

FRONT POWER SEAT CONTROL SYSTEM (w/ Memory)

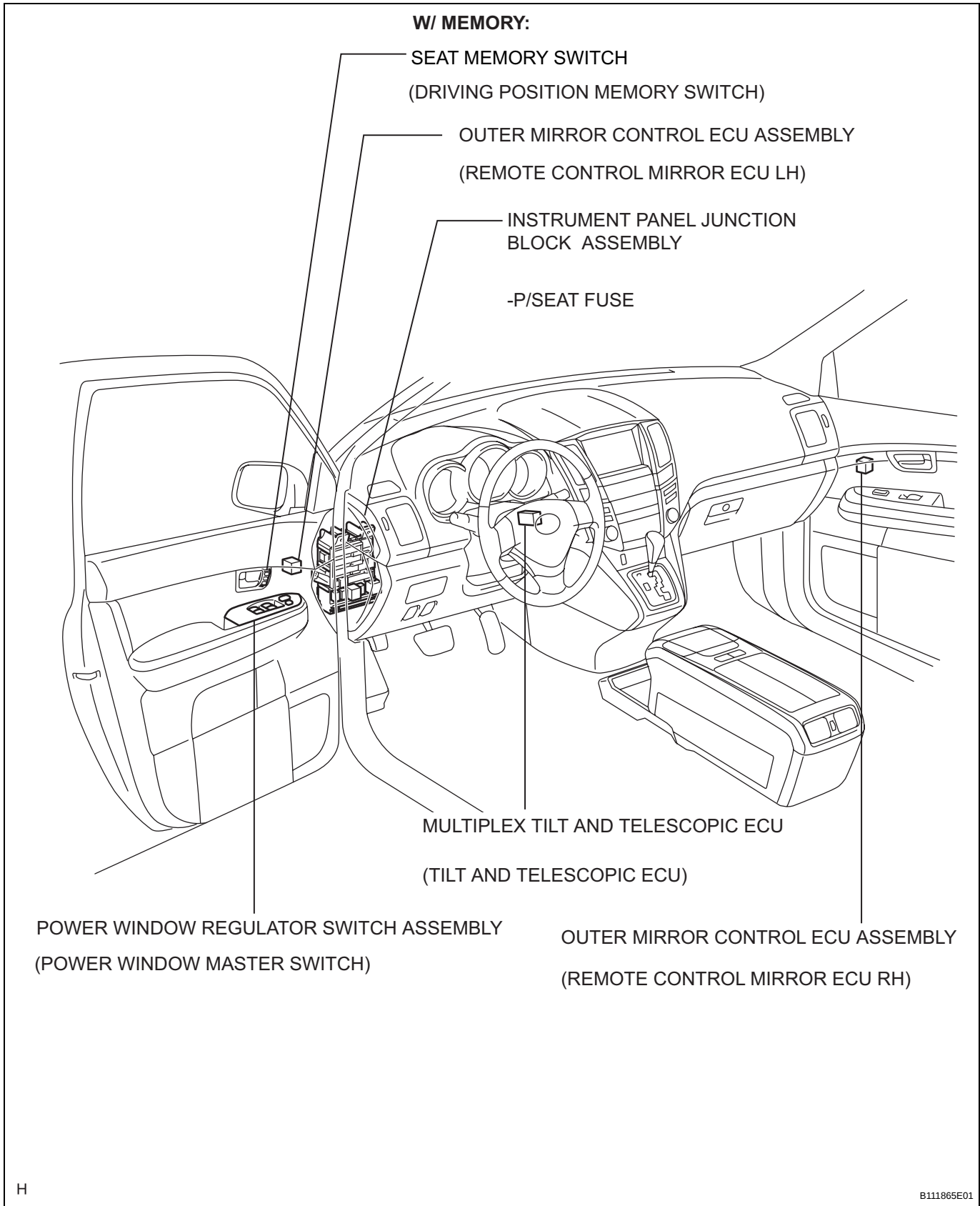
PRECAUTION

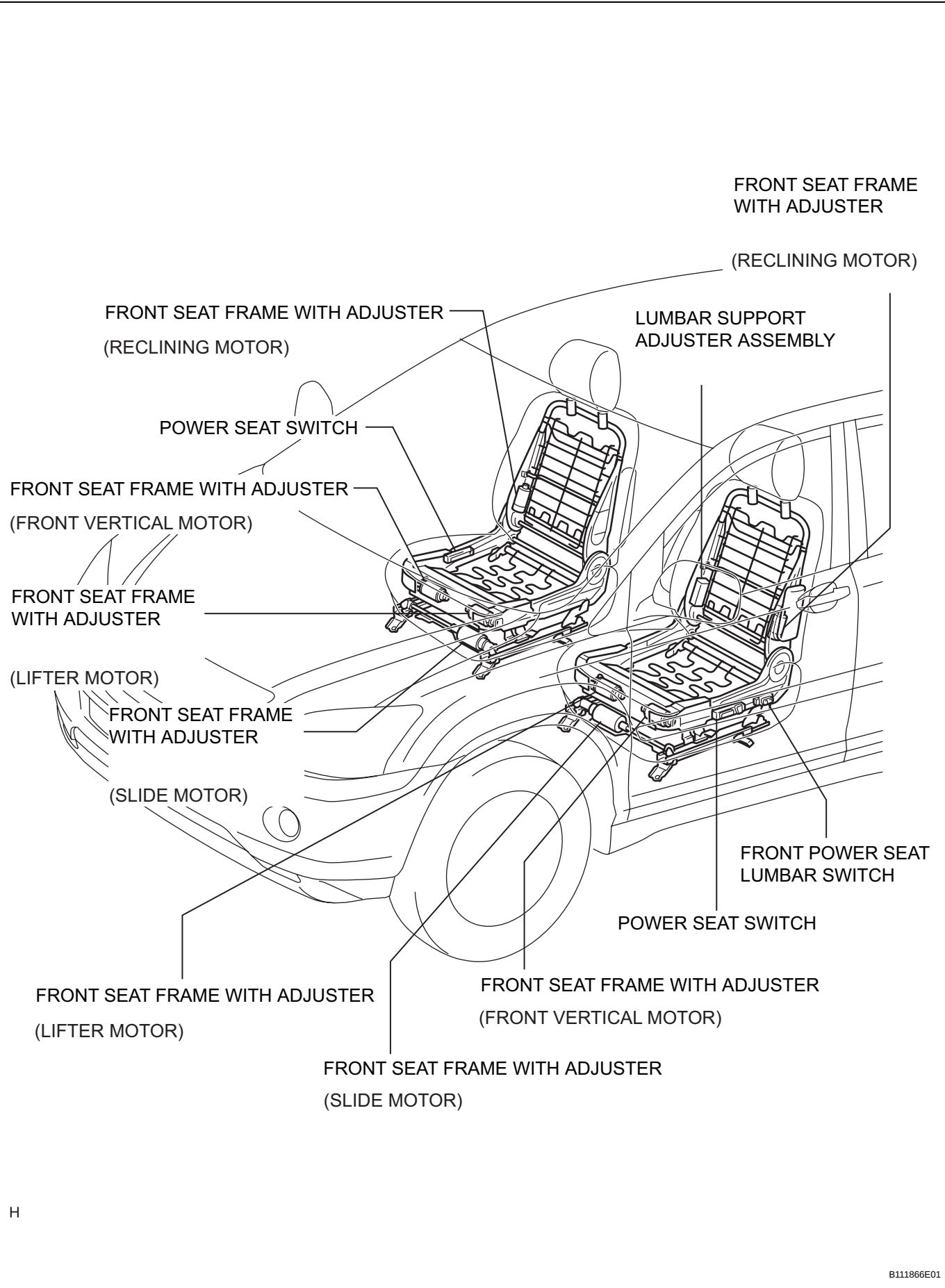
- 1. GENERAL PRECAUTION
 - (a) When using the battery during inspection, do not bring the positive and negative tester probes too close to each other as a short circuit may occur.
- 2. PRECAUTION OF DISCONNECTING BATTERY TERMINAL

NOTICE:
When disconnecting the negative (-) battery cable, initialize the following system(s) after the cable is reconnected.

System Name	See Procedure
Lighting System (Adaptive Front-Lighting System)	LI-17
Power Window Control System	WS-12
Power Back Door System	ED-33
Sliding Roof System	RF-22 and RF-4

PARTS LOCATION





SYSTEM DESCRIPTION

1. GENERAL DESCRIPTION

- (a) The power seat control system is equipped with the following function:
 - The front seats are equipped with electric adjuster slide, reclining, lifter, front vertical and lumbar support adjustment functions.
- (b) The power seat control system (w/ memory) is equipped with the following functions:
 - Individual seat positions for two different drivers can be stored for the slide, reclining, front vertical and lifter.
 - Similarly, power mirror positions and tilt and telescopic positions for two different drivers can be stored. These are stored/restored together with the seat positions by pushing the seat memory switch.
 - The above operations are performed using the multiplex communication system.
 - As a safety precaution, the system does not allow seat position restoration unless the ignition switch is in the on position and the shift lever is in the P position.
 - Manual adjustment of the lumbar support function can be performed even when the position control ECU and switch assembly (power seat control switch and ECU) is not functional.

When the power seat control switch is operated, a command signal is sent to the position control ECU and switch assembly (power seat control switch and ECU). The position control ECU and switch assembly (power seat control switch and ECU) then activates the appropriate seat motor as needed. This memory system does not use a seat position sensor. The seat position is detected by counting pulses that are output when the motor turns. The position control ECU and switch assembly (power seat control switch and ECU) is designed so that a malfunction of the seat memory system will not interfere with seat control. The seat memory switch also sends signals to the position control ECU and switch assembly (power seat control switch and ECU) to memorize a given seat position. Two seat positions can be memorized. The seat memory switch is later used to send signals to the position control ECU and switch assembly (power seat control switch and ECU) to return the seat to either of the memorized positions.

2. FUNCTION OF MAIN COMPONENT (w/ MEMORY)

(a) The following functions are available.

Components	Function
Seat slide motor	Slides the driver side seat back and forth based on signals from the position control ECU and switch assembly (power seat control switch and ECU).
Seat reclining motor	Reclines the driver side seat back and forth based on signals from the position control ECU and switch assembly (power seat control switch and ECU).
Seat front vertical motor	Moves the front part of the driver side seat cushion up and down based on signals from the position control ECU and switch assembly (power seat control switch and ECU).
Seat lifter motor	Moves the driver side seat cushion up and down based on signals from the position control ECU and switch assembly (power seat control switch and ECU). This motor operates, and driver side seat rear vertical raises and lowers, and driver side seat rear vertical raises and lowers.
Set switch Memory switch	When the set and memory switches are pressed simultaneously, SET, 1 or 2 switch signal is input to the power window regulator switch assembly (power window master switch) and sends the seat memory switch signal via the multiplex communication system. When only the memory switch is pressed, SET, 1 or 2 switch signal is input to power window regulator switch assembly (power window master switch) and driver side seat position changes according to memory.

3. SYSTEM OPERATION

(a) The front power seats adjustment and position memory are shown in the chart below.

Seat Adjustment Function	Driver Side	Front Passenger Side
Slide	Power and memory	Power
Reclining	Power and memory	Power
Front Vertical	Power and memory	Power
Lifter	Power and memory	Power
Lumbar Support	Power	-

In the memory function, the memory switch operation signal is transferred from the power window regulator switch assembly (power window master switch) to the position control ECU and switch assembly (power seat control switch and ECU) via the multiplex communication line. Then, either the seat position is stored in memory or the previously stored seat position is recalled to set the appropriate seat position.

HOW TO PROCEED WITH TROUBLESHOOTING

- HINT:
- Use this procedure to troubleshoot the front power seat control system.
 - The intelligent tester should be used in steps 3 and 5.

1

VEHICLE BROUGHT TO WORKSHOP

NEXT

2

CUSTOMER PROBLEM ANALYSIS CHECK AND PROBLEM SYMPTOM CHECK

NEXT

3

CHECK COMMUNICATION FUNCTION OF MULTIPLEX COMMUNICATION SYSTEM (BEAN)

- (a) Use the intelligent tester to check for normal function of the multiplex communication system.
- (1) (Position control ECU and switch assembly (power seat control switch and ECU) not connected, communication line malfunctioning) If no code is output, proceed to A.
- (2) (Position control ECU and switch assembly (power seat control switch and ECU) not connected, communication line malfunctioning) If any code is output, proceed to B.

B

Go to MULTIPLEX COMMUNICATION SYSTEM

A

4

PROBLEM SYMPTOMS TABLE

- (a) If the fault is not listed on the problem symptoms table, proceed to A.
- (b) If the fault is listed on the problem symptoms table, proceed to B.

B

Go to step 6

A

5

OVERALL ANALYSIS AND TROUBLESHOOTING

- (a) DATA LIST/ACTIVE TEST (See page [SE-11](#)).
- (1) Inspection with the intelligent tester (DATA LIST).

- (2) Inspection with the intelligent tester (ACTIVE TEST).
- (b) Terminals of ECU (See page [SE-8](#)).
- (c) Inspection.

NEXT**6** ADJUST, REPAIR OR REPLACE**NEXT****7** CONFIRMATION TEST**NEXT****END**

PROBLEM SYMPTOMS TABLE

HINT:

- Inspect the fuse and relay before confirming the suspected areas in the table below.
- Inspect each suspected area in numerical order for the corresponding symptom.

If the malfunction still exists after checking and confirming that all circuits and components are normal, replace the ECU.

1. FRONT POWER SEAT CONTROL SYSTEM (w/o MEMORY)

Symptom	Suspected area	See page
Power seat does not operate (slide, front vertical, lifter, reclining).	1. P/SEAT fuse	-
	2. Power seat switch	SE-75
	3. Wire harness or connector	-
Slide operation function only does not operate.	1. Power seat switch	SE-75
	2. Front seat frame with adjuster (LH side slide motor)	SE-77
	3. Front seat frame with adjuster (RH side slide motor)	SE-78
	4. Wire harness or connector	-
Front vertical operation function only does not operate.	1. Power seat switch	SE-75
	2. Front seat frame with adjuster (LH side front vertical motor)	SE-77
	3. Front seat frame with adjuster (RH side front vertical motor)	SE-78
	4. Wire harness or connector	-
Lifter operation function only does not operate.	1. Power seat switch	SE-75
	2. Front seat frame with adjuster (LH side lifter motor)	SE-77
	3. Front seat frame with adjuster (RH side lifter motor)	SE-78
	4. Wire harness or connector	-
Reclining operation function only does not operate.	1. Power seat switch	SE-75
	2. Front seat frame with adjuster (LH side reclining motor)	SE-77
	3. Front seat frame with adjuster (RH side reclining motor)	SE-78
	4. Wire harness or connector	-
Lumbar support operation function only does not operate (Driver side only).	1. Front power seat lumbar switch	SE-80
	2. Lumbar support adjuster assembly	SE-81
	3. Wire harness or connector	-

2. FRONT POWER SEAT CONTROL SYSTEM (w/ MEMORY)

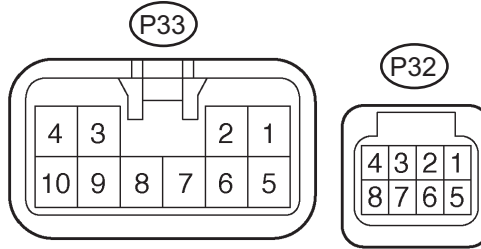
Symptom	Suspected area	See page
Power seat does not operate (manual or memorized position).	1. ECU power source circuit	SE-24
	2. Position control ECU and switch assembly (power seat control switch and ECU)	SE-39
One of the power seat functions does not operate (manual or memorized position).	1. Power seat motor circuit	SE-16
	2. Position control ECU and switch assembly (power seat control switch and ECU)	SE-39
One or all manual seat functions do not operate (memorized positions OK).	1. Position control ECU and switch assembly (power seat control switch and ECU)	SE-39
Memory function does not operate.	1. Memory switch circuit	SE-20
	2. Multiplex communication system	MP-6
	3. Position control ECU and switch assembly (power seat control switch and ECU)	SE-39
No memory functions operate or all memory functions operate briefly and then stop (manual functions OK).	1. ECU power source circuit	SE-24
	2. Position control ECU and switch assembly (power seat control switch and ECU)	SE-39
One memory function does not operate or operates briefly and then stops (manual functions OK).	1. Front seat frame with adjuster (power seat motor)	SE-77
	2. Position control ECU and switch assembly (power seat control switch and ECU)	SE-39

TERMINALS OF ECU

1. POSITION CONTROL ECU AND SWITCH ASSEMBLY (POWER SEAT CONTROL SWITCH AND ECU)

(a) Disconnect the P32 and P33 connectors.

Connector Front View:



Y

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(b) Check the voltage of each terminal of the wire harness side connectors.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IG(P32-4) - GND(P33-1)	Y - W-B	Ignition switch	Ignition switch off → ignition switch on	Below 1 V → 10 to 14 V
SYSB(P32-8) - GND(P33-1)	GR - W-B	Power source	Always	10 to 14 V
+B(P33-5) - GND(P33-1)	LG - W-B	Battery	Always	10 to 14 V

If the result is not as specified, there may be a malfunction in the wire harness side.

(c) Check the resistance of each terminal of the wire harness side connectors.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND(P33-1) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω

If the result is not as specified, there may be a malfunction in the wire harness side.

(d) Reconnect the P32 and P33 connectors.

(e) Check the voltage of each terminal of the connectors.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
MPX1(P32-1) - GND(P33-1)	W - W-B	Multiplex communication signal circuit	Ignition switch on	Pulse generation
SLD+(P33-2) - GND(P33-1)	L - W-B	Sliding motor signal (Forward)	Seat moving forward using sliding switch → Other conditions	10 to 14 V → Below 1 V
SLD-(P33-3) - GND(P33-1)	Y - W-B	Sliding motor signal (Rearward)	Seat moving rearward using sliding switch → Other conditions	10 to 14 V → Below 1 V
FRV-(P33-4) - GND(P33-1)	B - W-B	Front vertical motor signal (Downward)	Seat cushion front portion lowering using front vertical switch → Other conditions	10 to 14 V → Below 1 V
FRV+(P33-6) - GND(P33-1)	G - W-B	Front vertical motor signal (Upward)	Seat cushion front portion rising using front vertical switch → Other conditions	10 to 14 V → Below 1 V
LFT+(P33-7) - GND(P33-1)	W - W-B	Lifter motor signal (Upward)	Seat rising using lifter switch → Other conditions	10 to 14 V → Below 1 V

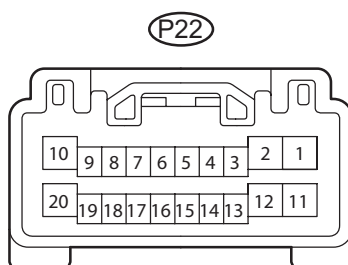
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
RCL+(P33-8) - GND(P33-1)	P - W-B	Reclining motor signal (Forward)	Seatback moving forward using reclining switch → Other conditions	10 to 14 V → Below 1 V
LFT-(P33-9) - GND(P33-1)	V - W-B	Lifter motor signal (Downward)	Seat lowering using lifter switch → Other conditions	10 to 14 V → Below 1 V
RCL-(P33-10) - GND(P33-1)	BR - W-B	Reclining motor signal (Rearward)	Seatback moving rearward using reclining switch → Other conditions	10 to 14 V → Below 1 V

If the result is not as specified, the position control ECU and switch assembly may be malfunctioning.

2. POWER WINDOW REGULATOR SWITCH ASSEMBLY (POWER WINDOW MASTER SWITCH)

(a) Disconnect the P22 connector.

Connector Front View:



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(b) Check the voltage of each terminal of the wire harness side connectors.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
CPUB(P22-9) - GND(P22-2)	L-B - W-B	Power source	Always	10 to 14 V
BDR(P22-10) - GND(P22-2)	G - W-B	Power window motor power source	Always	10 to 14 V
SIG(P22-20) - GND(P22-2)	BR - W-B	Ignition switch signal	Ignition switch off → ignition switch on	Below 1 V → 10 to 14 V

If the result is not as specified, there may be a malfunction in the wire harness side.

(c) Check the resistance of each terminal of the wire harness side connector.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
GND(P22-2) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω

If the result is not as specified, there may be a malfunction in the wire harness side.

(d) Reconnect the P22 connector.
(e) Check the voltage of each terminal of the connectors.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
MM(P22-3) - GND(P22-2)	LG - W-B	SET switch signal	SET switch is not pushed → pushed	10 to 14 V → Below 1 V
M1(P22-13) - GND(P22-2)	G - W-B	SW1 switch signal	SW1 switch is not pushed → pushed	10 to 14 V → Below 1 V
M2(P22-17) - GND(P22-2)	V - W-B	SW2 switch signal	SW2 switch is not pushed → pushed	10 to 14 V → Below 1 V

If the result is not as specified, the power window regulator switch assembly may be malfunctioning.

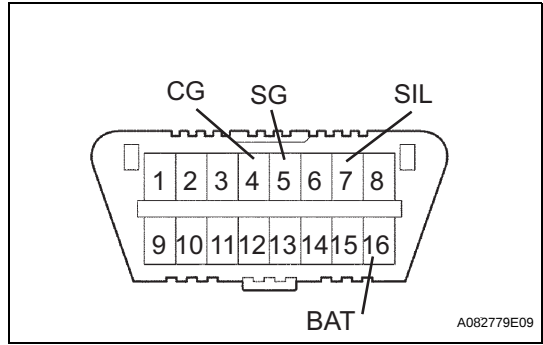
DIAGNOSIS SYSTEM

1. DESCRIPTION

- (a) Front power seat control system data can be read through the Data Link Connector 3 (DLC3) of the vehicle. When the system seems to be malfunctioning, use the intelligent tester to check for malfunctions and perform repairs.

2. CHECK DLC3

- (a) The vehicle uses ISO 15765-4 communication protocol. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 15765-4 format.



Symbols (Terminal No.)	Terminal Description	Condition	Specified Condition
SIL(7) - SG(5)	Bus "+" line	During transmission	Pulse generation
CG(4) - Body ground	Chassis ground	Always	Below 1 Ω
SG(5) - Body ground	Signal ground	Always	Below 1 Ω
BAT(16) - Body ground	Battery positive	Always	11 to 14 V

If the result is not as specified, the DLC3 may have a malfunction. Repair or replace the wire harness and connector.

HINT:

Connect the cable of the intelligent tester to the DLC3, turn the ignition switch on and attempt to use the tester. If the screen displays a communication error message, a problem exists on the vehicle side or the tester side.

- If communication is normal when the tester is connected to another vehicle, inspect the DLC3 of the original vehicle.
- If communication is still not possible when the tester is connected to another vehicle, the problem is probably in the tester itself. Consult the Service Department listed in the tester's instruction manual.

3. INSPECT BATTERY VOLTAGE

- (a) Check the battery voltage.

Voltage:

11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding.

DATA LIST / ACTIVE TEST

1. DATA LIST

HINT:

Using the intelligent tester's DATA LIST allows the status of a switch, sensor, actuator and other items to be read without removing any parts. Reading the DATA LIST early in troubleshooting is one way to save time.

- Connect the intelligent tester (with CAN VIM) to the DLC3.
- Turn the ignition switch on.
- Read the DATA LIST.

D_SEAT (Position control ECU and switch assembly)

Item	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
RECLIN SW REAR	Reclining switch signal (Rearward)/ ON or OFF	ON: Reclining switch (Rearward) is ON OFF: Reclining switch (Rearward) is OFF	-
RECLIN SW FRONT	Reclining switch signal (Forward)/ ON or OFF	ON: Reclining switch (Forward) is ON OFF: Reclining switch (Forward) is OFF	-
F VTCL SW DOWN	Front vertical switch signal (Downward)/ ON or OFF	ON: Front vertical switch (Downward) is ON OFF: Front vertical switch (Downward) is OFF	-
F VTCL SW UP	Front vertical switch signal (Upward)/ ON or OFF	ON: Front vertical switch (Upward) is ON OFF: Front vertical switch (Upward) is OFF	-
LIFTER SW DOWN	Lifter switch signal (Downward)/ ON or OFF	ON: Lifter switch (Downward) is ON OFF: Lifter switch (Downward) is OFF	-
LIFTER SW UP	Lifter switch signal (Upward)/ ON or OFF	ON: Lifter switch (Upward) is ON OFF: Lifter switch (Upward) is OFF	-
SLIDE SW REAR	Sliding switch signal (Rearward)/ ON or OFF	ON: Sliding switch (Rearward) is ON OFF: Sliding switch (Rearward) is OFF	-
SLIDE SW FRONT	Sliding switch signal (Forward)/ ON or OFF	ON: Sliding switch (Forward) is ON OFF: Sliding switch (Forward) is OFF	-
POWER VOLTAGE	Power supply for position control ECU and switch assembly/ MIN: 0 V, MAX: 19.89 V	Within range from 11 to 14 V	-
IG SW	Ignition switch position/ ON or OFF	ON: Ignition switch is ON OFF: Ignition switch is OFF	-
KEY UNLOCK SW	Key unlock warning switch signal/ ON or OFF	ON: Key is in ignition key cylinder OFF: Key is not in ignition key cylinder	-
D-DOOR WARN SW	Door courtesy light switch signal/ ON or OFF	ON: Driver side door is open OFF: Driver side door is closed	-
PNP SW	Shift lever position P signal/ ON or OFF	ON: Shift lever in P position OFF: Shift lever in any position except P	-
M2 SW	Seat memory M2 switch signal/ ON or OFF	ON: Seat memory M2 switch is ON OFF: Seat memory M2 switch is OFF	-
M1 SW	Seat memory M1 switch signal/ ON or OFF	ON: Seat memory M1 switch is ON OFF: Seat memory M1 switch is OFF	-
SET SW	Seat memory set switch signal/ ON or OFF	ON: Seat memory set switch is ON OFF: Seat memory set switch is OFF	-
SLIDE POS	Seat sliding position/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
RECLIN POS	Seatback position/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
F VTCL POS	Seat front vertical position/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
LIFTER POS	Seat lifter position/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-

Item	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
MEM M1 SW	Driving position memorized with seat memory switch M1/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized	-
MEM M2 SW	Driving position memorized with seat memory switch M2/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized	-
SEAT MEM M1	Seat position memorized with seat memory switch M1/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized	-
SEAT MEM M2	Seat position memorized with seat memory switch M2/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized	-
D-MIRR MEM 1	Driver side mirror position memorized with seat memory switch M1/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized	-
D-MIRR MEM 2	Driver side mirror position memorized with seat memory switch M2/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized	-
P-MIRR MEM 1	Front passenger side mirror position memorized with seat memory switch M1/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized	-
P-MIRR MEM 2	Front passenger side mirror position memorized with seat memory switch M2/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized	-
SLIDE MEM POS 1	Seat sliding position memorized with seat memory switch M1/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
RECLN MEM POS 1	Seatback position memorized with seat memory switch M1/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
F VTCL MEM POS 1	Front vertical position memorized with seat memory switch M1/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
LIFTER MEM POS 1	Lifter position memorized with seat memory switch M1/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
SLIDE MEM POS 2	Seat sliding position memorized with seat memory switch M2/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
RECLN MEM POS 2	Seatback position memorized with seat memory switch M2/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
F VTCL MEM POS 2	Front vertical position memorized with seat memory switch M2/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
LIFTER MEM POS 2	Lifter position memorized with seat memory switch M2/ MIN: -4096, MAX: 4096	Within range from -4096 to 4096	-
D-MIRR MEM POS 1	Driver side mirror position memorized with seat memory switch M1/ MIN: 0, MAX: 65535	Within range from 0 to 65535	-
P-MIRR MEM POS 1	Front passenger side mirror position memorized with seat memory switch M1/ MIN: 0, MAX: 65535	Within range from 0 to 65535	-
D-MIRR MEM POS 2	Driver side mirror position memorized with seat memory switch M2/ MIN: 0, MAX: 65535	Within range from 0 to 65535	-

Item	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
P-MIRR MEM POS 2	Front passenger side mirror position memorized with seat memory switch M2/ MIN: 0, MAX: 65535	Within range from 0 to 65535	-

2. ACTIVE TEST

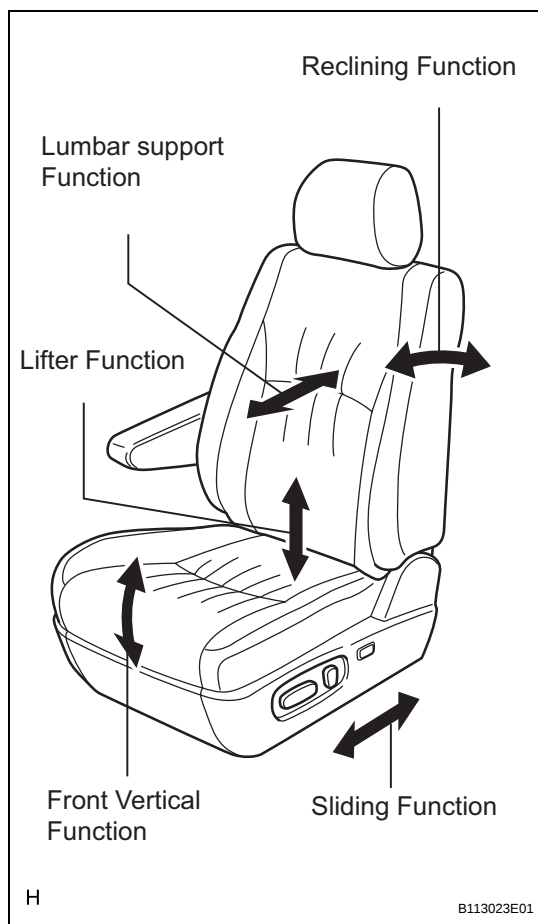
HINT:

Using the intelligent tester's ACTIVE TEST allows the relay, VSV, actuator, and other items to be operated without removing any parts. Reading the ACTIVE TEST early in troubleshooting is one way to save time. The DATA LIST can be displayed during the ACTIVE TEST.

- (a) Connect the intelligent tester (with CAN VIM) to the DLC3.
- (b) Turn the ignition switch on.
- (c) Perform the ACTIVE TEST by following the directions on the tester screen.

D_SEAT (Position control ECU and switch assembly)

Item	Test Details	Diagnostic Note
RECLINING	Test detail: reclining operation FRONT/REAR Vehicle condition: stopped	-
F VERTICAL	Test detail: front vertical operation UP/DOWN Vehicle condition: stopped	-
LIFTER	Test detail: lifter operation UP/DOWN Vehicle condition: stopped	-
SLIDE	Test detail: sliding operation UP/DOWN Vehicle condition: stopped	-



ON-VEHICLE INSPECTION

1. CHECK POWER SEAT FUNCTION

- (a) Check the basic functions.
- (1) Operate the power seat switches and check the following seat functions:
 - Sliding
 - Reclining
 - Front vertical
 - Lifter
 - Lumbar support (Driver side seat only)

2. CHECK POWER SEAT MOTOR ASSEMBLY (SLIDING, FRONT VERTICAL, LIFTER AND RECLINING FUNCTIONS)

- (a) Inspect the PTC operation inside the power seat motor.

NOTICE:

The inspection should be performed with the seat installed in the vehicle.

- (1) Move the seat to any of the maximum position by operating the power seat switch, and keep the seat there for approximately 60 seconds.
- (2) Try to move the power seat beyond the maximum position using the power seat switch. Measure the time needed for shutting off the electrical current after the lumbar support stops moving. (motor operation sound will stop, inspection of current shut-off).

Standard:

4 to 90 seconds

- (3) Release the power seat switch, and wait for approximately 60 seconds.
- (4) Operate the power seat switch to move the seat to the opposite position and check that the motor operates.

3. CHECK LUMBAR SUPPORT ADJUSTER ASSEMBLY

- (a) Inspect the PTC operation inside the power seat motor.

NOTICE:

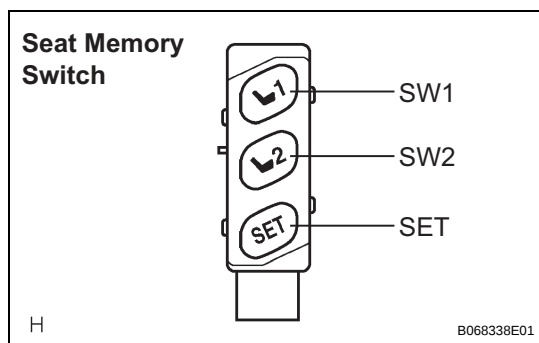
The inspection should be performed with the seat installed in the vehicle.

- (1) Move the lumbar support to either the foremost or rearmost position by operating the lumbar support switch, and keep it there for approximately 60 seconds.
- (2) Try to move the lumbar support beyond the maximum position using the switch. Measure the time needed for shutting off the electrical current after the lumbar support stops moving. (motor operation sound will stop, inspection of current shut-off).

Standard:

4 to 90 seconds

- (3) Release the lumbar support switch, and wait for approximately 60 seconds.
- (4) Operate the lumbar support switch to move the lumbar support to the opposite position and check that the motor operates.



4. CHECK MEMORY AND REACTIVATION FUNCTION (w/ MEMORY)

- (a) Turn the ignition switch on and move the shift lever into the P position.
- (b) Move the seat into the foremost position and uppermost position using each seat switch.
- (c) Check that the buzzer sounds for 0.5 seconds. The seat position is recorded when the SW1 switch is pressed while also pressing the SET switch.
- (d) Move the seat out of the foremost position and uppermost position using each seat switch.
- (e) Check that the buzzer sounds for 0.5 seconds. The seat position is recorded when the SW2 switch is pressed while also pressing the SET switch.
- (f) Check that the buzzer sounds for 0.1 seconds and the seat automatically moves into the foremost position and uppermost position (SET positions) when the SW1 switch is pressed.
- (g) Check that the buzzer sounds for 0.1 seconds and the seat automatically moves out of the foremost position and uppermost position (SET positions) when the SW2 switch is pressed.
- (h) Check that the seat automatically moves into the SET position when the SW1 or SW2 switch is pressed within 30 seconds after the ignition switch is turned off, the key is pulled out from the key cylinder and the driver side door is opened.
- (i) Move the seat either forward or back as far as the seat will move, and disconnect the negative terminal of the battery while the memory switch is pressed. Then leave the seat at the position for 3 minutes to erase the seat position memory.
- (j) Move the seat into all the maximum positions (front/rear and up/down) using each seat switch.
- (k) Check that the seat does not move (the seat position is not recorded) by performing the following steps while pressing the SET switch. Press either the SW1 switch or the SW2 switch after pressing SW1 and SW2 at the same time.

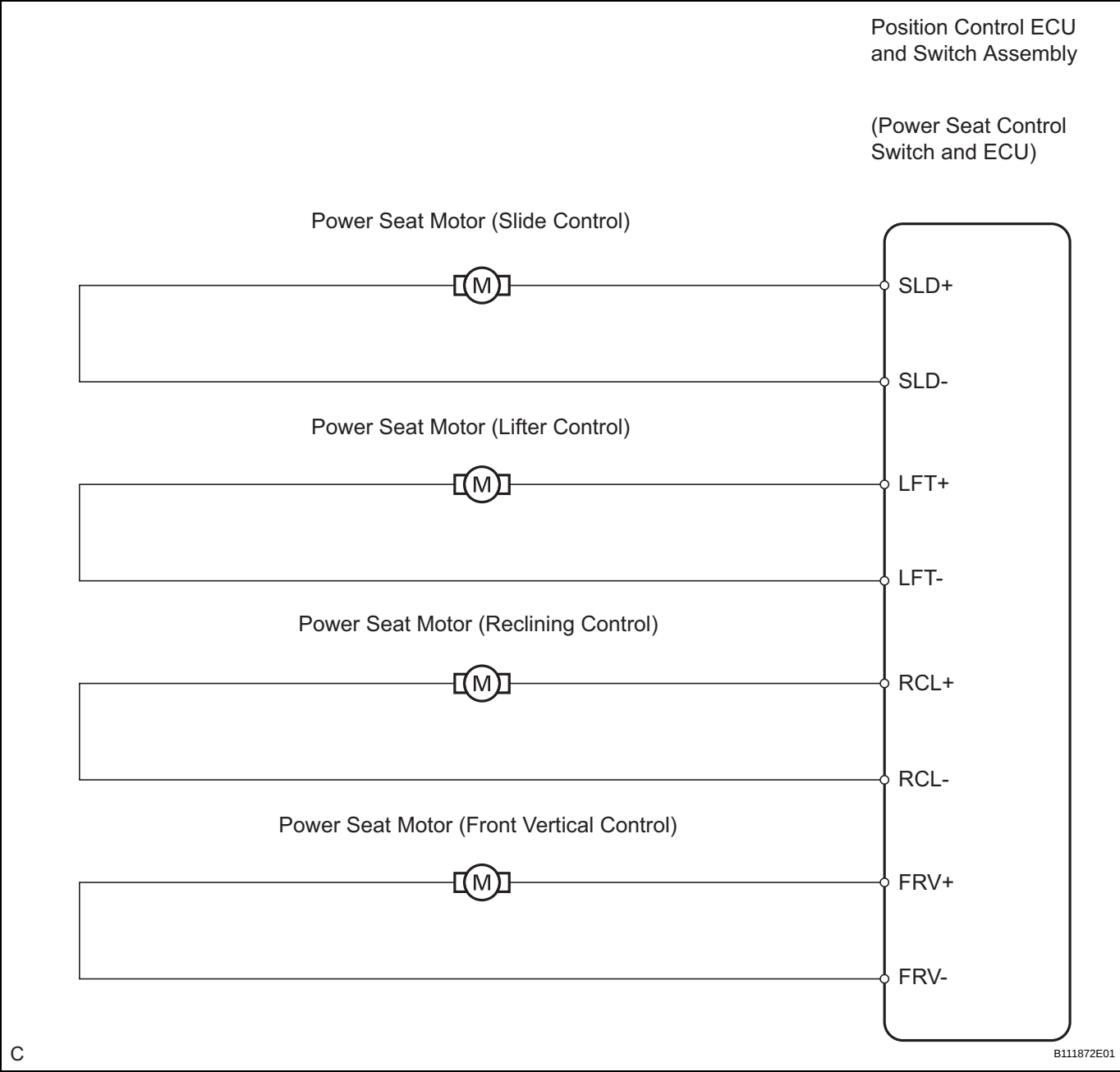
Power Seat Motor Circuit

DESCRIPTION

When the power seat control switch is operated, a command signal is sent to the position control ECU and switch assembly (power seat control switch and ECU). The front power seat switch then controls the appropriate seat motor as needed. This memory system does not use a seat position sensor. The seat position is detected by counting pulses that are output when the motor turns. If there is no pulse output from the motor, the motor will stop operating. The position control ECU and switch assembly (power seat control switch and ECU) is designed so that any malfunction of the seat memory system will not interfere with manual seat control.

If the position control ECU and switch assembly (power seat control switch and ECU) detects a low motor speed, abnormal activity, or sudden motor current fluctuation, the system will stop the motor. If the motor operates continuously for 120 seconds or more, the system will stop the motor until the switch is turned on again.

WIRING DIAGRAM



1

PERFORM ACTIVE TEST BY INTELLIGENT TESTER

- (a) Connect the intelligent tester (with CAN VIM) to the DLC3.
- (b) Turn the ignition switch on.
- (c) Perform the ACTIVE TEST by following the directions on the tester screen.

SE

D_SEAT (Position control ECU and switch assembly)

Item	Test Details	Diagnostic Note
RECLINING	Test detail: reclining operation FRONT/REAR Vehicle condition: stopped	-

Item	Test Details	Diagnostic Note
F VERTICAL	Test detail: front vertical operation UP/DOWN Vehicle condition: stopped	-
LIFTER	Test detail: lifter operation UP/DOWN Vehicle condition: stopped	-
SLIDE	Test detail: sliding operation UP/DOWN Vehicle condition: stopped	-

OK:

Each power seat motor operates.

NG

Go to step 2

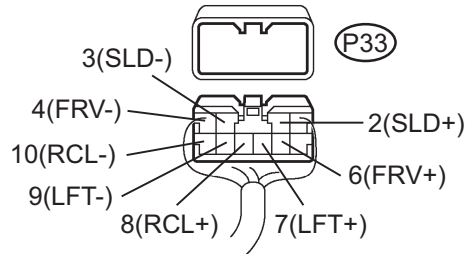
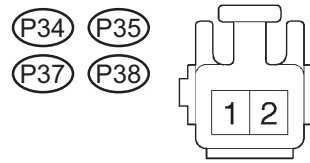
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

2**INSPECT FRONT SEAT ADJUSTER SUB-ASSEMBLY (POWER SEAT MOTOR)**(a) Inspect the power seat motor (See page [SE-77](#)).**OK:**

The power seat motor operates.

NG**REPLACE FRONT SEAT ADJUSTER SUB-ASSEMBLY (POWER SEAT MOTOR)****OK**

3**CHECK HARNESS AND CONNECTOR (POSITION CONTROL ECU AND SWITCH ASSEMBLY - POWER SEAT MOTOR)****Position Control ECU and Switch Assembly Connector****Wire Harness Rear View:****Power Seat Motor Connector****Wire Harness Front View:**

B112268E01

- (a) Disconnect the position control ECU and switch assembly connector and power seat motor connectors.
- (b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Condition	Specified Condition
P33-2(SLD+) - P38-1	Always	Below 1 Ω
P33-3(SLD-) - P38-2	Always	Below 1 Ω
P33-4(FRV-) - P34-2	Always	Below 1 Ω
P33-6(FRV+) - P34-1	Always	Below 1 Ω
P33-7(LFT+) - P35-2	Always	Below 1 Ω
P33-9(LFT-) - P35-1	Always	Below 1 Ω
P33-8(RCL+) - P37-2	Always	Below 1 Ω
P33-10(RCL-) - P37-1	Always	Below 1 Ω
P33-2(SLD+) - Body ground	Always	10 k Ω or higher
P33-3(SLD-) - Body ground	Always	10 k Ω or higher
P33-4(FRV-) - Body ground	Always	10 k Ω or higher
P33-6(FRV+) - Body ground	Always	10 k Ω or higher
P33-7(LFT+) - Body ground	Always	10 k Ω or higher
P33-9(LFT-) - Body ground	Always	10 k Ω or higher
P33-8(RCL+) - Body ground	Always	10 k Ω or higher
P33-10(RCL-) - Body ground	Always	10 k Ω or higher

NG**REPAIR OR REPLACE HARNESS OR CONNECTOR****OK****PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

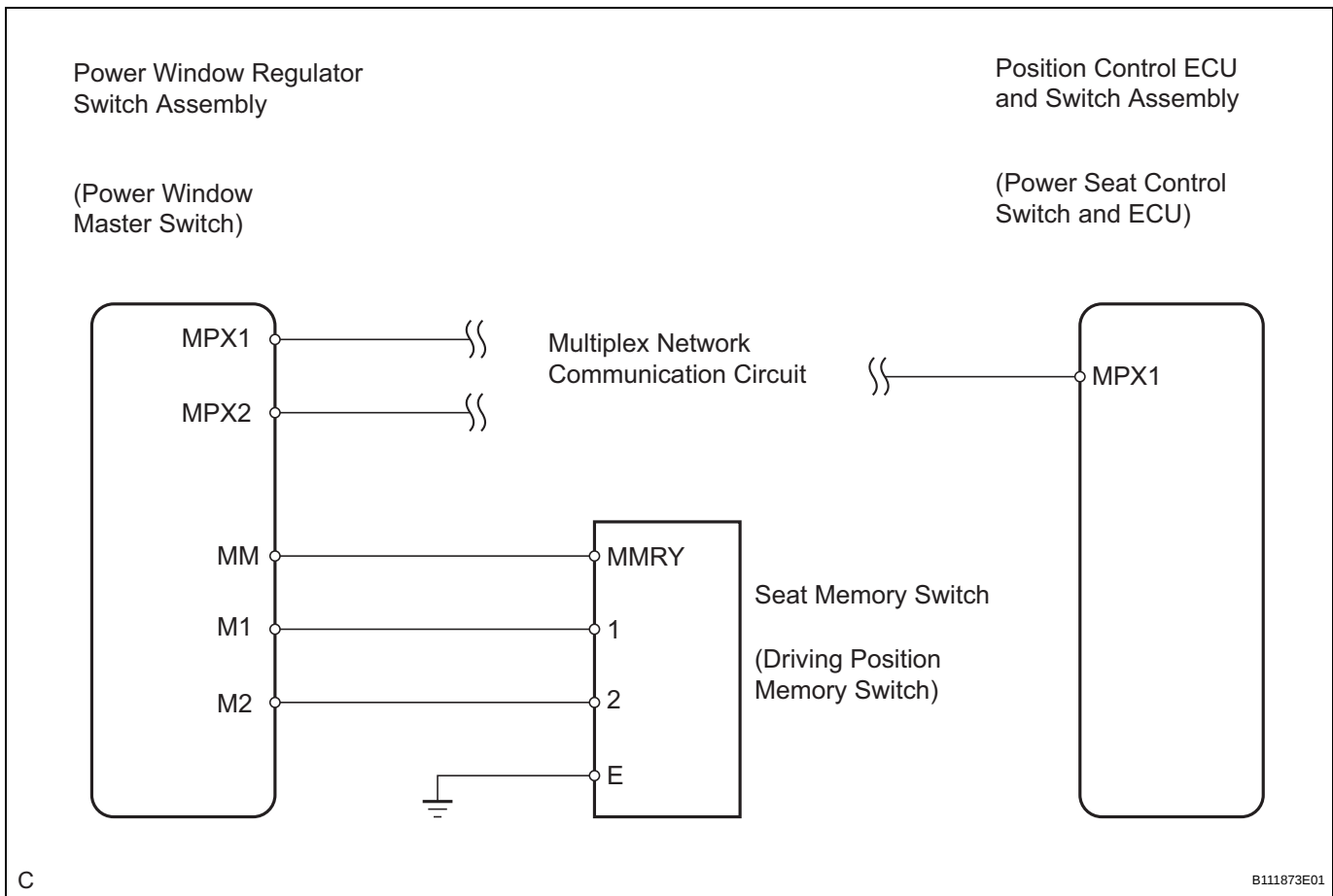
Driving Position Memory Switch Circuit (w/ Memory)

DESCRIPTION

The seat memory switch sends signals to the power window regulator switch assembly (power window master switch) via the multiplex communication system to memorize a given seat position. This memory system does not use a position sensor. The seat position is detected by counting pulses that are output when the motor turns. If there is no pulse output from the motor, the motor will stop operating. The seat memory switch is later used to send signals to the front power seat switch to return the seat to one of the memorized positions.

The power seat memory operation can be performed only when the ignition switch is on and the shift lever is in the P position.

WIRING DIAGRAM



- Connect the intelligent tester (with CAN VIM) to the DLC3.
- Turn the ignition switch on.

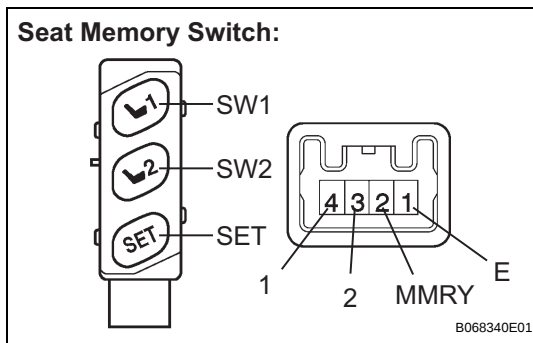
(c) Read the DATA LIST.

D_SEAT (Position control ECU and switch assembly)

Item	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
M2 SW	Seat memory M2 switch signal/ ON or OFF	ON: Seat memory M2 switch is ON OFF: Seat memory M2 switch is OFF	-
M1 SW	Seat memory M1 switch signal/ ON or OFF	ON: Seat memory M1 switch is ON OFF: Seat memory M1 switch is OFF	-
SET SW	Seat memory set switch signal/ ON or OFF	ON: Seat memory set switch is ON OFF: Seat memory set switch is OFF	-

OK:

Condition status can be displayed.

NG**Go to step 2****OK****PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE****2****INSPECT SEAT MEMORY SWITCH (DRIVING POSITION MEMORY SWITCH)**

- (a) Remove the seat memory switch.
 (b) Measure the resistance according to the value(s) in the table below.

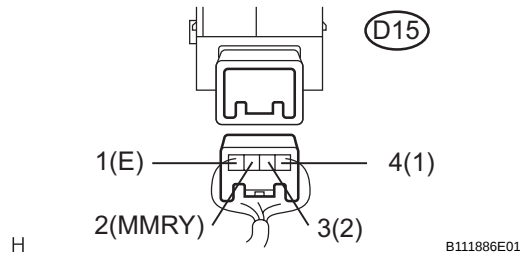
Resistance

Tester Connection	Switch Position	Specified Condition
1(E) - 2(MMRY)	SET switch ON (pushed)	Below 1 Ω
1(E) - 2(MMRY)	SET switch OFF (not pushed)	10 k Ω or higher
1(E) - 4(1)	SW1 switch ON (pushed)	Below 1 Ω
1(E) - 4(1)	SW1 switch OFF (not pushed)	10 k Ω or higher
1(E) - 3(2)	SW2 switch ON (pushed)	Below 1 Ω
1(E) - 3(2)	SW2 switch OFF (not pushed)	10 k Ω or higher

NG**REPLACE SEAT MEMORY SWITCH
(DRIVING POSITION MEMORY SWITCH)****OK****SE**

3 CHECK HARNESS AND CONNECTOR (SEAT MEMORY SWITCH CIRCUIT)

Wire Harness Rear View:



- (a) Measure the voltage according to the value(s) in the table below.

Voltage

Tester Connection	Switch Position	Specified Condition
D15-2(MMRY) - D15-1(E)	Ignition switch on	10 to 14 V
D15-3(2) - D15-1(E)	Ignition switch on	10 to 14 V
D15-4(1) - D15-1(E)	Ignition switch on	10 to 14 V

NG

Go to step 4

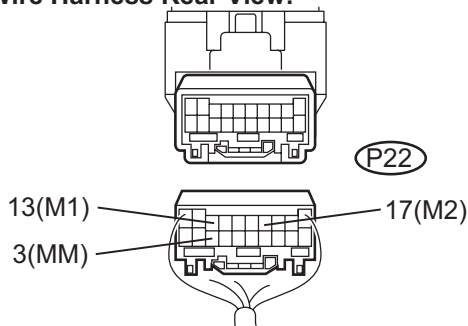
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

4 CHECK HARNESS AND CONNECTOR (POWER WINDOW REGULATOR SWITCH ASSEMBLY - SEAT MEMORY SWITCH)

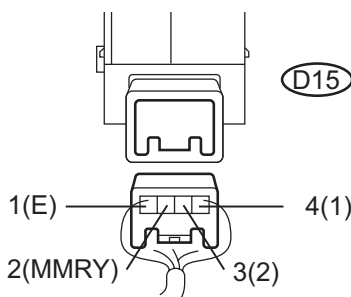
Power Window Regulator Switch Connector

Wire Harness Rear View:



Seat Memory Switch Connector

Wire Harness Rear View:



- (a) Disconnect the power window regulator switch assembly connector.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Switch Position	Specified Condition
D15-1(E) - Body ground	Always	Below 1 Ω
D15-2(MMRY) - P22-3(MM)	Always	Below 1 Ω
D15-3(2) - P22-17(M2)	Always	Below 1 Ω
D15-4(1) - P22-13(M1)	Always	Below 1 Ω
D15-2(MMRY) - Body ground	Always	10 k Ω or higher
D15-3(2) - Body ground	Always	10 k Ω or higher
D15-4(1) - Body ground	Always	10 k Ω or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE POWER WINDOW REGULATOR SWITCH ASSEMBLY (POWER WINDOW MASTER SWITCH)

ECU Power Source Circuit

DESCRIPTION

The position control ECU and switch assembly (power seat control switch and ECU) is contained in the switch assembly.

During manual operation, only one switch signal is accepted. If signals are input from 2 or more switches simultaneously, all of them are ignored, except when signals are input from the front vertical switch and lifter switch simultaneously. In this case, the signal from the lifter will operate.

During automatic operation, a manual switch input will override any other operations, i.e. automatic operations will stop and the manual input operation only will be accepted. For example, if a manual switch input is activated during a seat store/restore operation, the previous operation will cease and manual operation will be performed. After the manual operation is performed, the previous automatic operation will not resume.

The power mirror store/restore operation is unaffected by manual switch inputs.

The front power seat switch does not allow the restore operation of the power seat when the system detects that the voltage of terminal SYSB is less than 8.0 ± 0.5 V for 30 msec. or is more than 10 ± 0.5 V for 30 msec.

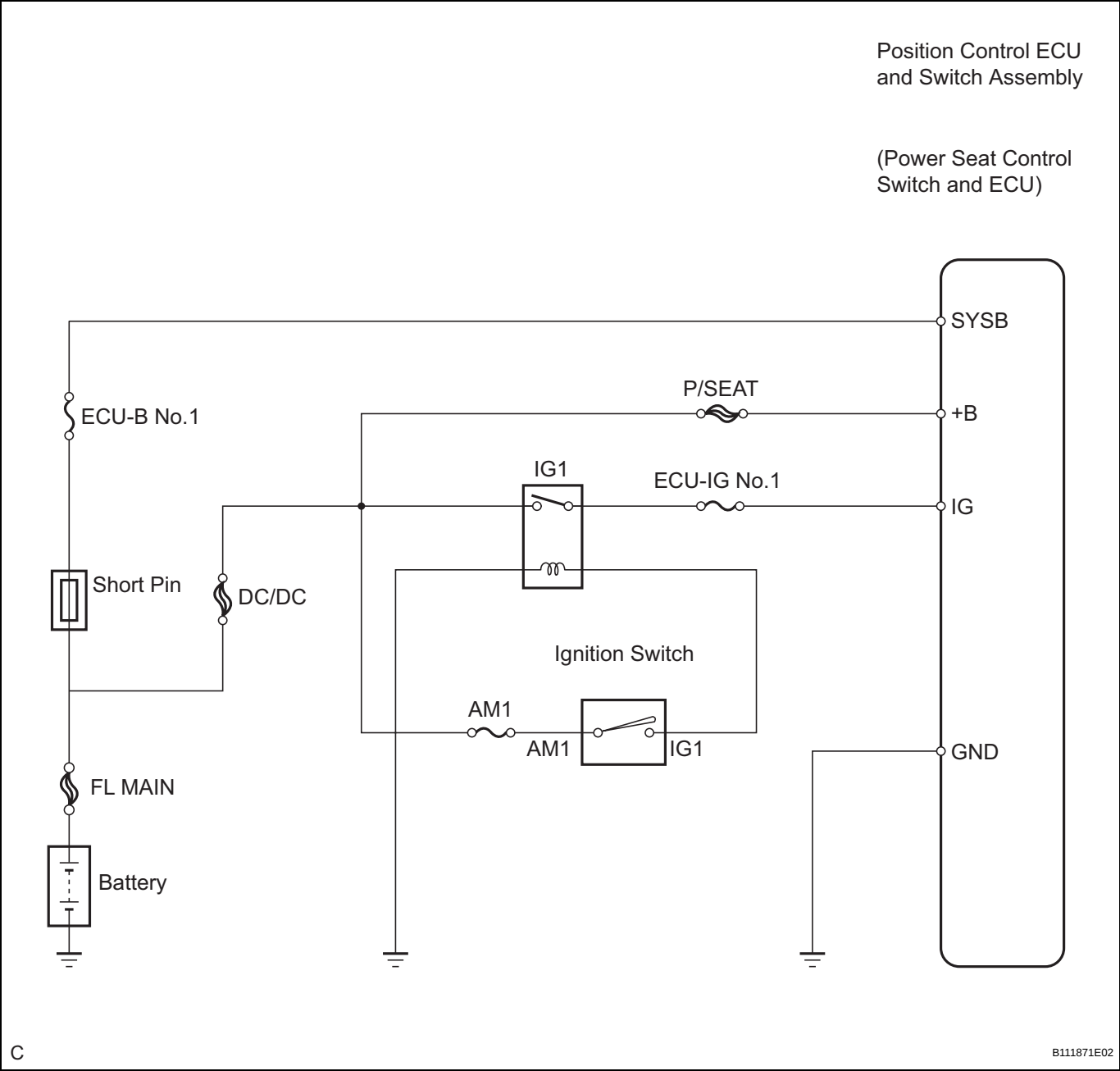
This circuit is the power source circuit for the position control ECU and switch assembly (power seat control switch and ECU).

HINT:

- Manual adjustment of the slide, reclining, or lumbar can be performed even when the front power seat switch is not functional if current is allowed to flow into terminals +B and SYSB.

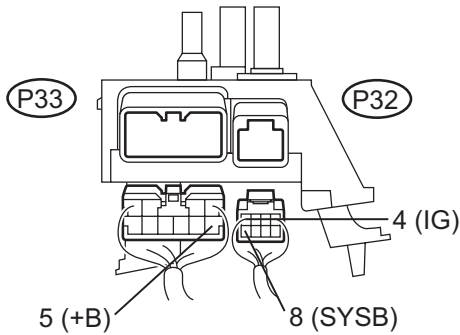
Lumbar support operation can be performed at all times.

WIRING DIAGRAM



1 INSPECT POSITION CONTROL ECU AND SWITCH ASSEMBLY (POWER SEAT CONTROL SWITCH AND ECU POWER SOURCE CIRCUIT)

Wire Harness Rear View:



H

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- Disconnect the position control ECU and switch assembly connectors.
- Measure the voltage according to the value(s) in the table below.

Voltage

Tester Connection	Condition	Specified Condition
P33-5(+B) - Body ground	Always	10 to 14 V
P32-4(IG) - Body ground	Ignition switch on	10 to 14 V
P32-8(SYSB) - Body ground	Always	10 to 14 V

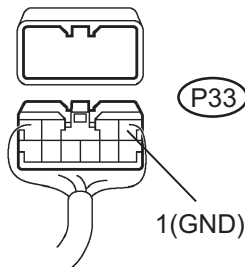
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (POWER SOURCE CIRCUIT)

OK

2 INSPECT POSITION CONTROL ECU AND SWITCH ASSEMBLY (POWER SEAT CONTROL SWITCH AND ECU GROUND CIRCUIT)

Wire Harness Rear View:



H

B085084E02

- Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Condition	Specified Condition
P33-1(GND) - Body ground	Always	Below 1 Ω

NG

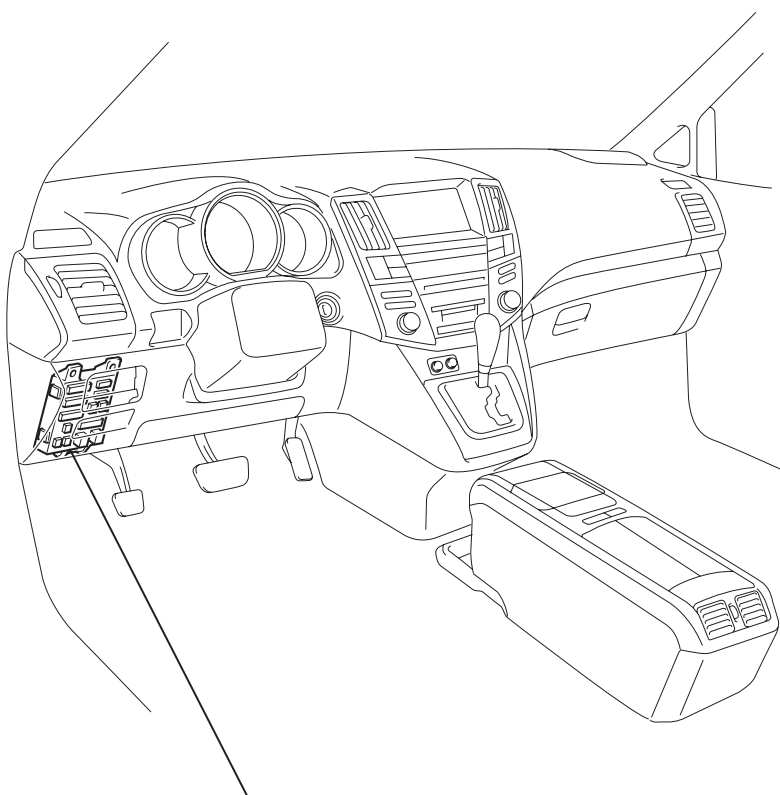
REPAIR OR REPLACE HARNESS OR CONNECTOR (GROUND CIRCUIT)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

FRONT POWER SEAT CONTROL SYSTEM (w/o Memory)

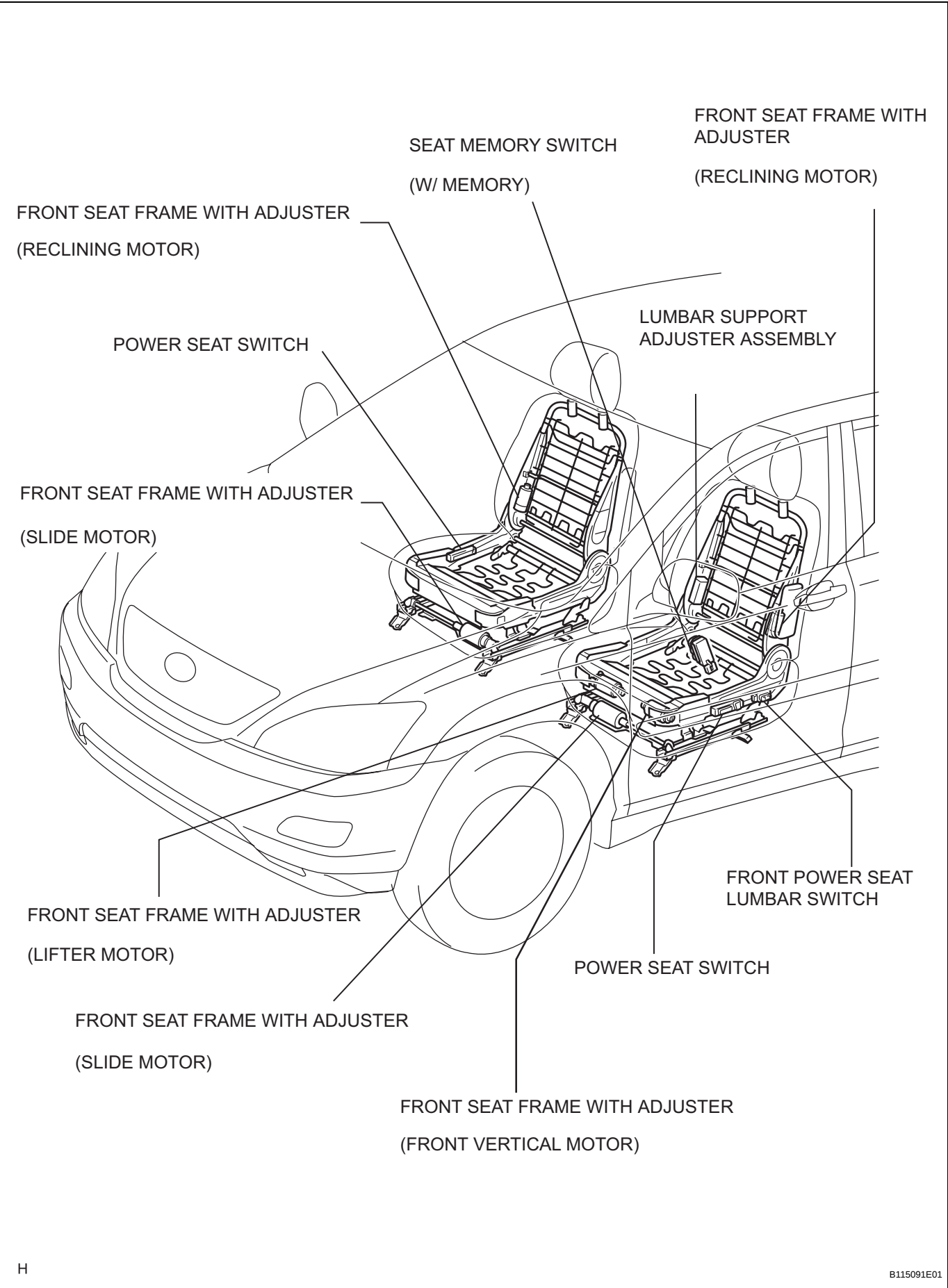
PARTS LOCATION



INSTRUMENT PANEL J/B ASSEMBLY

- IG1 RELAY
- ECU-IG NO. 1 FUSE
- P/SEAT M-FUSE

SE



PROBLEM SYMPTOMS TABLE

FRONT POWER SEAT CONTROL SYSTEM (w/o Memory)

Symptom	Suspected area	See page
Power seat does not operate	1. P/SEAT M-fuse	-
	2. ECU-IG NO. 1 fuse	-
	3. IG1 relay	-
	4. Front power seat switch	SE-75
	5. Wire harness	-
Only slide operation function does not operate	1. Front power seat switch	SE-75
	2. Slide motor	SE-77
	3. Wire harness	-
Only front vertical operation function does not operate (Driver seat only)	1. Front power seat switch	SE-75
	2. Front vertical motor	SE-77
	3. Wire harness	-
Only lifter operation function does not operate (Driver seat only)	1. Front power seat switch	SE-75
	2. Lifter motor	SE-77
	3. Wire harness	-
Only reclining operation function does not operate	1. Front power seat switch	SE-75
	2. Reclining motor	SE-77
	3. Wire harness	-
Only lumbar support operation function does not operate (Driver seat only)	1. Power seat switch assembly (Lumbar support)	SE-80
	2. Lumbar support adjuster motor	SE-81
	3. Wire harness	-

ON-VEHICLE INSPECTION

1. CHECK POWER SEAT FUNCTION

- (a) Check the basic functions.
- (1) Check that each part functions properly (sliding, front vertical, lifter, reclining and lumbar support) when operating the power seat switches.

2. CHECK POWER SEAT MOTOR ASSEMBLY

HINT:

Sliding, front vertical, lifter, reclining functions

- (a) Inspect the PTC operation inside the power seat motor.

NOTICE:

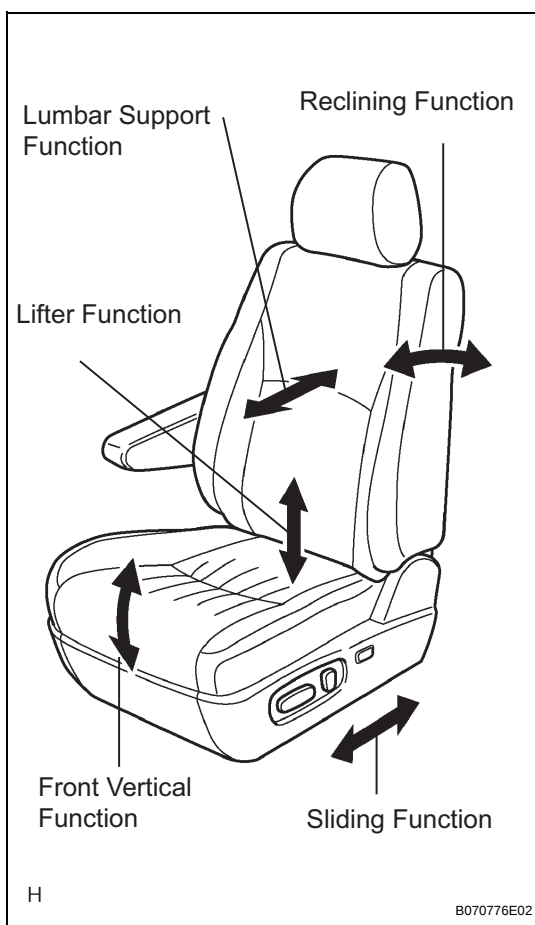
The inspection should be performed with the seat installed in the vehicle.

- (1) Move the seat to any of the maximum positions by operating the power seat switch, and keep the seat there for approx. 60 seconds.
- (2) Try to operate the power seat past the maximum position using the power seat switch and measure the time until the electrical current is shut off (motor operation sound will stop, inspection of current shut-off).

Standard:

4 to 90 seconds

- (3) Turn off the power seat switch after the inspection of current shut-off, and keep that condition for approx. 60 seconds.



- (4) Operate the power seat switch to move the seat to the opposite position and check that the motor operates.

3. CHECK LUMBAR SUPPORT ADJUSTER ASSEMBLY LH

- (a) Inspect the PTC operation inside the power seat motor.

NOTICE:

The inspection should be performed with the seat installed in the vehicle.

- (1) Move the lumbar support to either the foremost or rearmost position by operating the lumbar support switch, and keep it there for approx. 60 seconds.
- (2) Try to move the lumbar support past the maximum position using the switch and measure the time until the electrical current is shut off (motor operation sound will stop, inspection of current shut-off).

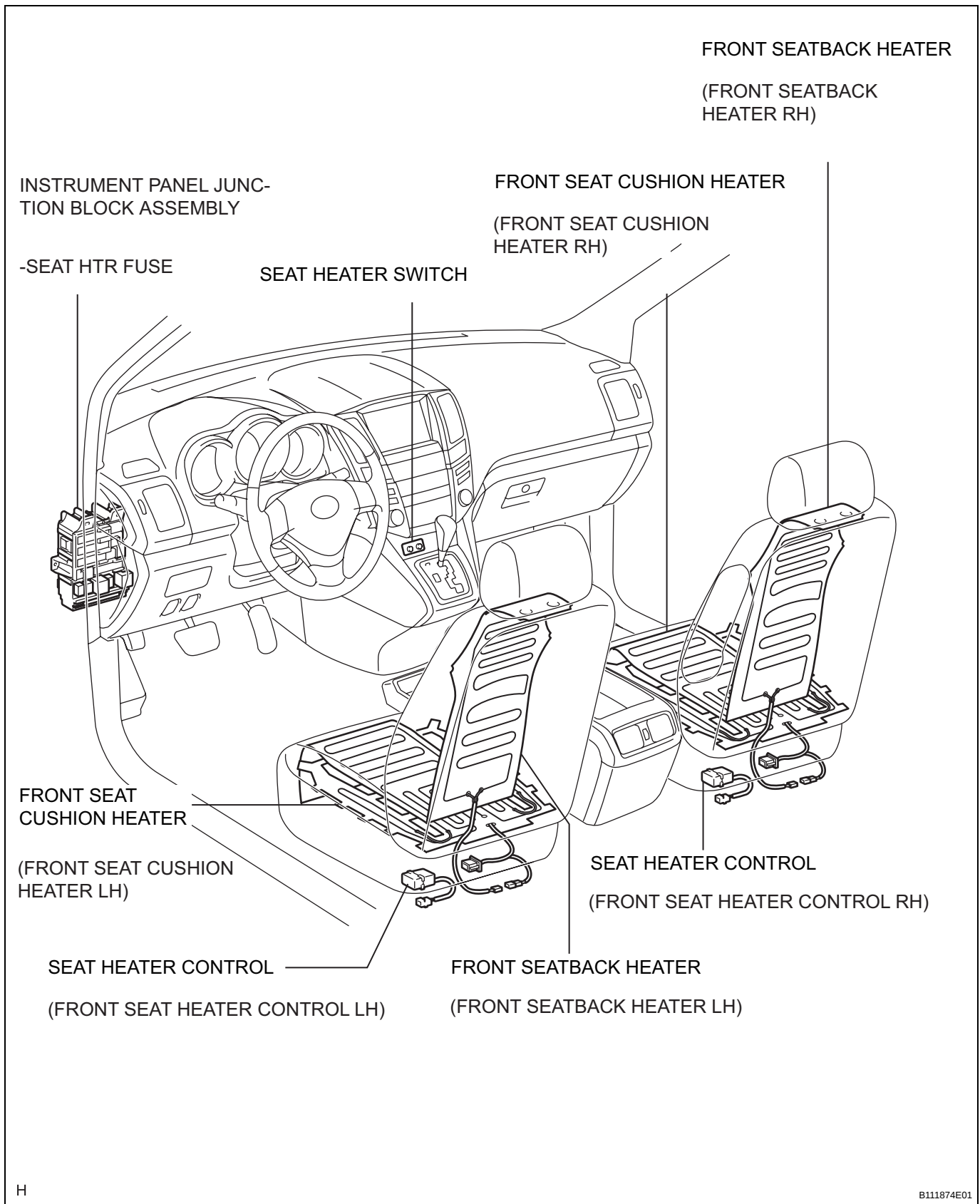
Standard:

4 to 90 seconds

- (3) Turn off the lumbar support switch after the inspection of current shut-off, and keep that condition for approx. 60 seconds.
- (4) Operate the lumbar support switch to move the lumbar support to the opposite position and check that the motor operates.

SEAT HEATER SYSTEM

PARTS LOCATION



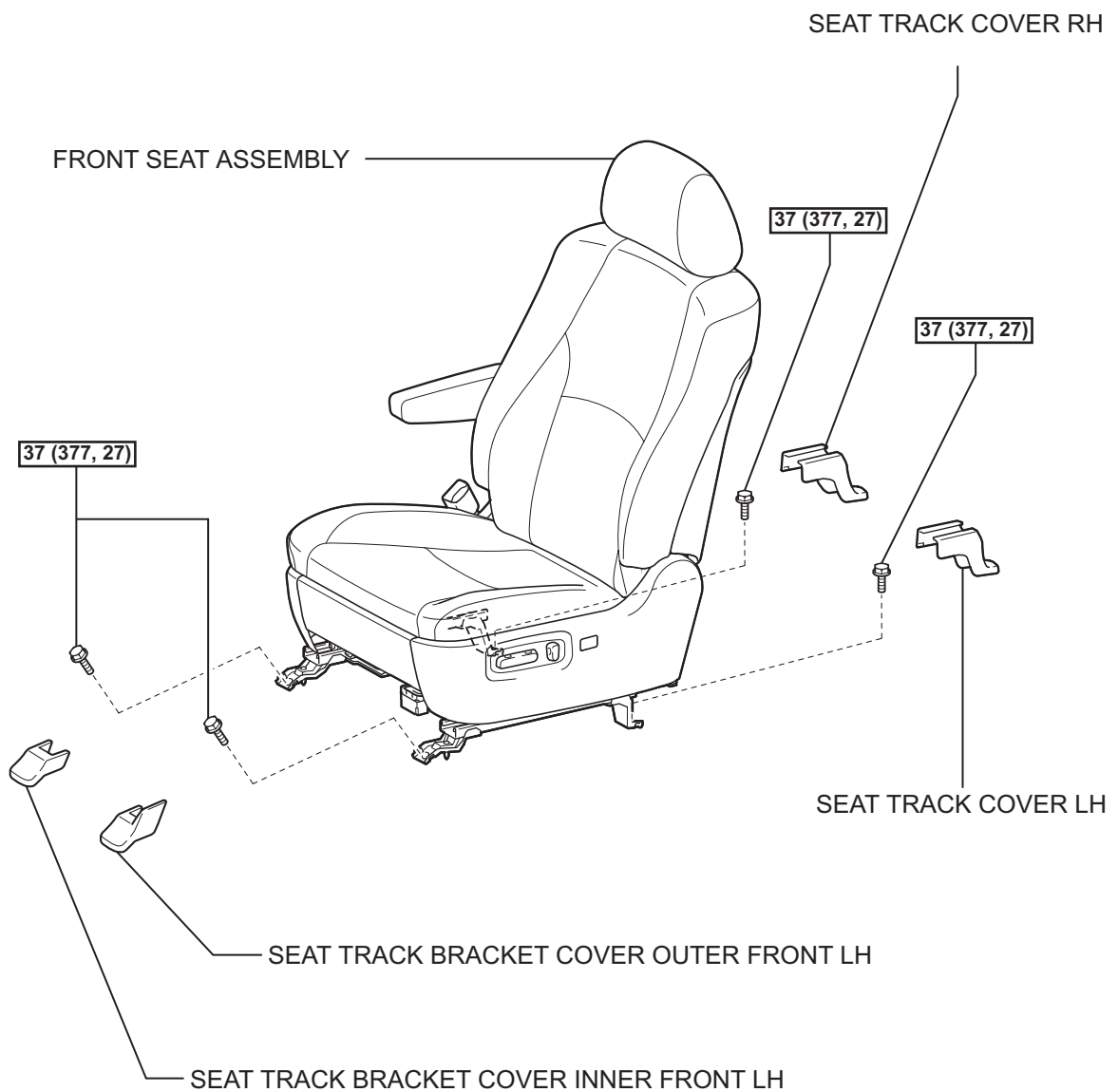
SYSTEM DESCRIPTION

1. GENERAL DESCRIPTION

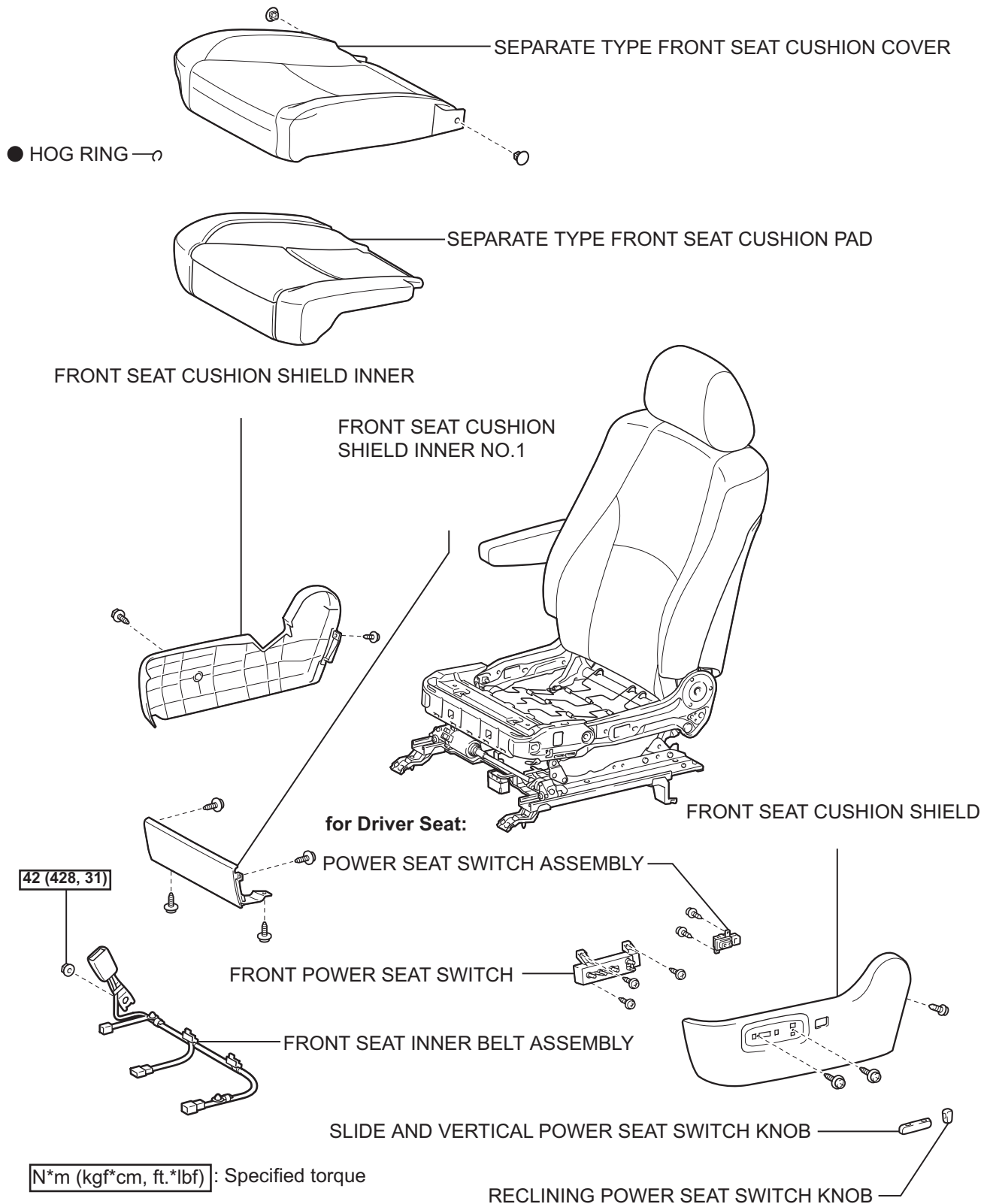
- (a) By operating the seat heater switch, which is located in the instrument panel, the temperature can be controlled within the range of 30 to 40°C (86 to 104°F).
- (b) The seat heater switch indicator light provides seat heater on/off status.
- (c) The seat heaters of both seats are controlled by the seat heaters. Which are located under the respective seat.

FRONT SEAT ASSEMBLY

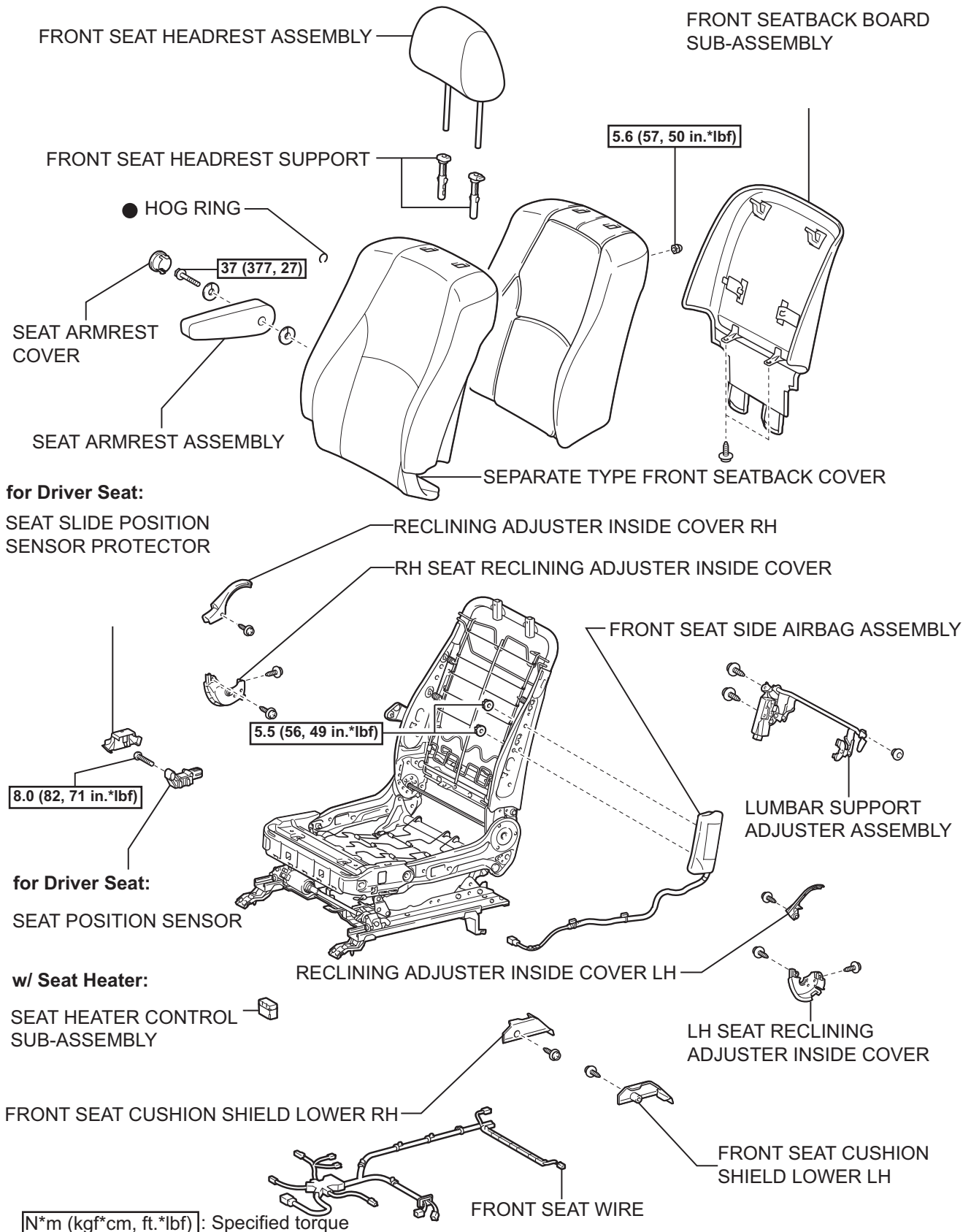
COMPONENTS



N*m (kgf*cm, ft.*lbf): Specified torque



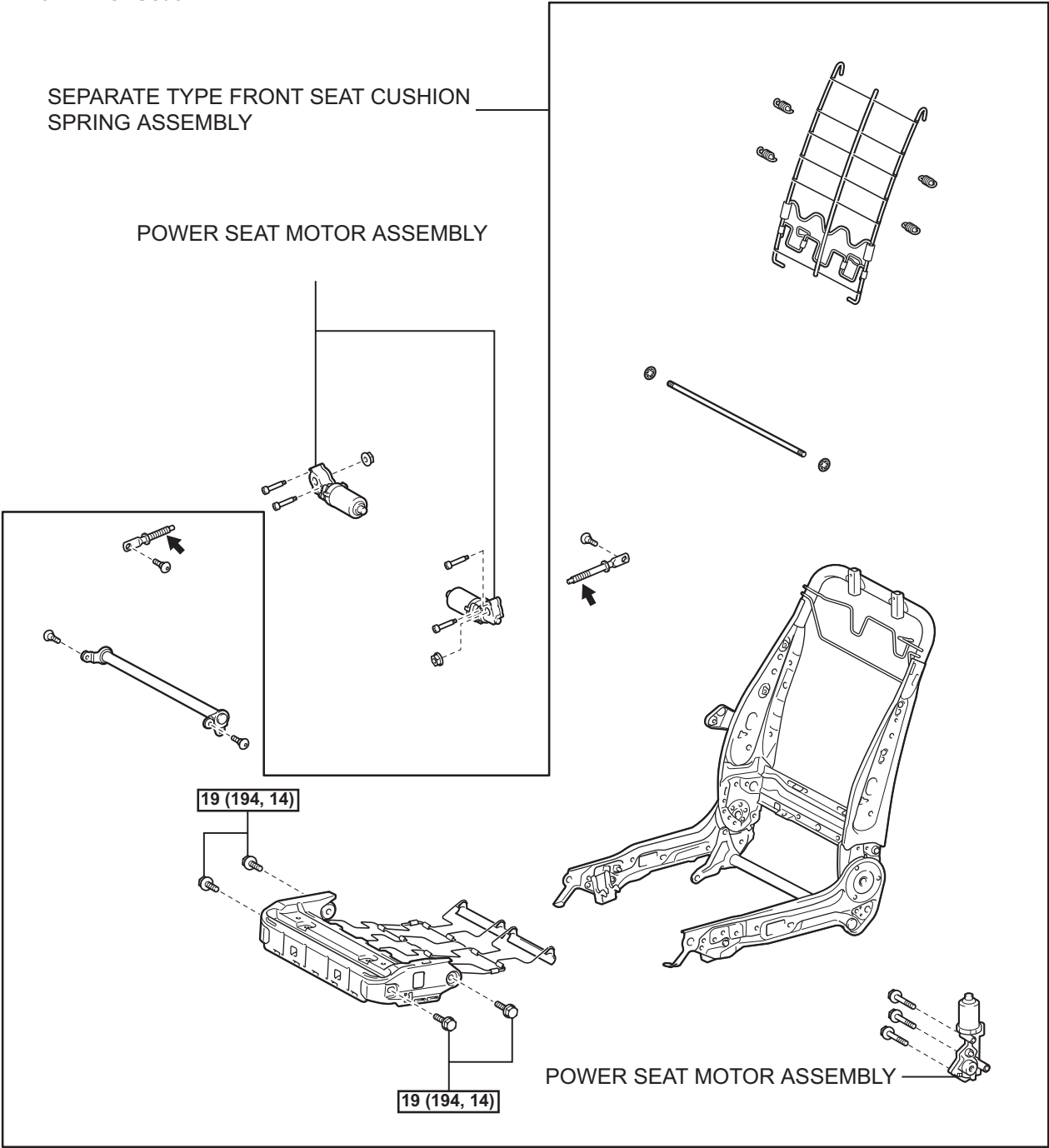
SE



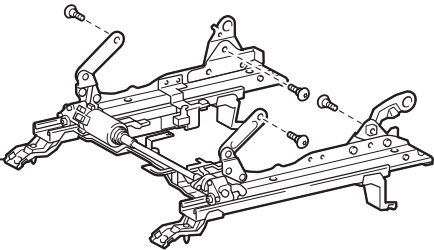
for Driver Seat:

SEPARATE TYPE FRONT SEAT CUSHION
SPRING ASSEMBLY

POWER SEAT MOTOR ASSEMBLY



FRONT SEAT TRACK ASSEMBLY OUTER



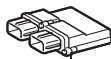
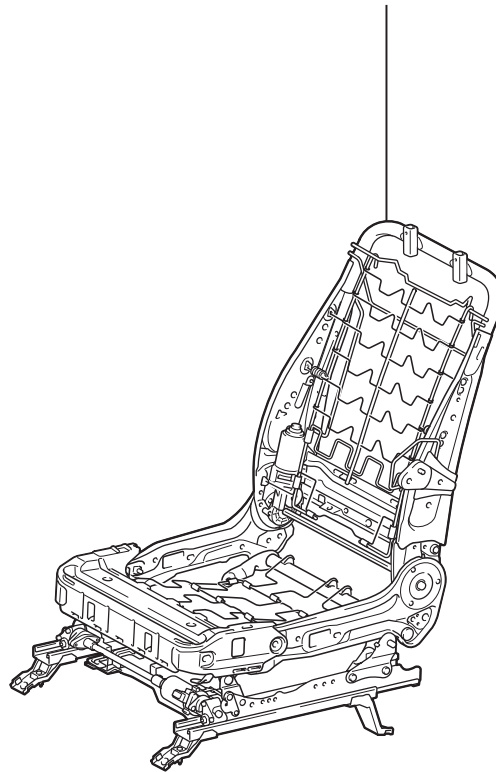
N*m (kgf*cm, ft.*lbf) : Specified torque

← Apply MP grease

SE

for Front Passenger Seat:

FRONT SEAT ADJUSTER SUB-ASSEMBLY RH



OCCUPANT CLASSIFICATION ECU

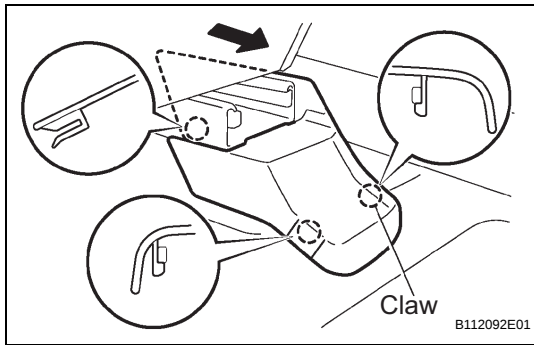
PROBLEM SYMPTOMS TABLE

HINT:

Use the table below, with suspected areas listed in numerical order, to determine the cause of the problem. Inspect and repair or replace parts as necessary according to the steps on the following pages.

1. SEAT HEATER SYSTEM

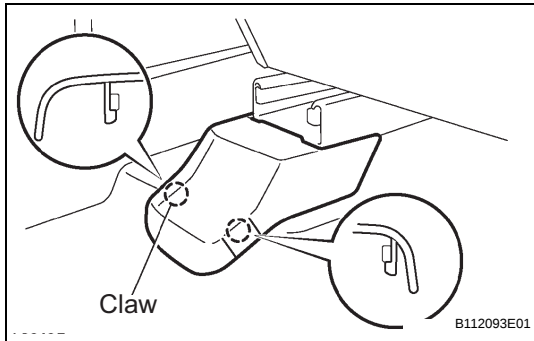
Symptom	Suspected area	See page
Seat heaters do not operate.	1. SEAT HTR fuse	-
	2. Seat heater switch	SE-82
	3. Front seat cushion heater (LH side)	SE-85
	4. Front seat cushion heater (RH side)	SE-85
	5. Front seatback heater (LH side)	SE-84
	6. Front seatback heater (RH side)	SE-84
	7. Seat heater control (LH side)	SE-86
	8. Seat heater control (RH side)	SE-86
	9. Wire harness or connector	-
Temperature of seat heater cannot be adjusted.	1. Seat heater switch	SE-82



REMOVAL

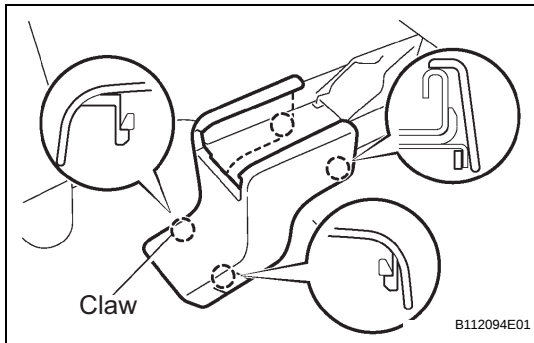
1. REMOVE SEAT TRACK BRACKET COVER OUTER FRONT LH

- (a) Move the front seat assembly to the rearmost position by operating the slide and vertical power seat switch knob.
- (b) Using a screwdriver, disengage the 3 claws and remove the seat track bracket cover outer front LH.
HINT:
Tape the screwdriver tip before use.



2. REMOVE SEAT TRACK BRACKET COVER INNER FRONT LH

- (a) Using a screwdriver, disengage the 2 claws and remove the seat track bracket cover inner front LH.
HINT:
Tape the screwdriver tip before use.



3. REMOVE SEAT TRACK COVER LH

- (a) Move the front seat assembly fully forward by operating the slide and vertical power seat switch knob.
- (b) Using a screwdriver, disengage the 4 claws and remove the seat track cover LH.
HINT:
Tape the screwdriver tip before use.

4. REMOVE SEAT TRACK COVER RH

- (a) Using a screwdriver, disengage the 4 claws and remove the seat track cover RH.
HINT:
Tape the screwdriver tip before use.

5. REMOVE FRONT SEAT ASSEMBLY

- (a) Move the front seat assembly to the rearmost position by operating the slide and vertical power seat switch knob.
- (b) Remove the 2 bolts on the front side.
- (c) Move the front seat assembly fully forward by operating the slide and vertical power seat switch knob.
- (d) Remove the 2 bolts on the rear side.
- (e) Move the front seat assembly to the center position and adjust the seatback to the vertical position by operating the slide and vertical power seat switch knob and the reclining power seat switch knob.
- (f) Turn the ignition switch to the LOCK position.

- (g) Disconnect the negative battery cable from the battery, and wait 90 seconds or more.

CAUTION:

Wait 90 seconds or more after disconnecting the negative terminal cable to prevent the airbag from working (see page [RS-1](#)).

- (h) Disconnect the connectors and clamp.
- (i) Remove the front seat assembly.

NOTICE:

When removing the passenger side front seat assembly, be careful not to step on the yaw rate sensor mounted on the floor under the seat.

DISASSEMBLY

1. REMOVE RECLINING POWER SEAT SWITCH KNOB

- (a) Using a screwdriver, remove the reclining power seat switch knob.

HINT:

Tape the screwdriver tip before use.

2. REMOVE SLIDE AND VERTICAL POWER SEAT SWITCH KNOB

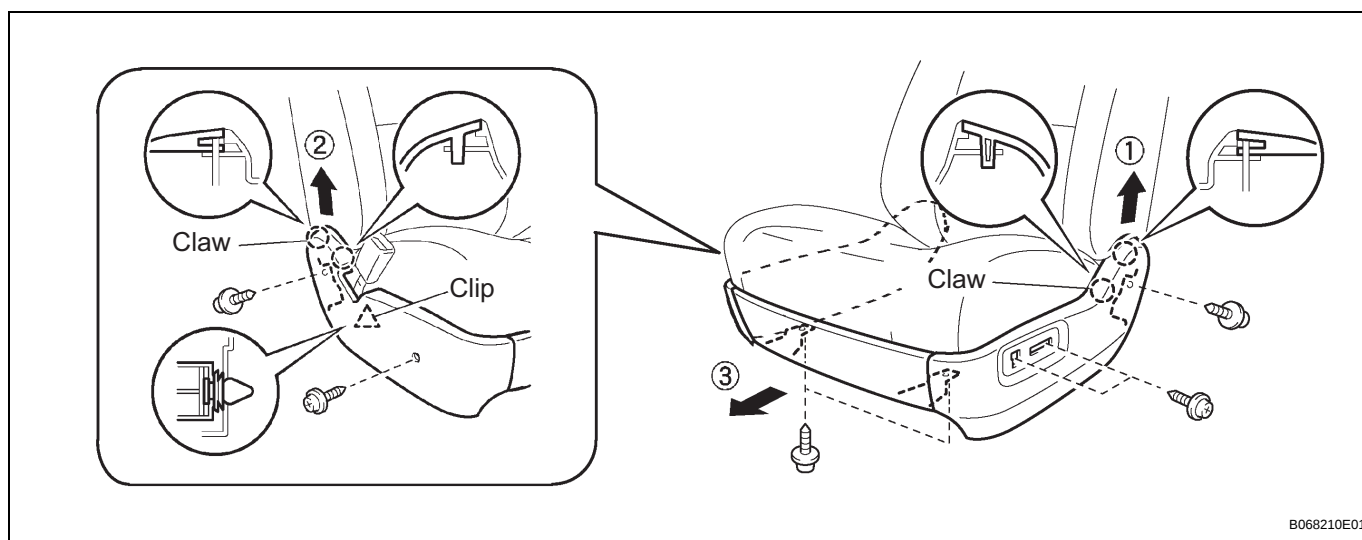
- (a) Using a screwdriver, remove the slide and vertical power seat switch knob.

HINT:

Tape the screwdriver tip before use.

3. REMOVE FRONT SEAT CUSHION SHIELD ASSEMBLY

- (a) Release the 2 rubber bands on the backside of the front seatback board sub-assembly.
- (b) Remove the 7 screws.
- (c) Disengage the 4 claws and clip, and remove the front seat cushion shield assembly as shown in the illustration.
- (d) Driver seat only:
- (1) Disconnect the power seat switch assembly connector.
- (e) Remove the front seat cushion shield assembly.



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4. REMOVE POWER SEAT SWITCH ASSEMBLY (for Driver Seat)

- (a) Remove the 2 screws and power seat switch assembly.

5. REMOVE FRONT SEAT CUSHION SHIELD

- (a) Remove the screw.
- (b) Disengage the claw and remove the front seat cushion shield.

6. REMOVE FRONT SEAT CUSHION SHIELD INNER

- (a) Remove the screw.

- (b) Disengage the claw and remove the front seat cushion shield inner.

7. REMOVE FRONT SEAT CUSHION SHIELD INNER NO.1

8. REMOVE FRONT POWER SEAT SWITCH

- (a) Disconnect the connector.
- (b) Remove the 3 screws and front power seat switch.

9. REMOVE FRONT SEAT INNER BELT ASSEMBLY (See page SB-15)

10. REMOVE SEPARATE TYPE FRONT SEAT CUSHION COVER WITH PAD

- (a) Using a clip remover, remove the 2 clips.
- (b) Using a screwdriver, raise the 2 claws on the cushion frame of the front seat adjuster RH.
HINT:
Tape the screwdriver tip before use.
- (c) With seat heater:
(1) Disconnect the connector.
- (d) Disengage the hooks and remove the hog rings and separate type front seat cushion cover with pad.

11. REMOVE SEPARATE TYPE FRONT SEAT CUSHION COVER

- (a) Remove the hog rings and separate type front seat cushion cover.

12. REMOVE SEPARATE TYPE FRONT SEAT CUSHION PAD

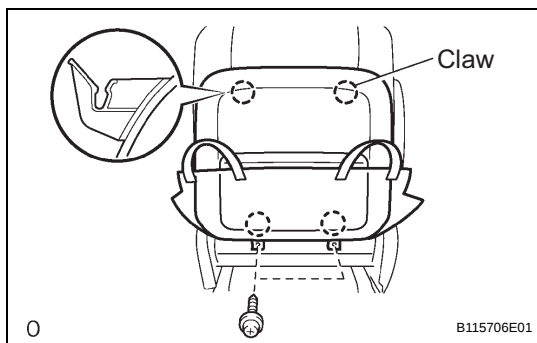
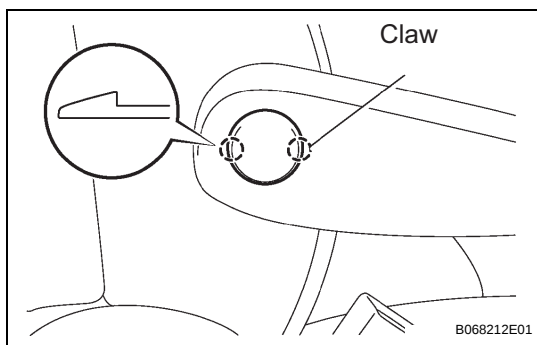
13. REMOVE FRONT SEAT HEADREST ASSEMBLY

14. REMOVE SEAT ARMREST COVER

- (a) Using a screwdriver, disengage the 2 claws and remove the seat armrest cover.
HINT:
Tape the screwdriver tip before use.

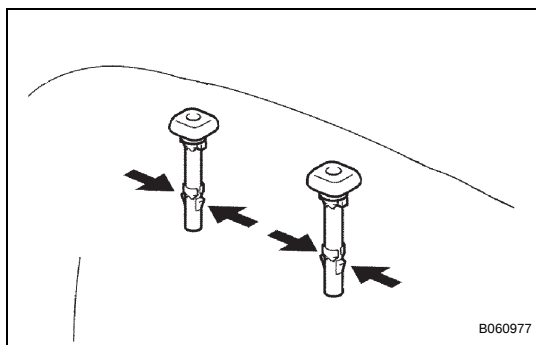
15. REMOVE SEAT ARMREST ASSEMBLY

- (a) Remove the bolt, 2 washers, and seat armrest assembly.



16. REMOVE FRONT SEATBACK BOARD SUB-ASSEMBLY

- (a) Remove the 2 screws.
- (b) Hold the lower side of the front seatback board sub-assembly with both hands and disengage the 2 claws on the lower side.
- (c) Hold the upper side of the front seatback board sub-assembly with both hands and disengage the 2 claws on the upper side and remove the front seatback board sub-assembly.

**17. REMOVE FRONT SEAT HEADREST SUPPORT**

- (a) Release the hook and turn back the upper part of the separate type front seatback cover so that access to the claws of the front seat headrest supports is possible.
- (b) Disengage the 2 claws and remove the front seat headrest support.

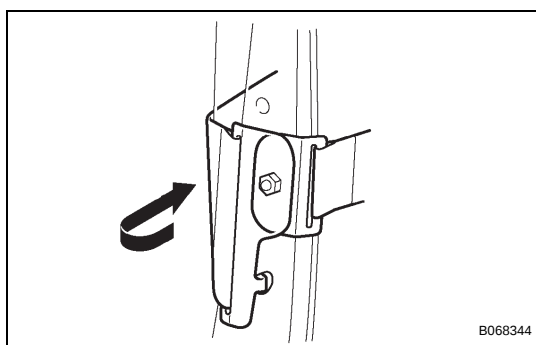
18. REMOVE FRONT SEAT HEADREST SUPPORT

HINT:

Use the same procedures for the RH side and LH side.

19. REMOVE SEPARATE TYPE FRONT SEATBACK COVER WITH PAD

- (a) With seat heater:
 - (1) Disconnect the connector.
- (b) Remove the nut and disconnect the separate type front seatback cover bracket.
- (c) Disengage the hook and remove the separate type front seatback cover bracket with pad.

**20. REMOVE SEPARATE TYPE FRONT SEATBACK COVER**

- (a) Remove the hog rings and separate type front seatback cover.

21. REMOVE LH SEAT RECLINING ADJUSTER INSIDE COVER

- (a) Remove the 2 screws and LH seat reclining adjuster inside cover.

22. REMOVE RH SEAT RECLINING ADJUSTER INSIDE COVER

HINT:

Use the same procedures for the RH side and LH side.

23. REMOVE RECLINING ADJUSTER INSIDE COVER LH

- (a) Remove the screw and reclining adjuster inside cover LH.

24. REMOVE RECLINING ADJUSTER INSIDE COVER RH

HINT:

Use the same procedures for the RH side and LH side.

25. REMOVE FRONT SEAT CUSHION SHIELD LOWER LH

- (a) Remove the screws and front seat cushion shield lower LH.

26. REMOVE FRONT SEAT CUSHION SHIELD LOWER RH

HINT:

Use the same procedures for the RH side and LH side.

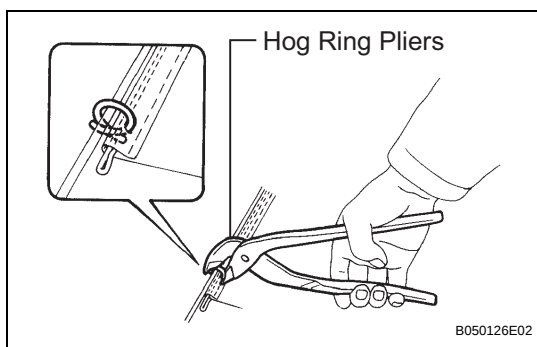
27. REMOVE LUMBAR SUPPORT ADJUSTER ASSEMBLY

- (a) Disconnect the connector.
- (b) Remove the 2 screws and lumbar support adjuster assembly.

- 28. REMOVE SEAT HEATER CONTROL SUB-ASSEMBLY (w/ Seat Heater System)**
 - (a) Disconnect the connector.
 - (b) Disengage the claw and remove the seat heater control sub-assembly.
- 29. REMOVE SEAT SLIDE POSITION SENSOR PROTECTOR (for Driver Seat) (See page RS-453)**
- 30. REMOVE SEAT POSITION SENSOR (for Driver Seat) (See page RS-453)**
- 31. REMOVE OCCUPANT CLASSIFICATION ECU (for Front Passenger Seat) (See page RS-457)**
- 32. REMOVE FRONT SEAT WIRE**
- 33. REMOVE FRONT SEAT SIDE AIRBAG ASSEMBLY**
 - (a) Disengage the clamps and remove the 2 nuts and front seat side airbag assembly.
- 34. REMOVE SEPARATE TYPE FRONT SEAT CUSHION SPRING ASSEMBLY (for Driver Seat)**
 - (a) Remove the 4 bolts and front seat cushion frame sub-assembly.
 - (b) Using a "torx" socket wrench (T40), remove the 4 "torx" bolts and separate type front seat cushion spring assembly.
- 35. REMOVE POWER SEAT MOTOR ASSEMBLY (for Driver Seat)**
 - (a) Reclining motor:
 - (1) Remove the 2 rings.
 - (2) Remove the shaft.
 - (3) Using a hexagon wrench 4.0 mm (0.15 in.), remove the 3 hexagon bolts and power seat motor assembly.
 - (b) Front vertical motor:
 - (1) Using a "torx" socket wrench (T40), remove the 3 "torx" bolts and pipe.
 - (2) Using a hexagon wrench 4.0 mm (0.15 in.), remove the 2 hexagon bolts and power seat motor assembly with shaft.
 - (3) Using needle nose pliers and remove the nut, shaft and power seat motor assembly.
 - (c) Slide motor:
 - (1) Using a "torx" socket wrench (T40), remove the "torx" bolt.
 - (2) Using a hexagon wrench 4.0 mm (0.15 in.), remove the 2 hexagon bolts and power seat motor assembly with shaft.
 - (3) Using needle nose pliers and remove the nut, shaft and power seat motor assembly.
- 36. REMOVE FRONT SEAT TRACK ASSEMBLY OUTER (for Driver Seat)**
- 37. REMOVE FRONT SEAT ADJUSTER SUB-ASSEMBLY RH (for Front Passenger Seat)**

REASSEMBLY

1. **INSTALL FRONT SEAT ADJUSTER SUB-ASSEMBLY RH (for Front Passenger Seat)**
2. **INSTALL FRONT SEAT TRACK ASSEMBLY OUTER (for Driver Seat)**
3. **INSTALL POWER SEAT MOTOR ASSEMBLY (for Driver Seat)**
4. **INSTALL SEPARATE TYPE FRONT SEAT CUSHION SPRING ASSEMBLY (for Driver Seat)**
 - (a) Using a "torx" socket wrench (T40), install the separate type front seat cushion spring assembly with the 4 "torx" bolts.
 - (b) Install the front seat cushion frame sub-assembly with the 4 bolts.
Torque: 19 N*m (194 kgf*cm, 14 ft.*lbf)
5. **INSTALL FRONT SEAT SIDE AIRBAG ASSEMBLY**
 - (a) Install the front seat side airbag assembly with the 2 nuts.
Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)
 - (b) Install the clamps.
6. **INSTALL FRONT SEAT WIRE**
7. **INSTALL OCCUPANT CLASSIFICATION ECU (for Front Passenger Seat) (See page [RS-457](#))**
8. **INSTALL SEAT POSITION SENSOR (for Driver Seat) (See page [RS-454](#))**
9. **INSTALL SEAT SLIDE POSITION SENSOR PROTECTOR (for Driver Seat)**
10. **INSTALL SEAT HEATER CONTROL SUB-ASSEMBLY (w/ Seat Heater System)**
11. **INSTALL LUMBAR SUPPORT ADJUSTER ASSEMBLY**
12. **INSTALL FRONT SEAT CUSHION SHIELD LOWER RH**
13. **INSTALL FRONT SEAT CUSHION SHIELD LOWER LH**
14. **INSTALL RECLINING ADJUSTER INSIDE COVER RH**
15. **INSTALL RECLINING ADJUSTER INSIDE COVER LH**
16. **INSTALL RH SEAT RECLINING ADJUSTER INSIDE COVER**
17. **INSTALL LH SEAT RECLINING ADJUSTER INSIDE COVER**



18. INSTALL SEPARATE TYPE FRONT SEATBACK COVER

- (a) Using hog ring pliers, install the separate type front seatback cover to the separate type front seatback pad with new hog rings.

NOTICE:

- Be careful not to damage the cover.
- When installing the hog rings, take care to minimize wrinkles as much as possible.

19. INSTALL SEPARATE TYPE FRONT SEATBACK COVER WITH PAD

- (a) Install the separate type front seatback cover with pad to the separate type front seat cushion spring assembly.

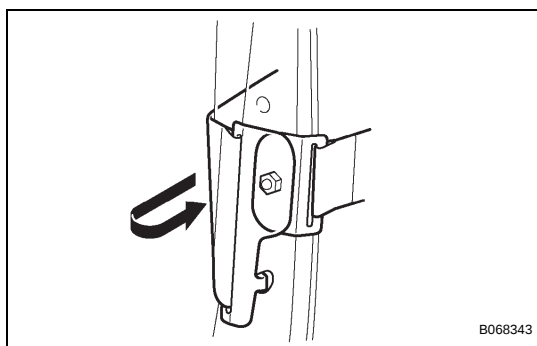
- (b) Install the separate type front seatback cover bracket with the nut.

Torque: 5.6 N*m (57 kgf*cm, 50 in.*lbf)

NOTICE:

- For vehicles with side airbags, the side airbags may not be activated normally unless the separate type front seatback cover is securely installed.
- Check that the strap is not twisted after installing the bracket.
- Install the bracket securely.

- (c) Install the hook.



20. INSTALL FRONT SEAT HEADREST SUPPORT

21. INSTALL FRONT SEAT HEADREST SUPPORT

22. INSTALL FRONT SEATBACK BOARD SUB-ASSEMBLY

23. INSTALL SEAT ARMREST ASSEMBLY

- (a) Install the seat armrest assembly with the bolt and 2 washers.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

24. INSTALL SEAT ARMREST COVER

25. INSTALL FRONT SEAT HEADREST ASSEMBLY

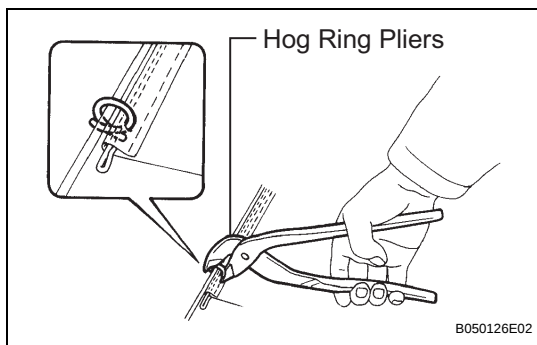
26. INSTALL SEPARATE TYPE FRONT SEAT CUSHION PAD

27. INSTALL SEPARATE TYPE FRONT SEAT CUSHION COVER

- (a) Using hog ring pliers, install the separate type front seat cushion cover to the separate type front seat cushion pad with new hog rings.

NOTICE:

- Be careful not to damage the cover.
- When installing the hog rings, take care to minimize wrinkles as much as possible.



28. INSTALL SEPARATE TYPE FRONT SEAT CUSHION COVER WITH PAD

29. INSTALL FRONT SEAT INNER BELT ASSEMBLY (See page [SB-16](#))
30. INSTALL FRONT POWER SEAT SWITCH
31. INSTALL FRONT SEAT CUSHION SHIELD INNER NO.1
32. INSTALL FRONT SEAT CUSHION SHIELD INNER
33. INSTALL FRONT SEAT CUSHION SHIELD
34. INSTALL POWER SEAT SWITCH ASSEMBLY (for Driver Seat)
35. INSTALL FRONT SEAT CUSHION SHIELD ASSEMBLY
36. INSTALL SLIDE AND VERTICAL POWER SEAT SWITCH KNOB
37. INSTALL RECLINING POWER SEAT SWITCH KNOB

INSTALLATION

1. INSTALL FRONT SEAT ASSEMBLY

- (a) Place the front seat assembly in the vehicle and align the adjuster pin with the hole on the vehicle side.

NOTICE:

When installing the passenger side front seat assembly, be careful not to step on the yaw rate sensor mounted on the floor under the seat.

- (b) Connect the connector.
- (c) Install the clamp.
- (d) Connect the negative battery cable.
- (e) Move the front seat assembly to the rearmost position by operating the slide and vertical power seat switch knob.

NOTICE:

Check that the seat is locked.

- (f) Temporarily install the front side of the front seat assembly with the 2 bolts.
- (g) Move the front seat assembly fully forward by operating the slide and vertical power seat switch knob.

NOTICE:

Check that the seat is locked.

- (h) Temporarily install the rear side of the front seat assembly with the 2 bolts.
- (i) Move the front seat assembly to the rearmost position by operating the slide and vertical power seat switch knob.

NOTICE:

Check that the seat is locked.

- (j) Fully tighten the 2 bolts on the front side of the front seat assembly in the order of the inner side bolt and then the outer side bolt.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

- (k) Move the front seat assembly fully forward by operating the slide and vertical power seat switch knob.

NOTICE:

Check that the seat is locked.

- (l) Fully tighten the 2 bolts on the rear side of the front seat assembly in the order of the inner side bolt and then the outer side bolt.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

2. INSTALL SEAT TRACK COVER RH

3. INSTALL SEAT TRACK COVER LH

4. INSTALL SEAT TRACK BRACKET COVER INNER FRONT LH

5. INSTALL SEAT TRACK BRACKET COVER OUTER FRONT LH

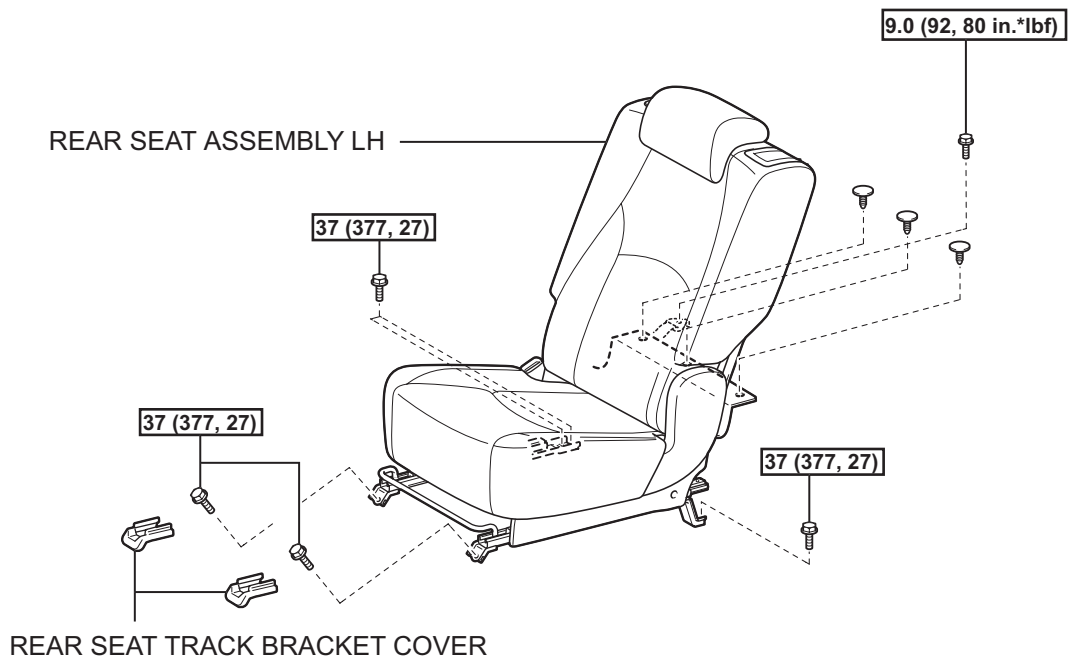
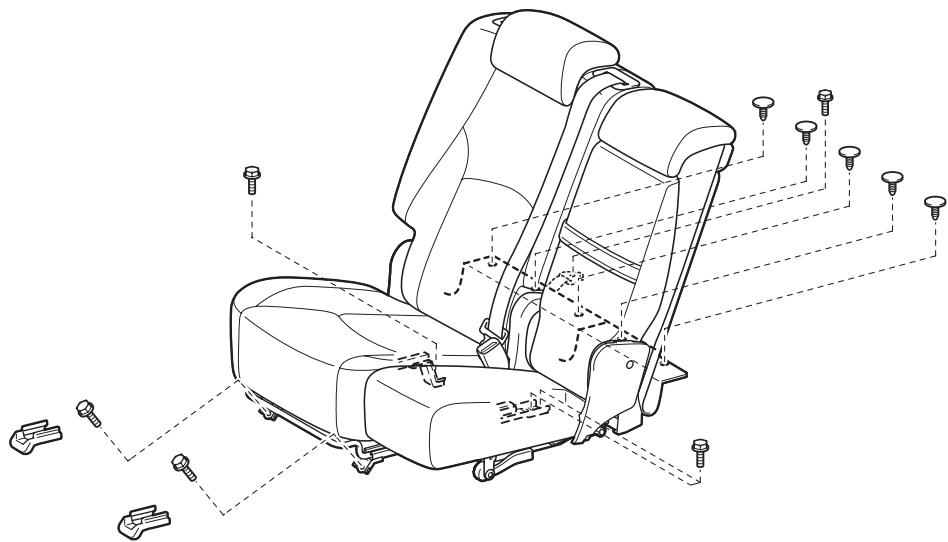
6. PERFORM INITIALIZATION

Some systems need initialization when disconnecting the cable from the negative battery cable.

7. CHECK POWER SEAT FUNCTION (See page [SE-14](#))**8. INSPECT SEAT HEATER OPERATION****9. INSPECT SRS WARNING LIGHT**
(See page [RS-25](#))

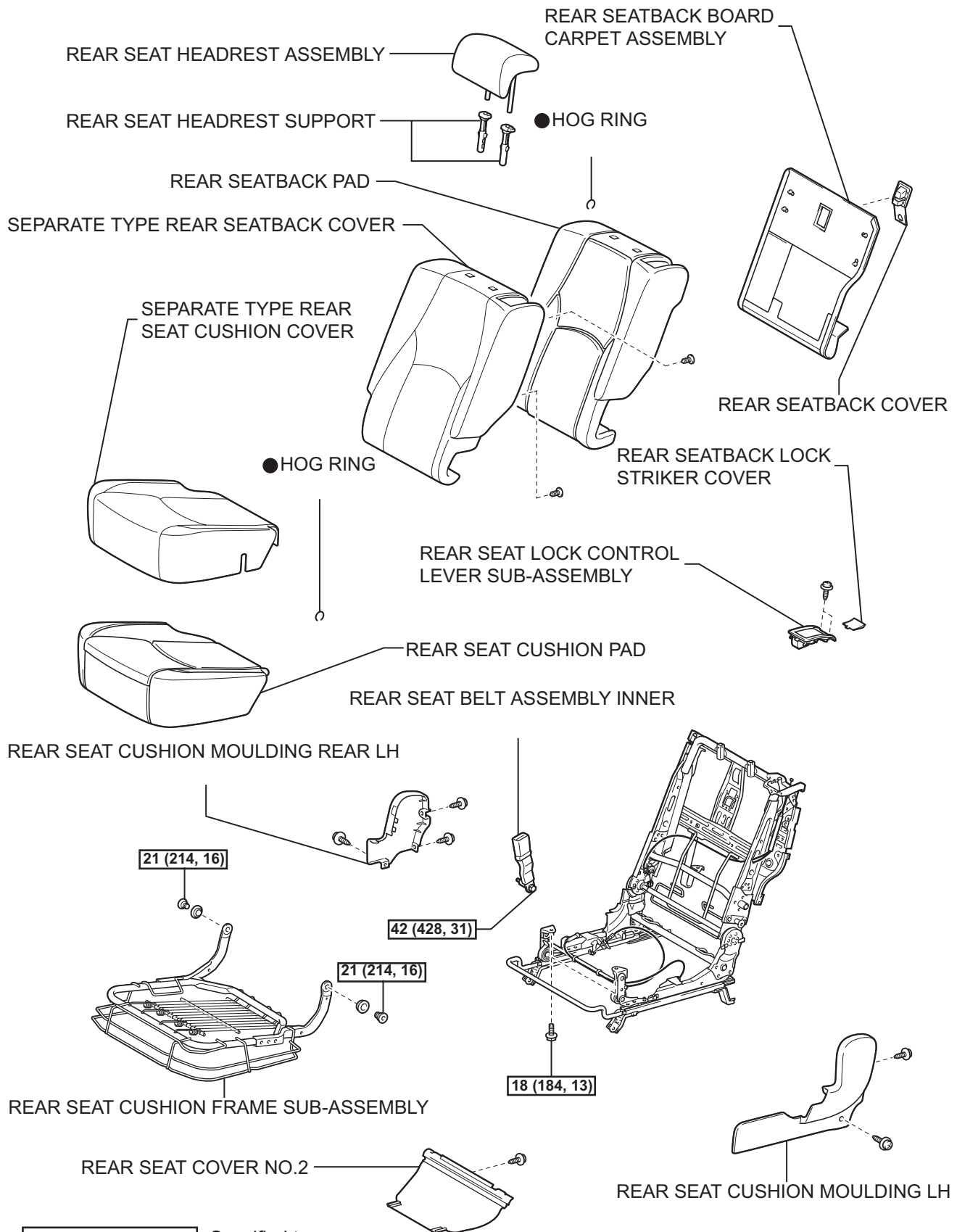
REAR SEAT ASSEMBLY (for LH Side)

COMPONENTS

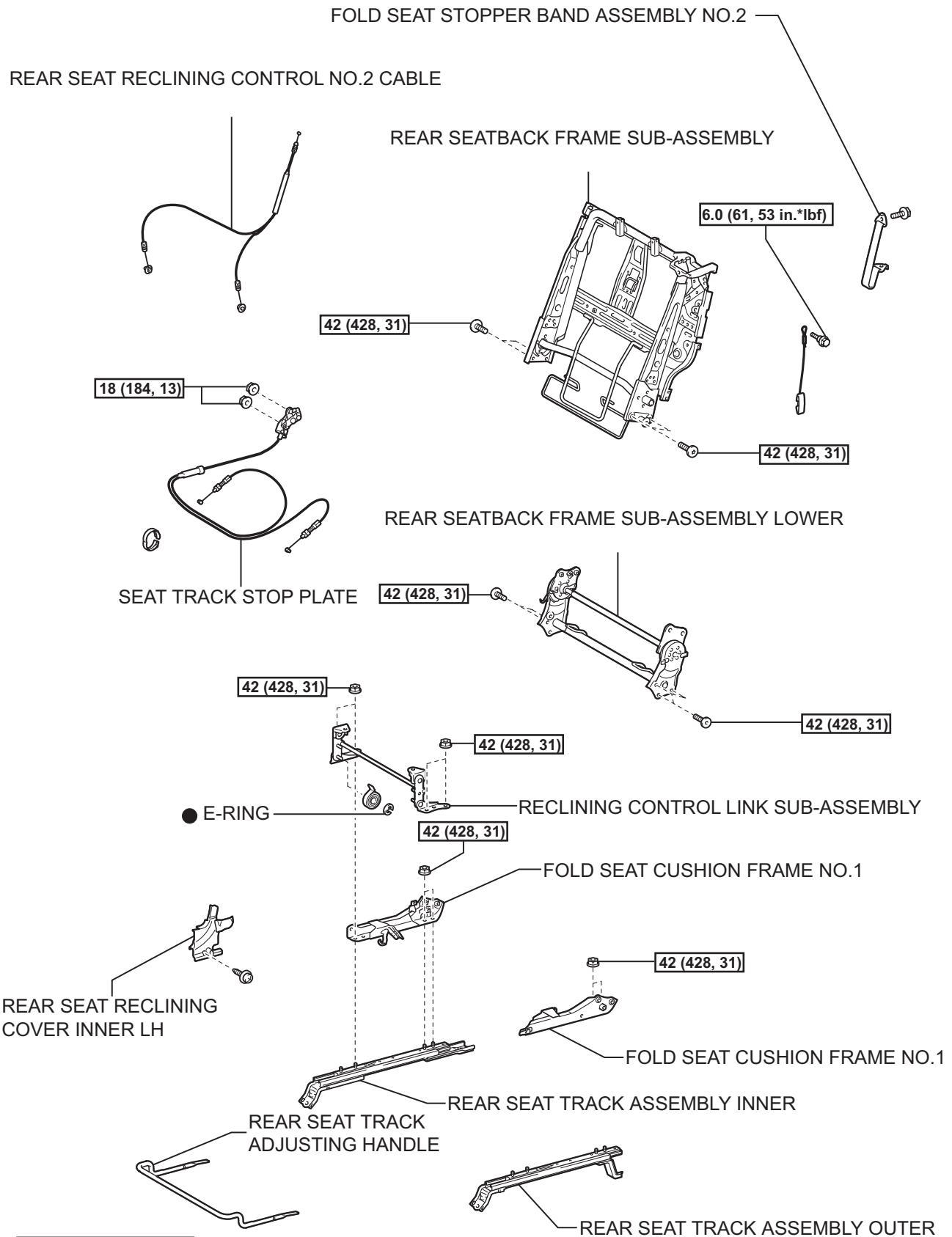


N*m (kgf*cm, ft.*lbf): Specified torque

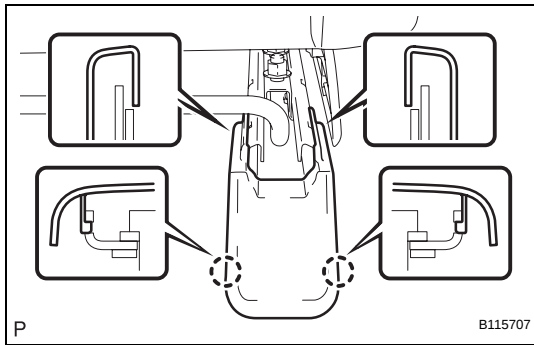
SE



SE



SE



REMOVAL

1. REMOVE REAR SEAT TRACK BRACKET COVER

- Move the rear seat assembly LH to the rearmost position by operating the rear seat track adjusting handle.
- Using a screwdriver, disengage the 4 claws.
HINT:
Tape the screwdriver tip before use.
- Pull the 2 rear seat track bracket covers toward the rear of the vehicle and remove them.

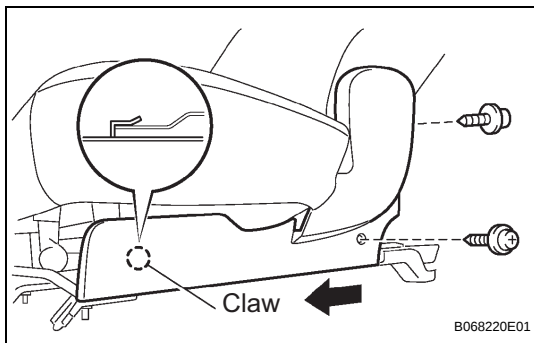
2. REMOVE REAR SEAT ASSEMBLY LH

- Using a clip remover, remove the 3 clips.
- Remove the bolt and disconnect the floor anchor side of the fold seat stopper band assembly No.2.
- Move the rear seat assembly LH to the rearmost position by operating the rear seat track adjusting handle.
- Remove the 2 bolts on the front side.
- Move the rear seat assembly LH fully forward by operating the rear seat track adjusting handle.
- Remove the 3 bolts on the rear side.
- Move the rear seat assembly LH to the center position and adjust the seatback to the vertical position.
- Remove the rear seat assembly LH.

DISASSEMBLY

1. REMOVE REAR SEAT CUSHION MOULDING LH

- Remove the 2 screws.
- Disengage the claw and remove the rear seat cushion moulding LH as shown in the illustration.

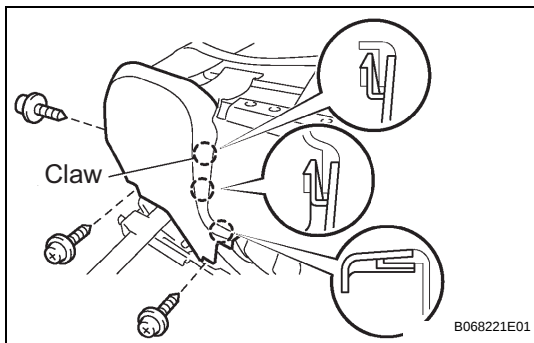


2. REMOVE REAR SEAT CUSHION MOULDING REAR LH

- Remove the 3 screws.
- Disengage the 3 claws and remove the rear seat cushion moulding rear LH.

3. REMOVE SEPARATE TYPE REAR SEAT CUSHION ASSEMBLY

- Using a "torx" socket wrench (T45), remove the 2 "torx" bolts.
- Release the 2 rubber bands on the backside of the rear seatback board carpet assembly.
- Remove the hog rings.
- Remove the 2 bolts and separate type rear seat cushion assembly.



4. REMOVE REAR SEAT CUSHION FRAME SUB-ASSEMBLY

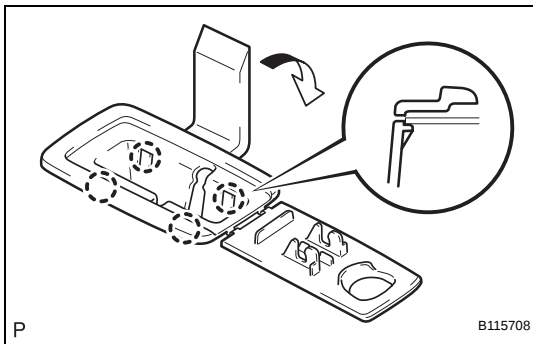
- (a) Disengage the hooks and remove the hog rings and rear seat cushion frame sub-assembly.

5. REMOVE SEPARATE TYPE REAR SEAT CUSHION COVER

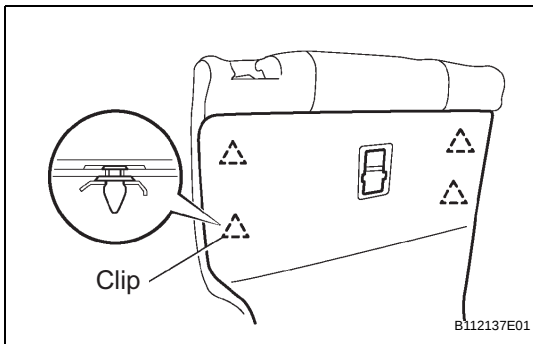
- (a) Remove the hog rings and separate type rear seat cushion cover.

6. REMOVE REAR SEAT CUSHION PAD**7. REMOVE REAR SEAT BELT ASSEMBLY INNER (See page [SB-28](#))****8. REMOVE REAR SEAT HEADREST ASSEMBLY****9. REMOVE REAR SEATBACK COVER**

- (a) Using a moulding remover, disengage the 4 claws and remove the rear seatback cover.

**10. REMOVE REAR SEATBACK BOARD CARPET ASSEMBLY**

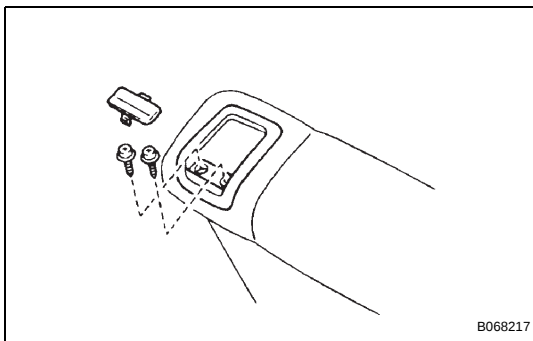
- (a) Disengage the 4 clips and remove the rear seatback board carpet assembly.

**11. REMOVE REAR SEATBACK LOCK STRIKER COVER**

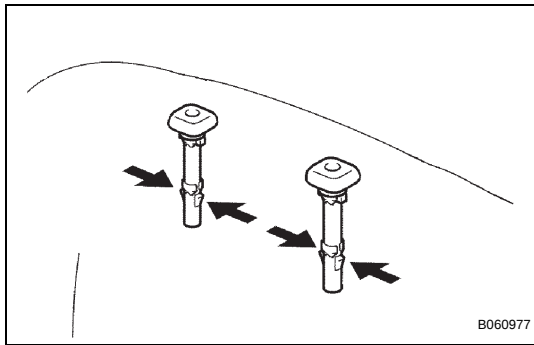
- (a) Using a screwdriver, disengage the 2 claws and remove the rear seatback lock striker cover.

HINT:

Tape the screwdriver tip before use.

**12. REMOVE REAR SEAT LOCK CONTROL LEVER SUB-ASSEMBLY**

- (a) Remove the 2 screws.
(b) Disconnect the rear seat reclining control No.2 cable and remove the rear seat lock control lever sub-assembly.

**13. REMOVE REAR SEAT HEADREST SUPPORT**

- (a) Disengage the 2 claws and remove the rear seat headrest support (LH side).

14. REMOVE REAR SEAT HEADREST SUPPORT

HINT:

Use the same procedures described for the LH side.

15. REMOVE SEPARATE TYPE REAR SEATBACK COVER WITH PAD

- (a) Remove the 2 clips.
- (b) Remove the bolt and rear seat belt hook.
- (c) Disengage the hooks and remove the hog rings and separate type rear seatback cover with pad.

16. REMOVE SEPARATE TYPE REAR SEATBACK COVER

- (a) Remove the hog rings and separate type rear seatback cover.

17. REMOVE REAR SEATBACK PAD**18. REMOVE FOLD SEAT STOPPER BAND ASSEMBLY NO.2**

- (a) Remove the bolt and fold seat stopper band assembly No.2.

19. REMOVE REAR SEAT RECLINING COVER INNER LH

- (a) Remove the screw.
- (b) Disengage the claw and remove the rear seat reclining cover inner LH.

20. REMOVE REAR SEAT COVER NO.2

- (a) Remove the screw and rear seat cover No.2.

21. REMOVE REAR SEAT RECLINING CONTROL NO.2 CABLE

- (a) Disconnect the 2 cables and remove the rear seat reclining control No.2 cable.

22. REMOVE REAR SEATBACK FRAME SUB-ASSEMBLY

- (a) Using a "torx" socket wrench (T45), remove the 4 "torx" bolts and rear seatback frame sub-assembly.

23. REMOVE SEAT TRACK STOP PLATE

- (a) Remove the clamp.
- (b) Disconnect the 2 seat track stop plate cables.
- (c) Remove the 2 nuts and seat track stop plate.

24. REMOVE RECLINING CONTROL LINK SUB-ASSEMBLY

- (a) Remove the E-ring and spring.
- (b) Remove the 4 nuts and reclining control link sub-assembly.

25. REMOVE REAR SEATBACK FRAME SUB-ASSEMBLY LOWER

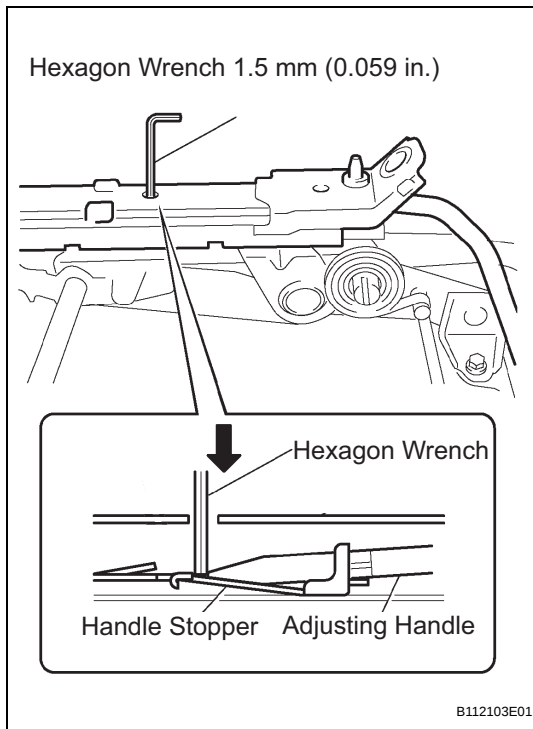
- (a) Using a "torx" socket wrench (T45), remove the 5 "torx" bolts and rear seatback frame sub-assembly lower.

26. REMOVE FOLD SEAT CUSHION FRAME NO.1

- (a) Remove the 4 nuts and 2 fold seat cushion frame No.1s.

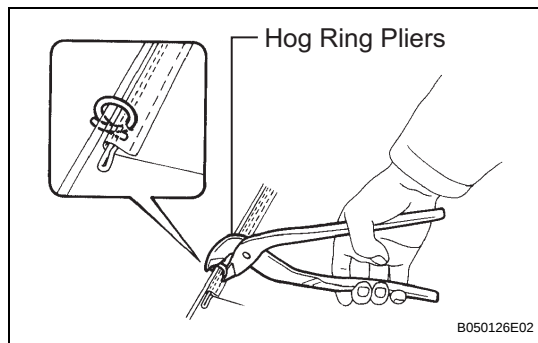
27. REMOVE REAR SEAT TRACK ADJUSTING HANDLE

- (a) Move the rear seat track assembly outer and rear seat track assembly inner fully forward by operating the rear seat track adjusting handle.
- (b) Using a hexagon wrench 1.5 mm (0.059 in.), push down the 2 handle stoppers as shown in the illustration and remove the rear seat track adjusting handle.

28. REMOVE REAR SEAT TRACK ASSEMBLY OUTER**29. REMOVE REAR SEAT TRACK ASSEMBLY INNER**

REASSEMBLY

1. **INSTALL REAR SEAT TRACK ASSEMBLY INNER**
2. **INSTALL REAR SEAT TRACK ASSEMBLY OUTER**
3. **INSTALL REAR SEAT TRACK ADJUSTING HANDLE**
4. **INSTALL FOLD SEAT CUSHION FRAME NO.1**
 - (a) Install the 2 fold seat cushion frame No.1 with the 4 nuts.
Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)
5. **INSTALL REAR SEATBACK FRAME SUB-ASSEMBLY LOWER**
 - (a) Using a "torx" socket wrench (T45), install the rear seatback frame sub-assembly lower with the 5 "torx" bolts.
Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)
6. **INSTALL RECLINING CONTROL LINK SUB-ASSEMBLY**
 - (a) Install the reclining control link sub-assembly with the 4 nuts.
Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)
 - (b) Install a new E-ring and spring.
7. **INSTALL SEAT TRACK STOP PLATE**
 - (a) Install the seat track stop plate with the 2 nuts.
Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)
 - (b) Install the 2 seat track stop plate cables.
 - (c) Install the clamp.
8. **INSTALL REAR SEATBACK FRAME SUB-ASSEMBLY**
 - (a) Using a "torx" socket wrench (T45), install the rear seatback frame sub-assembly with the 4 "torx" bolts.
Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)
9. **INSTALL REAR SEAT RECLINING CONTROL NO.2 CABLE**
10. **INSTALL REAR SEAT COVER NO.2**
11. **INSTALL REAR SEAT RECLINING COVER INNER LH**
12. **INSTALL FOLD SEAT STOPPER BAND ASSEMBLY NO.2**
13. **INSTALL REAR SEATBACK PAD**
14. **INSTALL SEPARATE TYPE REAR SEATBACK COVER**
 - (a) Using hog ring pliers, install the separate type rear seatback cover to the rear seatback pad with new hog rings.
NOTICE:
 - Be careful not to damage the cover.
 - When installing the hog rings, take care to minimize wrinkles as much as possible.



15. INSTALL SEPARATE TYPE REAR SEATBACK COVER WITH PAD

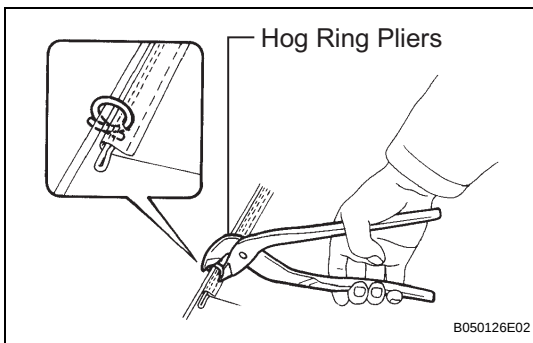
- (a) Install the separate type rear seatback cover with pad to the rear seatback frame sub-assembly.
- (b) Install the hook and new hog rings.
- (c) Install the rear seat belt hook with the bolt.
Torque: 6.0 N*m (61 kgf*cm, 53 in.*lbf)
- (d) Install the 2 clips.

16. INSTALL REAR SEAT HEADREST SUPPORT**17. INSTALL REAR SEAT HEADREST SUPPORT****18. INSTALL REAR SEAT LOCK CONTROL LEVER SUB-ASSEMBLY****19. INSTALL REAR SEATBACK LOCK STRIKER COVER****20. INSTALL REAR SEATBACK BOARD CARPET ASSEMBLY****21. INSTALL REAR SEATBACK COVER****22. INSTALL REAR SEAT HEADREST ASSEMBLY****23. INSTALL REAR SEAT BELT ASSEMBLY INNER (See page [SB-28](#))****24. INSTALL REAR SEAT CUSHION PAD****25. INSTALL SEPARATE TYPE REAR SEAT CUSHION COVER**

- (a) Using hog ring pliers, install the separate type rear seat cushion cover to the rear seat cushion pad with new hog rings.

NOTICE:

- Be careful not to damage the cover.
- When installing the hog rings, take care to minimize wrinkles as much as possible.

**26. INSTALL REAR SEAT CUSHION FRAME SUB-ASSEMBLY****27. INSTALL SEPARATE TYPE REAR SEAT CUSHION ASSEMBLY**

- (a) Install the 2 bolts.
Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)
- (b) Install the 2 rubber bands on the backside of the rear seatback board carpet assembly.
- (c) Using a "torx" socket wrench (T45), install the separate type rear seat cushion assembly with the 2 "torx" bolts.

Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf)**28. INSTALL REAR SEAT CUSHION MOULDING REAR LH****29. INSTALL REAR SEAT CUSHION MOULDING LH**

INSTALLATION

1. INSTALL REAR SEAT ASSEMBLY LH

- (a) Place the rear seat assembly LH in the vehicle and align the adjuster pin with the hole on the vehicle side.

- (b) Move the rear seat assembly LH to the rearmost position by operating the rear seat track adjusting handle.

NOTICE:

Check that the seat is locked.

- (c) Temporarily install the front side of the rear seat assembly LH with the 2 bolts.
- (d) Recline the separate rear seatback forward by operating the rear seat lock control lever sub-assembly.
- (e) Move the rear seat assembly LH fully forward.

NOTICE:

Check that the seat is locked.

- (f) Temporarily install the rear side of the rear seat assembly LH with the 3 bolts.
- (g) Return the separate rear seatback to the upright position.
- (h) Move the rear seat assembly LH to the rearmost position by operating the rear seat track adjusting handle.

NOTICE:

Check that the seat is locked.

- (i) Fully tighten the 2 bolts on the front side of the rear seat assembly LH in the order of the inner side bolt and then the outer side bolt.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

- (j) Recline the separate rear seatback forward by operating the rear seat lock control lever sub-assembly.
- (k) Move the rear seat assembly LH fully forward.

NOTICE:

Check that the seat is locked.

- (l) Fully tighten the 3 bolts on the rear side of the rear seat assembly LH in the order of the inner rear side bolt, the inner front side bolt, and then the outer side bolt.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

- (m) Return the separate rear seatback to the upright position.
- (n) Move the rear seat assembly LH to the rearmost position by operating the rear seat track adjusting handle.

NOTICE:

Check that the seat is locked.

- (o) Install the floor anchor side of the fold seat stopper band assembly No.2 with the bolt.

Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)

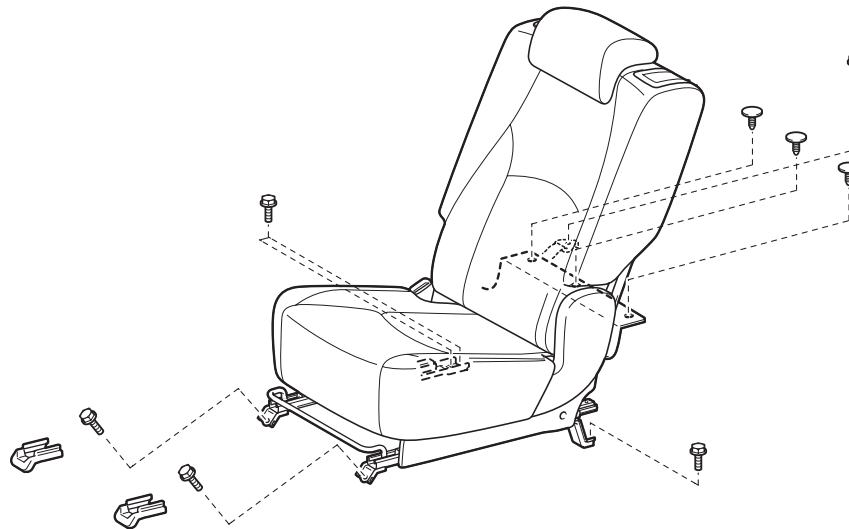
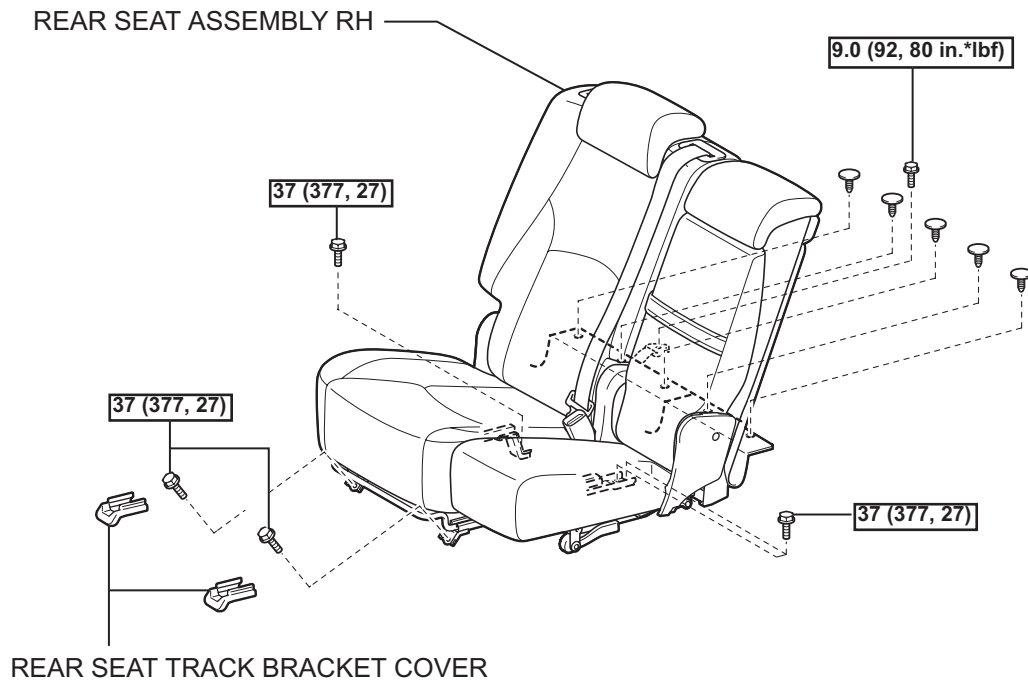
- (p) Install the 3 clips.

2. INSTALL REAR SEAT TRACK BRACKET COVER**3. INSPECT SLIDE ADJUSTER LOCK**

- (a) Check that the left and right adjusters lock simultaneously when sliding the seat.
- (b) If the left and right adjusters do not lock simultaneously, adjust by loosening the bolts securing the seat.

REAR SEAT ASSEMBLY (for RH Side)

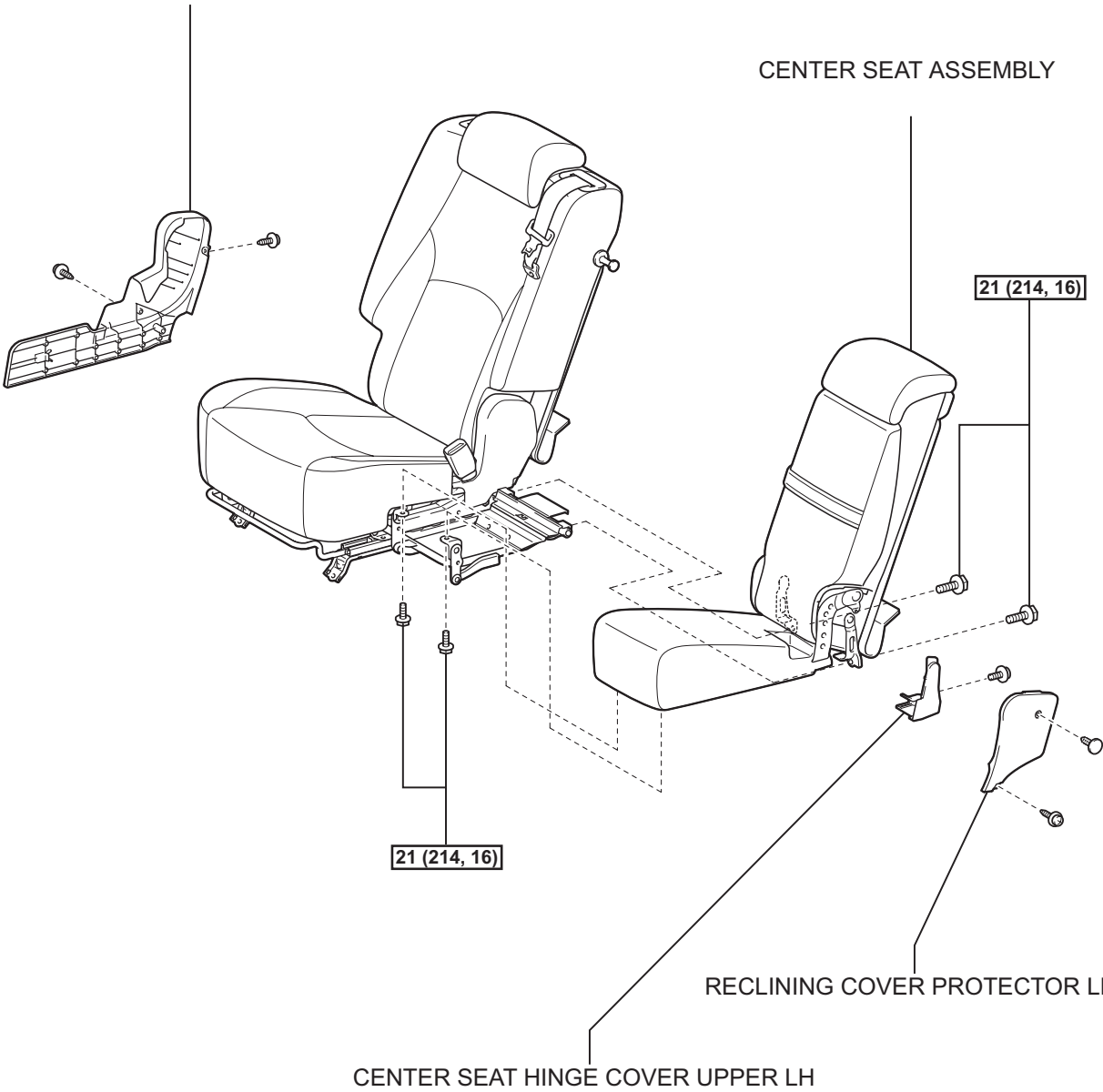
COMPONENTS



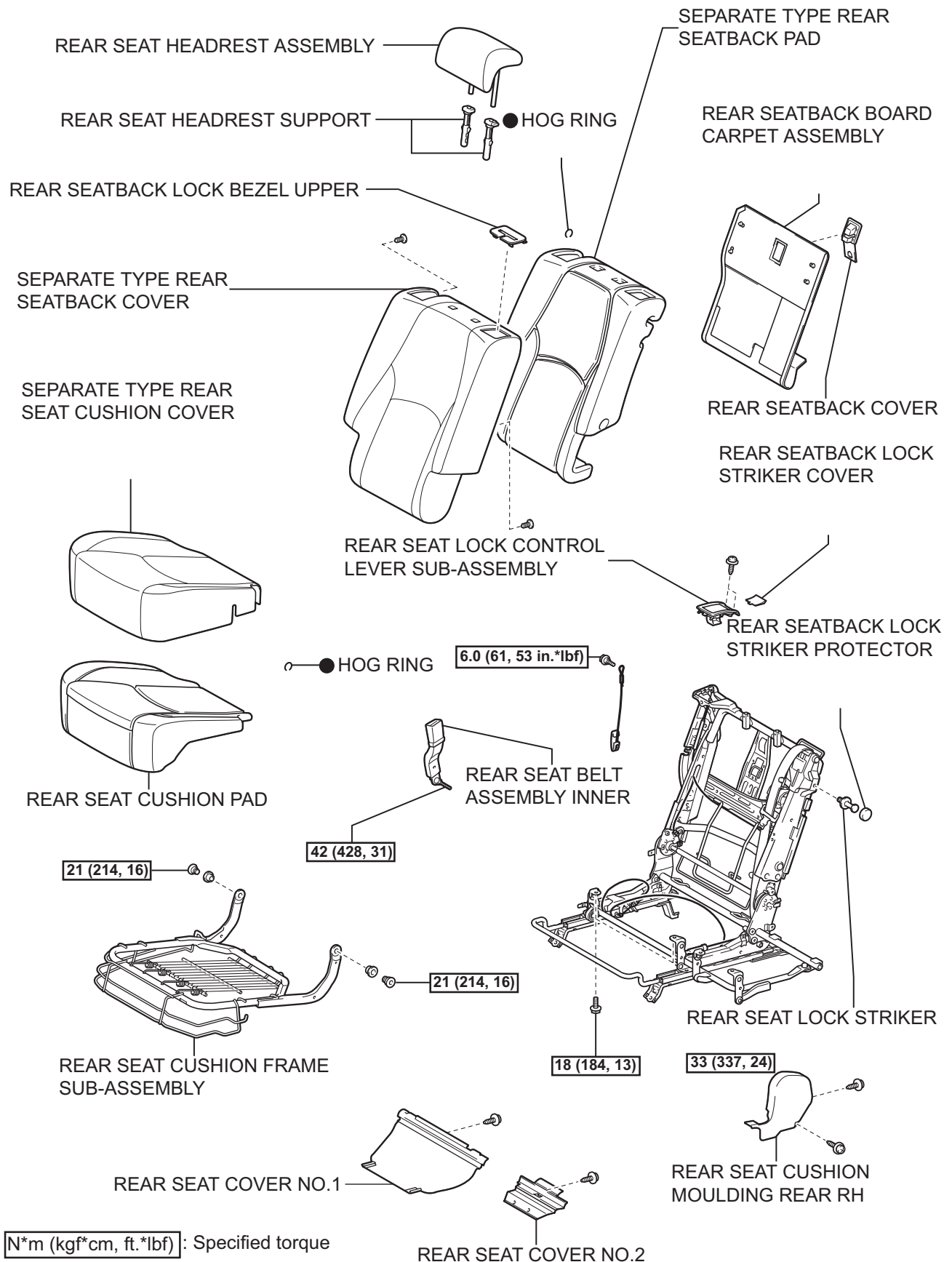
N*m (kgf*cm, ft.*lbf): Specified torque

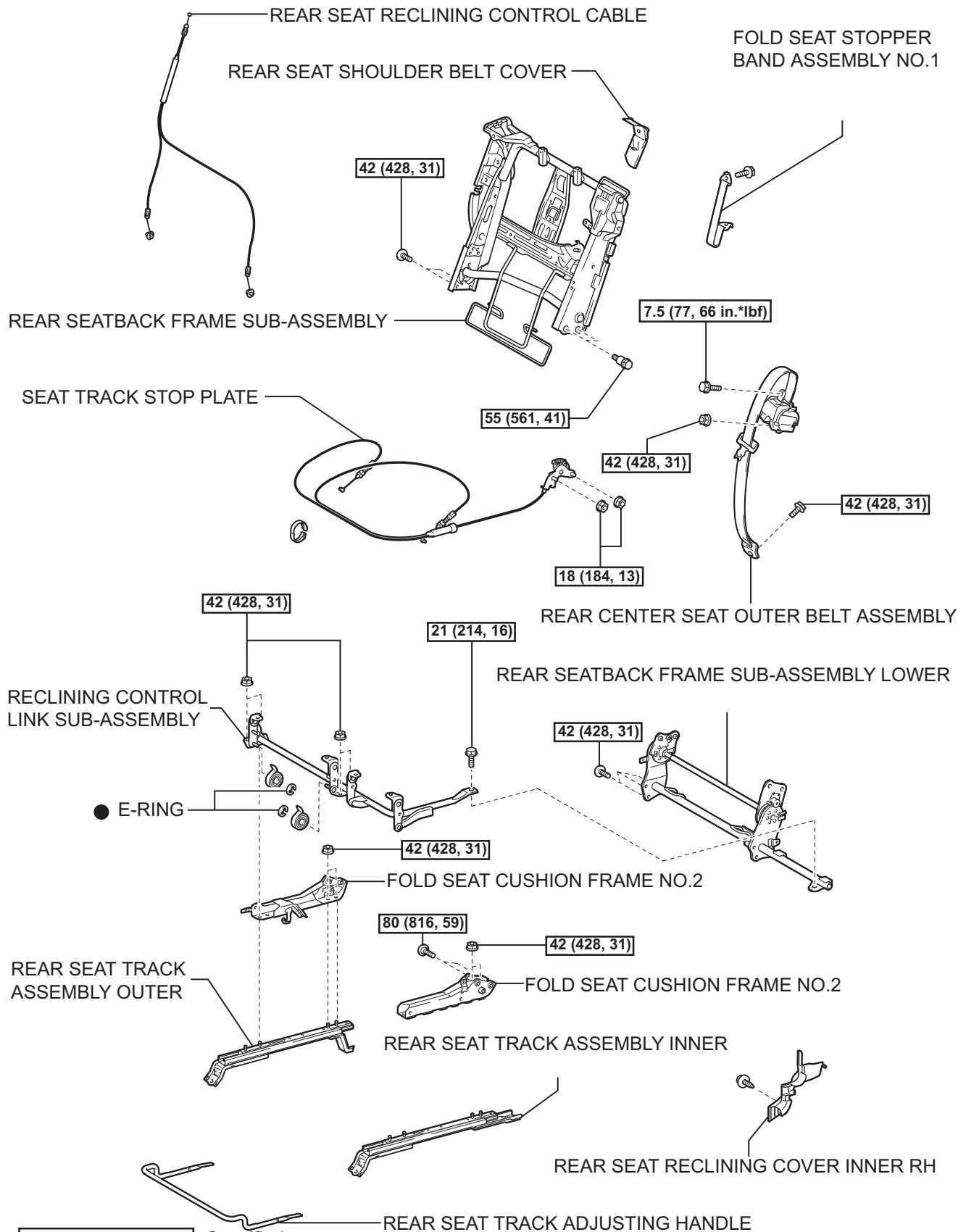
REAR SEAT CUSHION MOULDING RH

CENTER SEAT ASSEMBLY



N*m (kgf*cm, ft.*lbf): Specified torque



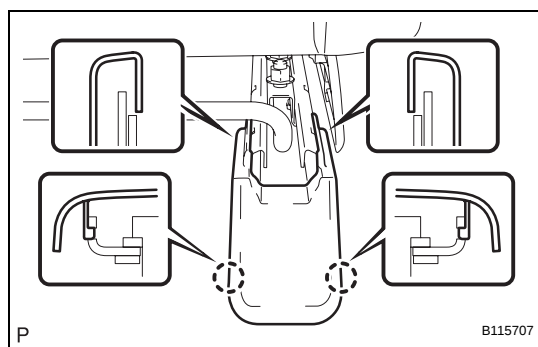


N*m (kgf*cm, ft.*lbf) : Specified torque

● Non-reusable part



P



REMOVAL

1. REMOVE REAR SEAT TRACK BRACKET COVER

- Move the rear seat assembly RH to the rearmost position by operating the rear seat track adjusting handle.
- Using a screwdriver, disengage the 4 claws.
HINT:
Tape the screwdriver tip before use.
- Pull the 2 rear seat track bracket covers toward the rear of the vehicle and remove them.

2. REMOVE REAR SEAT ASSEMBLY RH

- Using a clip remover, remove the 5 clips.
- Remove the bolt and disconnect the floor anchor side of the fold seat stopper band assembly No.1.
- Move the rear seat assembly RH to the rearmost position by operating the rear seat track adjusting handle.
- Remove the 2 bolts on the front side.
- Move the rear seat assembly RH fully forward by operating the rear seat track adjusting handle.
- Remove the 3 bolts on the rear side.
- Move the rear seat assembly RH to the center position and adjust the seatback to the vertical position.
- Remove the rear seat assembly RH.

DISASSEMBLY

1. REMOVE RECLINING COVER PROTECTOR LH

- Using a clip remover, remove the clip.
- Remove the screw.
- Remove the reclining cover protector LH as shown in the illustration.

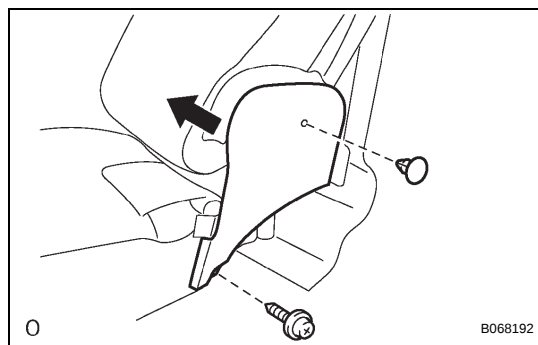
2. REMOVE CENTER SEAT HINGE COVER UPPER LH

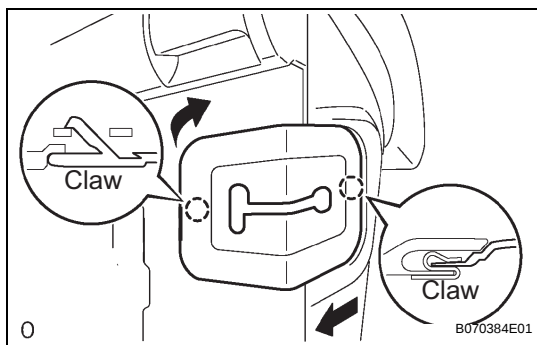
- Remove the screw.
- Disengage the claw and remove the center seat hinge cover upper LH.

3. REMOVE CENTER SEAT ASSEMBLY

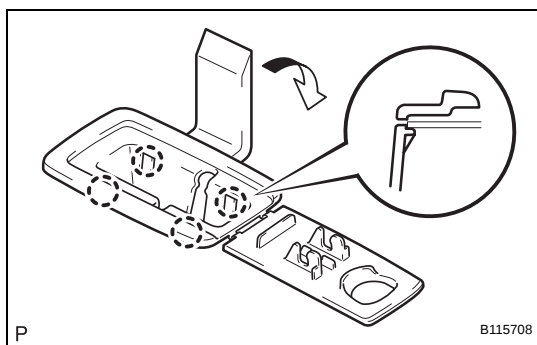
- Release the rubber band on the backside of the rear seatback board sub-assembly.
- Remove the hog rings.
- Remove the 4 bolts and center seat assembly.

4. REMOVE REAR SEAT HEADREST ASSEMBLY CENTER

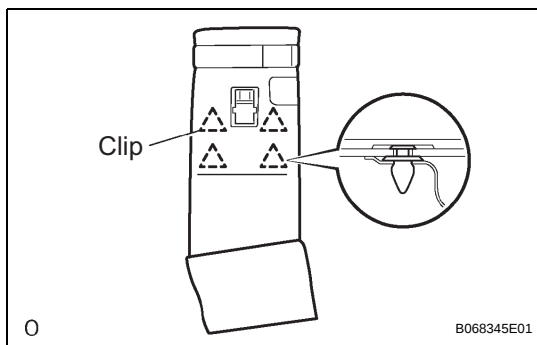


**5. REMOVE REAR SEATBACK LOCK COVER**

- (a) Disengage the 2 claws and remove the rear seatback lock cover as shown in the illustration.

**6. REMOVE REAR SEATBACK COVER**

- (a) Using a moulding remover, disengage the 8 claws and remove the 2 rear seatback covers.

**7. REMOVE REAR SEATBACK BOARD SUB-ASSEMBLY**

- (a) Disengage the 4 clips and remove the rear seatback board sub-assembly.

8. REMOVE RECLINING COVER PROTECTOR RH

- (a) Using a clip remover, remove the clip.
(b) Remove the screw and reclining cover protector RH.

9. REMOVE CENTER SEAT CUSHION ASSEMBLY

- (a) Using a "torx" socket wrench (T45), remove the 2 "torx" bolts and center seat cushion assembly.

10. REMOVE CENTER SEAT CUSHION FRAME SUB-ASSEMBLY

- (a) Disengage the hooks and remove the hog rings and center seat cushion frame sub-assembly.

11. REMOVE CENTER SEAT CUSHION COVER SUB-ASSEMBLY

- (a) Remove the hog rings and center seat cushion cover sub-assembly.

12. REMOVE REAR SEAT CUSHION PAD CENTER**13. REMOVE REAR SEATBACK HINGE SUB-ASSEMBLY CENTER**

- (a) Using a "torx" socket wrench (T45), remove the 2 "torx" bolts and rear seatback hinge sub-assembly center.

14. REMOVE REAR SEATBACK MOULDING LH

- (a) Remove the 3 screws and rear seatback moulding LH.

15. REMOVE REAR SEATBACK MOULDING RH

- (a) Remove the 3 screws and rear seatback moulding RH.

16. REMOVE REAR SEAT ARMREST ASSEMBLY CENTER

- (a) Using a "torx" socket wrench (T45), remove the 2 "torx" bolts.
- (b) Remove the nut, rear seat center armrest support, and rear seat armrest assembly center.

17. REMOVE REAR SEAT CENTER ARMREST SUPPORT**18. REMOVE REAR SEAT HEADREST SUPPORT**

- (a) Disengage the 2 claws and remove the rear seat headrest support (LH side).

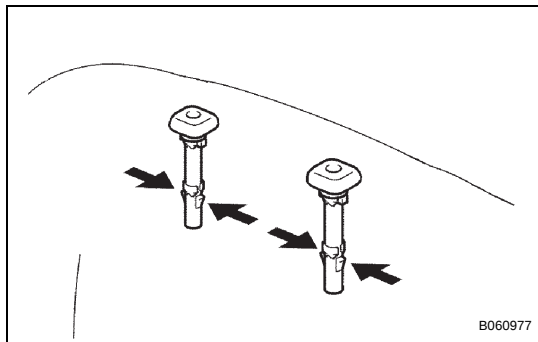
19. REMOVE REAR SEAT HEADREST SUPPORT

HINT:

Use the same procedures described for the LH side.

20. REMOVE NO.1 SEATBACK COVER

- (a) Remove the 2 screws.
- (b) Using a moulding remover, disengage the 2 claws and remove the No.1 seatback cover.

**21. REMOVE COAT HOOK CAP**

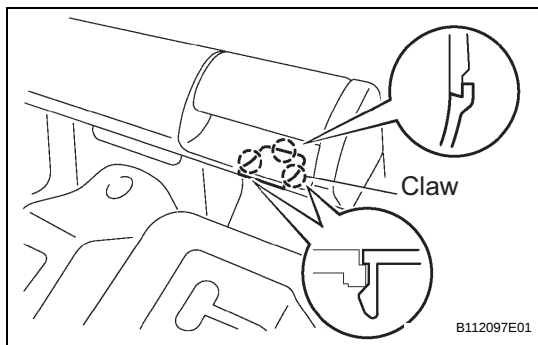
- (a) Using a screwdriver, disengage the 3 claws and remove the coat hook cap.

HINT:

Tape the screwdriver tip before use.

22. REMOVE NO.2 CENTER SEATBACK COVER

- (a) Remove the fold seatback cover.
- (b) Remove the 3 screws and No.2 center seatback cover with the rear seatback rod control lever outer.
- (c) Remove the No.2 center seatback cover from the rear seatback rod control lever outer.

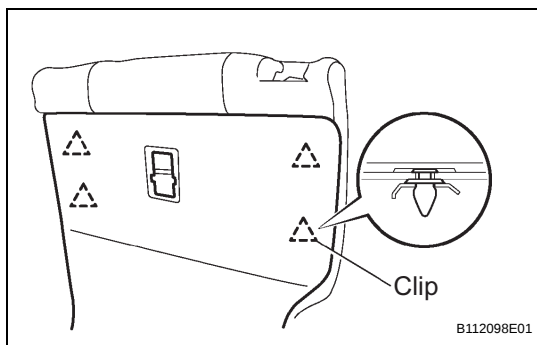
**23. REMOVE REAR SEATBACK ROD CONTROL LEVER OUTER**

- (a) Remove the rear seatback rod control lever outer from the fold seatback wire.

24. REMOVE FOLD SEATBACK WIRE**25. REMOVE REAR SEATBACK LOCK SUB-ASSEMBLY**

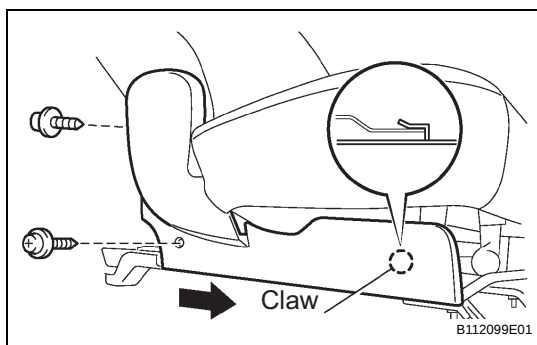
- (a) Remove the 2 bolts and rear seatback lock sub-assembly.

26. REMOVE CENTER SEATBACK FRAME SUB-ASSEMBLY



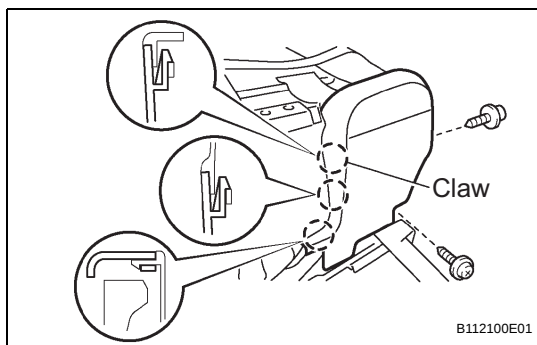
27. REMOVE REAR SEATBACK BOARD CARPET ASSEMBLY

- Release the rubber band on the backside of the rear seatback board carpet assembly.
- Disengage the 4 clips and remove the rear seatback board carpet assembly.



28. REMOVE REAR SEAT CUSHION MOULDING RH

- Remove the 2 screws.
- Disengage the claw and remove the rear seat cushion moulding RH as shown in the illustration.



29. REMOVE REAR SEAT CUSHION MOULDING REAR RH

- Remove the 2 screws.
- Disengage the 3 claws and remove the rear seat cushion moulding rear RH.

30. REMOVE SEPARATE TYPE REAR SEAT CUSHION ASSEMBLY

- Using a "torx" socket wrench (T45), remove the 2 "torx" bolts.
- Remove the hog rings.
- Remove the 2 bolts and separate type rear seat cushion assembly.

31. REMOVE REAR SEAT CUSHION FRAME SUB-ASSEMBLY

- Disengage the hooks and remove the hog rings and rear seat cushion frame sub-assembly.

32. REMOVE SEPARATE TYPE REAR SEAT CUSHION COVER

- Remove the hog rings and separate type rear seat cushion cover.

33. REMOVE REAR SEAT CUSHION PAD

34. REMOVE REAR SEAT BELT ASSEMBLY INNER (See page [SB-28](#))

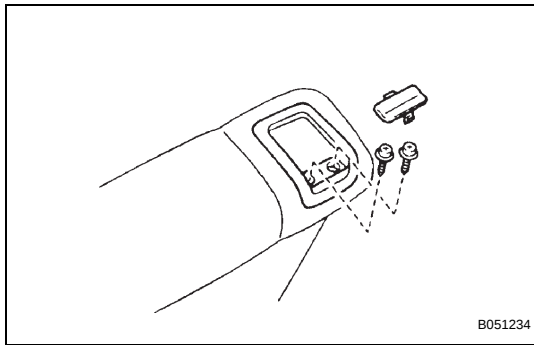
35. REMOVE REAR SEAT HEADREST ASSEMBLY

36. REMOVE REAR SEATBACK LOCK STRIKER COVER

- Using a screwdriver, disengage the 2 claws and remove the rear seatback lock striker cover.

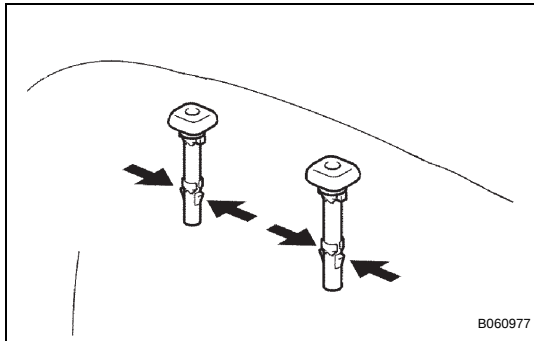
HINT:

Tape the screwdriver tip before use.



37. REMOVE REAR SEAT LOCK CONTROL LEVER SUB-ASSEMBLY

- (a) Remove the 2 screws.
- (b) Disengage the rear seat reclining control cable and remove the rear seat lock control lever sub-assembly.



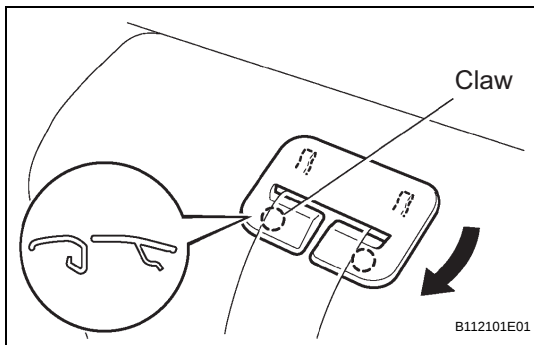
38. REMOVE REAR SEAT HEADREST SUPPORT

- (a) Disengage the 2 claws and remove the rear seat headrest support (LH side).

39. REMOVE REAR SEAT HEADREST SUPPORT

HINT:

Use the same procedures described for the LH side.



40. REMOVE REAR SEATBACK LOCK BEZEL UPPER

- (a) Using a screwdriver, disengage the 4 claws and remove the rear seatback lock bezel upper.

HINT:

Tape the screwdriver tip before use.

41. REMOVE REAR SEATBACK LOCK STRIKER PROTECTOR

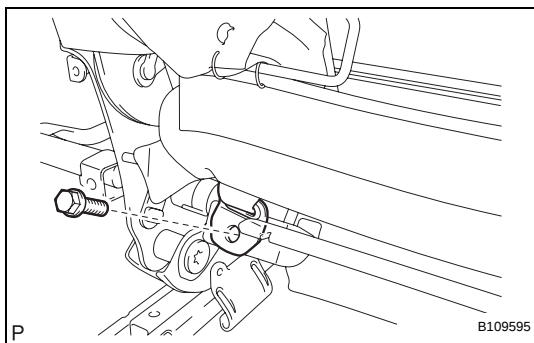
- (a) Remove the rear seatback lock striker protector.

42. REMOVE REAR SEAT LOCK STRIKER

- (a) Using a "torx" socket wrench (T45), remove the rear seat lock striker.

43. REMOVE SEPARATE TYPE REAR SEATBACK COVER WITH PAD

- (a) Remove the bolt and disconnect the floor anchor side of the rear seat belt assembly outer center.
- (b) Remove the 2 clips.
- (c) Remove the bolt and rear seat belt hook.
- (d) Disengage the hooks and remove the hog rings and separate type rear seatback cover with pad.

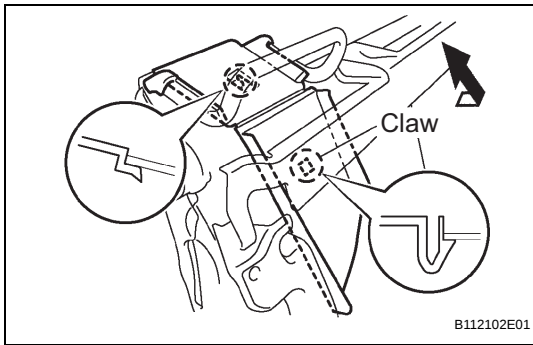


44. REMOVE SEPARATE TYPE REAR SEATBACK COVER

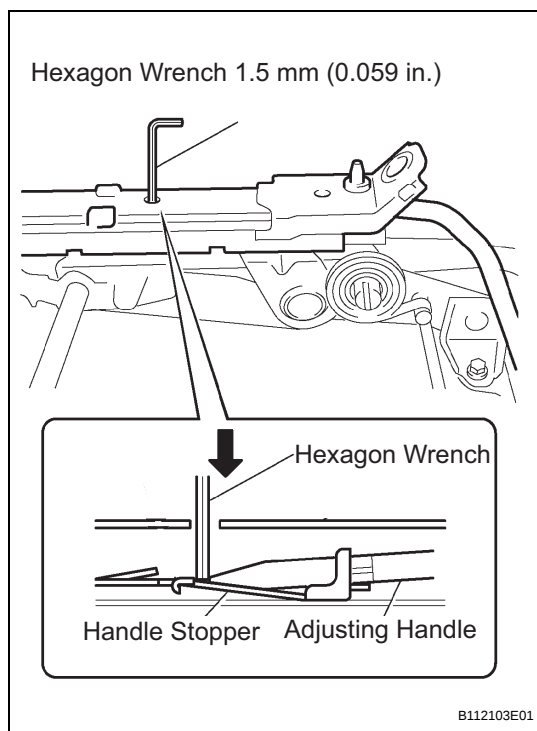
- (a) Remove the hog rings and separate type rear seatback cover.

45. REMOVE SEPARATE TYPE REAR SEATBACK PAD

46. REMOVE REAR CENTER SEAT OUTER BELT ASSEMBLY (See page [SB-41](#))



- 47. REMOVE REAR SEAT SHOULDER BELT COVER**
 - (a) Disengage the 2 claws and remove the rear seat shoulder belt cover as shown in the illustration.
- 48. REMOVE FOLD SEAT STOPPER BAND ASSEMBLY NO.1**
 - (a) Remove the bolt and fold seat stopper band assembly No.1.
- 49. REMOVE REAR SEAT RECLINING COVER INNER RH**
 - (a) Remove the screw.
 - (b) Disengage the claw and remove the rear seat reclining cover inner RH.
- 50. REMOVE REAR SEAT COVER NO.1**
 - (a) Remove the screw and rear seat cover No.1.
- 51. REMOVE REAR SEAT COVER NO.2**
 - (a) Remove the screw and rear seat cover No.2.
- 52. REMOVE REAR SEAT RECLINING CONTROL CABLE**
 - (a) Disconnect the 2 cables and remove the rear seat reclining control cable.
- 53. REMOVE REAR SEATBACK FRAME SUB-ASSEMBLY**
 - (a) Using a "torx" socket wrench (T45), remove the 2 "torx" bolts.
 - (b) Remove the 2 bolts and rear seatback frame sub-assembly.
- 54. REMOVE SEAT TRACK STOP PLATE**
 - (a) Remove the clamp.
 - (b) Disconnect the 2 seat track stop plate cables.
 - (c) Remove the 2 nuts and seat track stop plate.
- 55. REMOVE RECLINING CONTROL LINK SUB-ASSEMBLY**
 - (a) Remove the 2 E-rings and 2 springs.
 - (b) Remove the bolt, nut and reclining control link sub-assembly.
- 56. REMOVE REAR SEATBACK FRAME SUB-ASSEMBLY LOWER**
 - (a) Using a "torx" socket wrench (T45), remove the 3 "torx" bolts.
 - (b) Using a "torx" socket wrench (T55), remove the 2 "torx" bolts and rear seatback frame sub-assembly lower.
- 57. REMOVE FOLD SEAT CUSHION FRAME NO.2**
 - (a) Remove the 4 nuts and 2 fold seat cushion frame No.2.

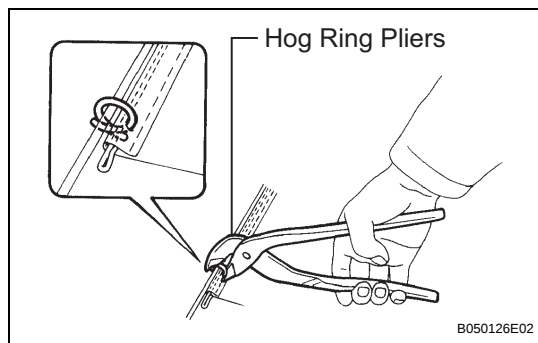
**58. REMOVE REAR SEAT TRACK ADJUSTING HANDLE**

- (a) Move the rear seat track assembly outer and rear seat track assembly inner fully forward by operating the rear seat track adjusting handle.
- (b) Using a hexagon wrench 1.5 mm (0.059 in.), push down the 2 handle stoppers as shown in the illustration and remove the rear seat track adjusting handle.

59. REMOVE REAR SEAT TRACK ASSEMBLY OUTER**60. REMOVE REAR SEAT TRACK ASSEMBLY INNER**

REASSEMBLY

1. **INSTALL REAR SEAT TRACK ASSEMBLY INNER**
2. **INSTALL REAR SEAT TRACK ASSEMBLY OUTER**
3. **INSTALL REAR SEAT TRACK ADJUSTING HANDLE**
4. **INSTALL FOLD SEAT CUSHION FRAME NO.2**
 - (a) Install the fold seat cushion frame No.2 with the 4 nuts.
Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)
5. **INSTALL REAR SEATBACK FRAME SUB-ASSEMBLY LOWER**
 - (a) Temporarily install the rear seatback frame sub-assembly lower with the 5 "torx" bolts.
 - (b) Using a "torx" socket wrench (T55), tighten the 2 "torx" bolts.
Torque: 80 N*m (816 kgf*cm, 59 ft.*lbf)
 - (c) Using a "torx" socket wrench (T45), tighten the 3 "torx" bolts.
Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)
6. **INSTALL RECLINING CONTROL LINK SUB-ASSEMBLY**
 - (a) Install the reclining control link sub-assembly with the bolt and 4 nuts.
Torque: Bolt
21 N*m (214 kgf*cm, 16 ft.*lbf)
Nut
42 N*m (428 kgf*cm, 31 ft.*lbf)
 - (b) Install the 2 springs and the 2 new E-rings.
7. **INSTALL SEAT TRACK STOP PLATE**
 - (a) Install the seat track stop plate with the 2 nuts.
Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)
 - (b) Install the 2 seat track stop plate cables.
 - (c) Install the clamp.
8. **INSTALL REAR SEATBACK FRAME SUB-ASSEMBLY**
 - (a) Temporarily install the rear seatback frame sub-assembly with the 2 bolts and 2 "torx" bolts.
 - (b) Tighten the 2 bolts.
Torque: 55 N*m (561 kgf*cm, 41 ft.*lbf)
 - (c) Using a "torx" socket wrench (T45), tighten the 2 "torx" bolts.
Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)
9. **INSTALL REAR SEAT RECLINING CONTROL CABLE**
10. **INSTALL REAR SEAT COVER NO.2**
11. **INSTALL REAR SEAT COVER NO.1**
12. **INSTALL REAR SEAT RECLINING COVER INNER RH**
13. **INSTALL FOLD SEAT STOPPER BAND ASSEMBLY NO.1**
14. **INSTALL REAR SEAT SHOULDER BELT COVER**



15. INSTALL REAR CENTER SEAT OUTER BELT ASSEMBLY (See page [SB-41](#))

16. INSTALL SEPARATE TYPE REAR SEATBACK PAD

17. INSTALL SEPARATE TYPE REAR SEATBACK COVER

- (a) Using hog ring pliers, install the separate type rear seatback cover to the separate type rear seatback pad with new hog rings.

NOTICE:

- Be careful not to damage the cover.
- When installing the hog rings, take care to minimize wrinkles as much as possible.

18. INSTALL SEPARATE TYPE REAR SEATBACK COVER WITH PAD

- (a) Install the separate type rear seatback cover with pad to the rear seatback frame sub-assembly.
- (b) Install the hook and new hog rings.
- (c) Install the rear seat belt hook with the bolt.
- Torque: 6.0 N*m (61 kgf*cm, 53 in.*lbf)**
- (d) Install the 2 clips.

- (e) Install the floor anchor side of the rear seat belt assembly outer center with the bolt.

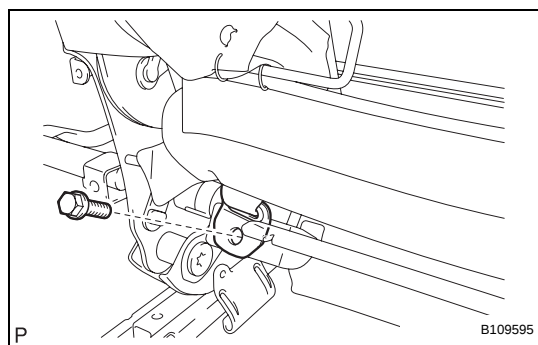
Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

- (f) Check if the ELR locks.

NOTICE:

The check should be performed with the outer belt assembly installed.

- (1) With the belt assembly installed, check that the belt locks when it is pulled out quickly.



19. INSTALL REAR SEAT LOCK STRIKER

- (a) Using a "torx" socket wrench (T45), install the rear seat lock striker.

Torque: 33 N*m (337 kgf*cm, 24 ft.*lbf)

20. INSTALL REAR SEATBACK LOCK STRIKER PROTECTOR

21. INSTALL REAR SEATBACK LOCK BEZEL UPPER

22. INSTALL REAR SEAT HEADREST SUPPORT

23. INSTALL REAR SEAT HEADREST SUPPORT

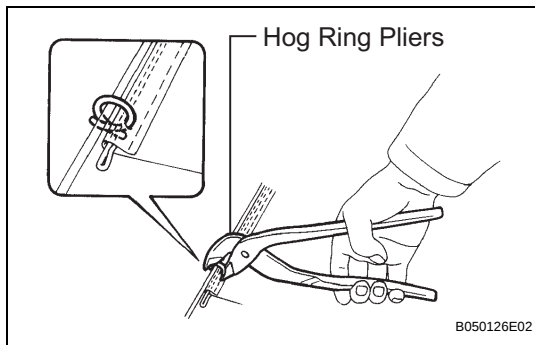
24. INSTALL REAR SEAT LOCK CONTROL LEVER SUB-ASSEMBLY

25. INSTALL REAR SEATBACK LOCK STRIKER COVER

26. INSTALL REAR SEAT HEADREST ASSEMBLY

27. INSTALL REAR SEAT BELT ASSEMBLY INNER (See page [SB-28](#))

28. INSTALL REAR SEAT CUSHION PAD



29. INSTALL SEPARATE TYPE REAR SEAT CUSHION COVER

- (a) Using hog ring pliers, install the separate type rear seat cushion cover to the rear seat cushion pad with new hog rings.

NOTICE:

- Be careful not to damage the cover.
- When installing the hog rings, take care to minimize wrinkles as much as possible.

30. INSTALL REAR SEAT CUSHION FRAME SUB-ASSEMBLY

31. INSTALL SEPARATE TYPE REAR SEAT CUSHION ASSEMBLY

- (a) Temporarily install the separate type rear seat cushion assembly with the 2 bolts and 2 "torx" bolts.
- (b) Tighten the 2 bolts.

Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)

- (c) Install new hog rings.
- (d) Using a "torx" socket wrench (T45), tighten the 2 "torx" bolts.

Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf)

32. INSTALL REAR SEAT CUSHION MOULDING REAR RH

33. INSTALL REAR SEAT CUSHION MOULDING RH

34. INSTALL REAR SEATBACK BOARD CARPET ASSEMBLY

35. INSTALL CENTER SEATBACK FRAME SUB-ASSEMBLY

36. INSTALL REAR SEATBACK LOCK SUB-ASSEMBLY

- (a) Install the rear seatback lock sub-assembly with the 2 bolts.

Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf)

37. INSTALL FOLD SEATBACK WIRE

38. INSTALL REAR SEATBACK ROD CONTROL LEVER OUTER

39. INSTALL NO.2 CENTER SEATBACK COVER

40. INSTALL COAT HOOK CAP

41. INSTALL NO.1 SEATBACK COVER

42. INSTALL REAR SEAT HEADREST SUPPORT

43. INSTALL REAR SEAT HEADREST SUPPORT

44. INSTALL REAR SEAT CENTER ARMREST SUPPORT

45. INSTALL REAR SEAT ARMREST ASSEMBLY CENTER

- (a) Temporarily install the rear seat armrest assembly center with the nut and rear seat center armrest support.

- (b) Using a "torx" socket wrench (T45), install the rear seat armrest assembly center with the 2 "torx" bolts.
Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf)

46. INSTALL REAR SEATBACK MOULDING RH

47. INSTALL REAR SEATBACK MOULDING LH

48. INSTALL REAR SEATBACK HINGE SUB-ASSEMBLY CENTER

- (a) Using a "torx" socket wrench (T45), install the 2 rear seatback hinge sub-assembly centers with the 2 "torx" bolts.

Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf)

49. INSTALL REAR SEAT CUSHION PAD CENTER

50. INSTALL CENTER SEAT CUSHION COVER SUB-ASSEMBLY

51. INSTALL CENTER SEAT CUSHION FRAME SUB-ASSEMBLY

52. INSTALL CENTER SEAT CUSHION ASSEMBLY

- (a) Using a "torx" socket wrench (T45), install the center seat cushion assembly with the 2 "torx" bolts.

Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf)

53. INSTALL RECLINING COVER PROTECTOR RH

54. INSTALL REAR SEATBACK BOARD SUB-ASSEMBLY

55. INSTALL REAR SEATBACK COVER

56. INSTALL REAR SEATBACK LOCK COVER

57. INSTALL REAR SEAT HEADREST ASSEMBLY CENTER

58. INSTALL CENTER SEAT ASSEMBLY

- (a) Install the center seat assembly with the 4 bolts.

Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf)

- (b) Install new hog rings.

59. INSTALL CENTER SEAT HINGE COVER UPPER LH

60. INSTALL RECLINING COVER PROTECTOR LH

INSTALLATION

1. INSTALL REAR SEAT ASSEMBLY RH

- (a) Place the rear seat assembly RH in the vehicle and align the adjuster pin with the hole on the vehicle side.

- (b) Move the rear seat assembly RH to the rearmost position by operating the rear seat track adjusting handle.

NOTICE:

Check that the seat is locked.

- (c) Temporarily install the front side of the rear seat assembly RH with the 2 bolts.
- (d) Recline the separate rear seatback forward by operating the rear seat lock control lever sub-assembly.
- (e) Move the rear seat assembly RH fully forward.

NOTICE:

Check that the seat is locked.

- (f) Temporarily install the rear side of the rear seat assembly RH with the 3 bolts.
- (g) Return the separate rear seatback to the upright position.
- (h) Move the rear seat assembly RH to the rearmost position by operating the rear seat track adjusting handle.

NOTICE:

Check that the seat is locked.

- (i) Fully tighten the 2 bolts on the front side of the rear seat assembly RH in the order of the inner side bolt and then the outer side bolt.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

- (j) Recline the separate rear seatback forward by operating the rear seat lock control lever sub-assembly.

- (k) Move the rear seat assembly RH fully forward.

NOTICE:

Check that the seat is locked.

- (l) Fully tighten the 3 bolts on the rear side of the rear seat assembly RH in the order of the inner rear side bolt, the inner front side bolt, and then the outer side bolt.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

- (m) Return the separate rear seatback to the upright position.

- (n) Move the rear seat assembly RH to the rearmost position by operating the rear seat track adjusting handle.

NOTICE:

Check that the seat is locked.

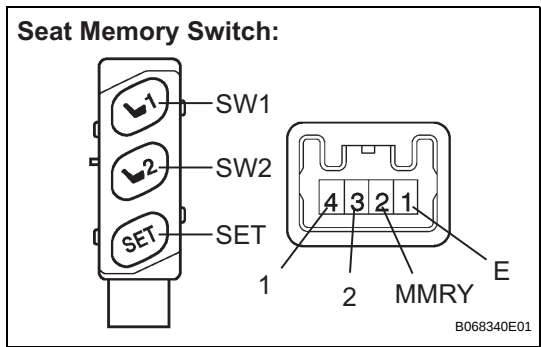
- (o) Install the floor anchor side of the fold seat stopper band assembly No.1 with the bolt.

Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)

- (p) Install the 5 clips.

2. INSTALL REAR SEAT TRACK BRACKET COVER**3. INSPECT SLIDE ADJUSTER LOCK**

- (a) Check that the left and right adjusters lock simultaneously when sliding the seat.
- (b) If the left and right adjusters do not lock simultaneously, adjust by loosening the bolts securing the seat.



SEAT MEMORY SWITCH

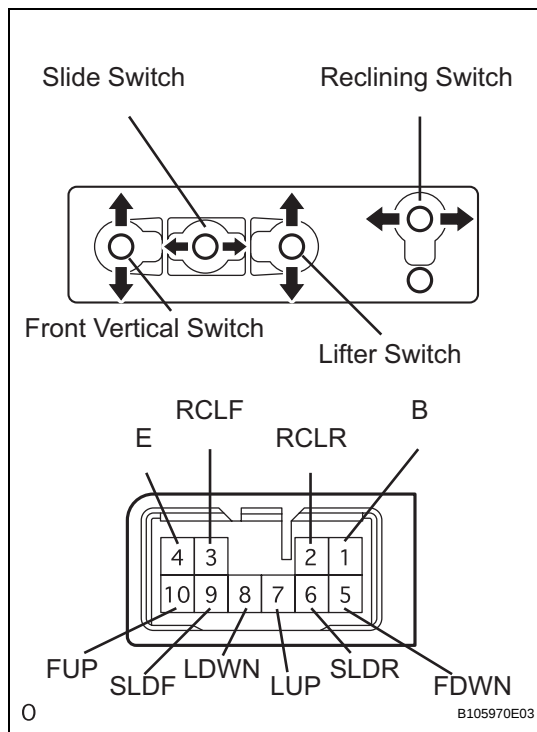
INSPECTION

1. INSPECT SEAT MEMORY SWITCH
- (a) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Switch Position	Specified Condition
1(E) - 2(MMRY)	SET switch ON (pushed)	Below 1 Ω
1(E) - 2(MMRY)	SET switch OFF (not pushed)	10 kΩ or higher
1(E) - 4(1)	SW1 switch ON (pushed)	Below 1 Ω
1(E) - 4(1)	SW1 switch OFF (not pushed)	10 kΩ or higher
1(E) - 3(2)	SW2 switch ON (pushed)	Below 1 Ω
1(E) - 3(2)	SW2 switch OFF (not pushed)	10 kΩ or higher

If the result is not as specified, replace the switch.



POWER SEAT SWITCH

INSPECTION

1. INSPECT FRONT POWER SEAT SWITCH

(a) Inspect the driver side power seat switch.

- (1) Measure the resistance according to the value(s) in the table below.

Resistance:

Slide switch

Tester Connection	Switch Condition	Specified Condition
1(B) - 9(SLDF)	FRONT	Below 1 Ω
4(E) - 6(SLDR)	FRONT	Below 1 Ω
4(E) - 6(SLDR)	OFF	Below 1 Ω
4(E) - 9(SLDF)	OFF	Below 1 Ω
1(B) - 6(SLDR)	REAR	Below 1 Ω
4(E) - 9(SLDF)	REAR	Below 1 Ω

Front vertical switch

Tester Connection	Switch Condition	Specified Condition
1(B) - 10(FUP)	UP	Below 1 Ω
4(E) - 5(FDWN)	UP	Below 1 Ω
4(E) - 5(FDWN)	OFF	Below 1 Ω
4(E) - 10(FUP)	OFF	Below 1 Ω
1(B) - 5(FDWN)	DOWN	Below 1 Ω
4(E) - 10(FUP)	DOWN	Below 1 Ω

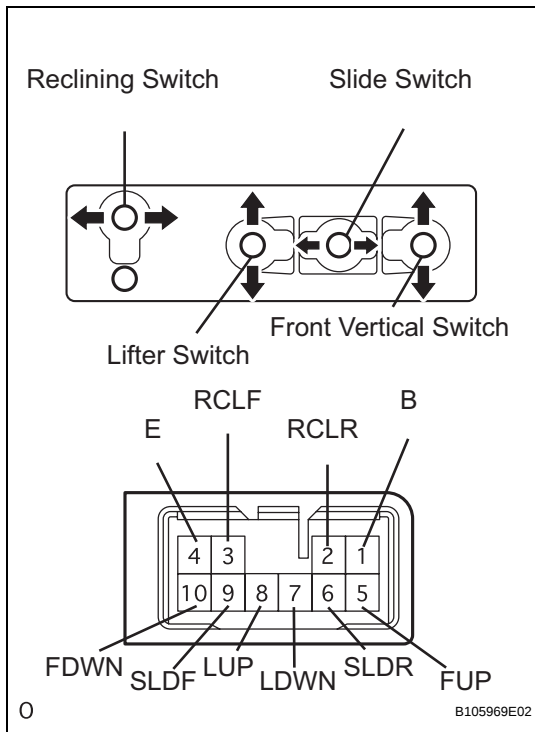
Lifter switch

Tester Connection	Switch Condition	Specified Condition
1(B) - 7(LUP)	UP	Below 1 Ω
4(E) - 8(LDWN)	UP	Below 1 Ω
4(E) - 7(LUP)	OFF	Below 1 Ω
4(E) - 8(LDWN)	OFF	Below 1 Ω
1(B) - 8(LDWN)	DOWN	Below 1 Ω
4(E) - 7(LUP)	DOWN	Below 1 Ω

Reclining switch

Tester Connection	Switch Condition	Specified Condition
1(B) - 3(RCLF)	FRONT	Below 1 Ω
2(RCLR) - 4(E)	FRONT	Below 1 Ω
2(RCLR) - 4(E)	OFF	Below 1 Ω
3(RCLF) - 4(E)	OFF	Below 1 Ω
1(B) - 2(RCLR)	REAR	Below 1 Ω
3(RCLF) - 4(E)	REAR	Below 1 Ω

If the result is not as specified, replace the switch.



(b) Inspect the front passenger side power seat switch.

- (1) Measure the resistance according to the value(s) in the table below.

Resistance:

Slide switch

Tester Connection	Switch Condition	Specified Condition
1(B) - 9(SLDF)	FRONT	Below 1 Ω
4(E) - 6(SLDR)	FRONT	Below 1 Ω
4(E) - 6(SLDR)	OFF	Below 1 Ω
4(E) - 9(SLDF)	OFF	Below 1 Ω
1(B) - 6(SLDR)	REAR	Below 1 Ω
4(E) - 9(SLDF)	REAR	Below 1 Ω

Front vertical switch

Tester Connection	Switch Condition	Specified Condition
1(B) - 5(FUP)	UP	Below 1 Ω
4(E) - 10(FDWN)	UP	Below 1 Ω
4(E) - 5(FUP)	OFF	Below 1 Ω
4(E) - 10(FDWN)	OFF	Below 1 Ω
1(B) - 10(FDWN)	DOWN	Below 1 Ω
4(E) - 5(FUP)	DOWN	Below 1 Ω

Lifter switch

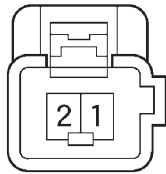
Tester Connection	Switch Condition	Specified Condition
1(B) - 8(LUP)	UP	Below 1 Ω
4(E) - 7(LDWN)	UP	Below 1 Ω
4(E) - 7(LDWN)	OFF	Below 1 Ω
4(E) - 8(LUP)	OFF	Below 1 Ω
1(B) - 7(LDWN)	DOWN	Below 1 Ω
4(E) - 8(LUP)	DOWN	Below 1 Ω

Reclining switch

Tester Connection	Switch Condition	Specified Condition
1(B) - 3(RCLF)	FRONT	Below 1 Ω
2(RCLR) - 4(E)	FRONT	Below 1 Ω
2(RCLR) - 4(E)	OFF	Below 1 Ω
3(RCLF) - 4(E)	OFF	Below 1 Ω
1(B) - 2(RCLR)	REAR	Below 1 Ω
3(RCLF) - 4(E)	REAR	Below 1 Ω

If the result is not as specified, replace the switch.

Connector Front View:



B081621E06

FRONT SEAT FRAME WITH ADJUSTER

INSPECTION

1. INSPECT FRONT SEAT ADJUSTER SUB-ASSEMBLY LH

- (a) Check operation of the seat frame (slide motor).
 (1) Check if the seat frame moves smoothly when the battery is connected to the slide motor connector terminals.

OK

Measurement Condition	Operational Direction
Battery positive (+) → 1 Battery negative (-) → 2	Forward
Battery positive (+) → 2 Battery negative (-) → 1	Backward

If the result is not as specified, replace the seat frame with adjuster.

- (b) Check operation of the seat frame (front vertical motor).
 (1) Check if the seat frame moves smoothly when the battery is connected to the front vertical motor connector terminals.

OK

Measurement Condition	Operational Direction
Battery positive (+) → 1 Battery negative (-) → 2	Upward
Battery positive (+) → 2 Battery negative (-) → 1	Downward

If the result is not as specified, replace the seat frame with adjuster.

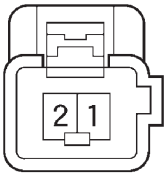
- (c) Check operation of the seat frame (lifter motor).
 (1) Check if the seat frame moves smoothly when the battery is connected to the lifter motor connector terminals.

OK

Measurement Condition	Operational Direction
Battery positive (+) → 2 Battery negative (-) → 1	Upward
Battery positive (+) → 1 Battery negative (-) → 2	Downward

If the result is not as specified, replace the seat frame with adjuster.

Connector Front View:



B081621E06

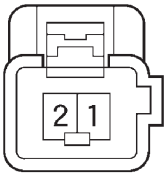
- (d) Check operation of the seat frame (reclining motor).
(1) Check if the seat frame moves smoothly when the battery is connected to the reclining motor connector terminals.

OK

Measurement Condition	Operational Direction
Battery positive (+) → 2 Battery negative (-) → 1	Forward
Battery positive (+) → 1 Battery negative (-) → 2	Backward

If the result is not as specified, replace the seat frame with adjuster.

Connector Front View:



B081621E06

2. INSPECT FRONT SEAT ADJUSTER SUB-ASSEMBLY RH

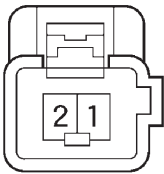
- (a) Check operation of the seat frame (slide motor).
(1) Check if the seat frame moves smoothly when the battery is connected to the slide motor connector terminals.

OK

Measurement Condition	Operational Direction
Battery positive (+) → 2 Battery negative (-) → 1	Forward
Battery positive (+) → 1 Battery negative (-) → 2	Backward

If the result is not as specified, replace the seat frame with adjuster.

Connector Front View:



B081621E06

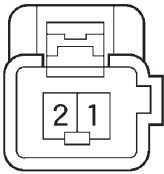
- (b) Check operation of the seat frame (front vertical motor).
(1) Check if the seat frame moves smoothly when the battery is connected to the front vertical motor connector terminals.

OK

Measurement Condition	Operational Direction
Battery positive (+) → 1 Battery negative (-) → 2	Upward
Battery positive (+) → 2 Battery negative (-) → 1	Downward

If the result is not as specified, replace the seat frame with adjuster.

Connector Front View:



B081621E06

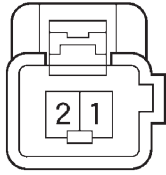
- (c) Check operation of the seat frame (lifter motor).
(1) Check if the seat frame moves smoothly when the battery is connected to the lifter motor connector terminals.

OK

Measurement Condition	Operational Direction
Battery positive (+) → 2 Battery negative (-) → 1	Upward
Battery positive (+) → 1 Battery negative (-) → 2	Downward

If the result is not as specified, replace the seat frame with adjuster.

Connector Front View:



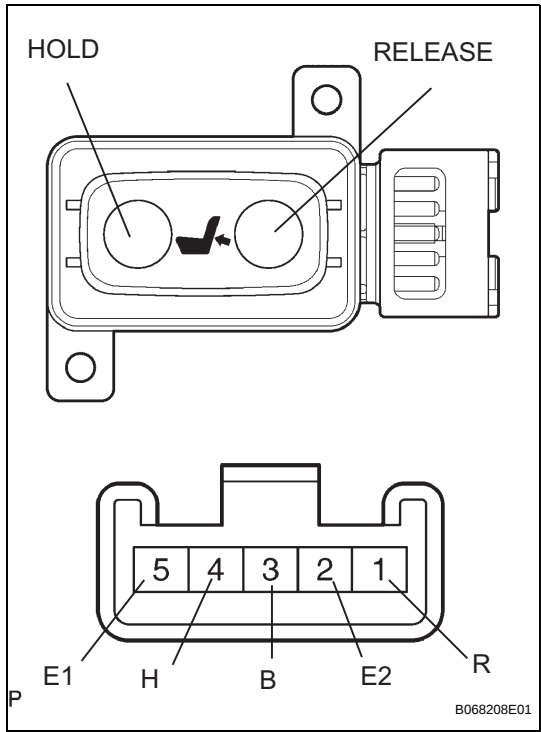
B081621E06

- (d) Check operation of the seat frame (reclining motor).
(1) Check if the seat frame moves smoothly when the battery is connected to the reclining motor connector terminals.

OK

Measurement Condition	Operational Direction
Battery positive (+) → 2 Battery negative (-) → 1	Forward
Battery positive (+) → 1 Battery negative (-) → 2	Backward

If the result is not as specified, replace the seat frame with adjuster.



FRONT POWER SEAT LUMBAR SWITCH

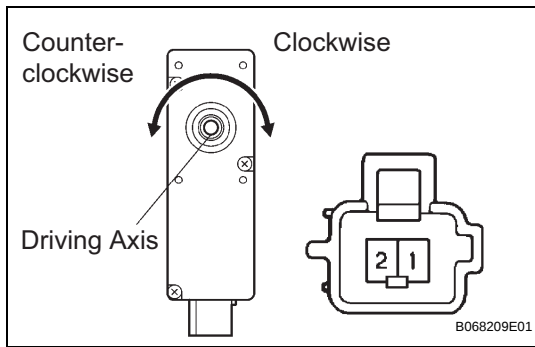
INSPECTION

1. **INSPECT FRONT POWER SEAT LUMBAR SWITCH**
(a) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Switch Position	Specified Condition
1(R) - 2(E2)	HOLD	Below 1 Ω
3(B) - 4(H)	HOLD	Below 1 Ω
1(R) - 2(E2)	OFF	Below 1 Ω
4(H) - 5(E1)	OFF	Below 1 Ω
1(R) - 3(B)	RELEASE	Below 1 Ω
4(H) - 5(E1)	RELEASE	Below 1 Ω

If the result is not as specified, replace the switch.



LUMBAR SUPPORT ADJUSTER ASSEMBLY

INSPECTION

1. INSPECT LUMBAR SUPPORT ADJUSTER ASSEMBLY

- (a) Check operation of the lumbar support adjuster motor.
 - (1) Check if the lumbar support adjuster moves smoothly when the battery is connected to the lumbar support adjuster motor connector terminal.

OK

Measurement Condition	Operational Direction
Battery positive (+) → 1 Battery negative (-) → 2	Clockwise
Battery positive (+) → 2 Battery negative (-) → 1	Counterclockwise

If the result is not as specified, replace the lumbar support adjuster assembly.

SEAT HEATER SWITCH

INSPECTION

1. INSPECT SEAT HEATER SWITCH

- (a) Inspect the driver side seat heater switch operation.
- (1) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Switch Position	Specified Condition
2(IG) - 4(SWL)	OFF	10 kΩ or higher
2(IG) - 4(SWL)	ON	Below 1 Ω
3(RVL) - 4(SWL)	ON (Minimum to Maximum)	0.35 to 3.4 kΩ

If the result is not as specified, replace the switch.

- (2) Turn the seat heater switch on and check if the seat heater switch indicator comes on.

OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 2(IG) Battery negative (-) → Terminal 7(E)	Comes on

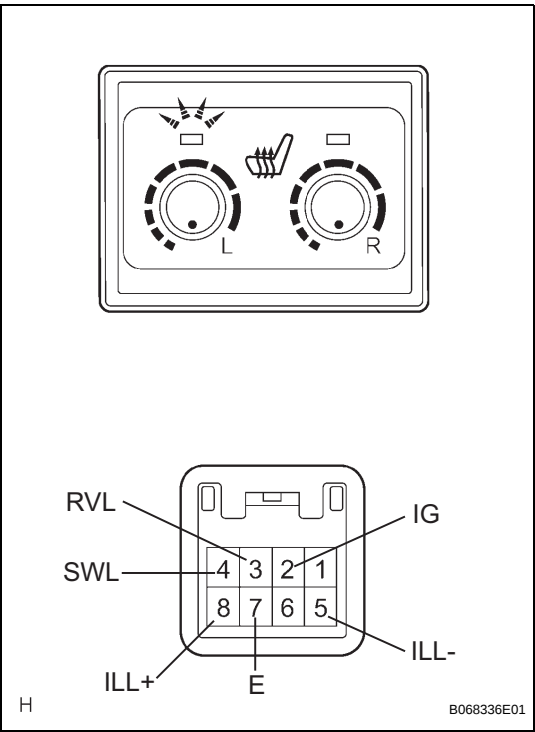
If the result is not as specified, replace the switch.

- (3) Check if the seat heater switch indicator comes on.

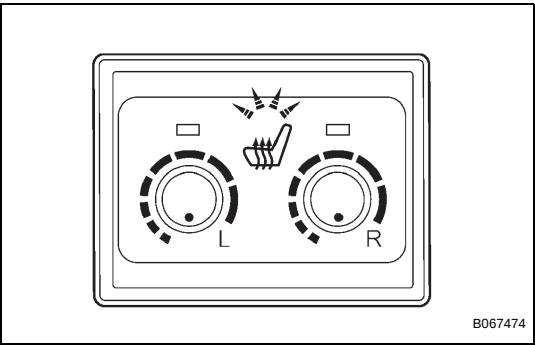
OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 8(ILL+) Battery negative (-) → Terminal 5(ILL-)	Comes on

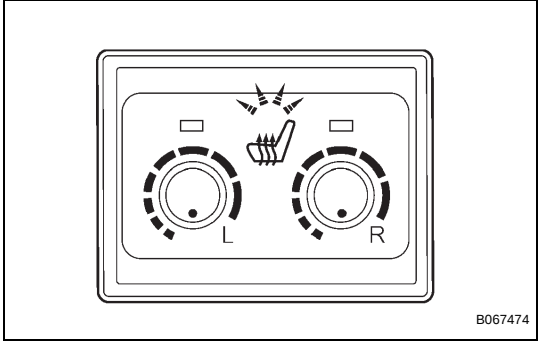
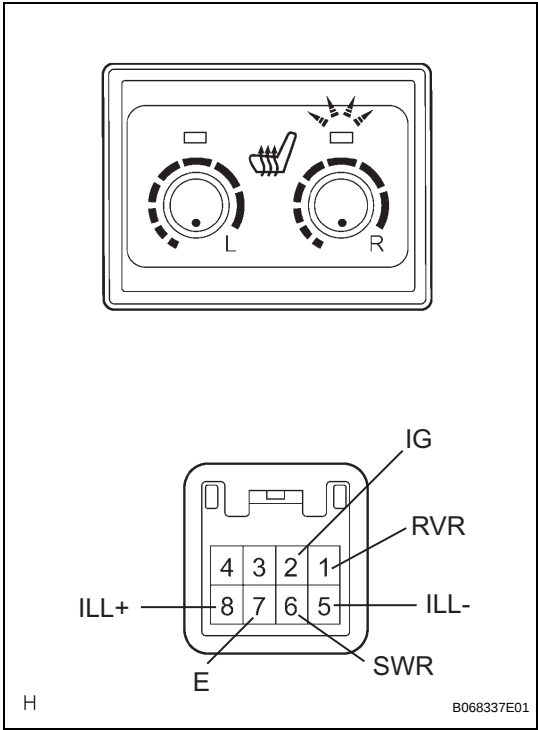
If the result is not as specified, replace the switch.



B068336E01



B067474



(b) Inspect the front passenger side seat heater switch operation.

- (1) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Switch Position	Specified Condition
2(IG) - 6(SWR)	OFF	10 k Ω or higher
2(IG) - 6(SWR)	ON	Below 1 Ω
1(RVR) - 6(SWR)	ON (Minimum to Maximum)	0.35 to 3.4 k Ω

If the result is not as specified, replace the switch.

- (2) Turn the seat heater switch on and check if the seat heater switch indicator comes on.

OK

Measurement Condition	Specified Condition
Battery positive (+) $\rightarrow$ Terminal 2(IG) Battery negative (-) $\rightarrow$ Terminal 7(E)	Comes on

If the result is not as specified, replace the switch.

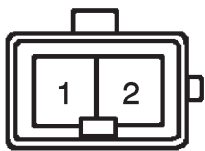
- (3) Check if the seat heater switch indicator comes on.

OK

Measurement Condition	Specified Condition
Battery positive (+) $\rightarrow$ Terminal 2(IG) Battery negative (-) $\rightarrow$ Terminal 7(E)	Comes on

If the result is not as specified, replace the switch.

Connector Front View:



B068348E01

FRONT SEATBACK HEATER

INSPECTION

1. **INSPECT FRONT SEATBACK HEATER LH**
(a) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Condition	Specified Condition
1 - 2	Always	Below 1 Ω

If the result is not as specified, replace the front seatback heater.

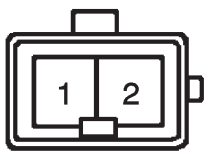
2. **INSPECT FRONT SEATBACK HEATER RH**
(a) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Condition	Specified Condition
1 - 2	Always	Below 1 Ω

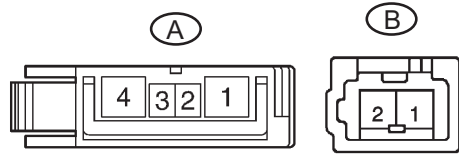
If the result is not as specified, replace the front seatback heater.

Connector Front View:



B068348E01

Connector Front View:



B068349E01

FRONT SEAT CUSHION HEATER INSPECTION

1. INSPECT FRONT SEAT CUSHION HEATER LH

- (a) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Condition	Specified Condition
A-1 - B-1	Seat heater temp. below 25 to 35°C (77 to 95°F)	8,000 to 8,400 Ω
A-1 - B-1	Seat heater temp. 46 to 54°C (115 to 129°F)	3,900 to 4,300 Ω
A-2 - A-3	Seat heater temp. below 25 to 35°C (77 to 95°F)	Below 1 Ω
A-2 - A-3	Seat heater temp. 46 to 54°C (115 to 129°F)	10 k Ω or higher (thermostat OFF)
A-4 - B-2	Always	Below 1 Ω

If the result is not as specified, replace the front seat cushion heater.

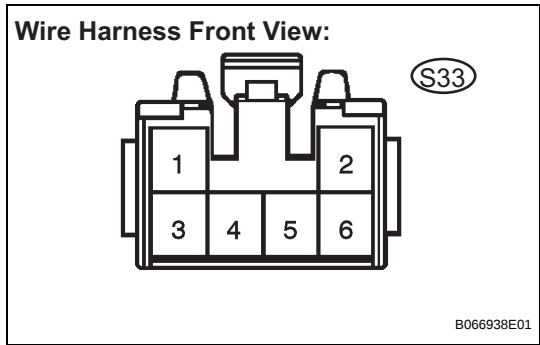
2. INSPECT FRONT SEAT CUSHION HEATER RH

- (a) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Condition	Specified Condition
A-1 - B-1	Seat heater temp. below 25 to 35°C (77 to 95°F)	8,000 to 8,400 Ω
A-1 - B-1	Seat heater temp. 46 to 54°C (115 to 129°F)	3,900 to 4,300 Ω
A-2 - A-3	Seat heater temp. below 25 to 35°C (77 to 95°F)	Below 1 Ω
A-2 - A-3	Seat heater temp. 46 to 54°C (115 to 129°F)	10 k Ω or higher (thermostat OFF)
A-4 - B-2	Always	Below 1 Ω

If the result is not as specified, replace the front seat cushion heater.



SEAT HEATER CONTROL

ON-VEHICLE INSPECTION

1. INSPECT FRONT SEAT HEATER CONTROL LH

- (a) Disconnect the front seat heater control connector.
- (b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Condition	Specified Condition
S33-6 - Body ground	Always	Below 1 Ω

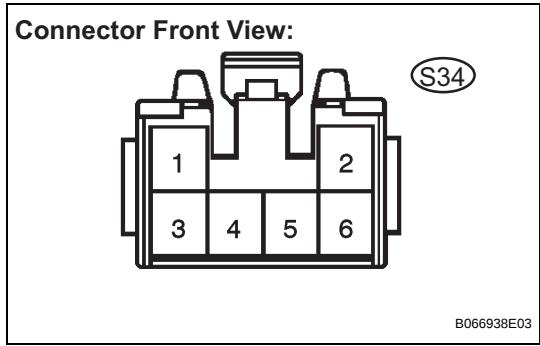
If the result is not as specified, repair or replace the wire harness or connector.

- (c) Measure the voltage according to the value(s) in the table below.

Voltage

Tester Connection	Condition	Specified Condition
S33-1 - S33-6	Ignition switch ON and driver side seat heater switch ON	10 to 14 V
S33-4 - S33-6	Ignition switch ON	10 to 14 V
S33-5 - S33-6	Ignition switch ON and driver side seat heater switch ON	1 to 13 V

If the result is not as specified, repair or replace seat heater switch circuit.



2. INSPECT FRONT SEAT HEATER CONTROL RH

- (a) Disconnect the front seat heater control connector.
- (b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection	Condition	Specified Condition
S34-6 - Body ground	Always	Below 1 Ω

If the result is not as specified, repair or replace wire harness or connector.

- (c) Measure the voltage according to the value(s) in the table below.

Voltage

Tester Connection	Condition	Specified Condition
S34-1 - S34-6	Ignition switch ON and front passenger side seat heater switch ON	10 to 14 V
S34-4 - S34-6	Ignition switch ON	10 to 14 V
S34-5 - S34-6	Ignition switch ON and front passenger side seat heater switch ON	1 to 13 V

If the result is not as specified, repair or replace the seat heater switch circuit.