

OVERHAUL

CAUTION:

- Wear safety gloves, because the sharp surfaces of the seatback frame and seat adjuster may injure your hand.
- Work must be started more than 90 seconds after the ignition switch is turned to the LOCK position and the negative (–) terminal cable is disconnected from the battery.
(The SRS is equipped with a back-up power source. If work is started within 90 seconds from disconnecting the negative (–) terminal cable of the battery, the SRS may deploy.)

HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- When removing/installing and overhauling the passenger seat, check the passenger occupant classification system and perform the zero point calibration (see page 05-1452).
- Use the same procedures for the RH side and LH side.
- A bolt without a torque specification is shown in the standard bolt chart (see page 03-2).

1. REMOVE FRONT SEAT TRACK COVER LH REAR OUTER

2. REMOVE FRONT SEAT TRACK COVER LH REAR INNER

3. REMOVE FRONT SEAT ASSY LH

HINT:

Set the power seat front vertical function to the highest position.

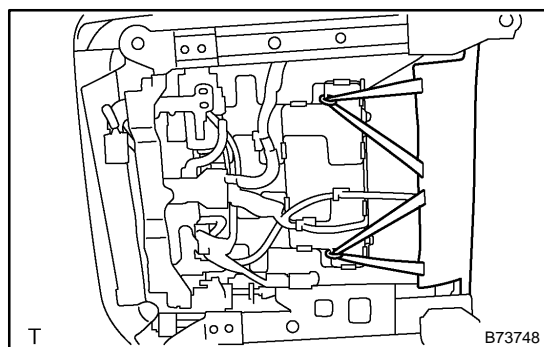
- Remove the headrest.
- Remove the 4 bolts and seat.
- Disconnect the connectors under the seat.

NOTICE:

Be careful not to damage the body.

4. Passenger's seat only:

REMOVE OCCUPANT CLASSIFICATION ECU (See page 60-72)

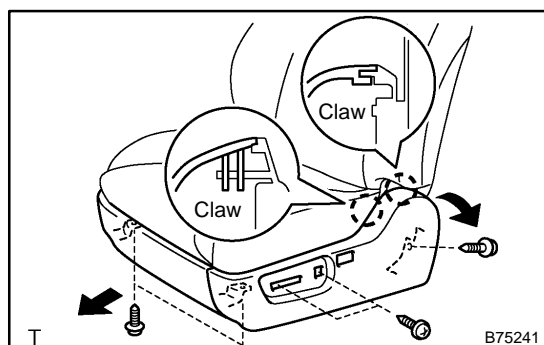


5. REMOVE FRONT SEAT CUSHION SHIELD LH

- Remove the 2 front seatback cover No. 2 hog rings under the seat.
- Using a screwdriver, remove the 2 reclining power seat switch knobs.

HINT:

Tape the screwdriver tip before use.

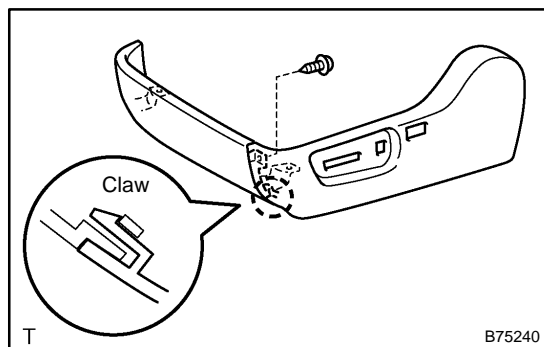


- Remove the 5 screws.
- Using a screwdriver, disengage the claws and remove the cushion shield LH together with the cushion shield inner No.1 LH, and then disconnect the connector.

HINT:

Tape the screwdriver tip before use.

- Driver's seat only:
Remove the 2 screws and lumbar support switch.

**6. REMOVE DUMMY'**

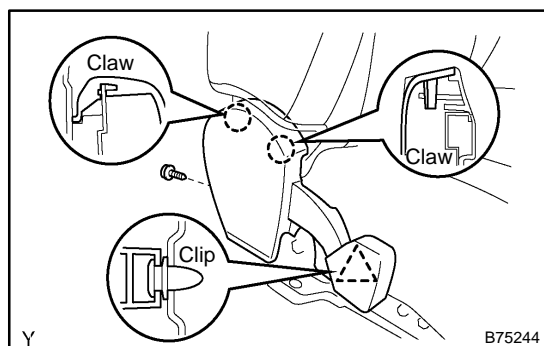
- (a) Remove the screw.
- (b) Using a screwdriver, disengage the claws and remove the inner from the cushion shield.

HINT:

Tape the screwdriver tip before use.

7. REMOVE FRONT SEAT INNER BELT ASSY LH

- (a) Disconnect the connector.
- (b) Remove the nut and inner belt.

**8. REMOVE FRONT SEAT CUSHION SHIELD INNER LH**

- (a) Remove the screw.
- (b) Using a screwdriver, disengage the 2 claws and clip and remove the cushion shield.

HINT:

Tape the screwdriver tip before use.

9. REMOVE FRONT POWER SEAT SWITCH LH

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

10. REMOVE FRONT SEAT CUSHION COVER

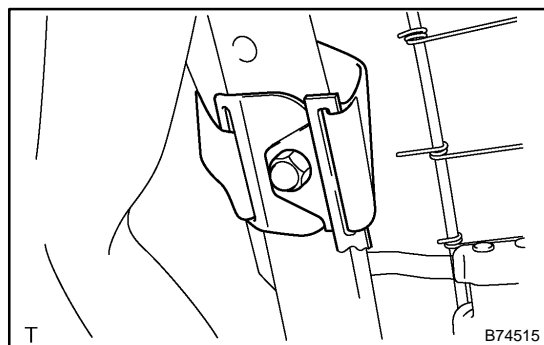
- (a) w/ Seat heater:
Disconnect the seat connectors.
- (b) Disengage the hook, and remove the seat cushion cover together with the pad.
- (c) Remove the hog rings and seat cushion cover.

11. w/ Seat heater:**REMOVE FRONT SEAT CUSHION HEATER ASSY LH**

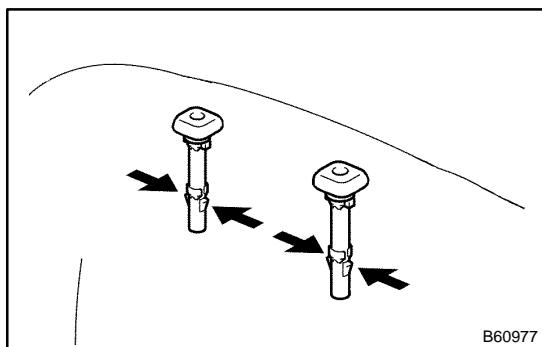
- (a) Cut off the tack pins which fasten the seat heater, and then remove the front seat heater from the seat cushion cover.

NOTICE:

Be careful not to damage the seat cushion cover.

**12. REMOVE FRONT SEATBACK COVER**

- (a) Remove the 2 screws and seatback board.
- (b) Disengage the hook and remove the front seatback cover No. 2.
- (c) w/ Side airbag:
Remove the hog rings, nut and seatback cover bracket.



- (d) Remove the 2 headrest supports.
- (e) Remove the hog rings and seatback cover together with the pad.
- (f) Remove the hog rings and seatback cover.

13. w/ Seat heater:

REMOVE FRONT SEATBACK HEATER ASSY LH

- (a) Cut off the tack pins which fasten the seat heater, and then remove the front seat heater from the seat back cover.

NOTICE:

Be careful not to damage the seat back cover.

14. REMOVE FRONT SEAT ADJUSTER SUB-ASSY LH

- (a) Remove the 2 screws and the lumbar support adjuster.
- (b) Remove the wire harness connector.
- (c) Remove the screw and reclining adjuster inside cover LH (upper).
- (d) Remove the screw and reclining adjuster inside cover RH (upper).
- (e) Remove the screw and reclining adjuster inside cover LH (lower).
- (f) Remove the screw and reclining adjuster inside cover RH (lower).
- (g) Remove the screw and front cushion shield lower LH.
- (h) Remove the screw and front cushion shield lower RH.

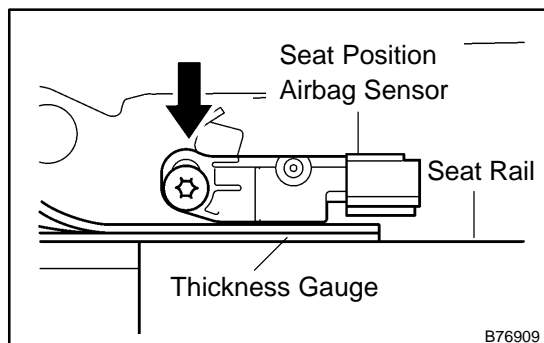
15. REMOVE POWER SEAT MOTOR ASSY

- (a) Remove the 2 screws each to remove the sliding motor, reclining motor, front vertical motor and rear vertical motor.

16. Driver's seat only:

REMOVE SEAT POSITION AIRBAG SENSOR

- (a) Disconnect the wire harness connector.
- (b) Using a torx socket wrench (T30), remove the torx bolt and airbag sensor.



17. Driver's seat only):

INSTALL SEAT POSITION AIRBAG SENSOR

- (a) Temporarily install the seat position airbag sensor.
- (b) Install a 1 mm thickness gauge between the slide rail and sensor as shown in the illustration.

NOTICE:

- If the seat position airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace the seat position airbag sensor with a new one.
- When installing the seat position airbag sensor, be careful that the SRS wiring does not interfere with other parts and is not pinched between other parts.

HINT:

Be sure to maintain a clearance between the seat position air-bag sensor and the seat rail is within 0.6 mm (0.023 in.) to 2 mm (0.079 in.).

- (c) Push the top of the sensor. While holding the sensor, tighten the sensor using a torx socket wrench (T30).

Torque: 8.0 N·m (82 kgf·cm, 71 in.-lbf)

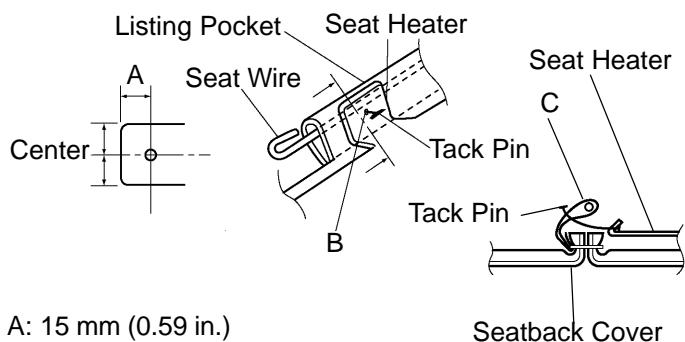
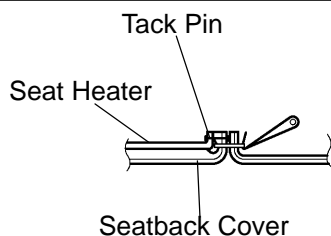
- (d) Connect the wire harness connector.

18. w/ Seat heater:**INSTALL FRONT SEATBACK HEATER ASSY LH**

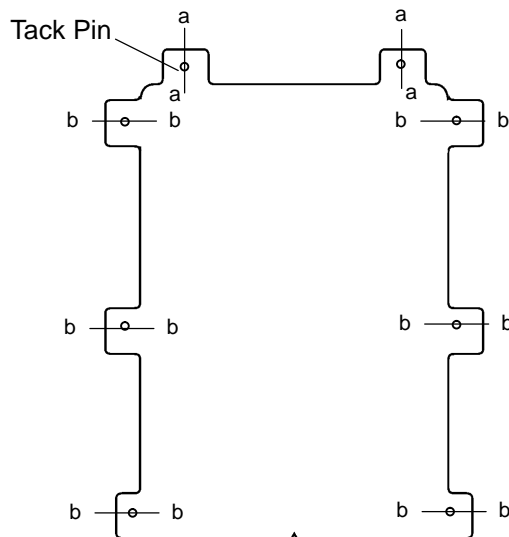
- (a) Set the seat heater to the seatback cover.
(b) Install the front seat heater to the seatback cover with the 8 tack pins.

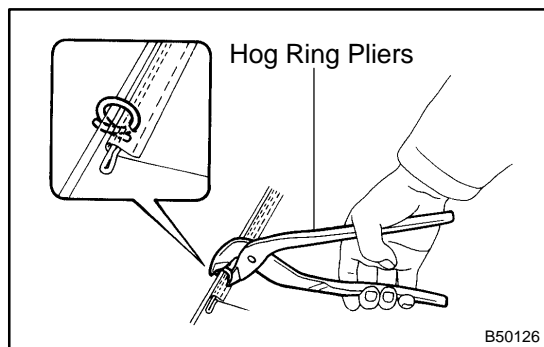
NOTICE:

Do not substitute other metal parts for tack pins.

a - a:**b - b:**

Tack pins should not be beyond the seat.

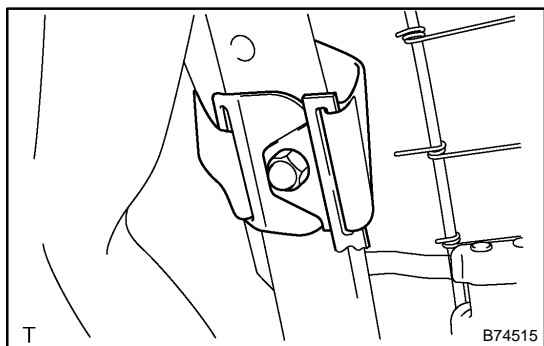


**19. INSTALL FRONT SEATBACK COVER**

- (a) Install the seatback pad.
- (b) Cover the top of the seatback pad with the seatback cover.
- (c) Install the 2 headrest supports.
- (d) Using hog ring pliers, install the seatback cover completely with new hog rings.

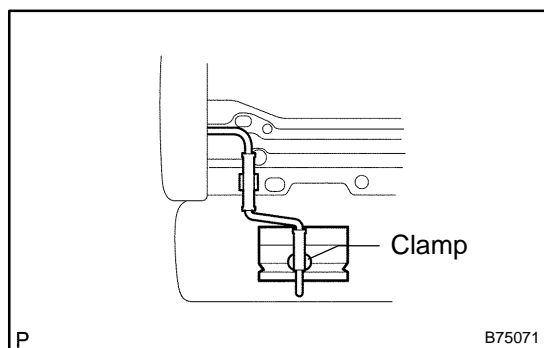
NOTICE:

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



- (e) w/ Side airbag:
Install the seatback cover bracket with the nut.

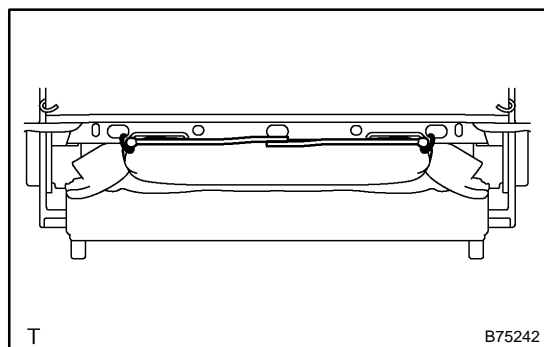
Torque: 5.5 N·m (56 kgf·cm, 48 in·lbf)



- (f) w/ Side airbag:
Install the wire harness and clamp of the side airbag through the seat cushion cover end.

NOTICE:

- **Be careful not to damage the cover.**



- (g) As shown in the illustration, attach a rubber with new hog rings.
- (h) Using hog ring pliers, install new hog rings.

NOTICE:

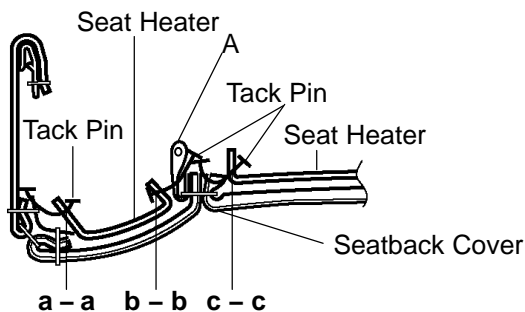
- **Be careful not to damage the cover.**
- **When installing the hog rings, take care to minimize wrinkles as much as possible.**

20. w/ Seat heater:**INSTALL FRONT SEAT CUSHION HEATER ASSY LH**

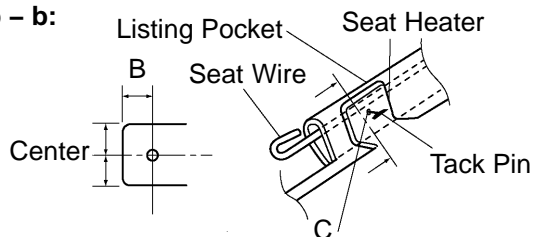
- (a) Set the seat heater to the seat cushion cover.
- (b) Install the seat heater to the seat cushion cover with the 24 tack pins.

NOTICE:

Do not substitute other metal parts for tack pins.

**a - a, c - c:**

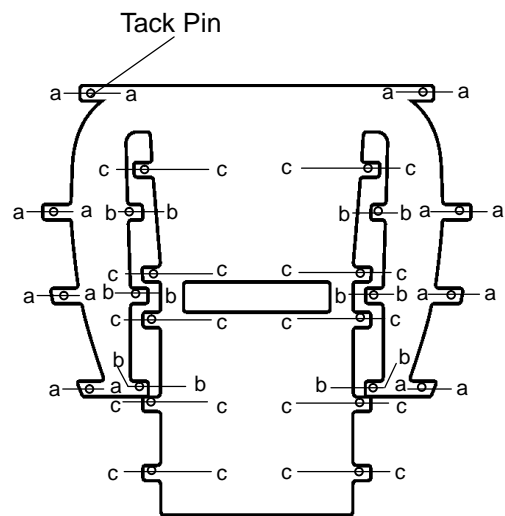
Tack pins should not be beyond the seat.

b - b:

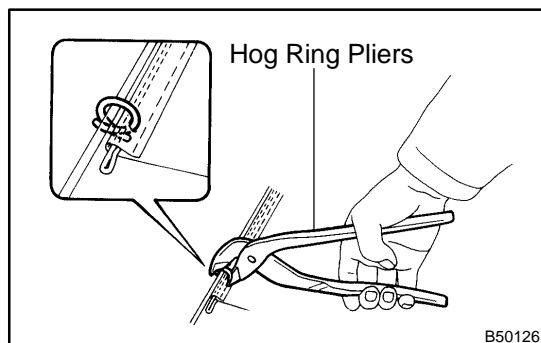
A: Install the tack pins under the wire.

B: 15 mm (0.59 in.)

C: Align the seat heater and the end of listing pocket.



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21. INSTALL FRONT SEAT CUSHION COVER

- (a) Install the seat cushion pad to the seat cushion cover.
- (b) Using hog ring pliers, install the cushion cover to the 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.

22. INSTALL FRONT SEAT INNER BELT ASSY LH

- (a) Install the inner belt with the nut.
Torque: 42 N·m (428 kgf·cm, 31 ft·lbf)
- (b) Connect the connectors.
- (c) Check that the inner seat belt moves smoothly.

23. INSTALL FRONT SEAT ASSY LH

- (a) Place the seat in the cabin.
- (b) Connect the connectors under the seat.
- (c) Tighten the 2 bolts on the front side of the seat.

Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)

- (d) Tighten the 2 bolts on the rear side of the seat.

Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)

- (e) Install the 2 seat track covers.
- (f) Install the headrest.

24. INSPECT POWER SEAT OPERATION (See page 72-4)**25. w/ Seat heater:****INSPECT SEAT HEATER OPERATION****26. Passenger's seat only:****INITIALIZE FRONT PASSENGER OCCUPANT CLASSIFICATION SYSTEM****HINT:**

Perform the zero point calibration or sensitivity check under the conditions listed below.

- The occupant classification ECU is replaced.
 - Accessories (seatback tray and seat cover, etc.) are installed.
 - The passenger's seat is removed from the vehicle and then reinstalled to the vehicle.
 - Both the SRS warning light and the passenger airbag ON/OFF indicator light ("OFF") come on.
 - The vehicle is brought to the work shop for repair due to an accident or a collision.
- (a) Zero point calibration procedure.
 - (1) Adjust the seat position according to the conditions below.

Adjustment Component	Position
Slide Direction	Rearmost position
Reclining Angle	Upright position
Headrest Height	Lowest position

- (2) Connect the hand-held tester to the DLC3.
- (3) Turn the ignition switch to the ON position.
- (4) Perform the zero point calibration by following the directions on the tester screen.

HINT:

Refer to the hand-held tester operator's manual for further details.

- (b) Sensitivity check procedure.

- (1) Connect the hand-held tester to the DLC3.
- (2) Apply a 30 kg weight (for example, a 30 kg of lead mass) onto the passenger seat.
- (3) Turn the ignition switch to the ON position.
- (4) Using the hand-held tester, perform the sensitivity check and confirm that the sensitivity is within the standard value.

Standard value: 27 to 33 kg

HINT:

- When performing the sensitivity check, use a solid weight made from metal. The check result may not be accurate if a weight made from liquid is used.
- When the sensitivity deviates from the standard value, retighten the bolts of the passenger seat, taking care not to deform the seat rail. Perform the sensitivity check again. If the sensitivity still does not stay within the standard value, replace the front RH seat assy.

NOTICE:

Do not place any objects on the seat. Perform the initialization by attaching a mass heavier than 2 kgs in the seatback pocket, seatback table installed by the user, or other appropriate location.