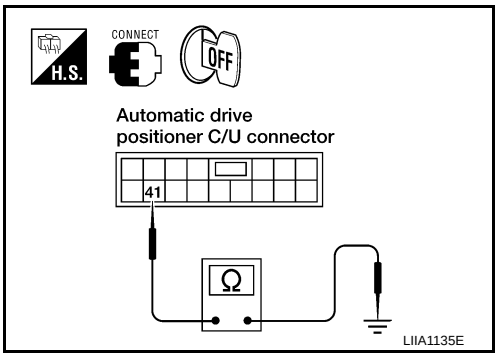
3. CHECK MIRROR SENSOR GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between automatic drive positioner control unit connector M42 terminal 41 and ground.

41 - 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 (Park Position Switch) Circuit Inspection

INFOID:0000000001718807

1. CHECK FUNCTION

With CONSULT-III

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

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

Without CONSULT-III

GO TO 2.

OK or NG

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

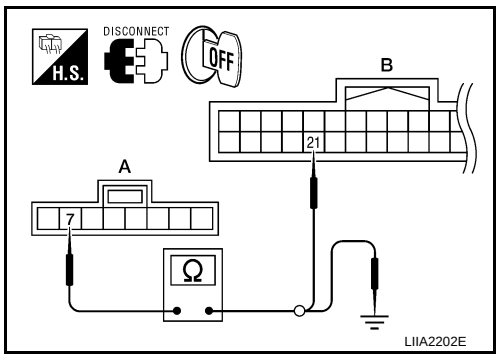
2. CHECK A/T DEVICE (PARK POSITION SWITCH) HARNESS

1. Turn ignition switch OFF.
2. Disconnect A/T device and driver seat control unit.
3. Check continuity between A/T device (park position switch) connector M34 (A) terminal 7 and driver seat control unit connector B401 (B) terminal 21.

7 - 21 : Continuity should exist.

4. Check continuity between A/T device (park position switch) connector M34 (A) terminal 7 and ground.

7 - Ground : Continuity should not exist.



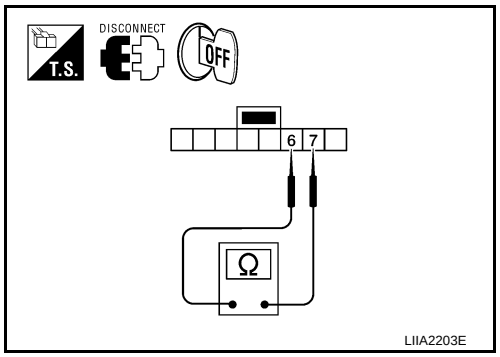
OK or NG

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

3. CHECK A/T DEVICE (PARK POSITION SWITCH)

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

Terminals		Condition	Continuity
6	7	P position	Yes
		Other than P position	No



OK or NG

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

Front Door Switch LH Circuit Inspection

INFOID:0000000001718808

1. CHECK FUNCTION

With CONSULT-III

Touch "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.

Without CONSULT-III

GO TO 2.

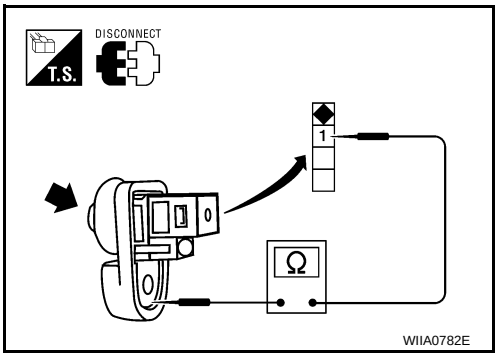
OK or NG

OK >> Front door switch LH circuit is OK.

NG >> GO TO 2.

2.CHECK FRONT DOOR SWITCH LH

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



Terminals		Condition	Continuity
1	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.

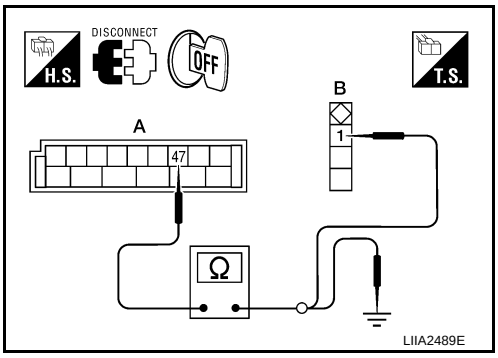
3.CHECK HARNESS CONTINUITY

1. Disconnect BCM.
2. Check continuity between BCM connector M20 (A) terminal 47 and front door switch LH connector B8 (B) terminal 1.

47 - 1 : Continuity should exist.

3. Check continuity between BCM connector M20 (A) terminal 47 and ground.

47 - Ground : Continuity should not exist.



OK or NG

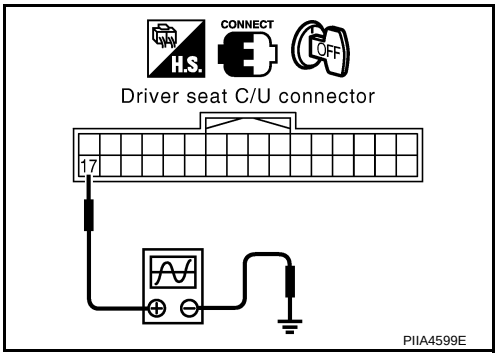
OK >> Front door switch LH circuit is OK.
NG >> Repair or replace harness.

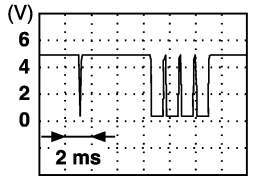
UART Communication Line Circuit Inspection

INFOID:0000000001718809

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 (+)	Terminals (-)	Condition	Signal
B401	17	Ground	Pedal adjusting switch ON (FORWARD or BACKWARD operation)	

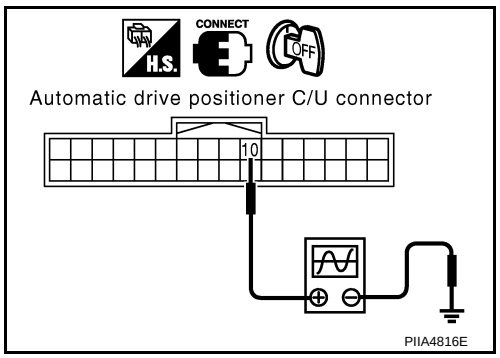
PIIA4814E

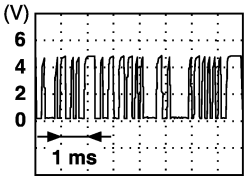
OK or NG

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 (+)	Terminals (-)	Condition	Signal
M41	10	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.

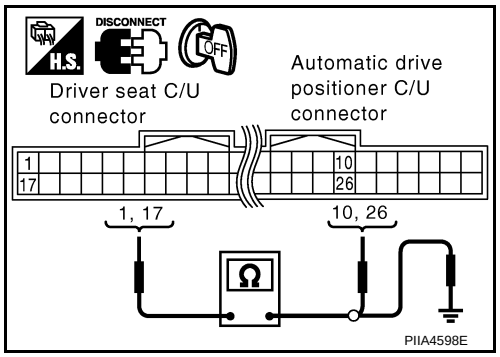
3.CHECK UART LINE HARNESS

1. Disconnect driver seat control unit and automatic drive positioner control unit.
2. Check continuity between driver seat control unit connector B401 terminals 1, 17 and automatic drive positioner connector M41 terminals 10, 26.

1 - 10 : Continuity should exist.
17 - 26 : Continuity should exist.

3. Check continuity between driver seat control unit connector B401 terminals 1, 17 and ground.

1 - Ground : Continuity should not exist.
17 - 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

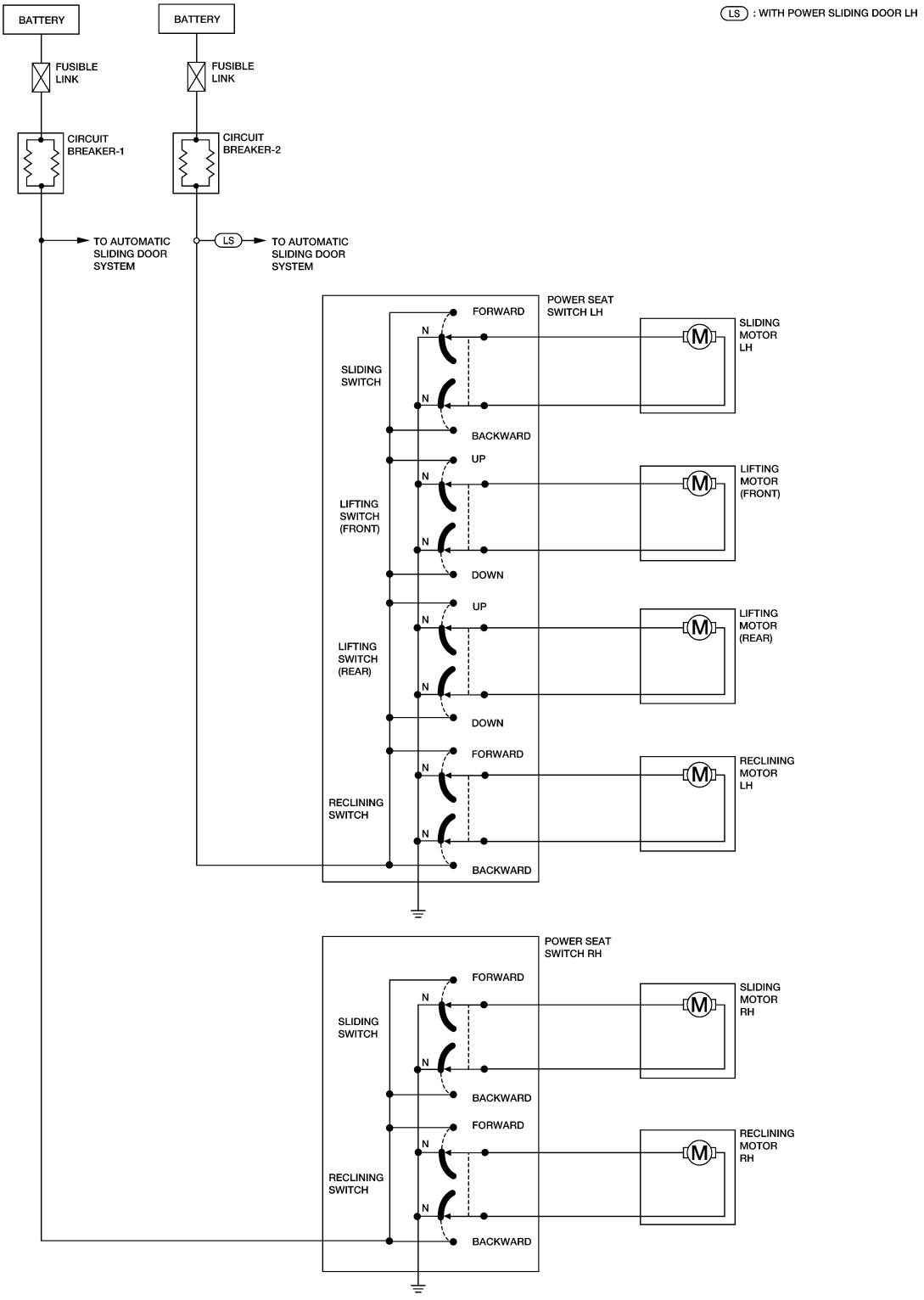
INFOID:0000000001718810

Refer to ACC-3 and BR-5.

POWER SEAT

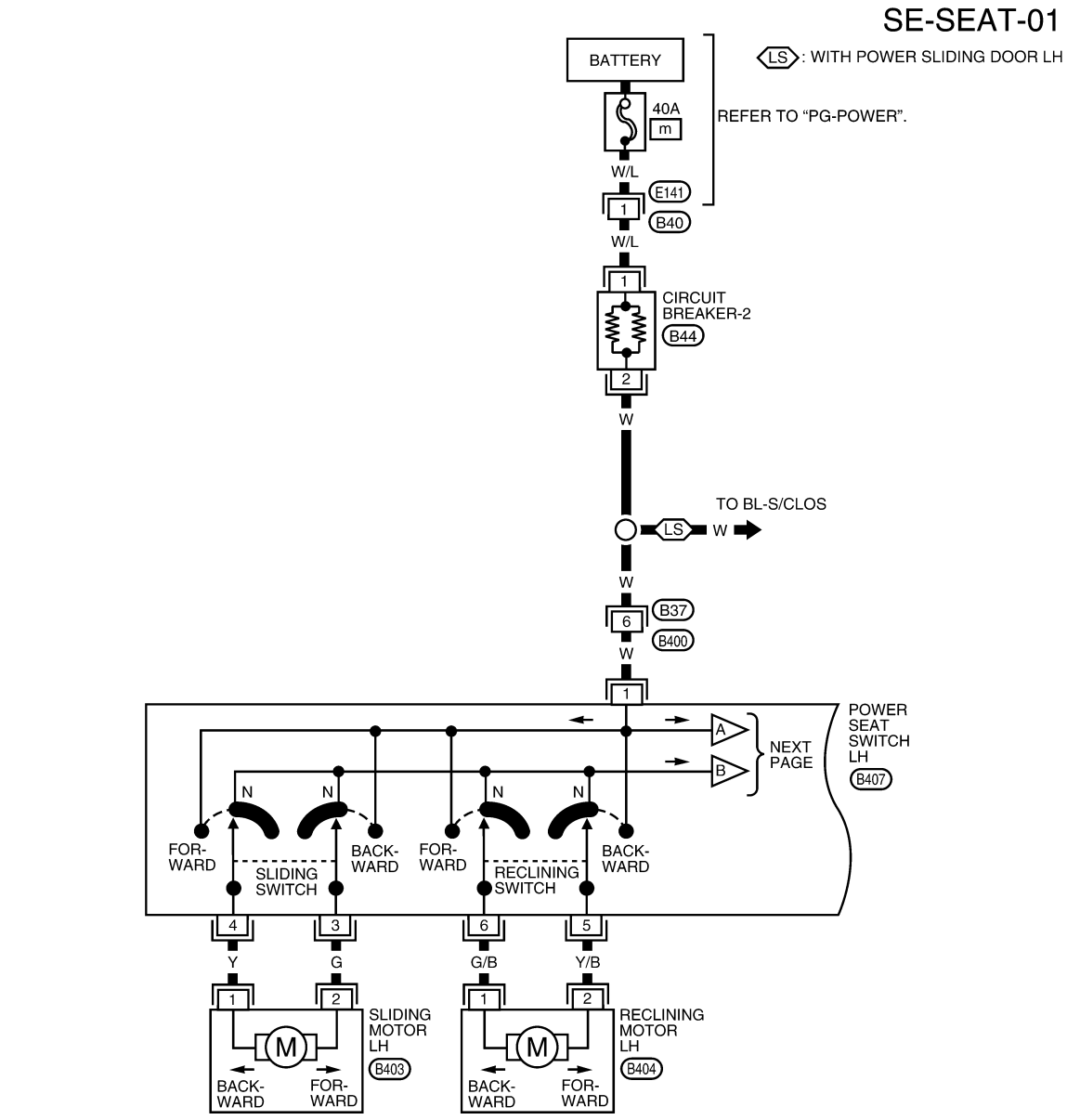
Schematic

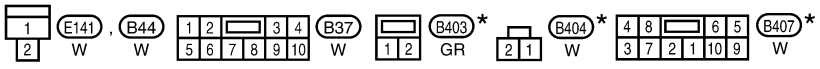
INFOID:0000000001718811



Wiring Diagram - SEAT -

INFOID:0000000001718812

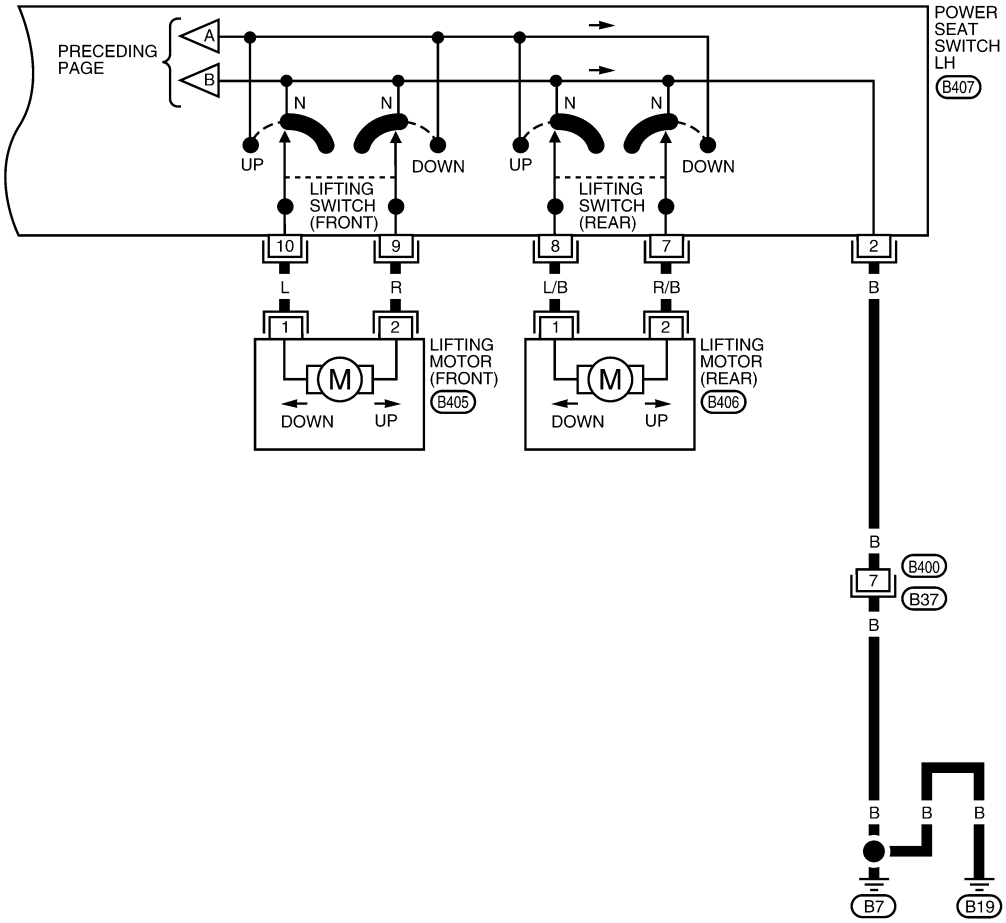


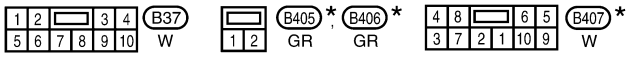


*: THIS CONNECTOR IS NOT SHOWN IN “HARNESS LAYOUT” OF PG SECTION.

ALJWA0042GB

SE-SEAT-02

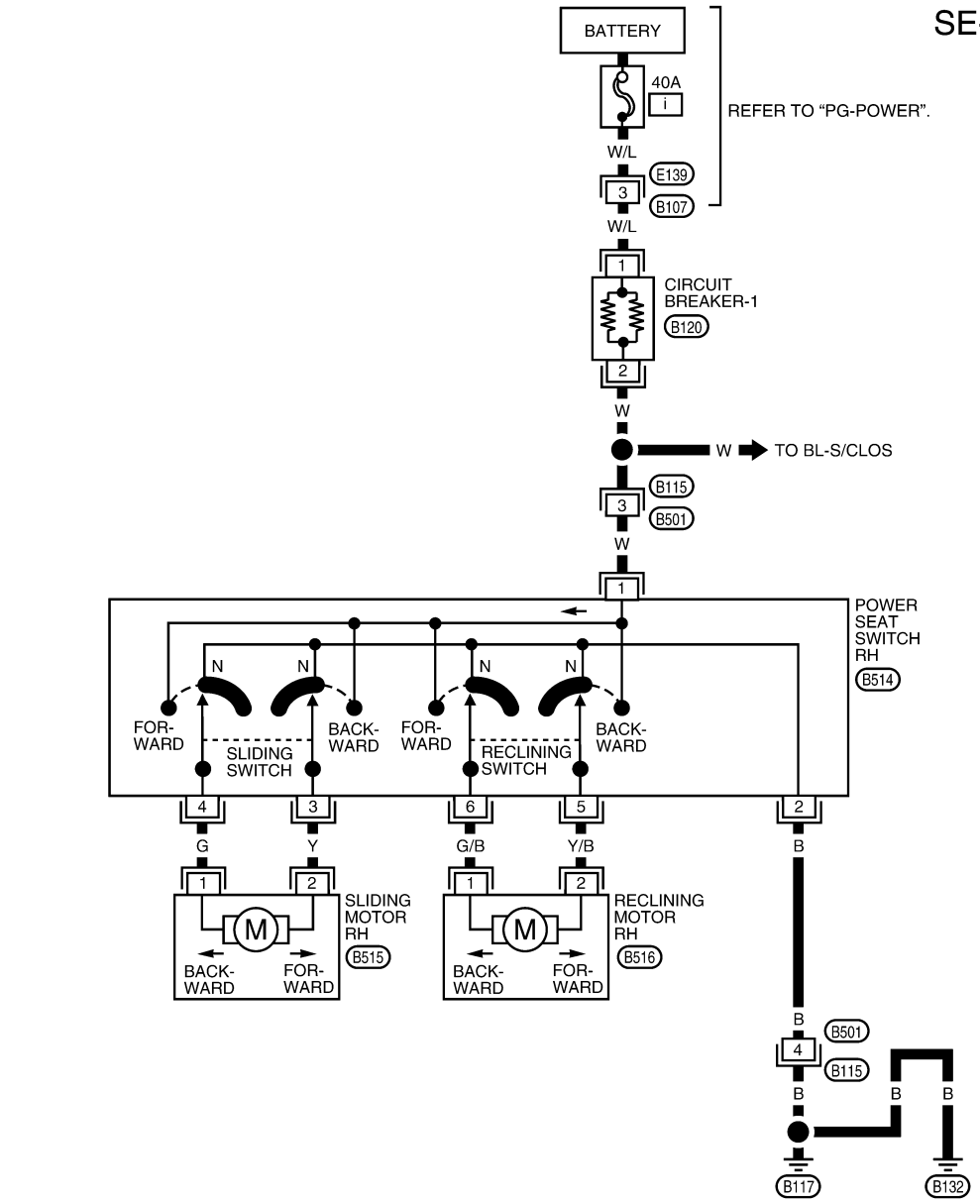


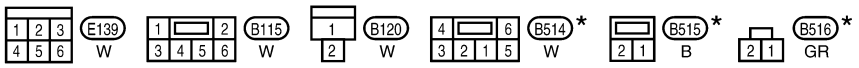


*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

ALJWA0043GB

SE-SEAT-03





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

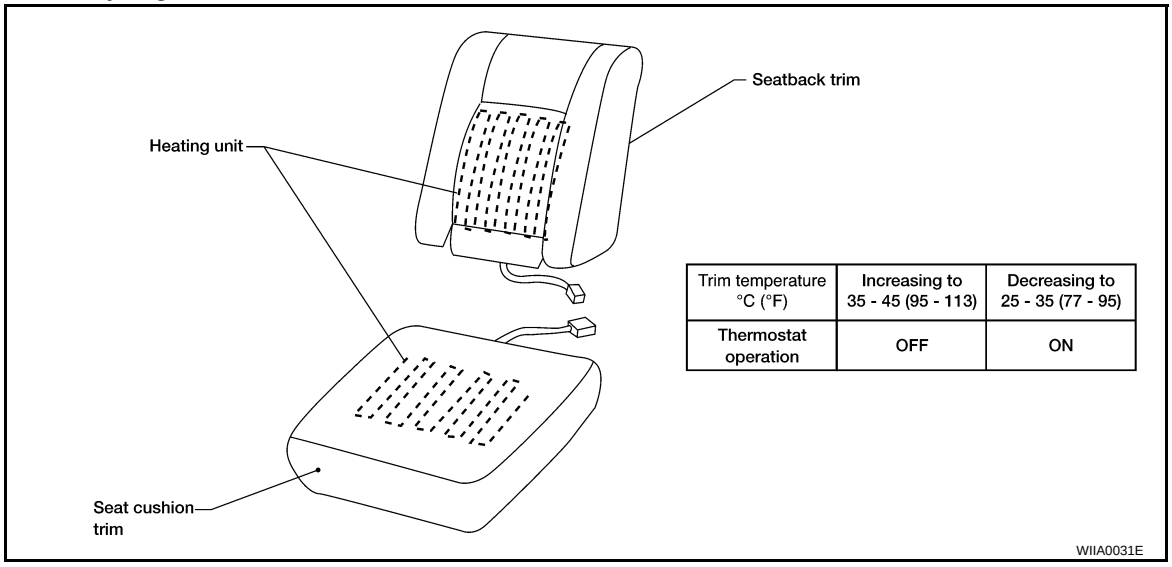
ALJWA0044GB

HEATED SEAT

Description

INFOID:0000000001718813

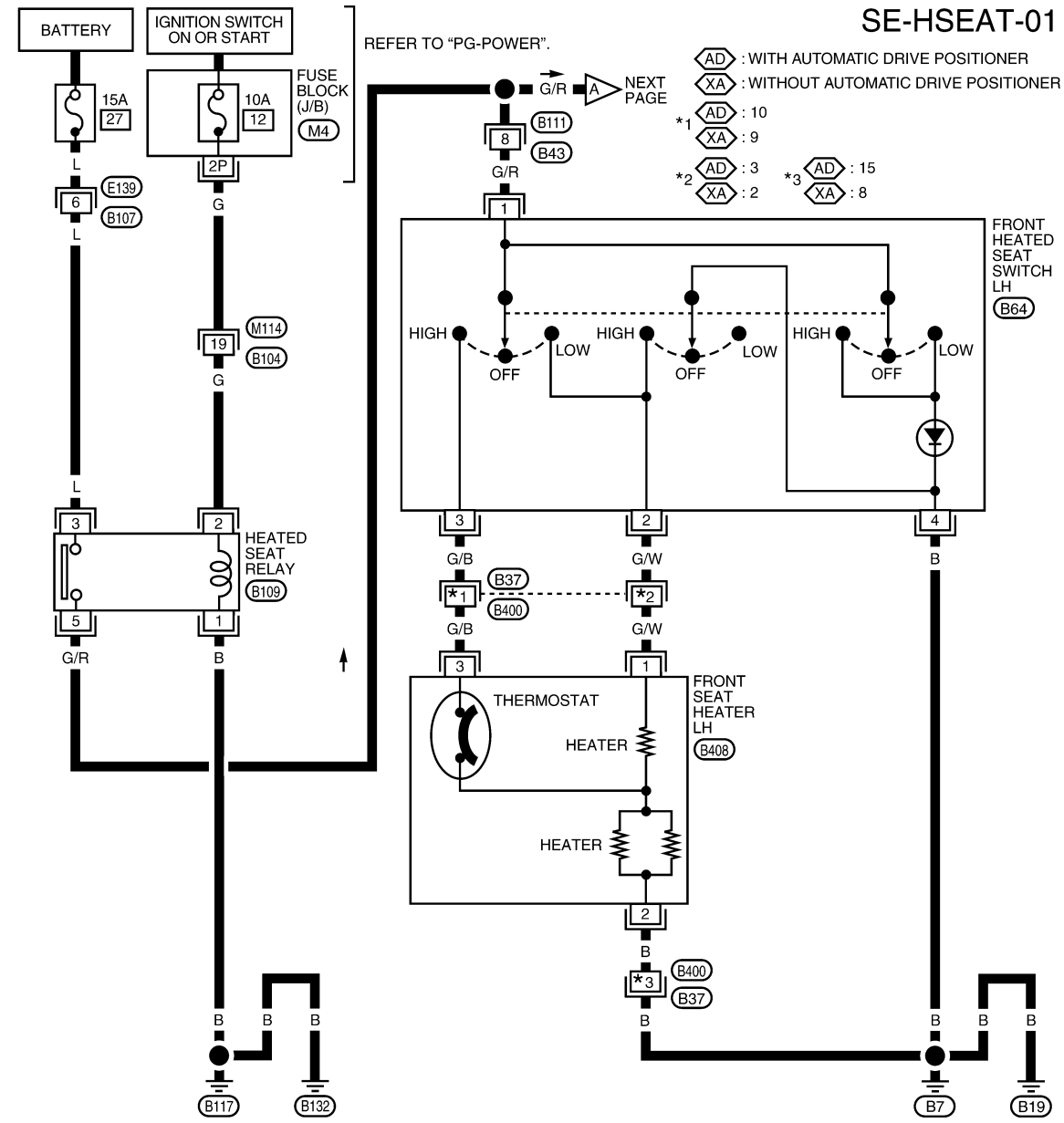
- When handling seat, be extremely careful not to scratch heating unit.
- To replace heating unit, seat trim and pad should be separated for front seat cushion LH. For seatback and front seat cushion RH, complete cushion or seatback assembly must be replaced.
- Do not use any organic solvent, such as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

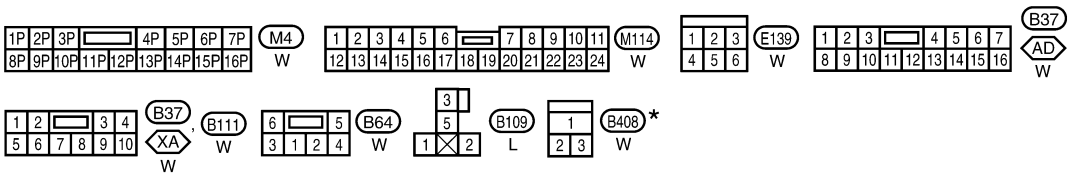


Trim temperature °C (°F)	Increasing to 35 - 45 (95 - 113)	Decreasing to 25 - 35 (77 - 95)
Thermostat operation	OFF	ON

Wiring Diagram - HSEAT -

INFOID:0000000001718814

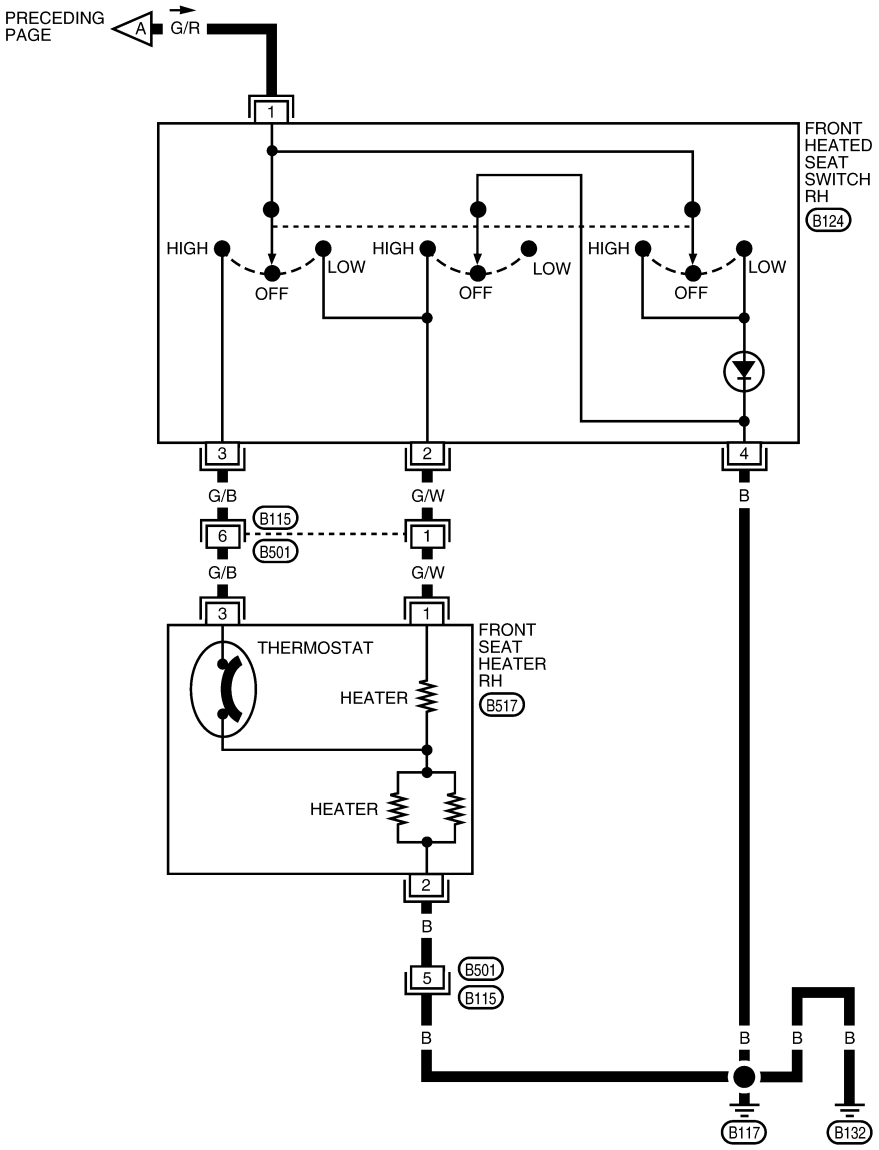


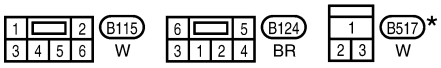


*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

ALJWA0045GB

SE-HSEAT-02





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

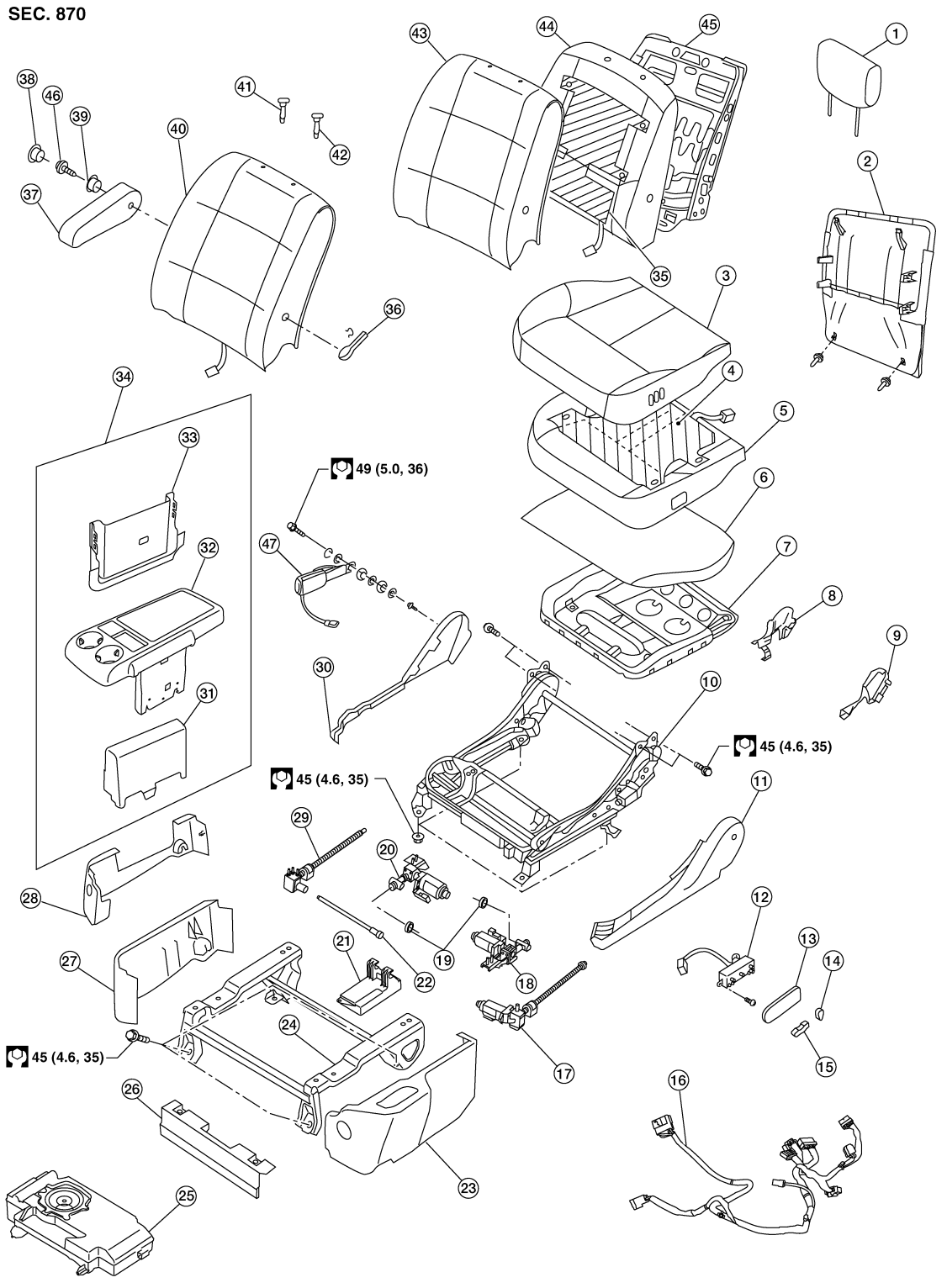
WIWA1807E

FRONT SEAT

Removal and Installation

INFOID:0000000001718815

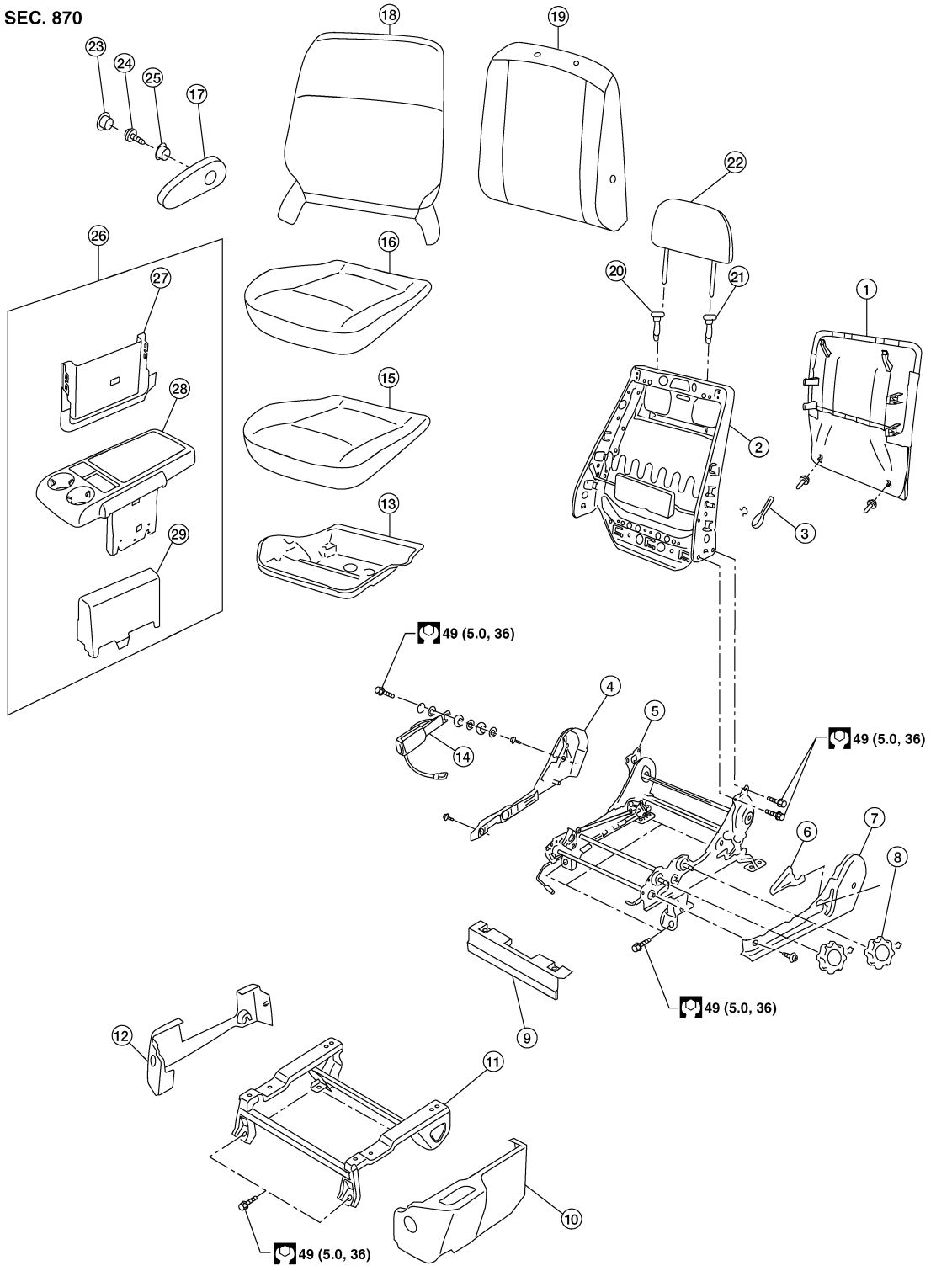
Power Driver Seat



1. Headrest
2. Seatback board
3. Seat cushion trim cover
4. Seat cushion heating element
5. Seat cushion pad
6. Silk film bag
7. Seat cushion frame
8. RH inner hinge cover
9. LH inner hinge cover

10. Driver seat power frame assembly
11. Seat cushion outer finisher
12. Power seat switch
13. Power seat switch escutcheon
14. Recliner switch knob
15. Slide switch knob
16. Driver seat wiring harness
17. Slide motor
18. Rear lifter motor
19. Bushing
20. Front lifter motor
21. Driver seat control unit
22. Drive cable
23. Outer pedestal finisher
24. Pedestal
25. Sub woofer
26. Seat cushion front finisher
27. Inner pedestal finisher (without tray table)
28. Inner pedestal finisher (with tray table)
29. Slide Gear
30. Seat cushion inner finisher
31. Tray table bracket outer finisher (without family entertainment)
32. Center tray table (without family entertainment)
33. Tray table bracket inner finisher (without family entertainment)
34. Tray table assembly (without family entertainment)
35. Seatback heating element (without side air bag)
36. Lumbar support handle
37. Armrest assembly
38. Armrest bolt cover
39. Armrest bushing (cloth armrest only)
40. Seatback assembly (with side air bag)
41 Headrest guide
42. Headrest guide with multi position lock
43. Seatback trim (without side air bag)
44. Seatback pad (without side air bag)
45. Seatback frame (without side air bag)
46. Armrest bolt
47. Buckle

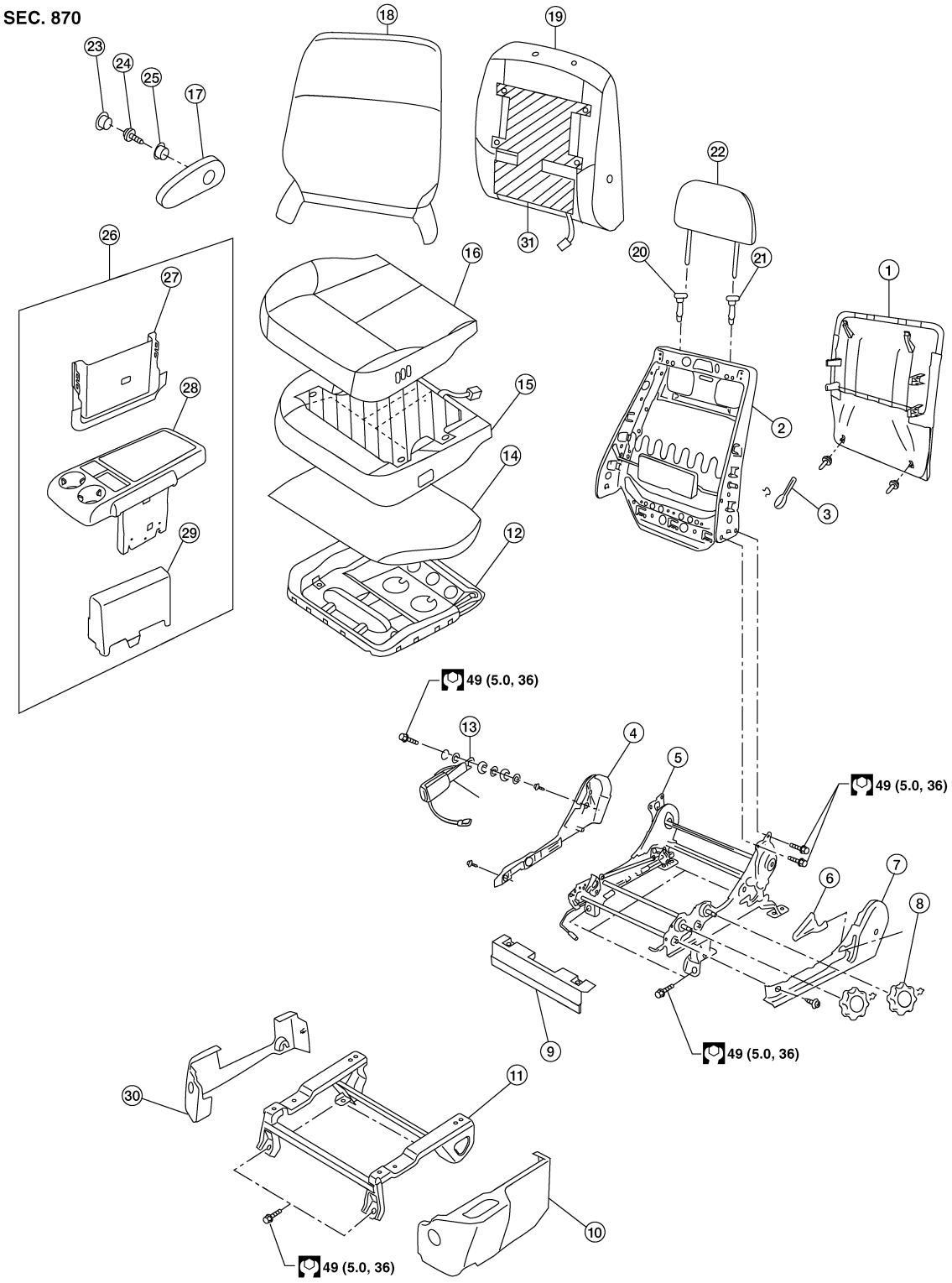
Manual Driver Seat



1. Seatback board
2. Seatback frame
3. Lumbar support handle
4. Seat cushion inner finisher
5. Driver seat frame assembly
6. Recliner release handle
7. Seat cushion outer finisher
8. Seat cushion adjusting knobs
9. Seat cushion front finisher
10. Outer pedestal finisher
11. Pedestal
12. Inner pedestal finisher
13. Seat cushion frame
14. Seat belt buckle assembly
15. Seat cushion pad
16. Seat cushion trim cover
17. Armrest assembly
18. Seatback trim cover

19. Seatback pad
20. Headrest holder
21. Headrest holder with multi position lock
22. Headrest
23. Armrest bolt cover
24. Armrest bolt
25. Armrest bushing (cloth only)

Manual Driver Seat

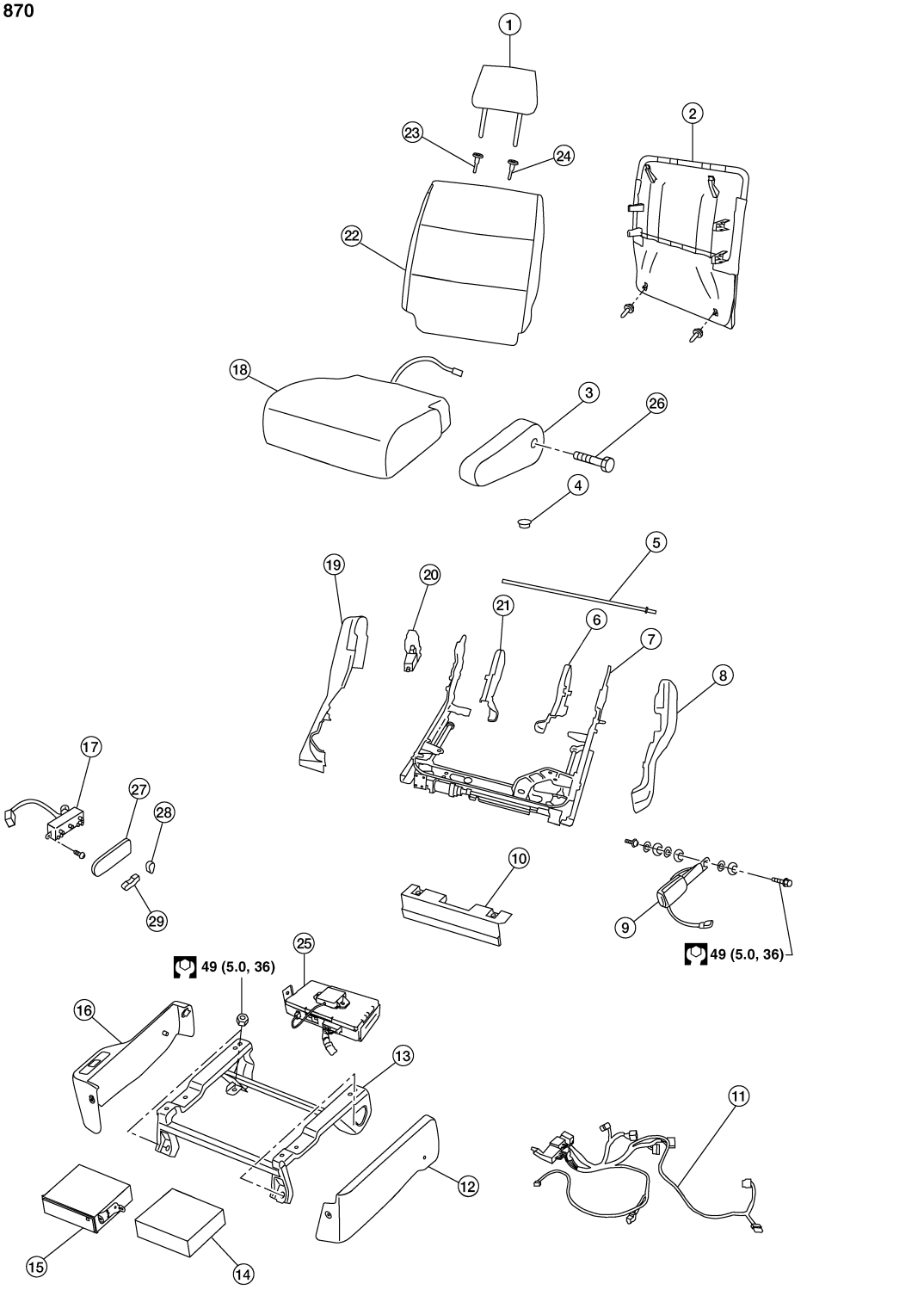


1. Seatback board
2. Seatback frame
3. Lumbar support handle
4. Seat cushion inner finisher
5. Driver seat frame assembly
6. Recliner release handle

7. Seat cushion outer finisher
8. Seat cushion adjusting knobs
9. Seat cushion front finisher
10. Outer pedestal finisher
11. Pedestal
12. Seat cushion frame
13. Seat belt buckle assembly
14. Silk film bag
15. Seat cushion pad
16. Seat cushion trim cover
17. Armrest assembly
18. Seatback trim cover
19. Seatback pad
20. Headrest holder
21. Headrest holder with multi position lock
22. Headrest
23. Armrest bolt cover
24. Armrest bolt
25. Armrest bushing (cloth only)
26. Tray table assembly
27. Tray table bracket inner finisher
28. Center tray table
29. Tray table bracket outer finisher
30. Inner pedestal finisher

Power Passenger Seat

SEC. 870



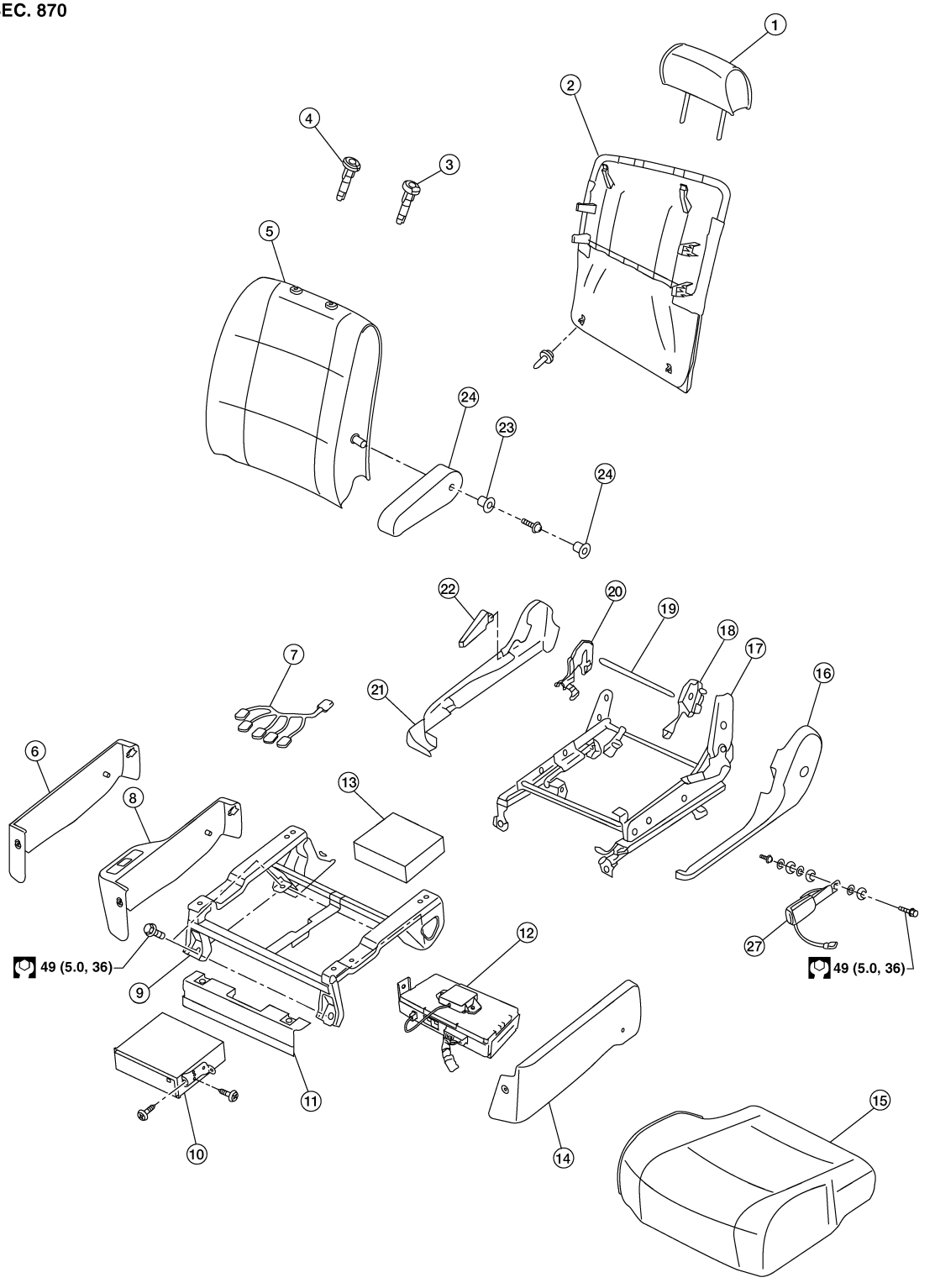
WAIA0102E

1. Headrest	2. Seatback board	3. Armrest assembly
4. Armrest bolt cover	5. Recliner link bar	6. LH inner hinge cover
7. Passenger seat power frame assembly	8. Seat cushion inner finisher	9. Seat belt assembly
10. Seat cushion front finisher	11. Passenger power seat harness	12. Inner pedestal finisher
13. Pedestal	14. Rear view camera module (if equipped)	15. NAVI control unit

16. Outer pedestal finisher
17. Power seat switch
18. Seat cushion assembly
19. Seat cushion outer finisher
20. Recliner motor
21. RH inner hinge cover
22. Seatback assembly
23. Headrest holder with locking clip
24. Headrest holder with multi position lock
25. Bluetooth control unit (if equipped)
26. Armrest bolt

Manual Passenger Seat

SEC. 870



1. Headrest	2. Seatback board	3. Headrest holder with multi position lock
4. Headrest holder	5. Seatback assembly	6. Lumbar support handle
7. Wiring harness	8. Pedestal outer finisher	9. Pedestal
10. NAVI control unit	11. Seat cushion front finisher	12. Bluetooth control unit (if equipped)
13. Rear view camera module (if equipped)	14. Pedestal inner finisher	15. Seat cushion assembly
16. Seat cushion inner finisher	17. Seat frame assembly	18. LH inner hinge cover
19. Recliner link bar	20. RH inner hinge cover	21. Seat cushion outer finisher
22. Recliner handle	23. Armrest bolt cover	24. Armrest assembly
25. Armrest bushing	26. Armrest bolt	27. Seat belt assembly

Removal

WARNING:
- **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.**
- **Before removing the front seat, turn the ignition switch off, disconnect both battery cables and wait at lease 3 minutes.**

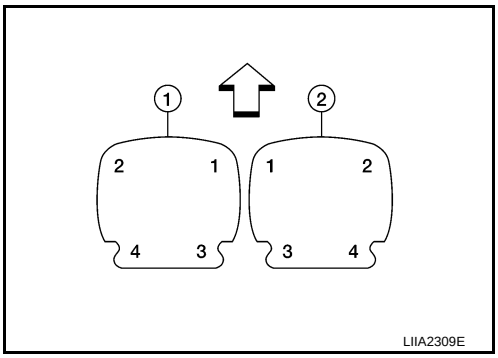
CAUTION:
- **Do not drop, tilt, or bump the side air bag module while installing the seat. Always handle it with care.**
- **Front passenger seat is equipped with an Occupant Classification System sensor and control module. Do not disassemble front passenger seat cushion assembly or remove the trim as this will affect the Occupant Classification System calibration.**
- **If the vehicle has been involved in a collision, the seat must be inspected for damage. Refer to SRS-48**
- **After front side air bag module inflates, front seatback assembly must be replaced.**

NOTE:
- When removing and installing the seat, use shop cloths to protect the vehicle from damage.
- When removing or installing the seat trim, handle it carefully to keep dirt out and avoid damage.

1. Slide the seat until the four body bolts are visible and a tool can be inserted.
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 bolts.
5. Disconnect the power seat harness connectors (if equipped) and remove the seat from the vehicle.

Installation

Installation is in the reverse order of removal.
- Tighten LH front seat bolts (1) in the order as shown. Tighten RH front seat bolts (2) in the order as shown.
- ⇐: Vehicle front.



Seatback Assembly

INFOID:0000000001718816

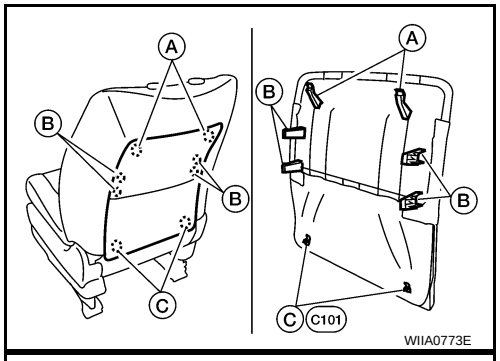
DISASSEMBLY AND ASSEMBLY

NOTE:

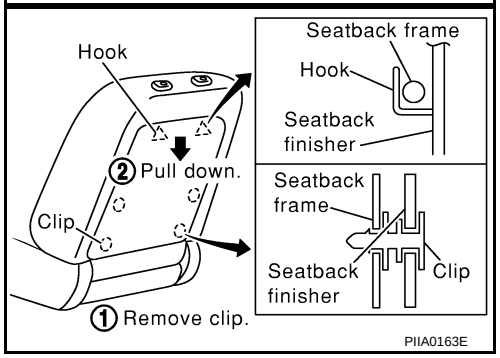
- Only complete seatback assemblies can be replaced on vehicles equipped with side air bags.
- Be sure to set the front/rear cushion lifter to the top position.

Disassembly

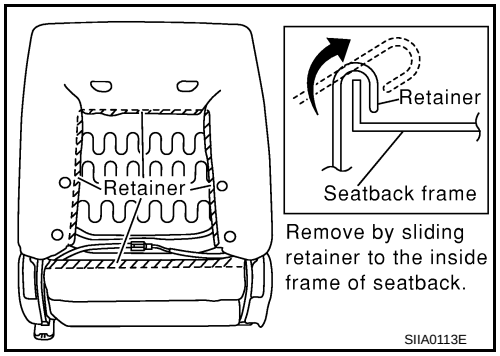
1. Bend both top corners inward (one at a time) to release the top hooks (A).
2. Shift the seatback finisher to the Left and Right to release the middle hooks (B).
3. Separate the trim clips (C) from the seatback frame to remove the seatback finisher.



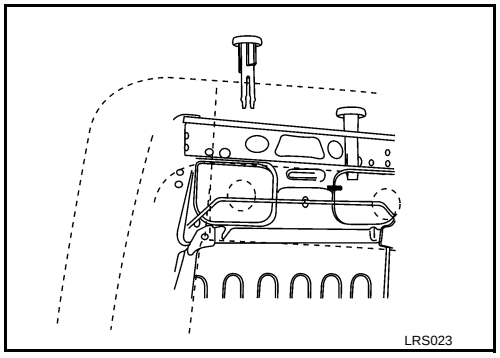
4. Remove the seatback board from the back of the seatback.



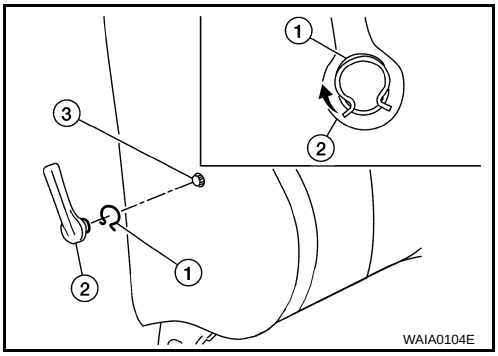
5. Remove the retainer.



6. Remove the headrest.
7. From inside of the seatback, squeeze the headrest holder tabs at the base of the stay pipe and pull the up to remove.
   NOTE:
   Before installing the headrest holder, check its orientation (front/rear and right/left).



8. Remove the snap ring (1) and the lumbar support lever knob (2) from the shaft (3).



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

Assembly

Assembly is in the reverse order of disassembly.

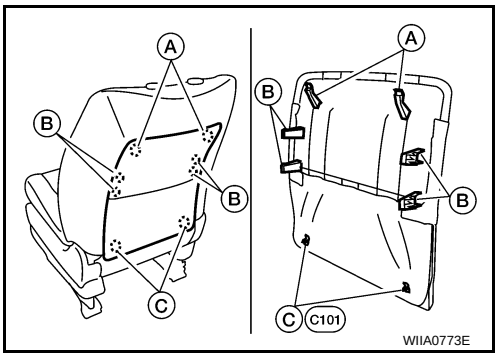
Seatback Assembly

INFOID:0000000001718817

REMOVAL AND INSTALLATION

Removal

1. Bend both top corners inward (one at a time) to release the top hooks (A).
2. Shift the seatback finisher to the Left and Right to release the middle hooks (B).
3. Separate the trim clips (C) from the seatback frame to remove the seatback finisher.



4. Remove the bolts (2 for each side) and seatback assembly.
5. Remove the seatback board from the back of the seatback.

Installation

Installation is in the reverse order of removal.

Seat Cushion

INFOID:0000000001718818

REMOVAL AND INSTALLATION

CAUTION:

- **Always replace passenger seat cushion as an assembly.**
- **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.**
- **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.**

Removal

1. Remove seat. Refer to SE-75, "Removal and Installation".
2. Remove four seat cushion bolts.
3. Remove seat cushion assembly.

Installation

Installation is in the reverse order of removal.

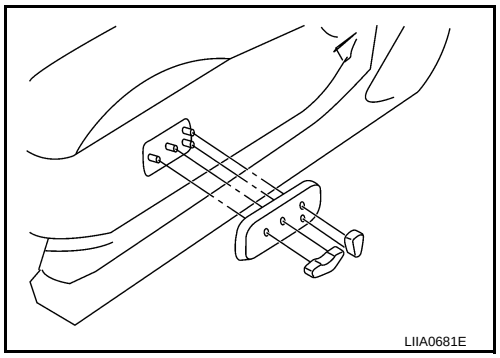
Seat Cushion

INFOID:0000000001718819

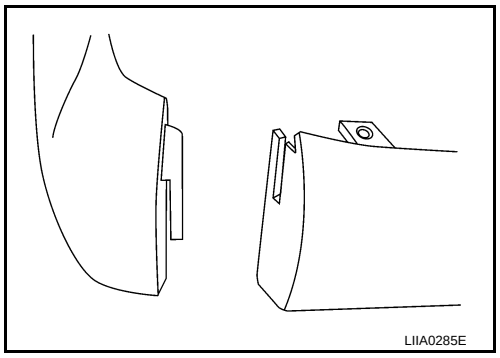
DISSEMBLY AND ASSEMBLY

Disassembly

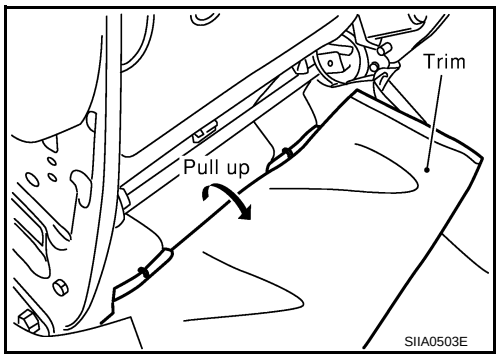
1. Remove the power seat switch knobs and trim plate (or recline knobs on manual seat).



2. Remove the front seat cushion finisher.



3. Remove the power seat switch screws (or lift knobs on manual seats).
4. Remove seat cushion bolts and the seat cushion assembly.
5. Release the trim retainer from the seat cushion frame, then remove the harness connector for the seat heater.
6. For driver seat only, after removing the seat cushion assembly, 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.

Lifter Motor

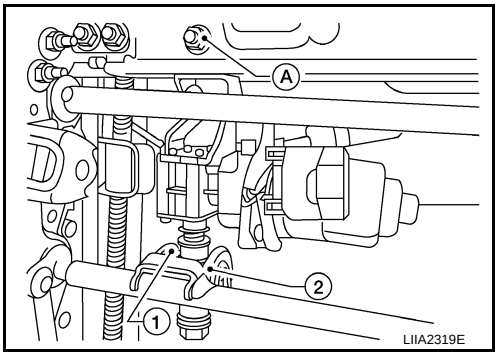
INFOID:0000000001718820

REMOVAL AND INSTALLATION

Removal

1. Remove seat cushion Refer to SE-84, "Seat Cushion".
2. Disconnect lifter motor connector.

3. Remove lifter motor nuts (A).
4. Slide lifter motor assembly (1) away from spacer (2), press tabs and remove spacer.



5. Remove lifter motor.

Installation
Installation is in the reverse order of removal.

Slide Motor and Slide Gear

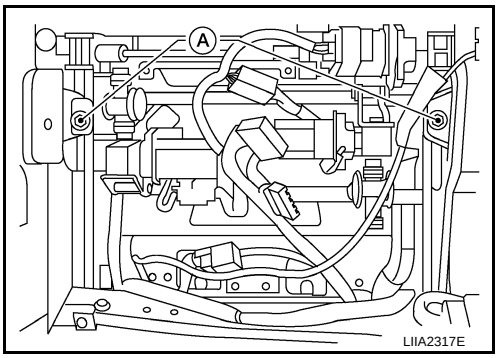
INFOID:0000000001718821

REMOVAL AND INSTALLATION

Removal

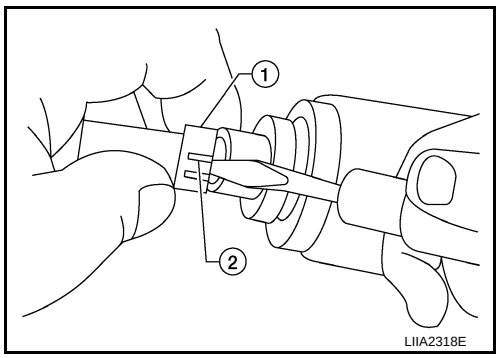
CAUTION:
Do not bend drive cable to prevent slide motor operation noise.
NOTE:
Remove and reinstall slide motor, drive cable, and slide gears from driver seat power frame assembly as if it were one unit.

1. Remove seat cushion Refer to SE-84, "Seat Cushion".
2. Remove seat track bolts (A).



3. Remove seat cushion front finisher.
4. Remove top screw from the seat cushion inner and outer finishers.
5. Disconnect slide motor connector.
6. Remove forward bolts from driver seat power frame assembly.
7. Remove slide gear box nuts.
8. Slide both seat rails to rear position.
9. Remove slide gear and slide motor.

10. Remove drive cable (1) by releasing tab (2).



Installation

NOTE:

- Before reinstalling slide motor or slide gear, measure distance between slide gear box and a slide gear box bolt and adjust slide gears so the distance is equal for both slide gears.

Installation is the reverse order of removal.

REAR SEAT

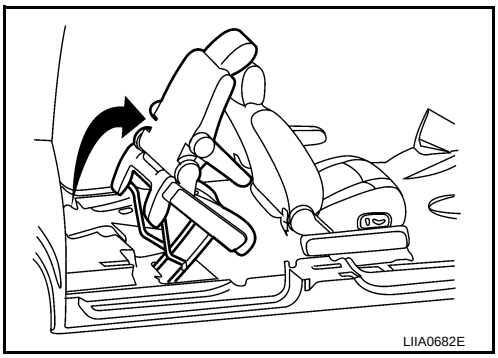
Removal and Installation

INFOID:0000000001718822

Second Row

Removal

1. Lift handle and tilt seat forward.
2. Remove the rear anchor bolt.
3. Tilt seat backward.
4. Remove seat base trim cover.
5. Remove front anchor nuts.
6. Remove seat striker covers and seat strikers.

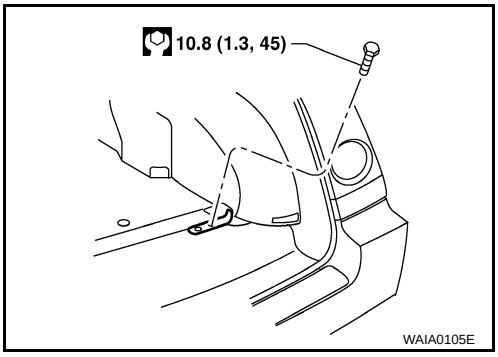


Installation
Installation is in the reverse order of removal.

Third Row

Removal

1. Remove the luggage side spring cover finishers..
2. Rotate the seat to mid position (between locked seating position and stowed position)
3. Remove the lift assist springs.
4. Retract the seat into the cargo floor position.
5. Remove the hinge bolts from the seat assembly.
6. Remove the seat assembly.



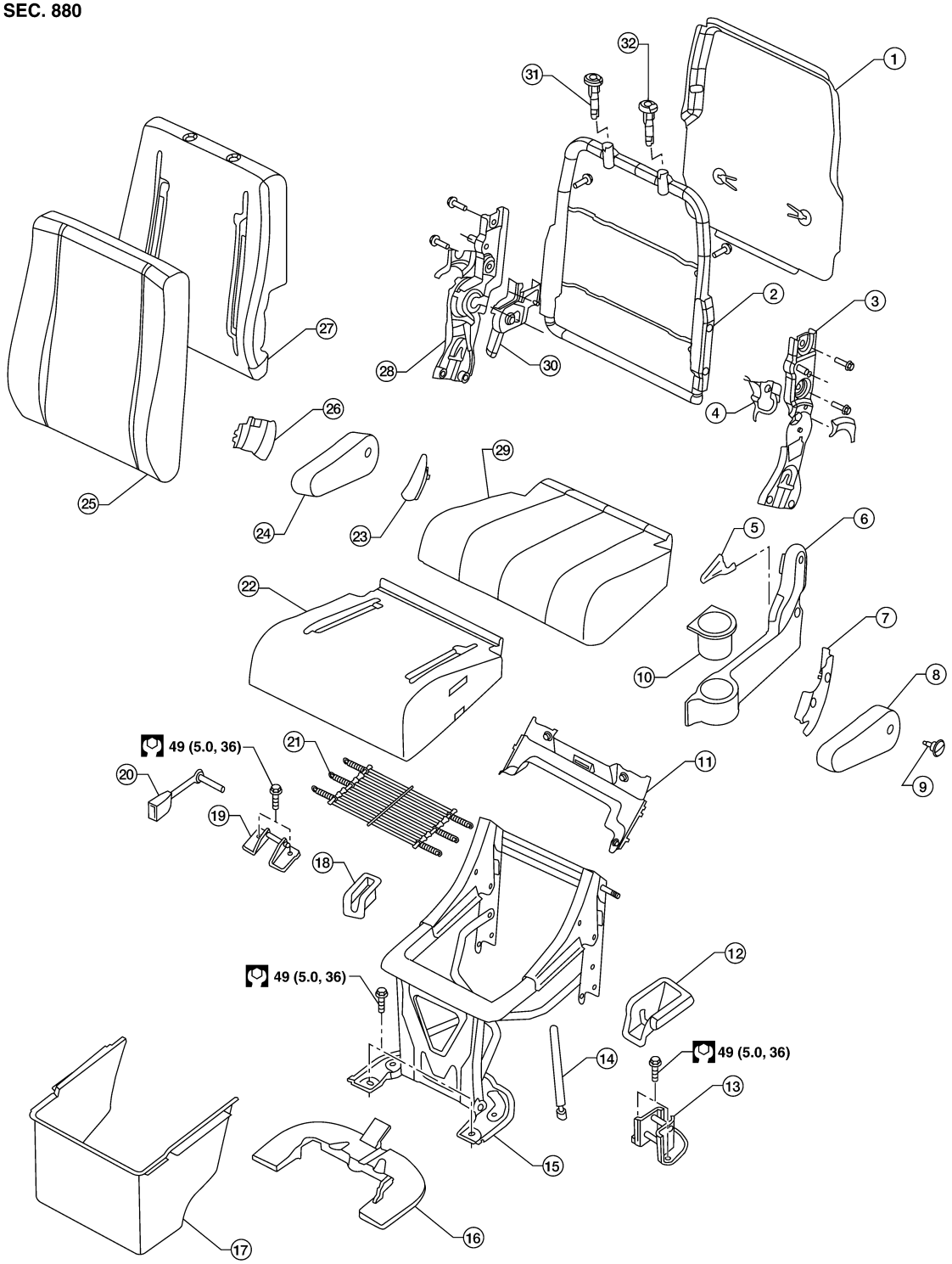
Installation
Installation is in the reverse order of removal.

Disassembly and Assembly

INFOID:0000000001718823

Second row

SEC. 880



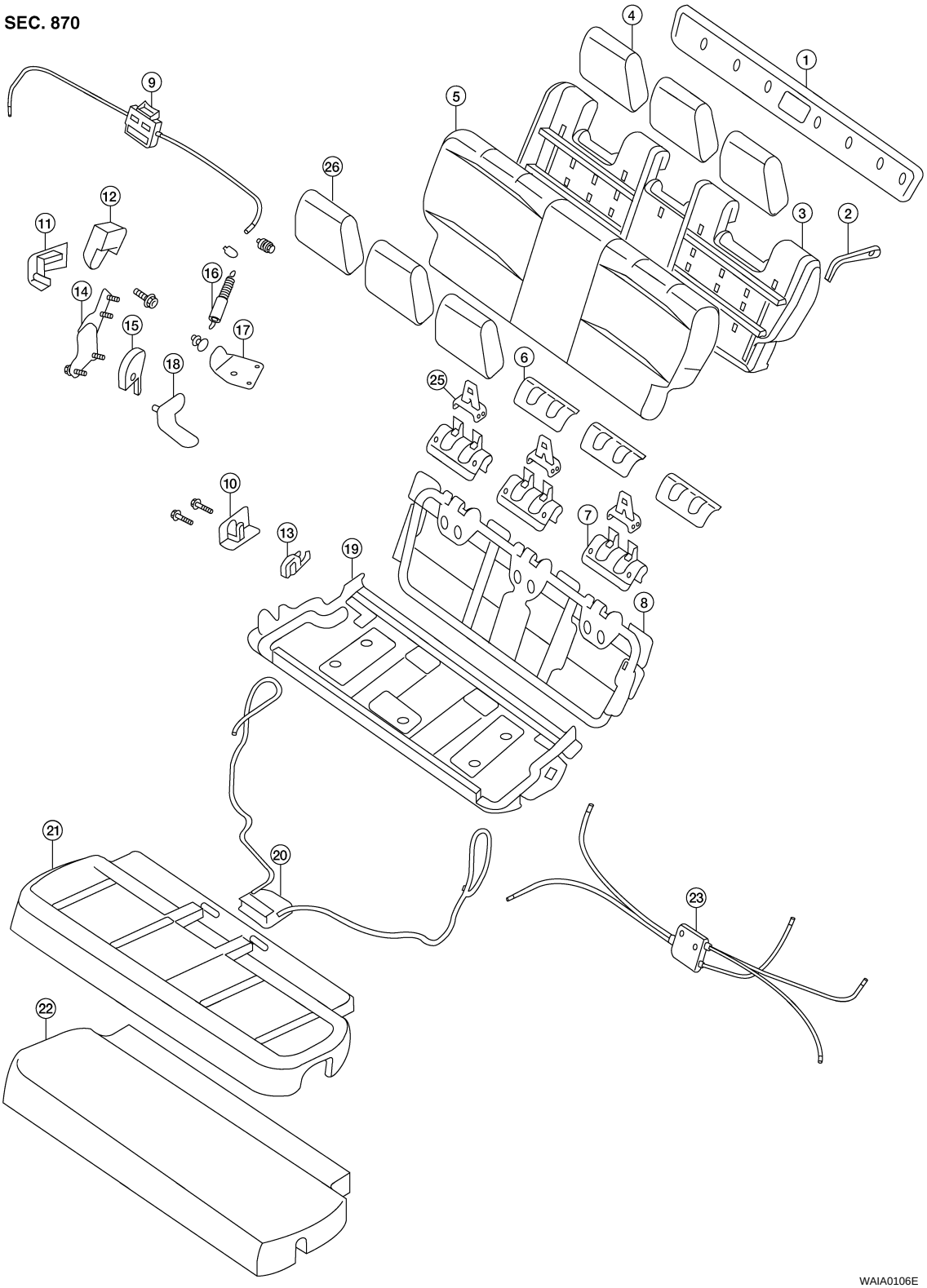
WIIA0825E

1. Seatback board
2. Seatback frame
3. Seatback hinge LH
4. LH inner recliner cover
5. Recline release lever
6. LH cushion hinge cover
7. LH seatback hinge cover
8. LH arm rest
9. Armrest bolt cover
10. Cup holder
11. Isofix cover
12. LH seat anchor cover

13. LH seat anchor striker
14. Lift assist cylinder
15. Seat base and hinge assembly
16. Seat base trim cover
17. Seat base apron
18. RH seat anchor cover
19. RH seat anchor striker
20. Seat belt buckle
21. Flexmat assembly
22. Seat cushion pad
23. RH cushion hinge cover
24. RH armrest
25. Seatback trim cover
26. RH inner recliner cover
27. Seatback pad
28. Seatback hinge RH
29. Seat cushion trim cover
30. Seatback fold flat hinge assembly
31. RH headrest guide
32. LH locking headrest guide

Third row

SEC. 870



1. Hook assembly
2. Headrest release handle
3. Trim cover
4. Headrest
5. Seatback pad
6. Headrest trim rear
7. Headrest pivot assembly
8. Seatback frame assembly
9. Seatback release handle and cable
10. Seat lock cover
11. Seat assembly hinge
12. Seat lock cover
13. Seat lock assembly
14. Upper hinge assembly
15. Upper seat cover
16. Assist spring
17. Seat assembly hinge anchor
18. Seat assembly hinge

19. Seat cushion frame assembly
20. Seat lock cable assembly
21. Seat cushion pad
22. Seat cushion trim cover
23. Headrest release cable assembly
24. Headrest trim front
25. Headrest support
26. Headrest trim cover