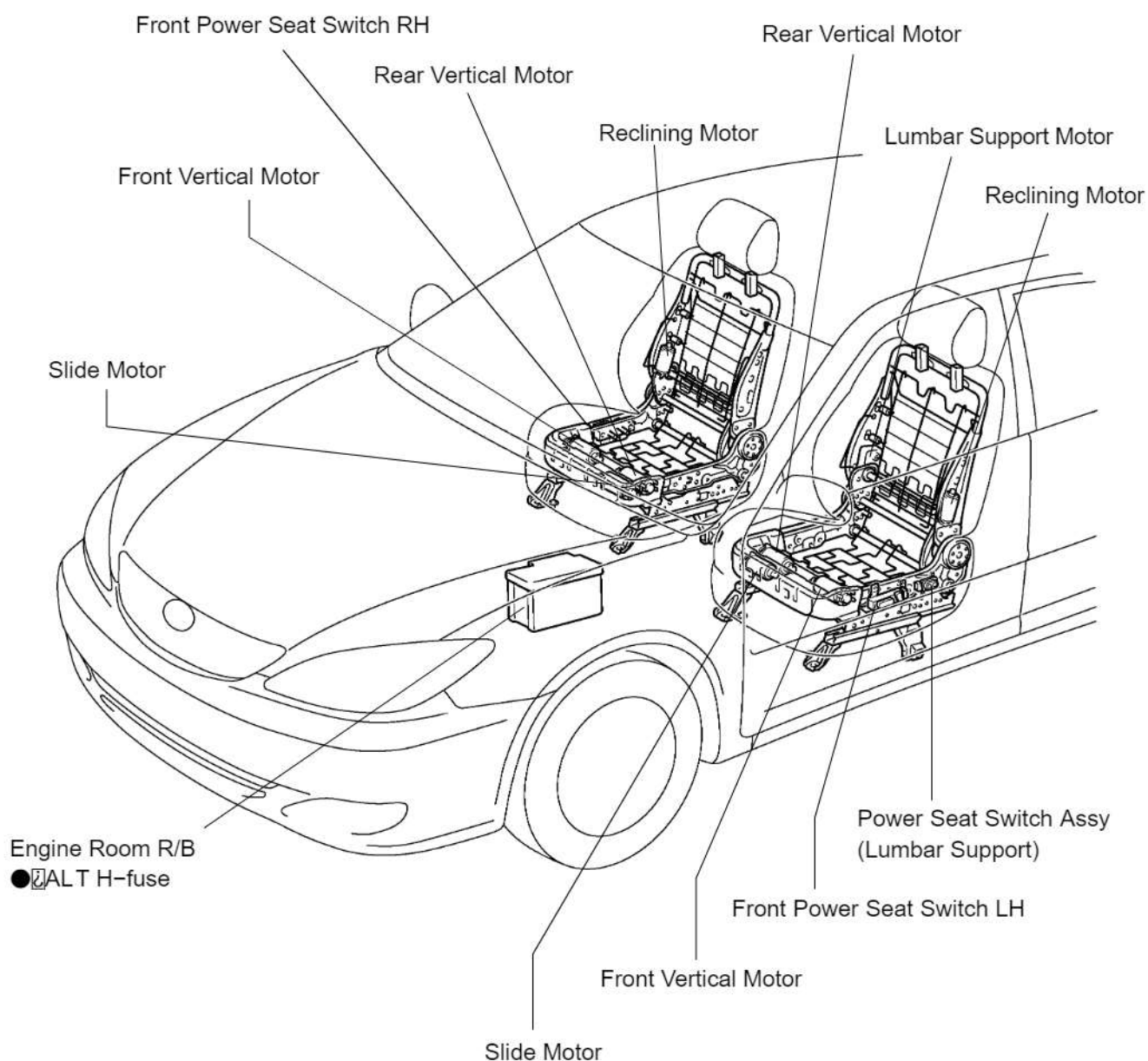


FRONT POWER SEAT CONTROL SYSTEM (From July, 2003)

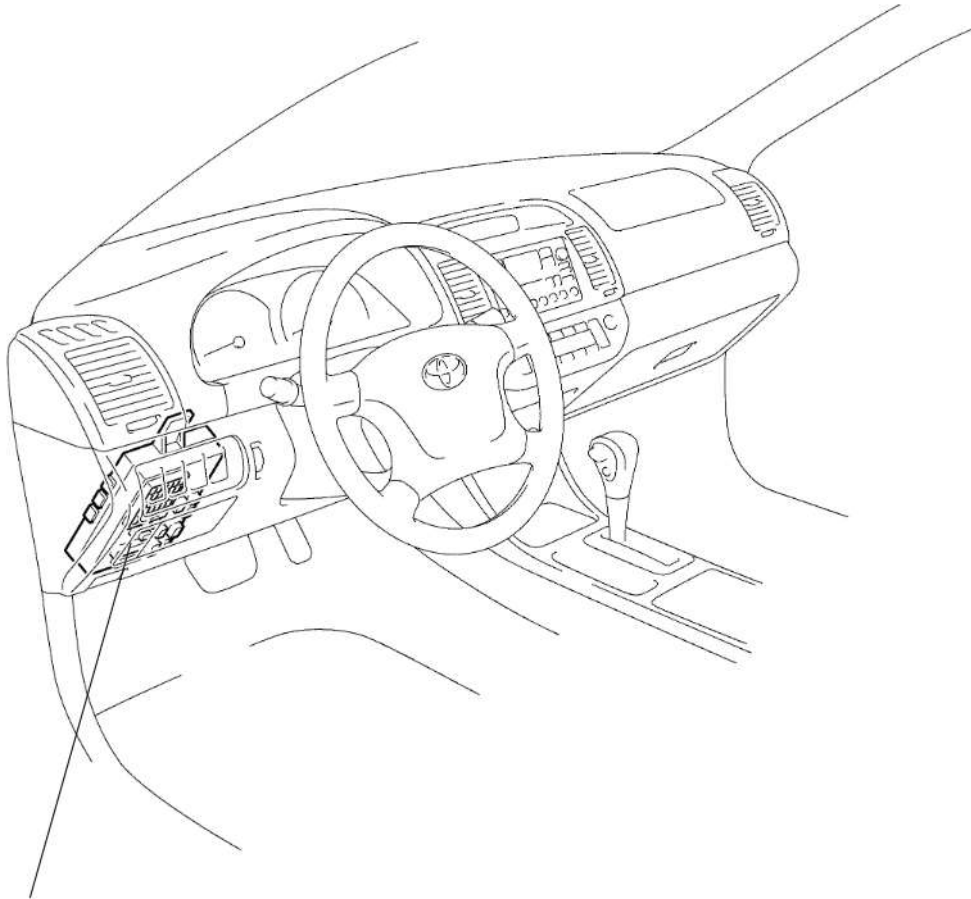
LOCATION

72001-01



T

B75072

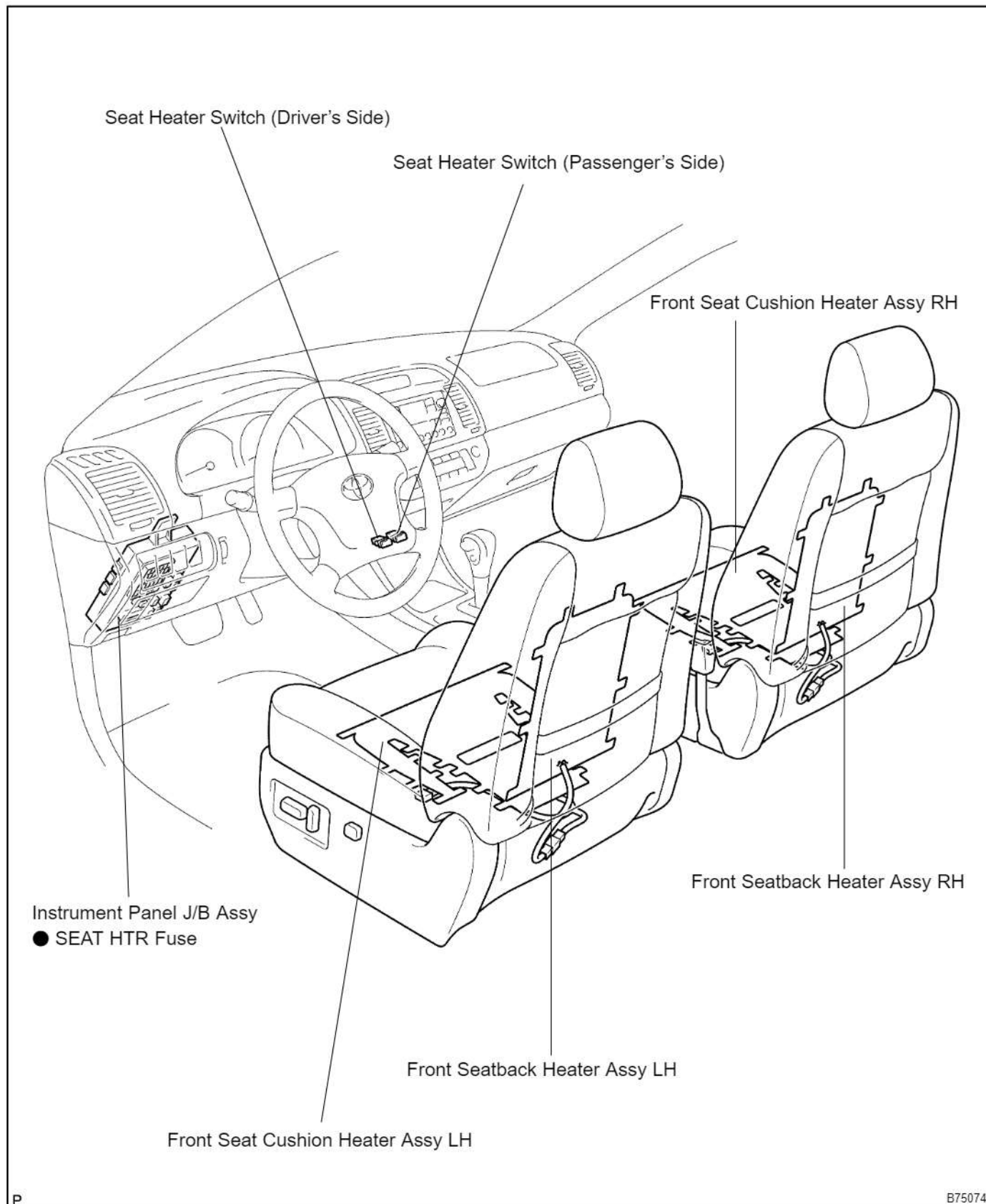


Instrument Panel J/B Assy

● PWR SEAT M-fuse

SEAT HEATER SYSTEM LOCATION

720PQ-01



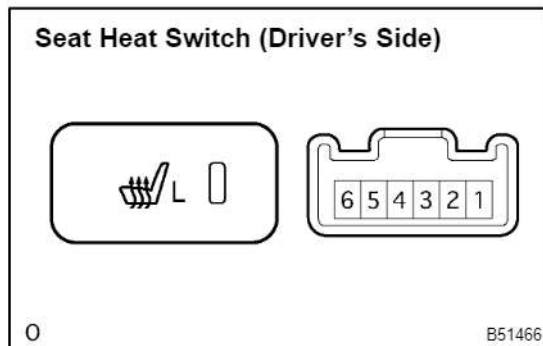
PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See page
Seat heaters do not operate	1. SEAT HTR fuse	72-10
	2. Front seat cushion heater assy LH	72-12
	3. Front seat cushion heater assy RH	72-12
	4. Front seatback heater assy LH	72-12
	5. Front seatback heater assy RH	72-12
	6. Seat heater switch	72-12
	7. Wire harness	–

INSPECTION

HINT:

- On the RH side, use in the same procedure as on the LH side.



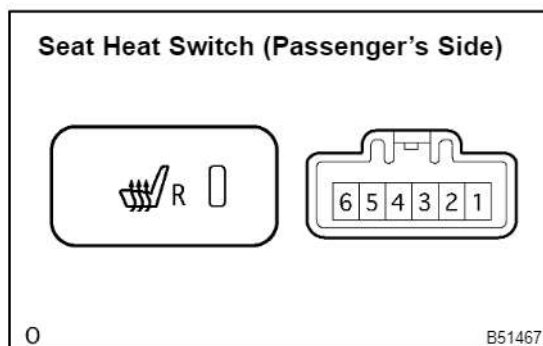
1. INSPECT SEAT HEATER SWITCH

- (a) Inspect the seat heater switch (driver's side) continuity.

Standard:

Terminal No.	Condition	Specified condition
4 ⇔ 6	OFF	Continuity
3 ⇔ 4 ⇔ 6	ON	Continuity
1 ⇔ 2	Illumination	Continuity (always)

If the continuity is not as specified, replace the seat heater switch.

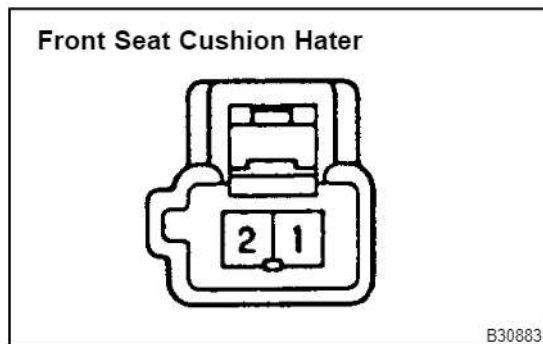


- (b) Inspect the seat heater switch (passenger's side) continuity.

Standard:

Terminal No.	Condition	Specified condition
4 ⇔ 6	OFF	Continuity
3 ⇔ 4 ⇔ 6	ON	Continuity
1 ⇔ 2	Illumination	Continuity (always)

If the continuity is not as specified, replace the seat heater switch.



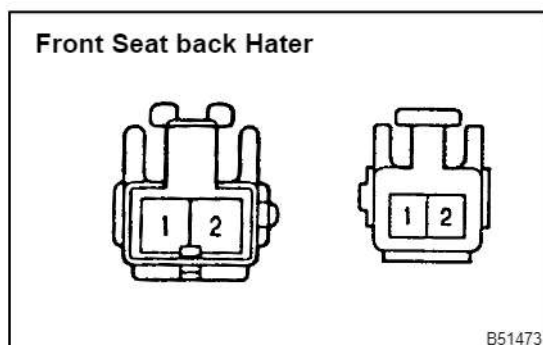
2. INSPECT FRONT SEAT CUSHION HEATER ASSY LH

- (a) Inspect the seat cushion heater assembly LH continuity.

Standard:

Terminal No.	Condition	Specified condition
1 ⇔ 2	Constant	Continuity

If the continuity is not as specified, replace the seat cushion heater assembly.



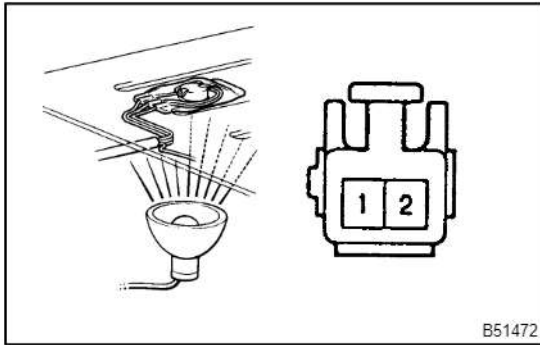
3. INSPECT FRONT SEAT BACK HEATER ASSY LH

- (a) Inspect the seat back heater assembly LH continuity.

Standard:

Terminal No.	Condition	Specified condition
1 ⇔ 2	Constant	Continuity

If the continuity is not as specified, replace the seat back heater assembly.



- (b) Inspect the seat cushion thermostat continuity.
- (1) Disconnect the seat back heater from the seat cushion heater LH.
 - (2) Heat up the thermostat LH with a heat light.
 - (3) Inspect the seat cushion heater continuity between the terminals.

Standard:

Terminal No.	Condition	Specified condition
1 ↔ 2	Seat heater temp. below 25 – 35★C (77 – 95★F)	Continuity
	Seat heater temp. 25 – 35★C (77 – 95★F)	No continuity

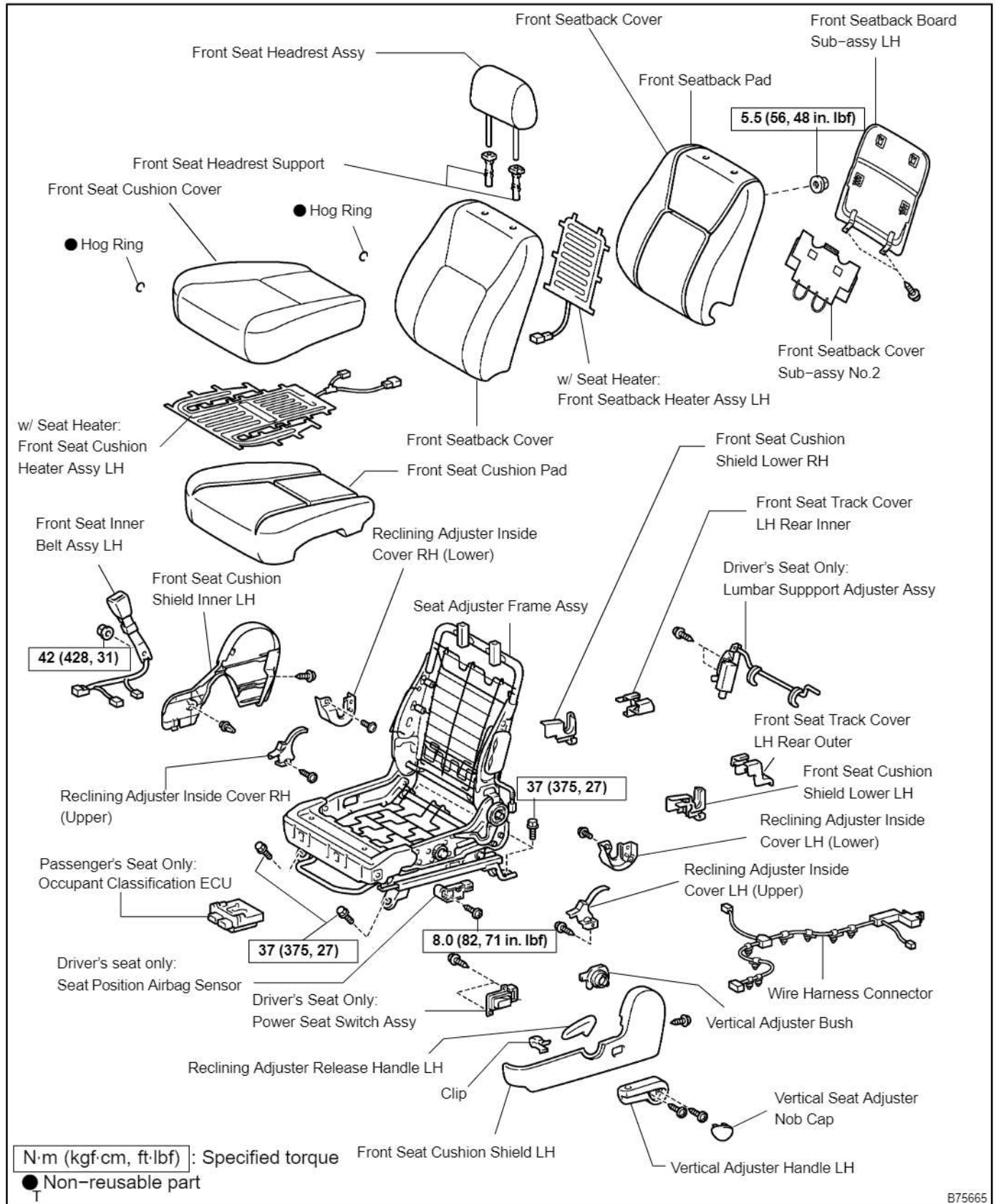
If the continuity is not as specified, replace the seat heater cushion heater assembly.

4. INSPECT FRONT SEAT CUSHION HEATER ASSY RH
5. INSPECT FRONT SEAT BACK HEATER ASSY RH

FRONT SEAT ASSEMBLY (MANUAL SEAT TYPE)

COMPONENTS

72007-02



B75665

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:

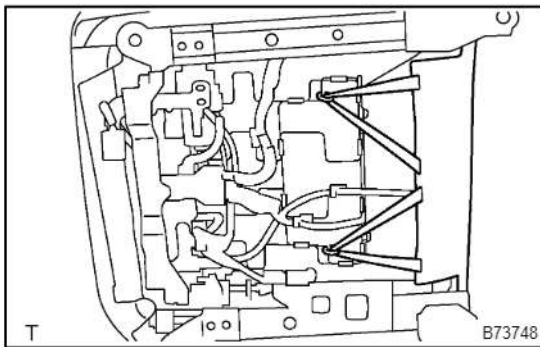
Set the front vertical function to the highest position.

- (a) Remove the headrest.
- (b) Disconnect the connectors under the seat.
- (c) Remove the 4 bolts and seat.

NOTICE:

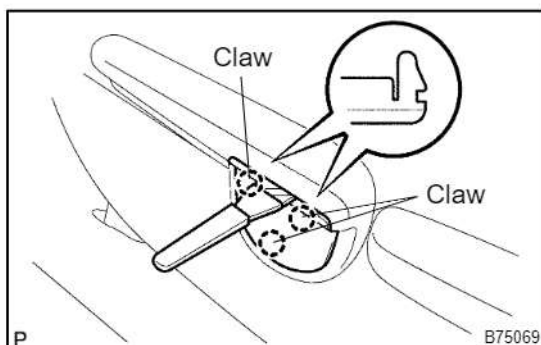
Be careful not to damage the body.

4. Passenger's seat only:
REMOVE OCCUPANT CLASSIFICATION ECU (See page 60-72)



5. REMOVE VERTICAL ADJUSTER HANDLE LH

- (a) Remove the 2 front seatback cover No. 2 hog rings under the seat.

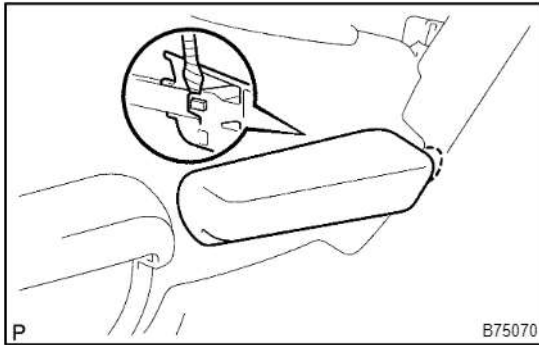


- (b) Using a scraper, disengage the 3 claws and remove the vertical seat adjuster nob cap.

HINT:

Tape the scraper tip before use.

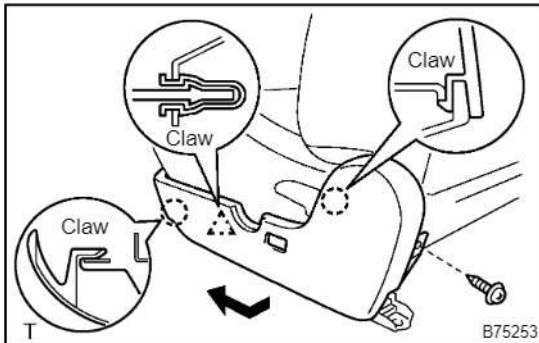
- (c) Remove the 2 screws and vertical adjuster handle.



- 6. REMOVE RECLINING POWER SEAT SWITCH KNOB**
 (a) Using a screwdriver, pry out the reclining adjuster release handle.

HINT:

Tape the screwdriver tip before use.



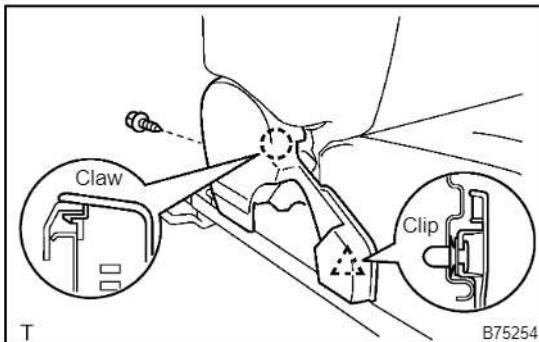
- 7. REMOVE FRONT SEAT CUSHION SHIELD LH**
 (a) Remove the screw.
 (b) Using a screwdriver, disengage the 2 claws and clip, and remove the cushion shield.

HINT:

Tape the screwdriver tip before use.

8. REMOVE FRONT SEAT INNER BELT ASSY LH

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



- 9. REMOVE FRONT SEAT CUSHION SHIELD INNER LH**
 (a) Remove the screw.
 (b) Using a screwdriver, disengage the claw and clip, and remove the cushion shield.

HINT:

Tape the screwdriver tip before use.

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.

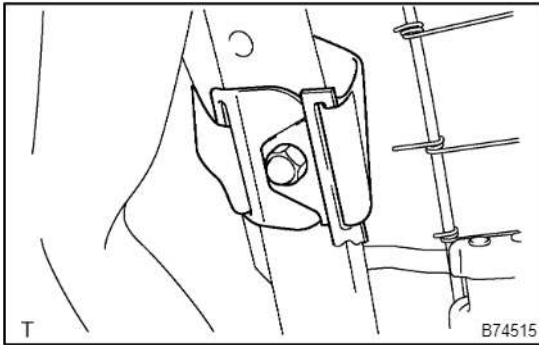
11. w/ Seat heater:

REMOVE FRONT SEAT CUSHION HEATER ASSY LH

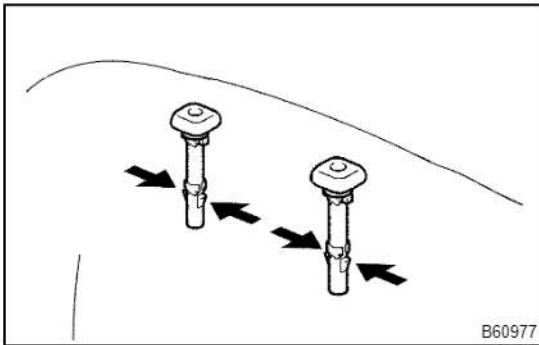
- (a) Cut off the tack pins which fasten the seat heater, and then remove the front seat heater from the seat cushion cover.

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 seatback cover.

NOTICE:

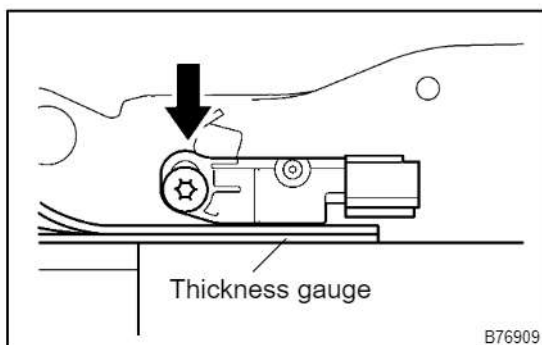
Be careful not to damage the seatback cover.

14. REMOVE FRONT SEAT ADJUSTER SUB-ASSY LH

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

15. 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.

**16. 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 airbag 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)

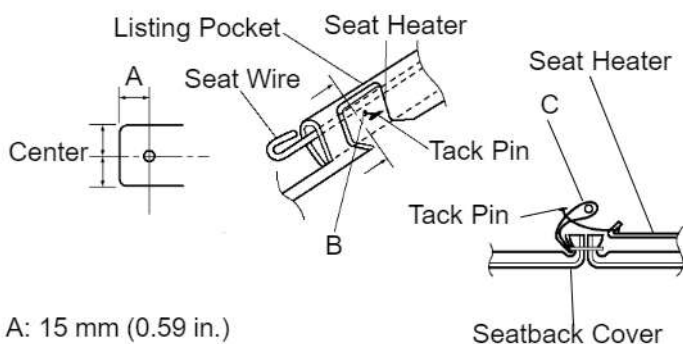
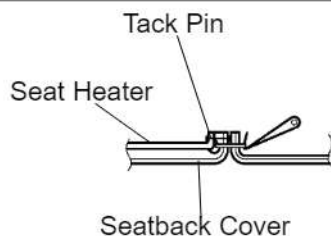
- (d) Connect the wire harness connector.

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

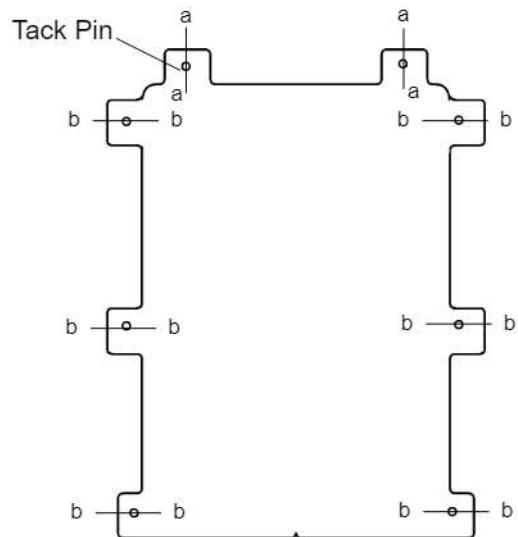
- (a) Set the seat heater to the seatback cover.
 (b) Install the front seat heater to the seatback cover with the 8 tack pins.

NOTICE:

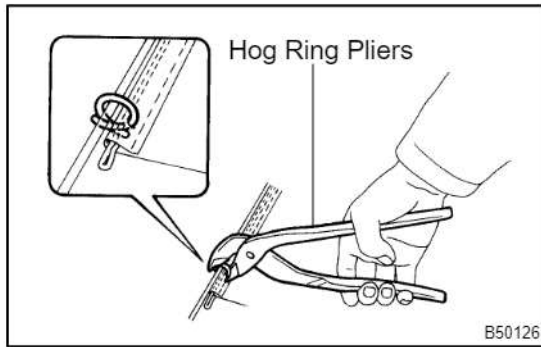
Do not substitute other metal parts for tack pins.

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

Tack pins should not be beyond the seat.



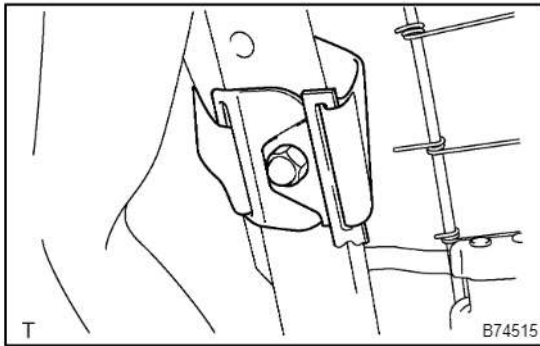
B57684

**18. INSTALL FRONT SEATBACK COVER**

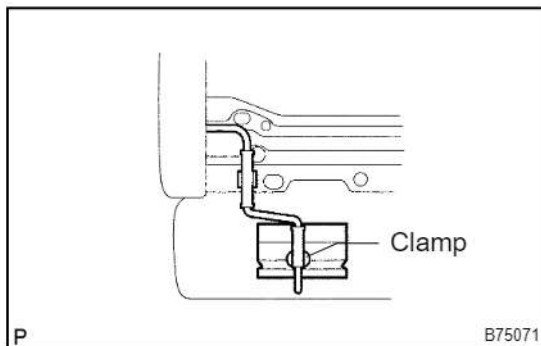
- (a) Install the seatback pad.
- (b) Cover the top of the seatback pad with the seatback cover.
- (c) Install the 2 headrest supports.
- (d) Using hog ring pliers, install the seatback cover completely with new hog rings.

NOTICE:

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



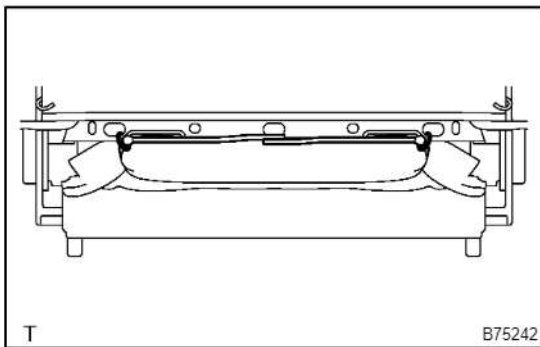
- (e) w/ Side airbag:
Install the seatback cover bracket with the nut.
Torque: 5.5 N·m (56 kgf·cm, 48 in·lbf)



- (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.

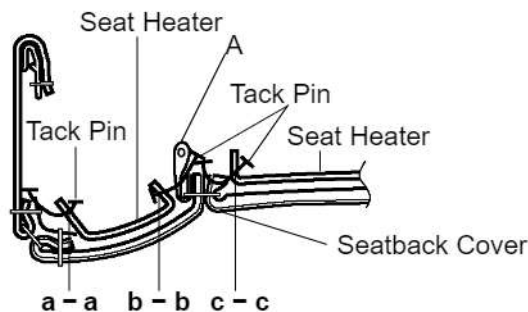
When installing the hog rings, take care to minimize wrinkles as much as possible.

19. 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:

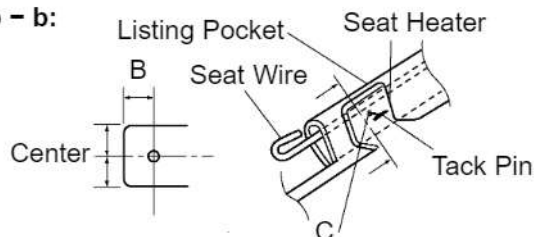
Do not substitute other metal parts for tack pins.



a - a, c - c:

Tack pins should not be beyond the seat.

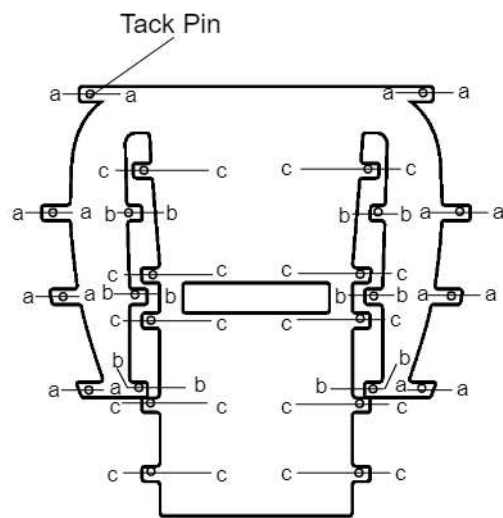
b - b:



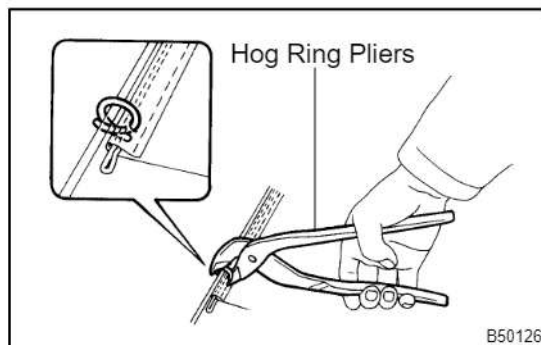
A: Install the tack pins under the wire.

B: 15 mm (0.59 in.)

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



B57686

**20. INSTALL FRONT SEAT CUSHION COVER**

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

NOTICE:

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

21. 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.

22. 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.

23. w/ Seat heater:**INSPECT SEAT HEATER OPERATION****24. Passenger 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.

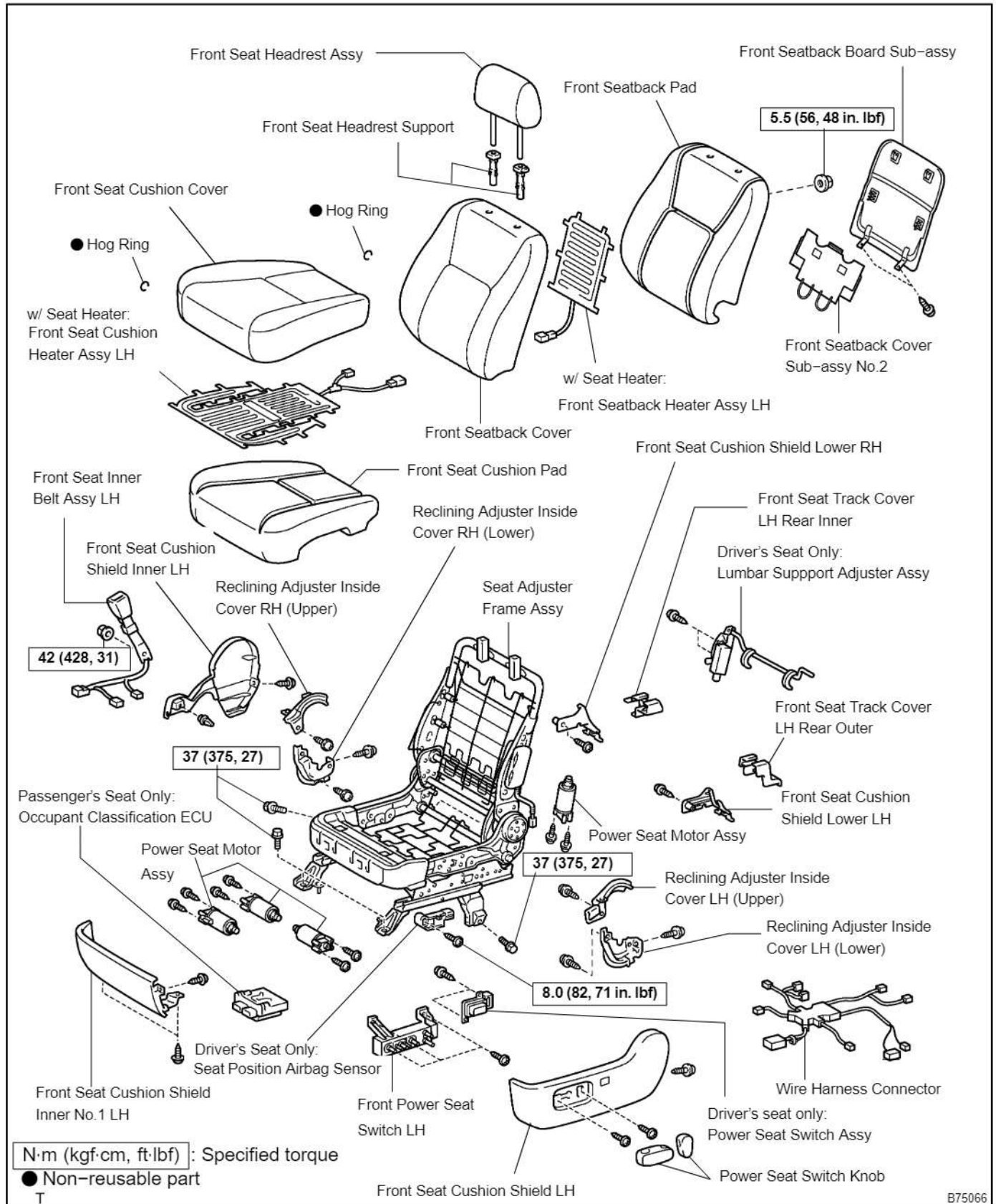
NOTICE:

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.

FRONT SEAT ASSEMBLY (POWER SEAT TYPE)

COMPONENTS

72005-02



B75066

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:

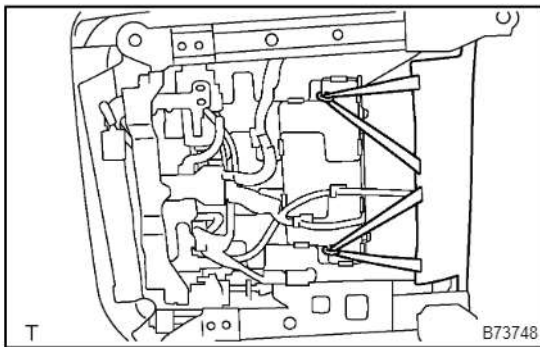
Set the power seat front vertical function to the highest position.

- (a) Remove the headrest.
- (b) Remove the 4 bolts and seat.
- (c) 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)

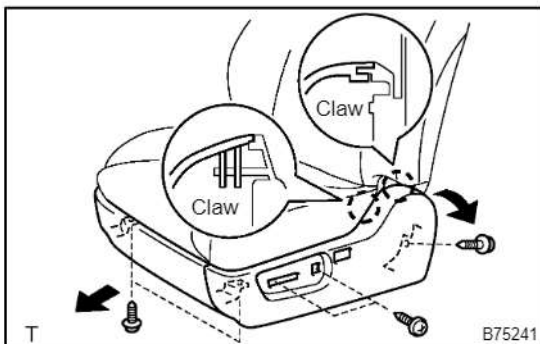


5. REMOVE FRONT SEAT CUSHION SHIELD LH

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

HINT:

Tape the screwdriver tip before use.

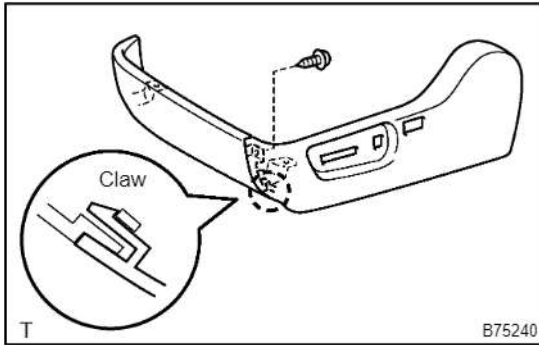


- (c) Remove the 5 screws.
- (d) Using a screwdriver, disengage the claws and remove the cushion shield LH together with the cushion shield inner No.1 LH, and then disconnect the connector.

HINT:

Tape the screwdriver tip before use.

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

**6. REMOVE DUMMY'**

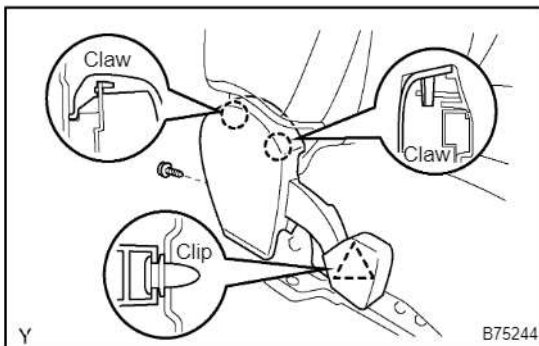
- (a) Remove the screw.
- (b) Using a screwdriver, disengage the claws and remove the inner from the cushion shield.

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

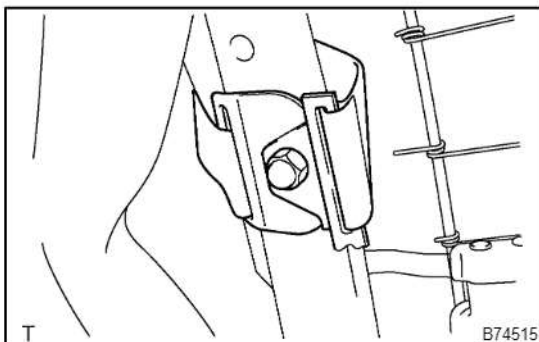
- (a) w/ Seat heater:
Disconnect the seat connectors.
- (b) Disengage the hook, and remove the seat cushion cover together with the pad.
- (c) Remove the hog rings and seat cushion cover.

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

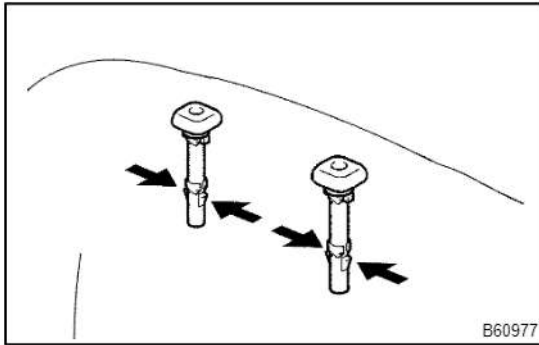
- (a) Cut off the tack pins which fasten the seat heater, and then remove the front seat heater from the seat cushion cover.

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.

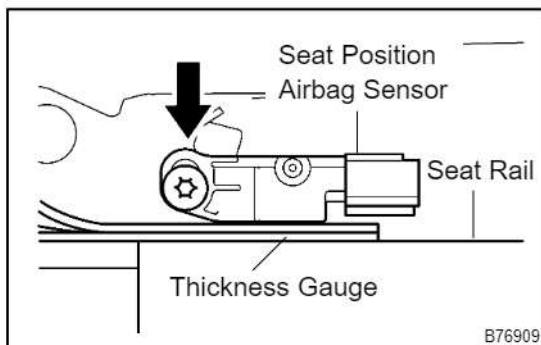
15. REMOVE POWER SEAT MOTOR ASSY

- (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)

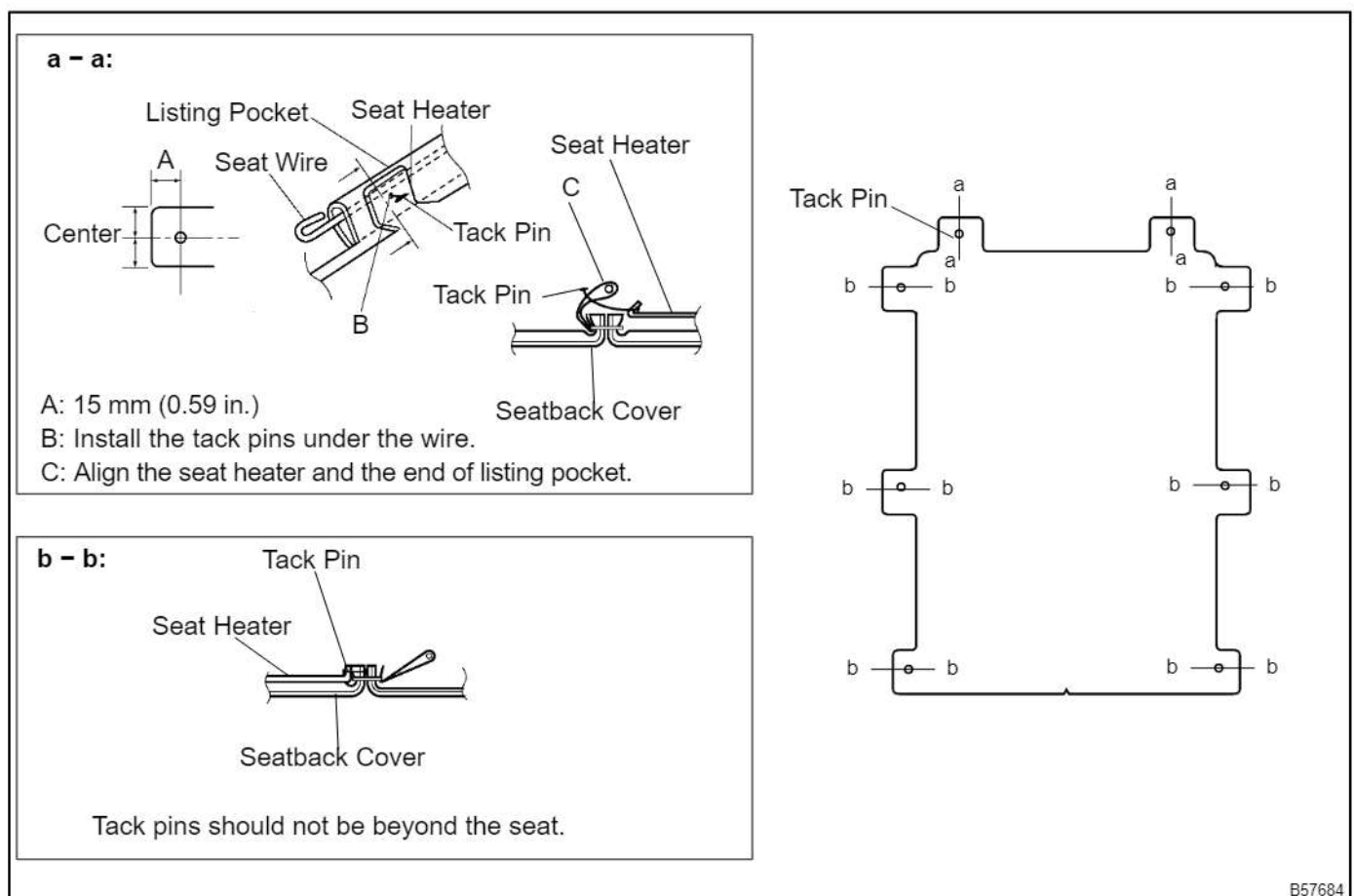
- (d) Connect the wire harness connector.

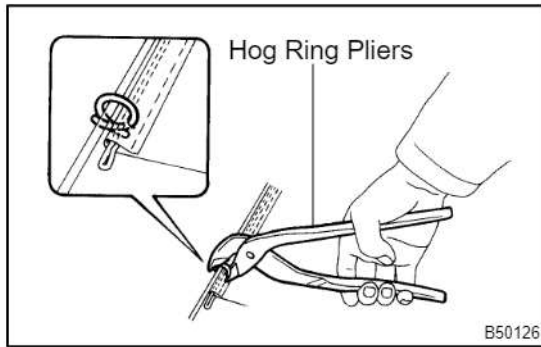
18. w/ Seat heater:**INSTALL FRONT SEATBACK HEATER ASSY LH**

- (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.

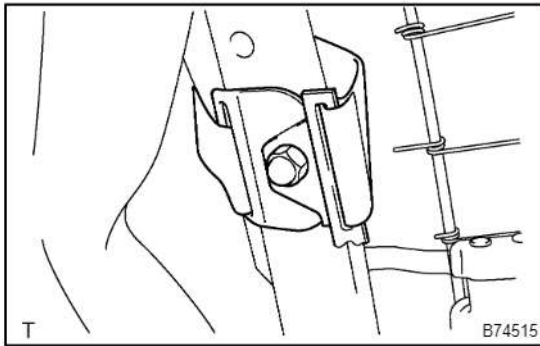


**19. INSTALL FRONT SEATBACK COVER**

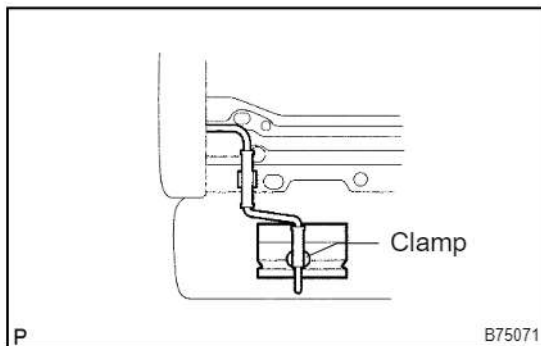
- (a) Install the seatback pad.
- (b) Cover the top of the seatback pad with the seatback cover.
- (c) Install the 2 headrest supports.
- (d) Using hog ring pliers, install the seatback cover completely with new hog rings.

NOTICE:

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



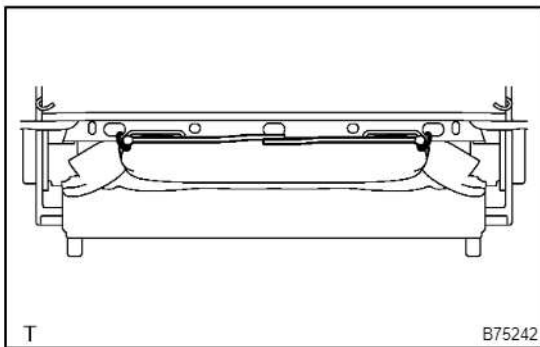
- (e) w/ Side airbag:
Install the seatback cover bracket with the nut.
Torque: 5.5 N·m (56 kgf·cm, 48 in·lbf)



- (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:

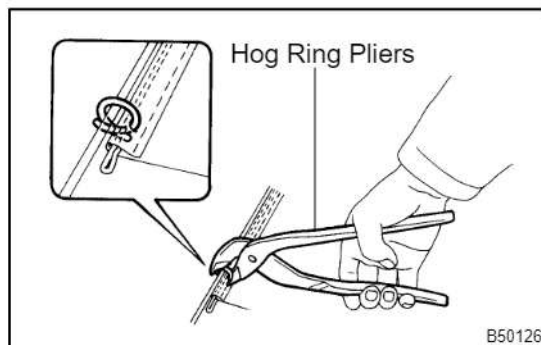
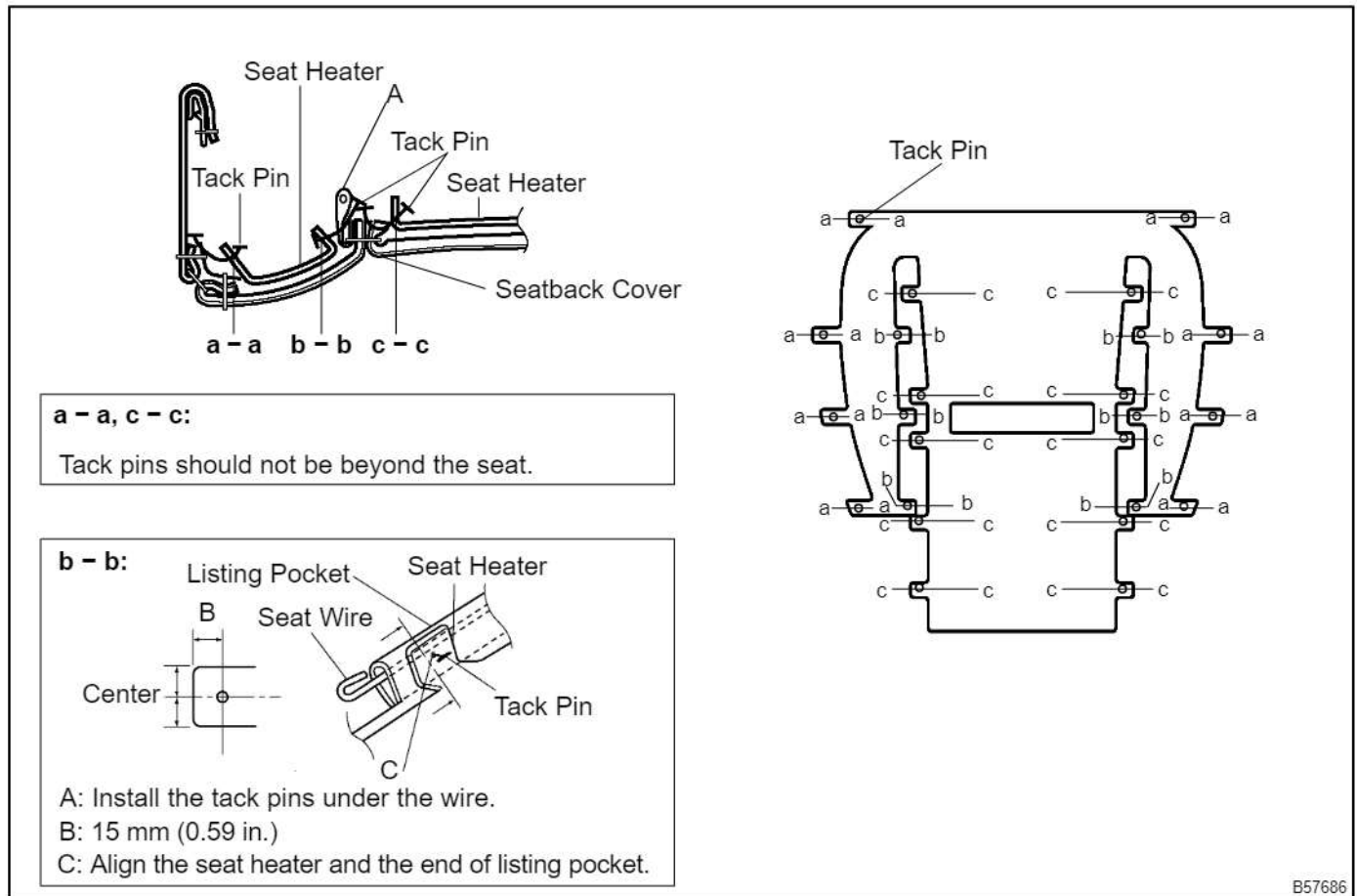
- **Be careful not to damage the cover.**
- **When installing the hog rings, take care to minimize wrinkles as much as possible.**

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.

**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:

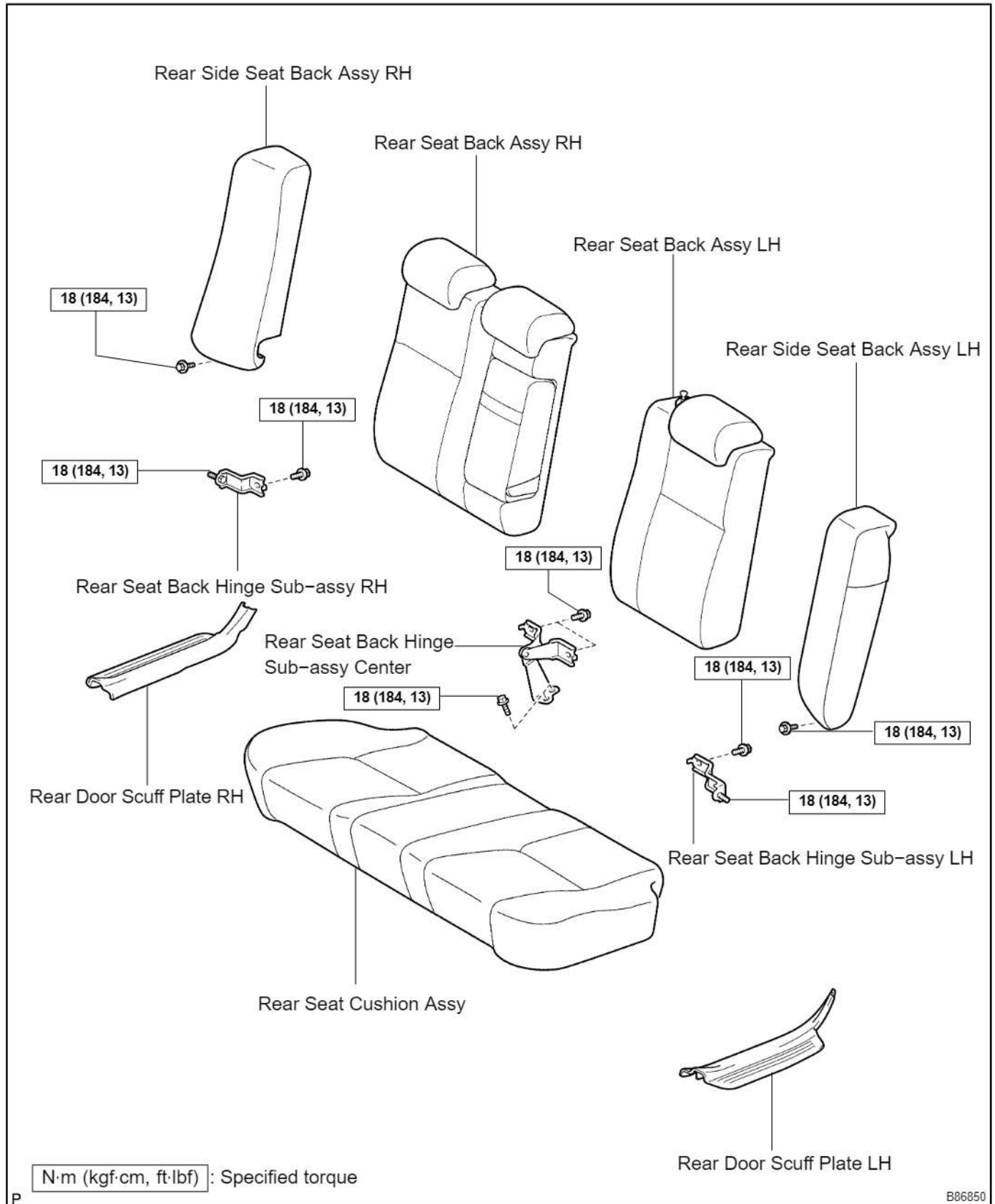
Do not place any objects on the seat. Perform the initialization by attaching a mass heavier than 2 kgs in the seatback pocket, seatback table installed by the user, or other appropriate location.

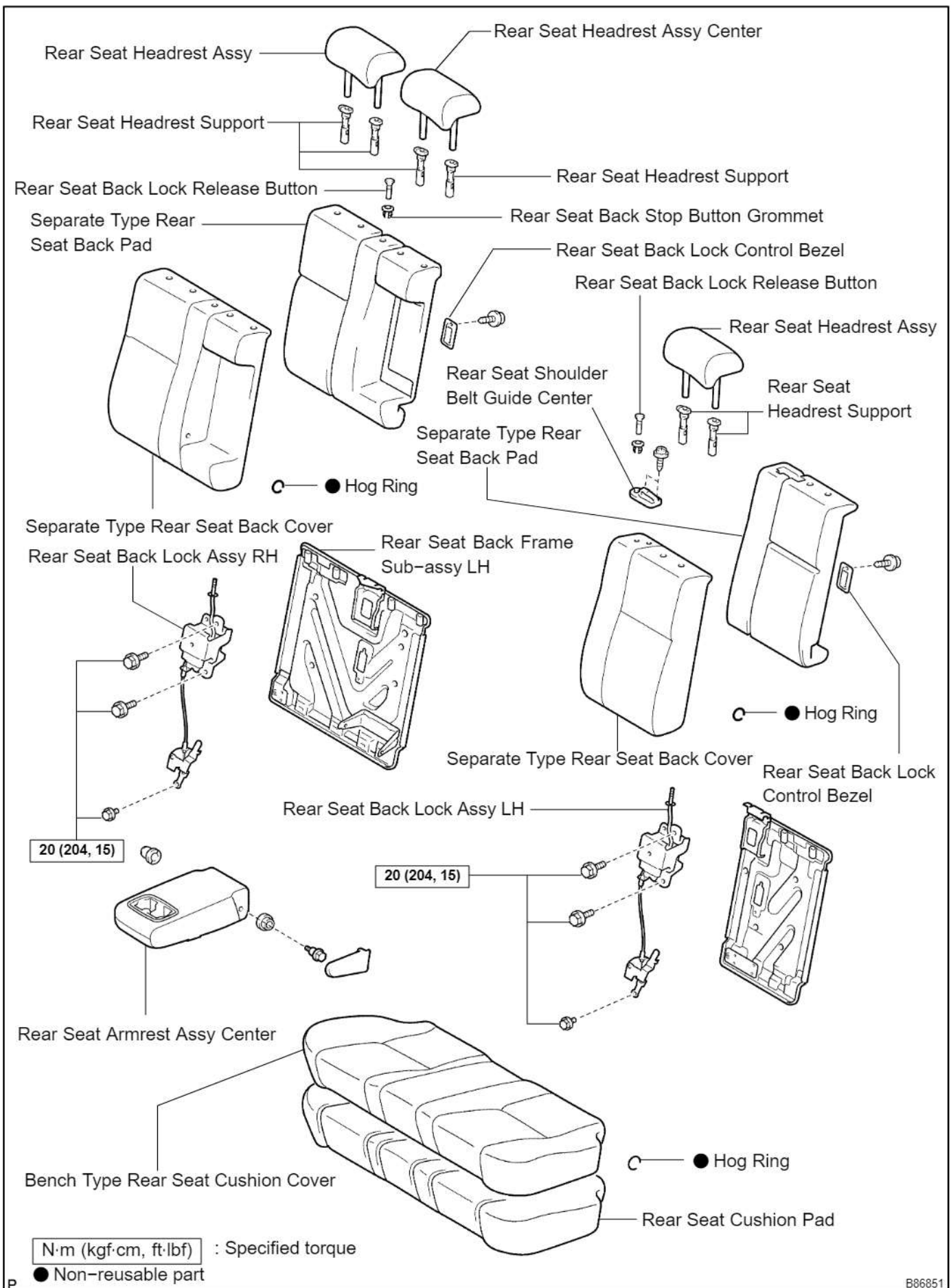
PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See Page
All power seat functions do not operate	1. P/SEAT M-fuse 2. Front power seat switch 3. Wire harness	72-1 72-6 –
Only slide operation function does not operate	1. Front power seat switch 2. Slide motor 3. Wire harness	72-6 72-6 –
Only front vertical operation function does not operate	1. Front power seat switch 2. Front vertical motor 3. Wire harness	72-6 72-6 –
Only rear vertical operation function does not operate	1. Front power seat switch 2. rear vertical motor 3. Wire harness	72-6 72-6 –
Only reclining operation function does not operate	1. Front power seat switch 2. Reclining motor 3. Wire harness	72-6 72-6 –
Only lumbar support operation function does not operate (driver's seat only)	1. Power seat switch assy (Lumbar support) 2. Lumbar support adjuster motor 3. Wire harness	72-6 72-6 –

REAR SEAT ASSEMBLY COMPONENTS

720WS-01



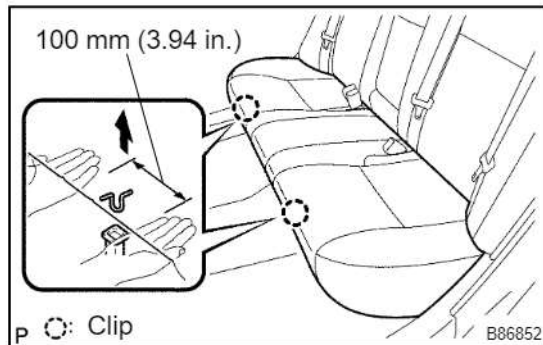


OVERHAUL

HINT:

- COMPONENT: SEE PAGE 72-30.
- Installation is in the reverse order of removal.
- Only installation procedures requiring additional information are included.
- A bolt without a torque specification is shown in the standard bolt chart (see page 03-2).

1. **REMOVE REAR DOOR SCUFF PLATE LH (SEE PAGE 76-22)**
2. **REMOVE REAR DOOR SCUFF PLATE RH (SEE PAGE 76-22)**



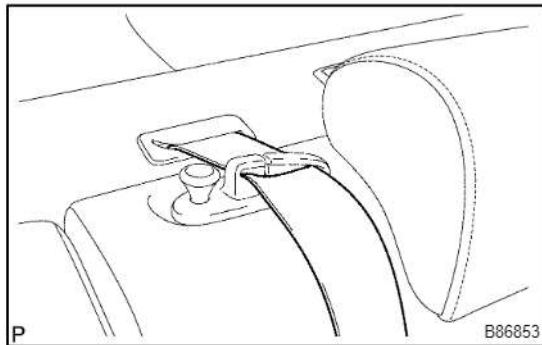
3. REMOVE REAR SEAT CUSHION ASSY

- (a) Pull up the 2 portions of the rear seat cushion assy as shown in the illustration and remove it.

A: 100 mm (3.94 in.) or less

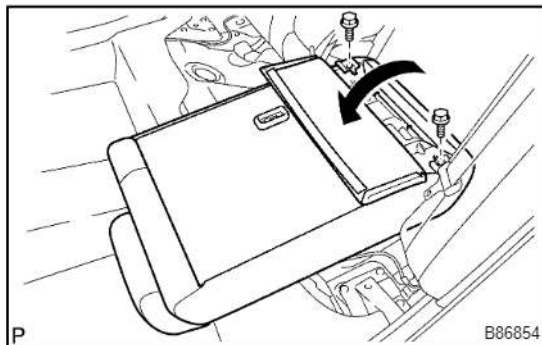
NOTICE:

In this case, hold the base of the clip up to prevent the cushion frame from being distorted.



4. REMOVE REAR SEAT BACK ASSY LH

- (a) Remove the rear seat belt from the rear seat shoulder belt guide center.

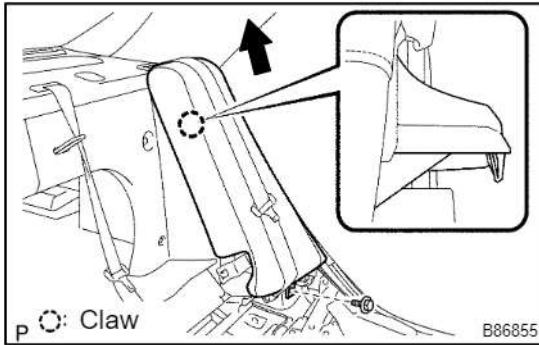


- (b) Fold the rear seat assy LH forward and open the separate type rear seat back cover.
- (c) Remove the 2 bolts and the rear seat back assy LH.

5. REMOVE REAR SEAT BACK ASSY RH

HINT:

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



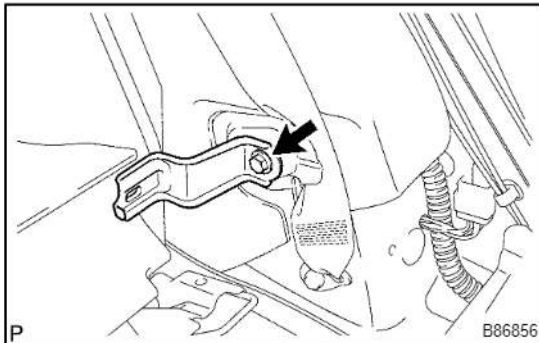
6. REMOVE REAR SIDE SEAT BACK ASSY LH

- (a) Remove the bolt and the rear side seat back assy LH as shown in the illustration.

7. REMOVE REAR SIDE SEAT BACK ASSY RH

HINT:

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



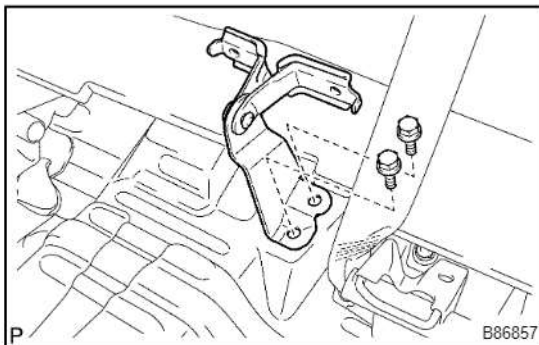
8. REMOVE REAR SEAT BACK HINGE SUB-ASSY LH

- (a) Remove the bolt and the rear seat back hinge sub-assy LH.

9. REMOVE REAR SEAT BACK HINGE SUB-ASSY RH

HINT:

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

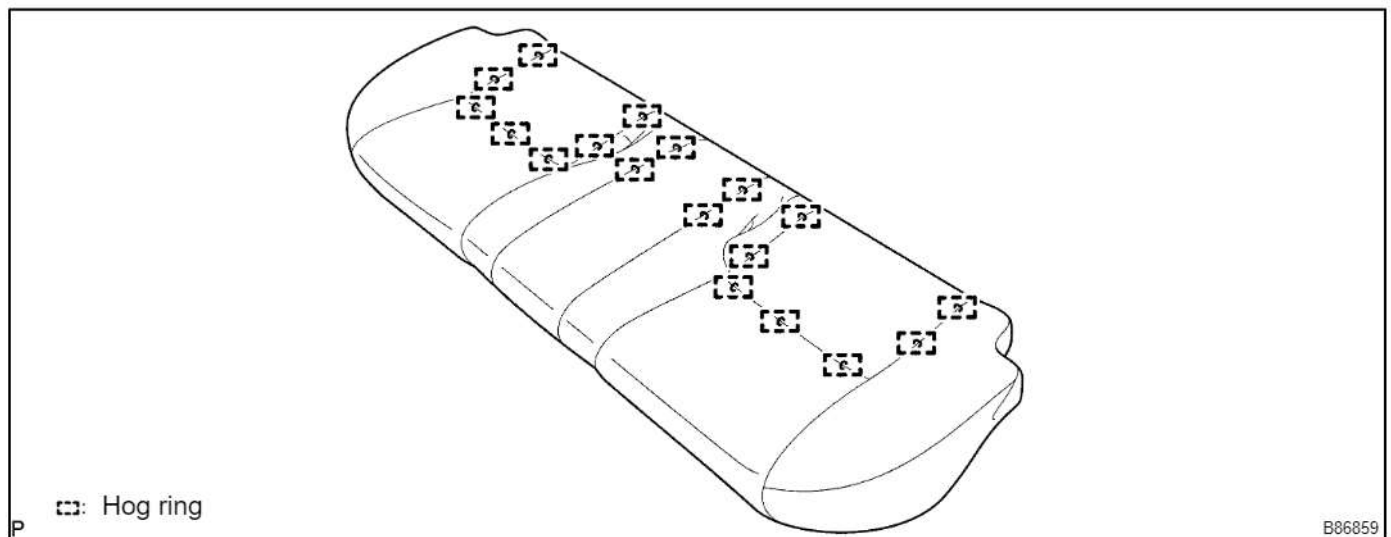
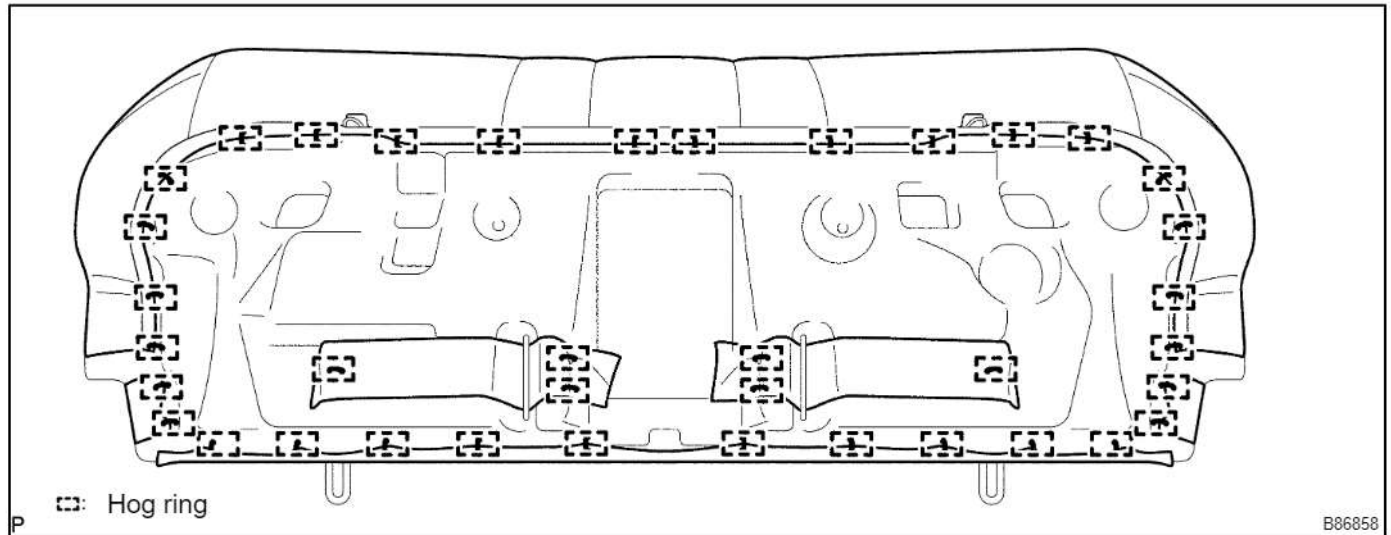
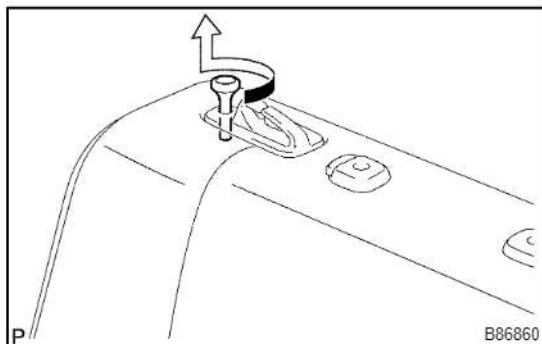


10. REMOVE REAR SEAT BACK HINGE SUB-ASSY CENTER

- (a) Remove the 2 bolts and the rear seat back hinge sub-assy center.

11. REMOVE BENCH TYPE REAR SEAT CUSHION COVER

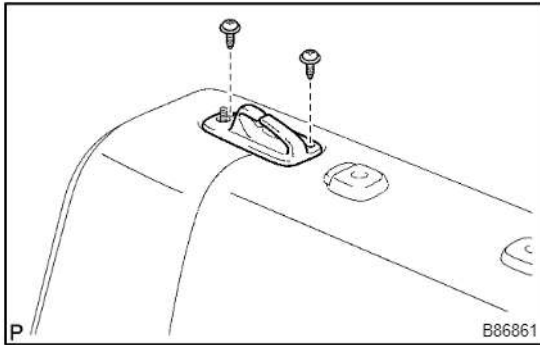
- (a) Remove the 56 hog rings and the bench type rear seat cushion cover.

**12. REMOVE REAR SEAT HEADREST ASSY****13. REMOVE REAR SEAT HEADREST ASSY CENTER****14. REMOVE REAR SEAT BACK LOCK RELEASE BUTTON**

- (a) Remove the rear seat back lock release button as shown in the illustration.

HINT:

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

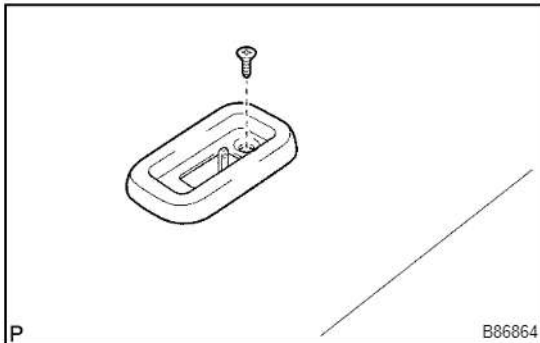


15. REMOVE REAR SEAT SHOULDER BELT GUIDE CENTER

- (a) Remove the 2 screws and the rear seat shoulder belt guide center.

HINT:

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

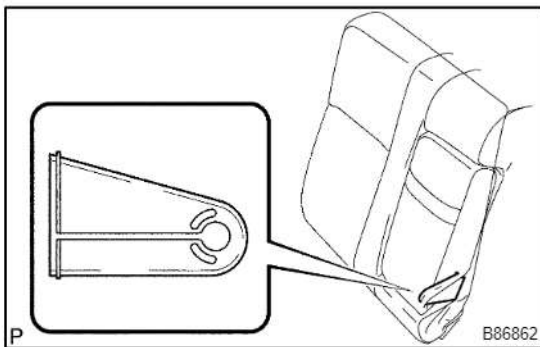


16. REMOVE REAR SEAT BACK LOCK CONTROL BEZEL

- (a) Remove the screw and the rear seat back lock control bezel.

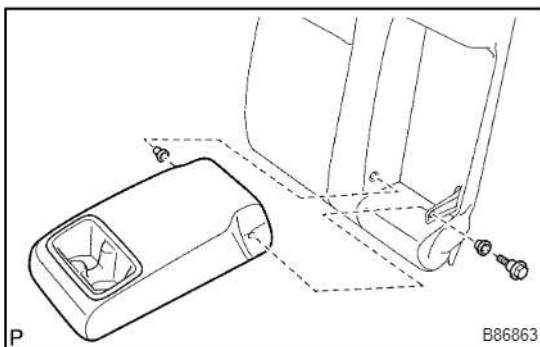
HINT:

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



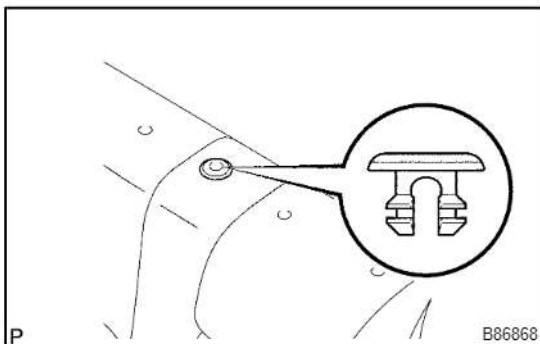
17. REMOVE REAR SEAT BACK HINGE COVER

- (a) Remove the rear seat back hinge cover.



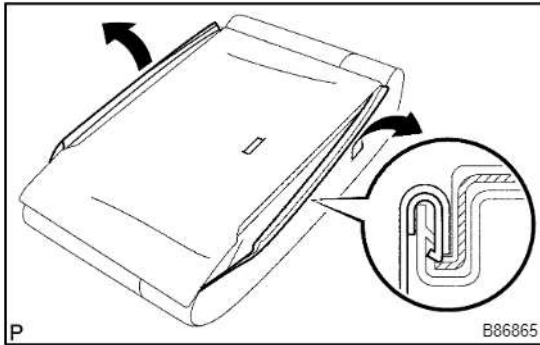
18. REMOVE REAR SEAT ARMREST ASSY CENTER

- (a) Remove the bolt and the rear seat armrest assy center.



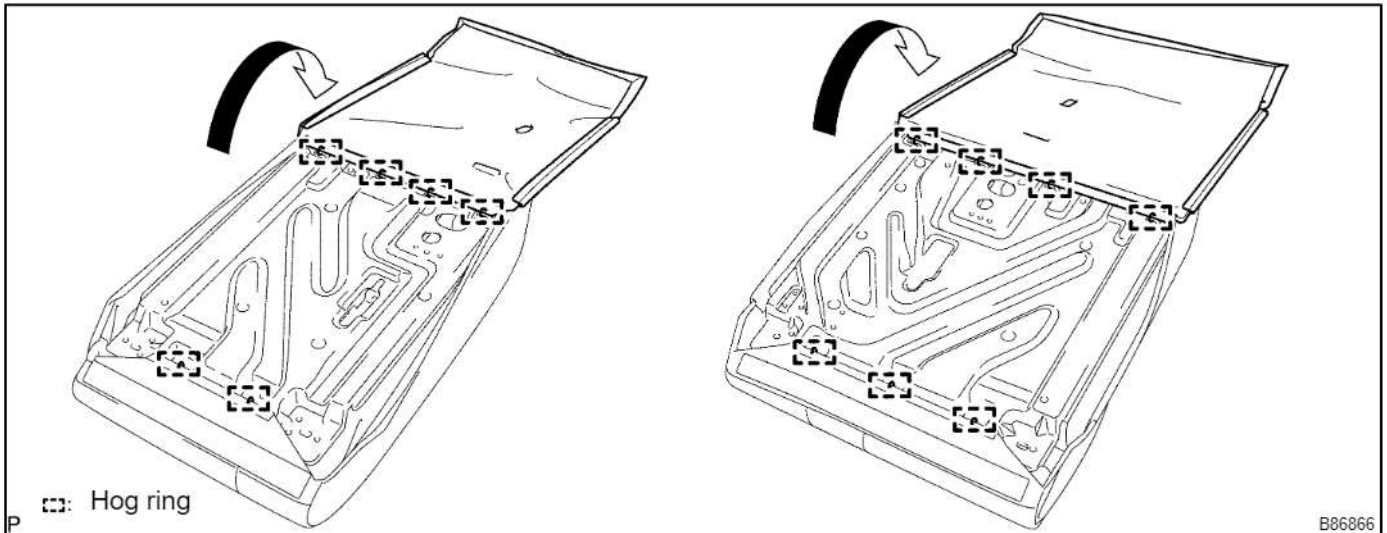
19. REMOVE REAR SEAT BACK STOP BUTTON GROMMET

- (a) Remove the rear seat back stop button grommet.

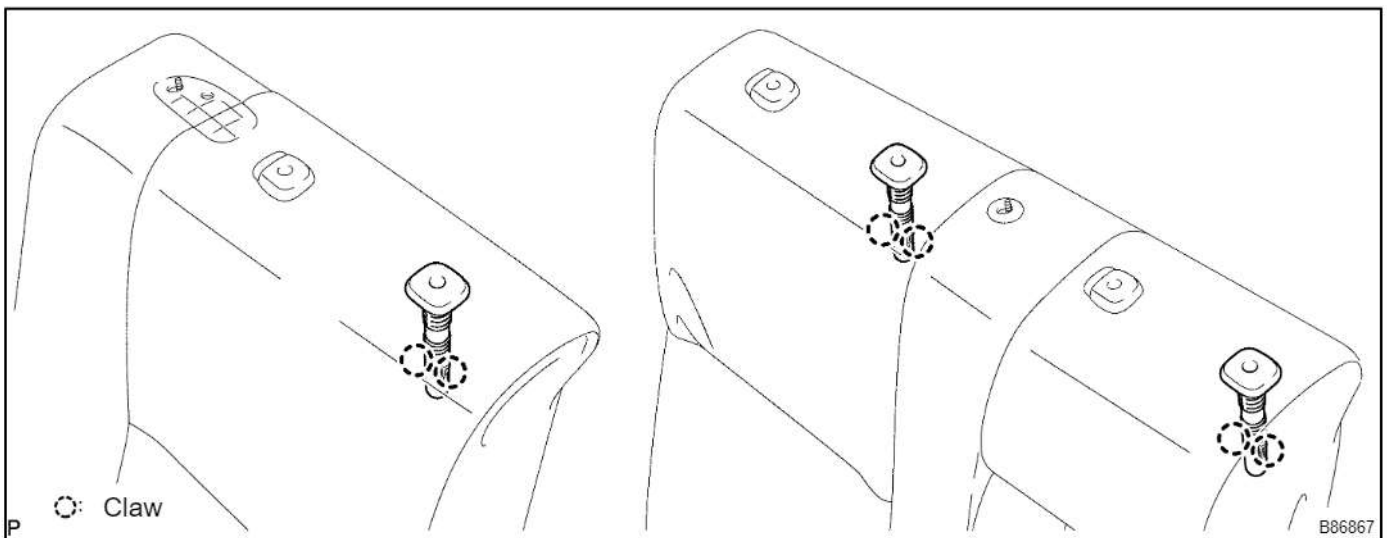


20. REMOVE REAR SEAT HEADREST SUPPORT

- (a) Disengage the separate type rear seat back cover and turn back the sides of the cover.
- (b) Turn back the separate type rear seat back cover and remove the 13 hog rings.



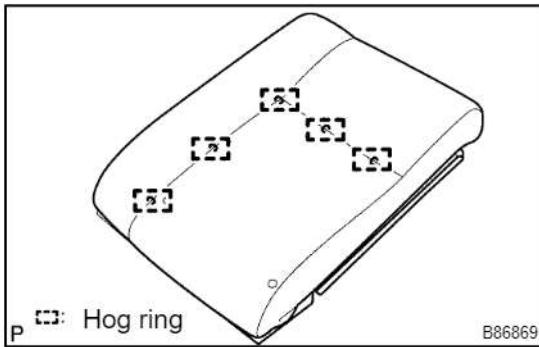
- (c) Disengage the 6 claws and remove the 3 rear seat headrest supports.



21. REMOVE REAR SEAT HEADREST SUPPORT

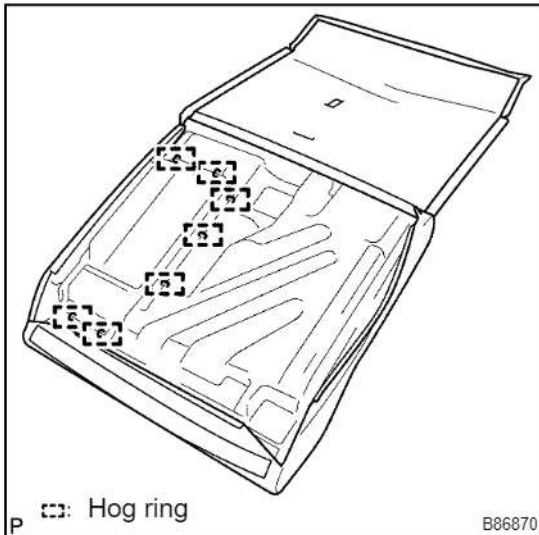
HINT:

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



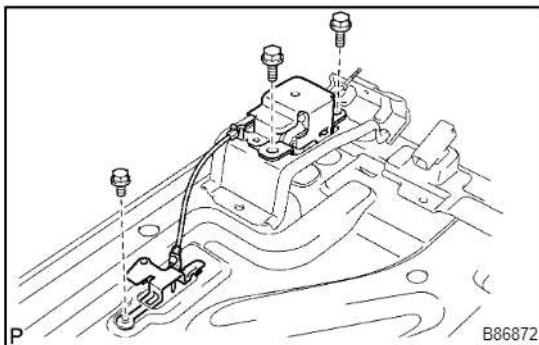
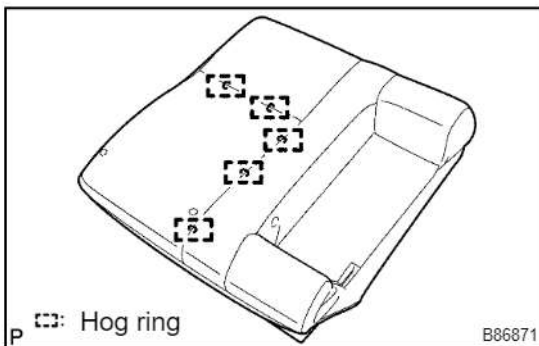
22. REMOVE SEPARATE TYPE REAR SEAT BACK COVER

- (a) Remove the 5 hog rings and the separate type rear seat back cover.



23. REMOVE SEPARATE TYPE REAR SEAT BACK COVER

- (a) Remove the 12 hog rings and the separate type rear seat back cover.



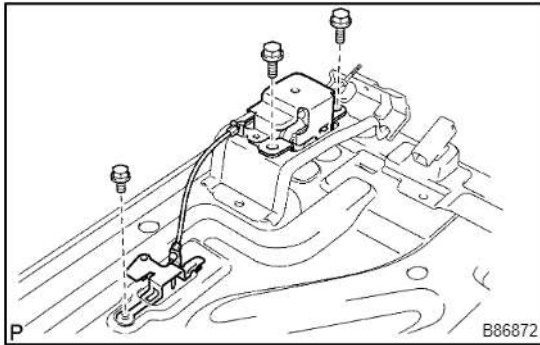
24. REMOVE REAR SEAT BACK LOCK ASSY LH

- (a) Remove the 3 bolts and the rear seat back lock assy LH.

25. REMOVE REAR SEAT BACK LOCK ASSY RH

HINT:

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



26. INSTALL REAR SEAT BACK LOCK ASSY LH

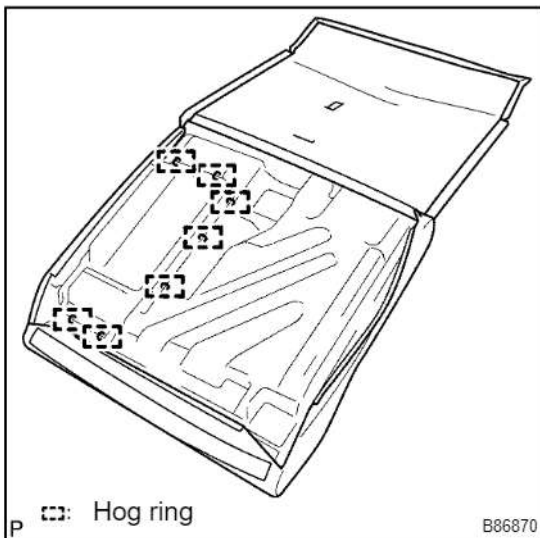
- (a) Install the rear seat back lock assy LH with the 3 bolts.
Torque: 20 N·m (204 kgf·cm, 15 ft·lbf)

27. INSTALL REAR SEAT BACK LOCK ASSY RH

Torque: 20 N·m (204 kgf·cm, 15 ft·lbf)

HINT:

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

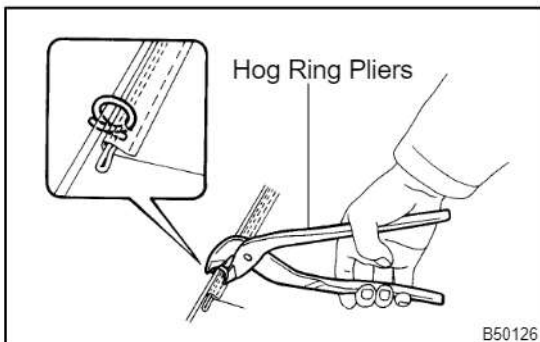
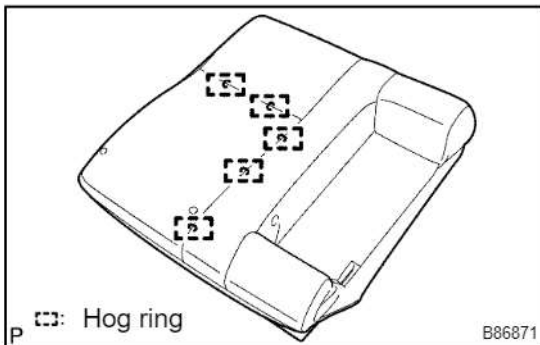


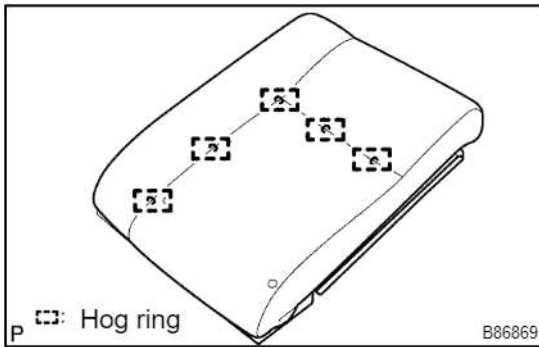
28. INSTALL SEPARATE TYPE REAR SEAT BACK COVER

- (a) Using hog ring pliers, install the separate type rear seat back cover with 12 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.



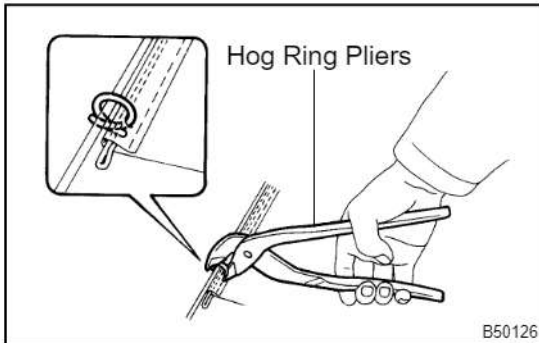


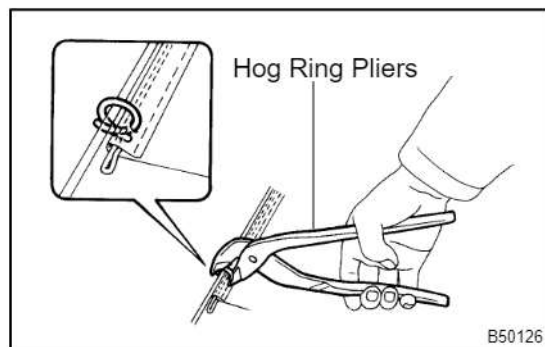
29. INSTALL SEPARATE TYPE REAR SEAT BACK COVER

- (a) Using hog ring pliers, install the separate type rear seat back cover with 5 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.



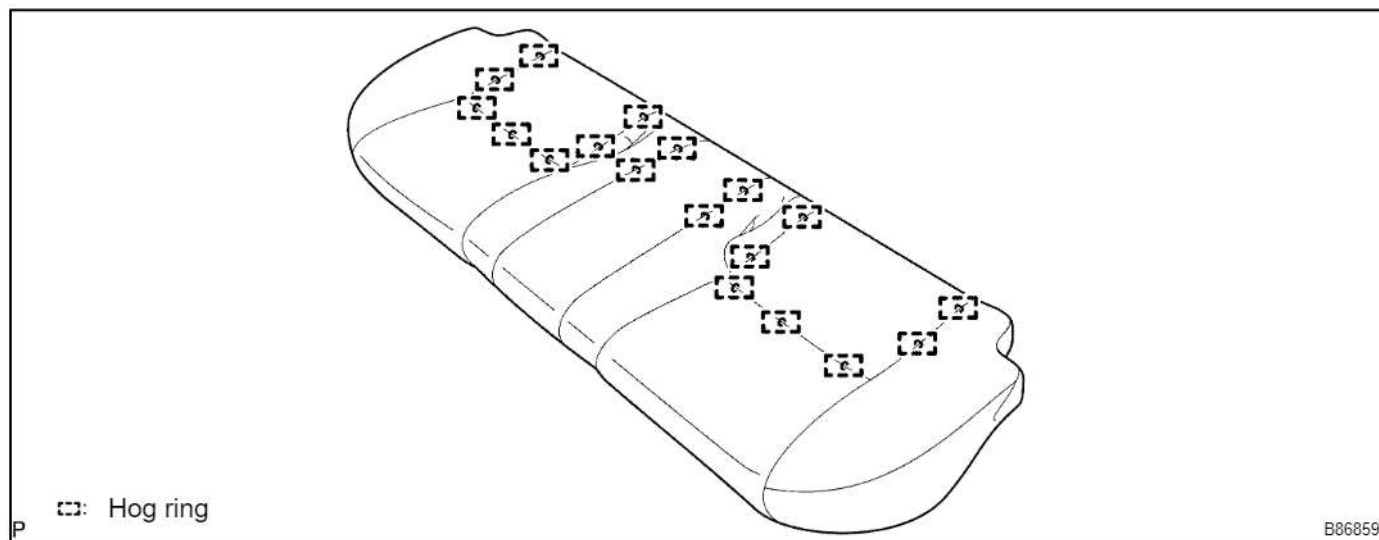
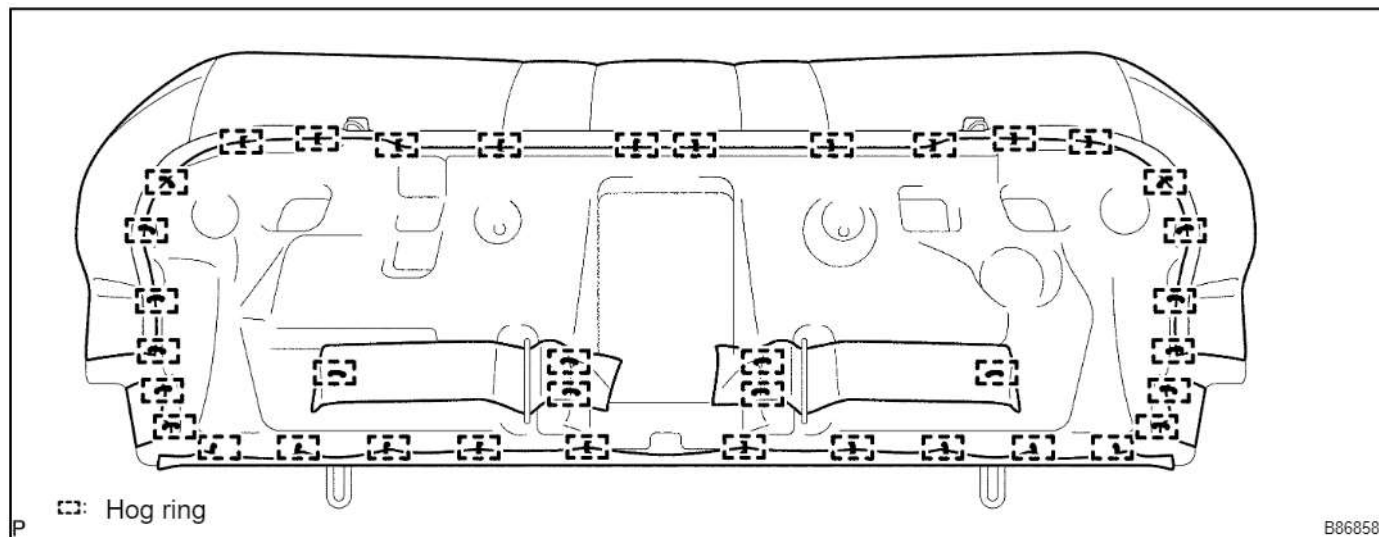


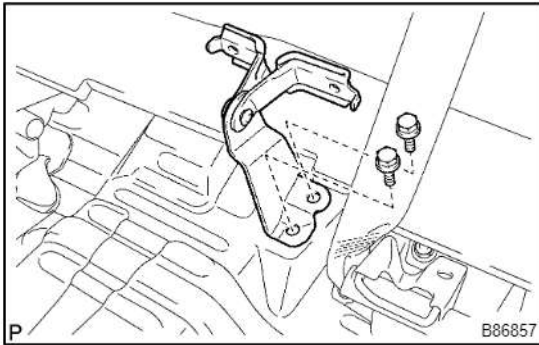
30. INSTALL BENCH TYPE REAR SEAT CUSHION COVER

- (a) Using hog ring pliers, install the bench type rear seat cushion cover with 56 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.

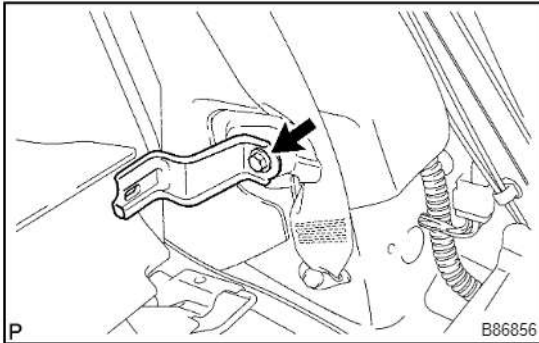




31. INSTALL REAR SEAT BACK HINGE SUB-ASSY CENTER

- (a) Install the rear seat back hinge sub-assy center with the 2 bolts.

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



32. INSTALL REAR SEAT BACK HINGE SUB-ASSY LH

- (a) Install the rear seat back hinge sub-assy LH with the bolt.

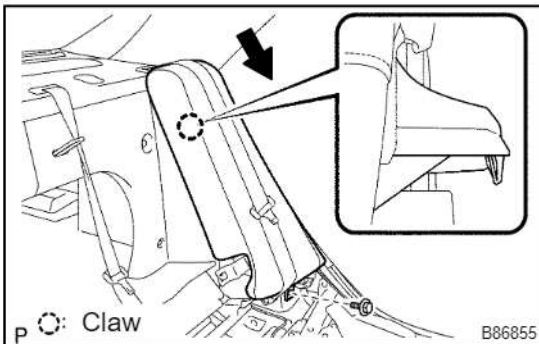
Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)

33. INSTALL REAR SEAT BACK HINGE SUB-ASSY RH

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

HINT:

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



34. INSTALL REAR SIDE SEAT BACK ASSY LH

- (a) Install the rear side seat back assy LH with the bolt.

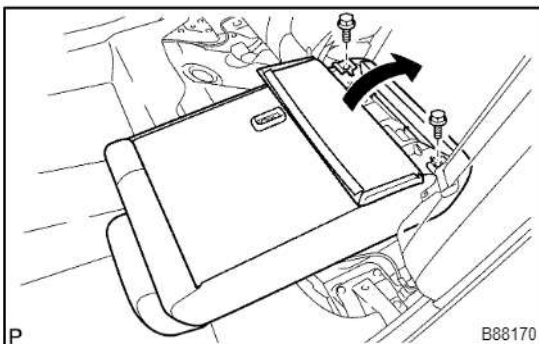
Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)

35. INSTALL REAR SIDE SEAT BACK ASSY RH

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

HINT:

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

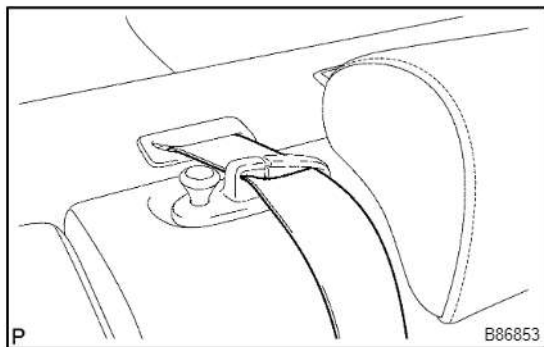


36. INSTALL REAR SEAT BACK ASSY LH

- (a) Install the rear seat back assy LH with the 2 bolts.

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

- (b) Close the separate type rear seat back cover and put back the rear seat back assy LH.



- (c) Install the rear seat belt to the rear seat shoulder belt guide center.

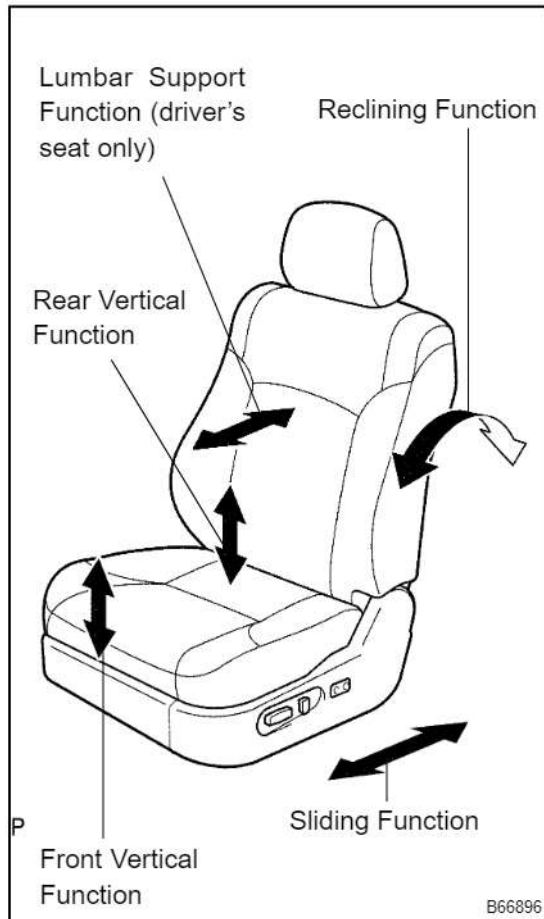
37. INSTALL REAR SEAT BACK ASSY RH

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

HINT:

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

ON-VEHICLE INSPECTION



1. CHECK POWER SEAT FUNCTION

- (a) Check the basic functions.
 - (1) Operate the power seat switches and check to make sure each seat function works:
 - Sliding
 - Front vertical
 - Rear vertical
 - Reclining
 - Lumbar support (driver's seat only)

2. CHECK POWER SEAT MOTOR ASSY

(SLIDING, FRONT VERTICAL, REAR VERTICAL AND RECLINING FUNCTIONS)

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

HINT:

The PTC thermistor's resistance increases when the power seat switch is held down even after the power seat has been moved to the maximum in one direction. After the resistance increases, current is shut off to prevent a short circuit.

NOTICE:

Perform steps (1) to (4) for the full range of motion for each power seat function.

- (1) Choose a power seat function. Operate the power seat switch and move the seat to the maximum in one direction. Keep the seat in that position for approximately 60 seconds.
- (2) Operate the power seat switch again and continue to try to move the seat in the same direction as in step (1). Measure the amount of time elapsed before the electrical current is automatically cut. Check if electrical current has shut off by making sure the sound of the motor has stopped.

Standard: 4 to 90 seconds

- (3) After the current has stopped, release the power seat switch and wait for approximately 60 seconds.
- (4) Operate the same power seat switch and move the seat to the opposite extreme of the direction in step (1). Check that the motor operates.
- (5) Repeat steps (1) to (4) for the remaining power seat functions.

3. Driver's seat only:**CHECK LUMBAR SUPPORT ADJUSTER ASSY LH**

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

NOTICE:

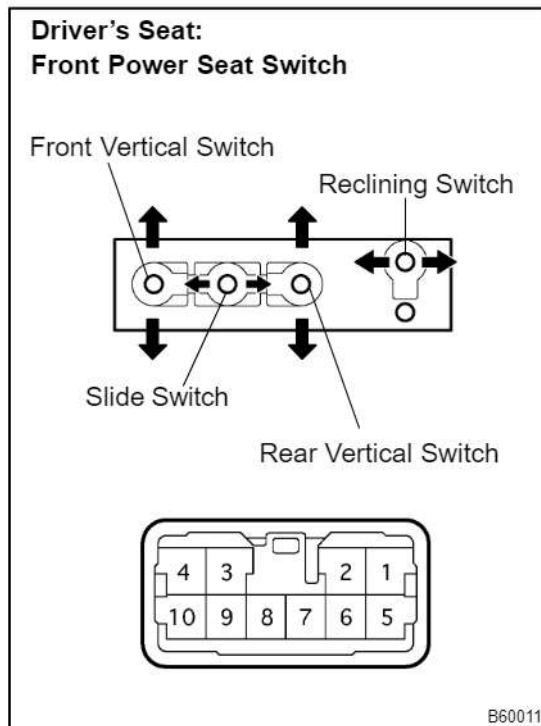
The inspection should be performed with the seat installed in the vehicle.

- (1) Operate the lumbar support switch and move the lumbar support to either the foremost or rear-most position. Keep the seat in that position for approximately 60 seconds.
- (2) Operate the lumbar support switch again and continue to try to move the lumbar support in the same direction as in step (1). Measure the amount of time elapsed before the electrical current is automatically cut. Check if electrical current has shut off by making sure the sound of the motor has stopped.

Standard: 4 to 90 seconds

- (3) After the current has stopped, release the lumbar support switch and wait for approximately 60 seconds.
- (4) Operate the lumbar support switch and move the seat to the opposite extreme of the direction in step (1). Check that the motor operates.

INSPECTION



1. Driver's seat:

INSPECT FRONT POWER SEAT SWITCH

- (a) Check the resistance between the terminals when each switch is operated.

Standard:

Slide switch

Tester Connection	Switch Condition	Specified Condition
1 - 9	FRONT	Below 1 Ω
4 - 6	FRONT	Below 1 Ω
4 - 6	OFF	Below 1 Ω
4 - 9	OFF	Below 1 Ω
1 - 6	REAR	Below 1 Ω
4 - 9	REAR	Below 1 Ω

Front vertical switch

Tester Connection	Switch Condition	Specified Condition
1 - 10	UP	Below 1 Ω
4 - 5	UP	Below 1 Ω
4 - 5	OFF	Below 1 Ω
4 - 10	OFF	Below 1 Ω
1 - 5	DOWN	Below 1 Ω
4 - 10	DOWN	Below 1 Ω

Rear vertical switch

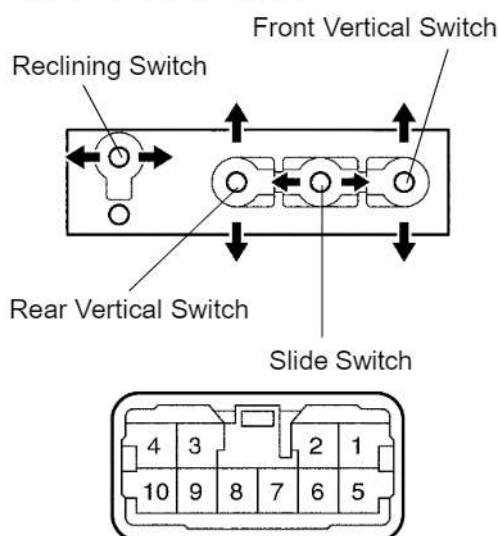
Tester Connection	Switch Condition	Specified Condition
1 - 7	UP	Below 1 Ω
4 - 8	UP	Below 1 Ω
4 - 7	OFF	Below 1 Ω
4 - 8	OFF	Below 1 Ω
1 - 8	DOWN	Below 1 Ω
4 - 7	DOWN	Below 1 Ω

Reclining switch

Tester Connection	Switch Condition	Specified Condition
1 - 3	FRONT	Below 1 Ω
2 - 4	FRONT	Below 1 Ω
2 - 4	OFF	Below 1 Ω
3 - 4	OFF	Below 1 Ω
1 - 2	REAR	Below 1 Ω
3 - 4	REAR	Below 1 Ω

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

Passenger's Seat: Front Power Seat Switch



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2. Passenger's seat:

INSPECT FRONT POWER SEAT SWITCH

- (a) Check the resistance between the terminals when each switch is operated.

Standard:

Slide switch

Tester Connection	Switch Condition	Specified Condition
1 - 9	FRONT	Below 1 Ω
4 - 6	FRONT	Below 1 Ω
4 - 6	OFF	Below 1 Ω
4 - 9	OFF	Below 1 Ω
1 - 6	REAR	Below 1 Ω
4 - 9	REAR	Below 1 Ω

Front vertical switch

Tester Connection	Switch Condition	Specified Condition
1 - 5	UP	Below 1 Ω
4 - 10	UP	Below 1 Ω
4 - 5	OFF	Below 1 Ω
4 - 10	OFF	Below 1 Ω
1 - 10	DOWN	Below 1 Ω
4 - 5	DOWN	Below 1 Ω

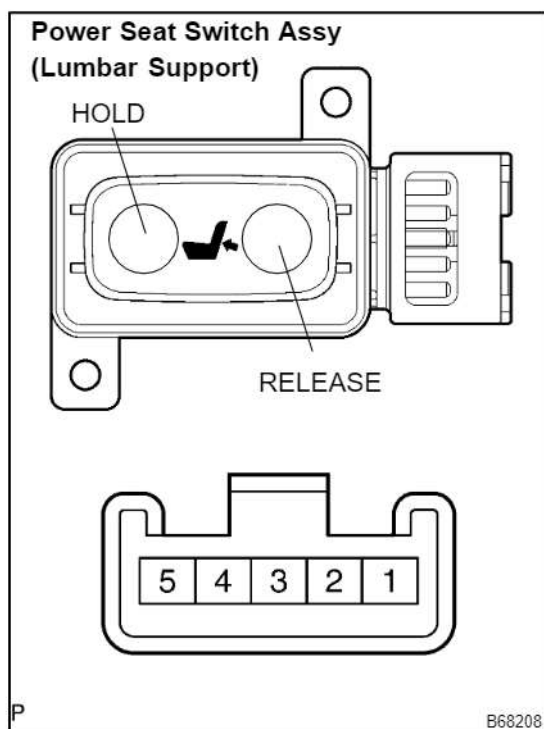
Rear vertical switch

Tester Connection	Switch Condition	Specified Condition
4 - 7	UP	Below 1 Ω
1 - 8	UP	Below 1 Ω
4 - 7	OFF	Below 1 Ω
4 - 8	OFF	Below 1 Ω
4 - 8	DOWN	Below 1 Ω
1 - 7	DOWN	Below 1 Ω

Reclining switch

Tester Connection	Switch Condition	Specified Condition
1 - 3	FRONT	Below 1 Ω
2 - 4	FRONT	Below 1 Ω
2 - 4	OFF	Below 1 Ω
3 - 4	OFF	Below 1 Ω
1 - 2	REAR	Below 1 Ω
3 - 4	REAR	Below 1 Ω

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



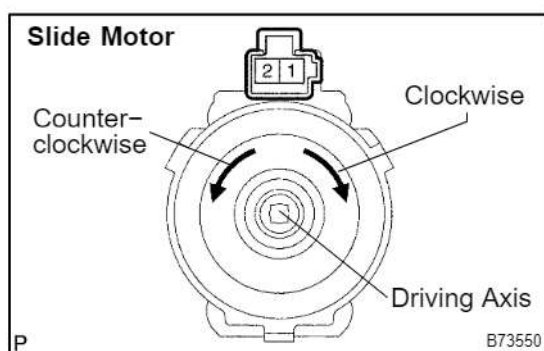
3. INSPECT POWER SEAT SWITCH ASSY(LUMBAR SUPPORT)

- (a) Driver's seat only:
Check the resistance between the terminals when the switch is operated.

Standard:

Tester Connection	Switch Condition	Specified Condition
1 – 2	HOLD	Below 1 Ω
3 – 4	HOLD	Below 1 Ω
1 – 2	OFF	Below 1 Ω
4 – 5	OFF	Below 1 Ω
1 – 3	RELEASE	Below 1 Ω
4 – 5	RELEASE	Below 1 Ω

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



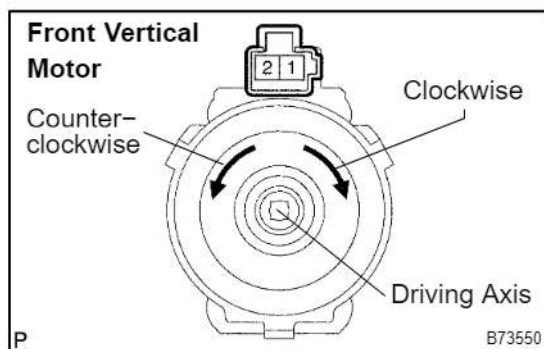
4. INSPECT FRONT SEAT ADJUSTER ASSY

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

Standard:

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

If the result is not as specified, replace the slide motor.

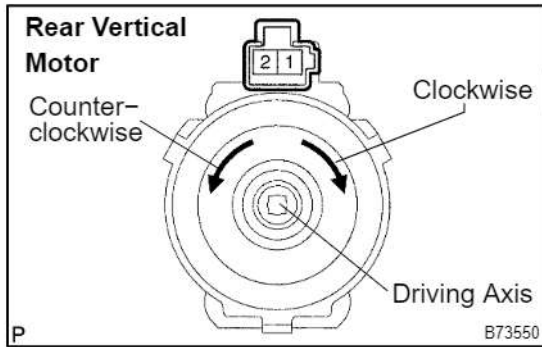


- (b) Check operation of the vertical motor.
(1) Check if the motor rotates smoothly when the battery is connected to the vertical motor connector terminals.

Standard:

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

If the result is not as specified, replace the vertical motor.

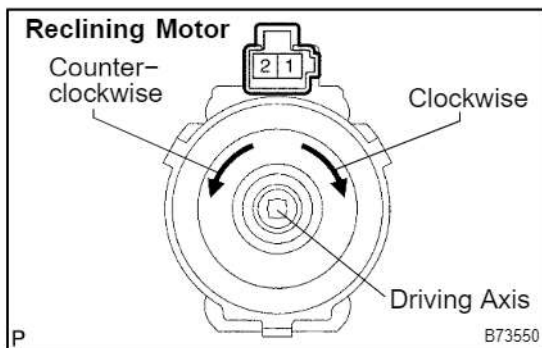


- (c) Check operation of the rear vertical motor.
- (1) Check if the motor rotates smoothly when the battery is connected to the rear vertical motor connector terminals.

Standard:

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

If the result is not as specified, replace the rear vertical motor.

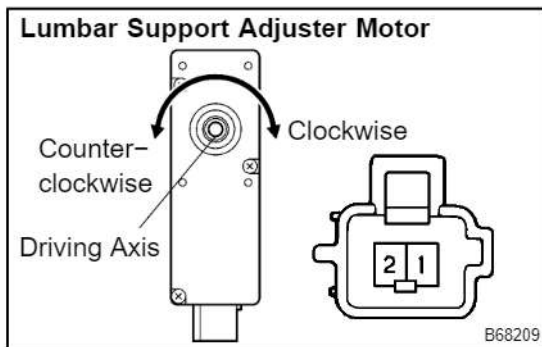


- (d) Check operation of the reclining motor.
- (1) Check if the motor rotates smoothly when the battery is connected to the reclining motor connector terminals.

Standard:

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

If the result is not as specified, replace the lifter motor.

**5. INSPECT LUMBAR SUPPORT ADJUSTER ASSY LH**

- (a) Driver's seat only:
- Check operation of the lumbar support adjuster motor.
- (1) Check if the motor rotates smoothly when the battery is connected to the lumbar support adjuster motor connector terminals.

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 adjuster motor.