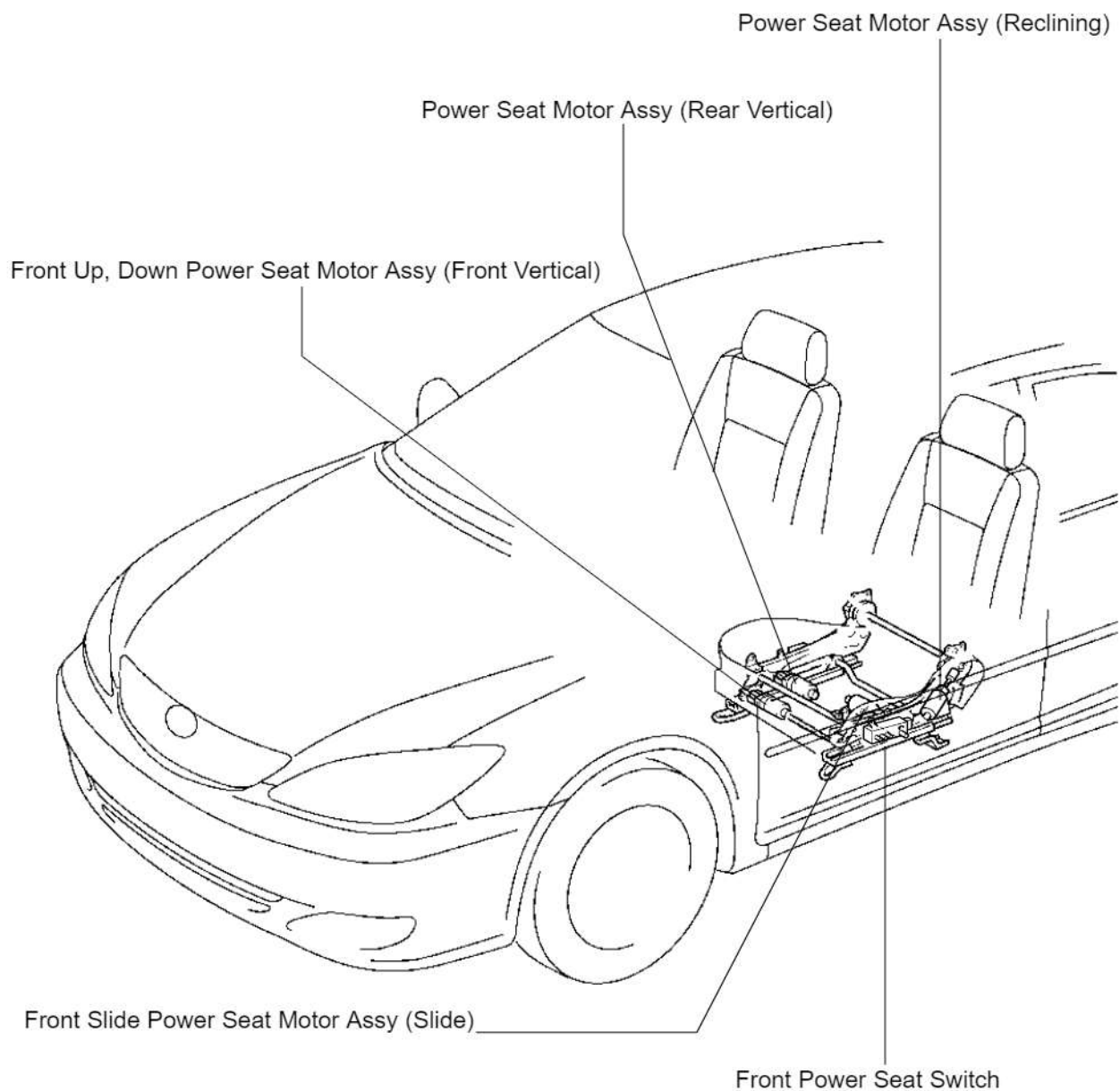


FRONT POWER SEAT CONTROL SYSTEM

LOCATION

72061-01



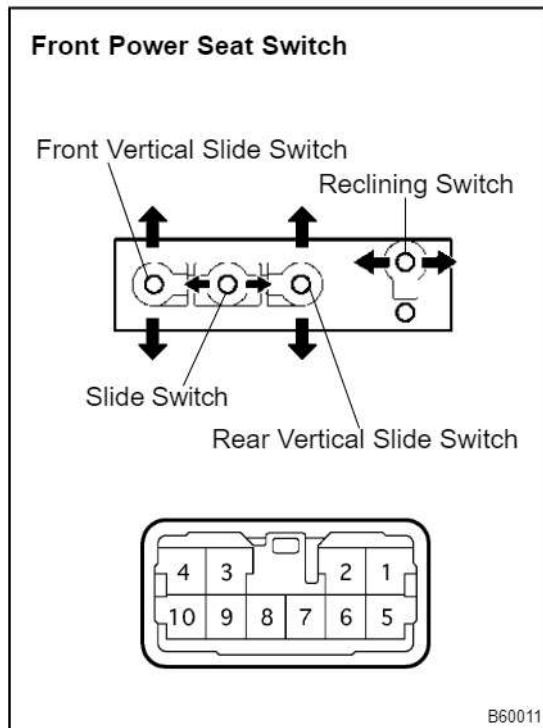
0

B57240

PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See page
Power seat does not operate	1. Front power seat switch 2. PWR SEAT fuse 3. Wire harness	72-3 72 72
Power seat does not slide	1. Front power seat switch 2. Front slide power seat motor assy (Slide) 3. Wire harness	72-3 72-3 72
Front vertical of the power seat does not operate (Driver's seat only)	1. Front power seat switch 2. Front up, down power seat motor assy (Front vertical) 3. Wire harness	72-3 72-3 72
Rear lifter of the power seat does not operate (Driver's seat only)	1. Front power seat switch 2. Power seat motor assy (Rear vertical) 3. Wire harness	72-3 72-3 72
Power seat does not recline	1. Front power seat switch 2. Power seat motor assy (Reclining) 3. Wire harness	72-3 72-3 72

INSPECTION



1. INSPECT FRONT POWER SEAT SWITCH LH

(a) Inspect the front power seat switch continuity.

Standard (Slide switch):

Terminal No.	Switch position	Specified condition
1 ⇄ 9 4 ⇄ 6	FRONT	Continuity
6 ⇄ 4 ⇄ 9	OFF	Continuity
4 ⇄ 9 1 ⇄ 6	REAR	Continuity

Standard (Front vertical switch):

Terminal No.	Switch position	Specified condition
1 ⇄ 10 4 ⇄ 5	UP	Continuity
5 ⇄ 4 ⇄ 10	OFF	Continuity
1 ⇄ 5 4 ⇄ 10	DOWN	Continuity

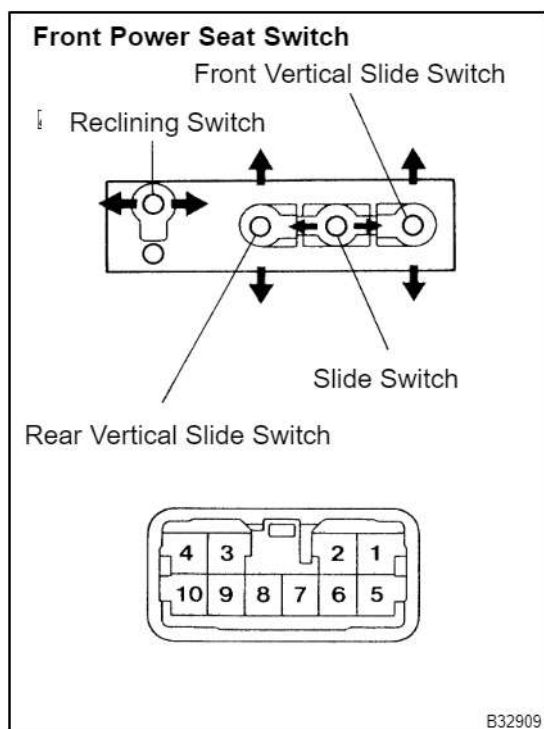
Standard (Rear vertical switch):

Terminal No.	Switch position	Specified condition
1 ⇄ 7 4 ⇄ 8	UP	Continuity
7 ⇄ 4 ⇄ 8	OFF	Continuity
1 ⇄ 8 4 ⇄ 7	DOWN	Continuity

Standard (Reclining switch):

Terminal No.	Switch position	Specified condition
1 ⇄ 3 2 ⇄ 4	FRONT	Continuity
2 ⇄ 4 ⇄ 3	OFF	Continuity
1 ⇄ 2 3 ⇄ 4	REAR	Continuity

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



2. INSPECT FRONT POWER SEAT SWITCH RH

(a) Inspect the front power seat switch continuity.

Standard (Slide switch):

Terminal No.	Switch position	Specified condition
1 ⇔ 9 4 ⇔ 6	FRONT	Continuity
6 ⇔ 4 ⇔ 9	OFF	Continuity
4 ⇔ 9 1 ⇔ 6	REAR	Continuity

Standard (Front vertical switch):

Terminal No.	Switch position	Specified condition
1 ⇔ 5 4 ⇔ 10	UP	Continuity
5 ⇔ 4 ⇔ 10	OFF	Continuity
1 ⇔ 10 4 ⇔ 5	DOWN	Continuity

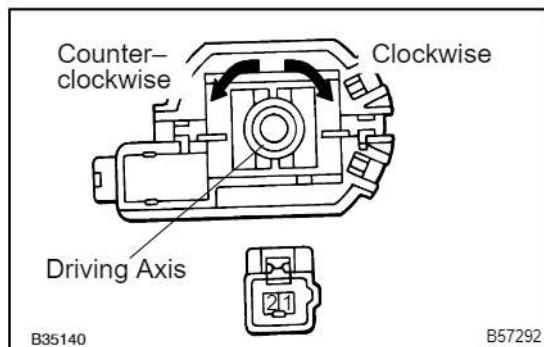
Standard (Rear vertical switch):

Terminal No.	Switch position	Specified condition
1 ⇔ 8 4 ⇔ 7	FRONT	Continuity
7 ⇔ 4 ⇔ 8	OFF	Continuity
1 ⇔ 7 4 ⇔ 8	REAR	Continuity

Standard (Reclining switch):

Terminal No.	Switch position	Specified condition
1 ⇔ 3 2 ⇔ 4	FRONT	Continuity
2 ⇔ 4 ⇔ 3	OFF	Continuity
1 ⇔ 2 3 ⇔ 4	REAR	Continuity

If the result is not as specified, replace the front power seat switch.



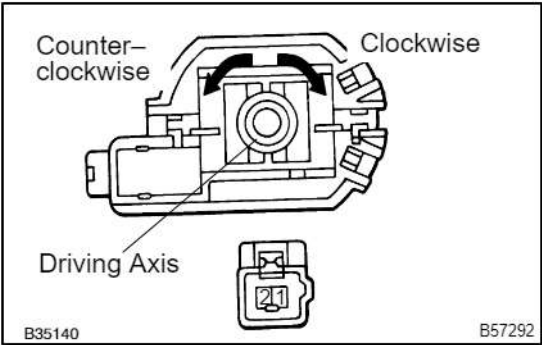
3. INSPECT FRONT UP, DOWN POWER SEAT MOTOR ASSY

(a) Inspect the front up, down power seat motor operation.
(1) Check that the motor rotates smoothly when the battery is connected to the connector terminal.

Standard:

Terminal No.	Specified Condition
Battery positive voltage ⇔ 1 Battery negative voltage ⇔ 2	Counterclockwise
Battery positive voltage ⇔ 2 Battery negative voltage ⇔ 1	Clockwise

If the result is not as specified, replace the front up, down power seat motor.



4. INSPECT POWER SEAT MOTOR ASSY

- (a) Inspect the power seat motor operation.
- (1) Check that the motor rotates smoothly when the battery is connected to the connector terminal.

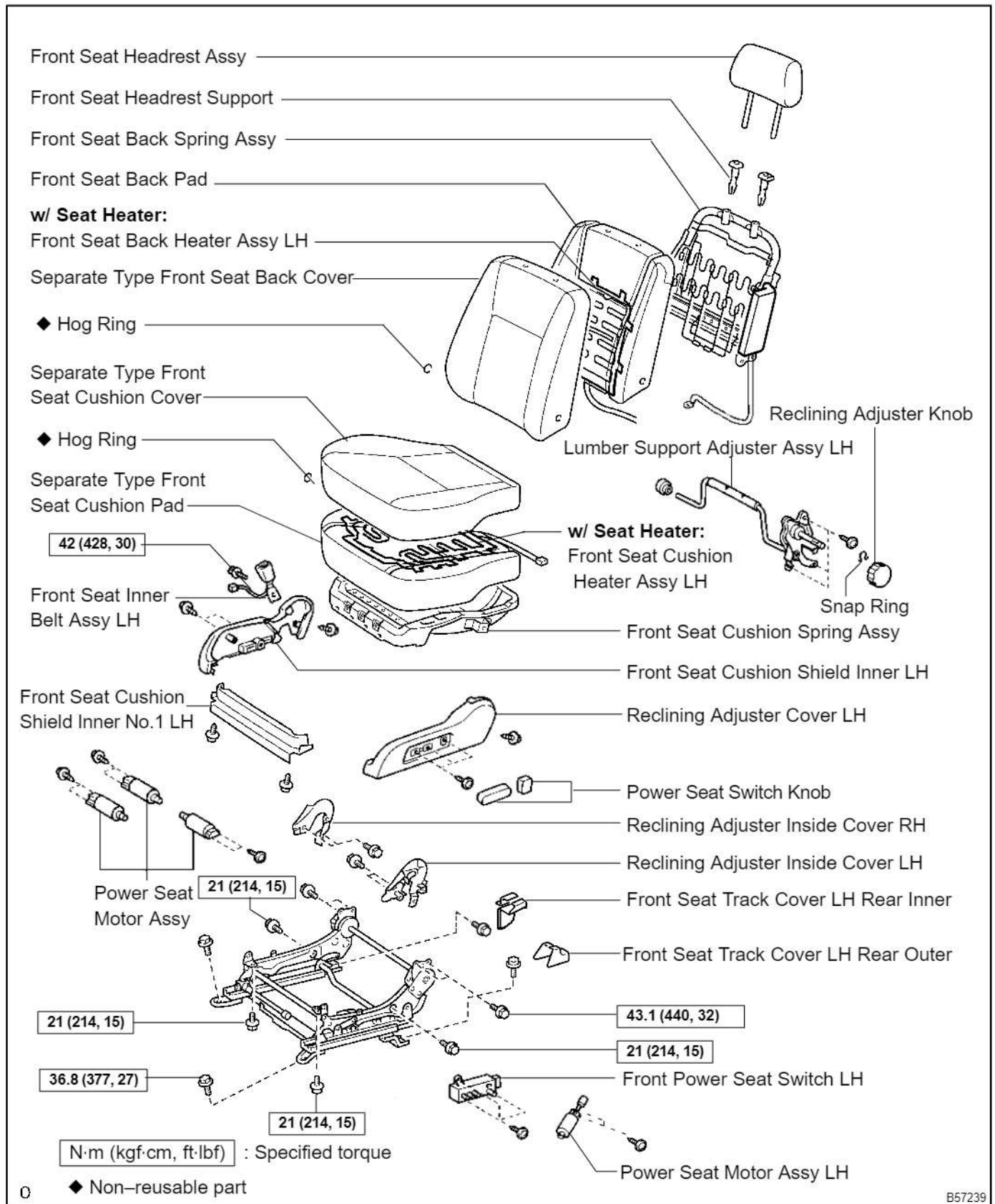
Standard:

Tester Condition	Specified Condition
Battery positive voltage ⇄ 1 Battery negative voltage ⇄ 2	Counterclockwise
Battery positive voltage ⇄ 2 Battery negative voltage ⇄ 1	Clockwise

If the result is not as specified, replace the power seat motor.

FRONT SEAT (Power Seat for TMC Made) COMPONENTS

7206K-01



B57239

OVERHAUL

HINT:

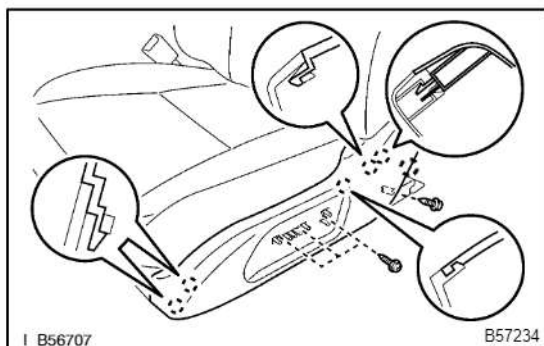
- Installation is the reverse order of the removal. But, the installation is indicated only when it has a point.
- In the RH side, work in the same procedure as in the LH side.

1. **DISCONNECT BATTERY NEGATIVE TERMINAL**
2. **REMOVE FRONT SEAT TRACK COVER LH REAR OUTER**
3. **REMOVE FRONT SEAT TRACK COVER LH REAR INNER**
4. **REMOVE FRONT SEAT ASSY LH**

HINT:

Set the front vertical in the most upper position.

- (a) Remove the 4 bolts.
 - (b) Disconnect the connectors, and then remove the front seat assembly LH.
5. **REMOVE FRONT SEAT HEADREST ASSY**
 6. **REMOVE RECLINING POWER SEAT SWITCH KNOB**
 7. **REMOVE SLIDE & VERTICAL POWER SEAT SWITCH KNOB**



8. REMOVE RECLINING ADJUSTER COVER LH

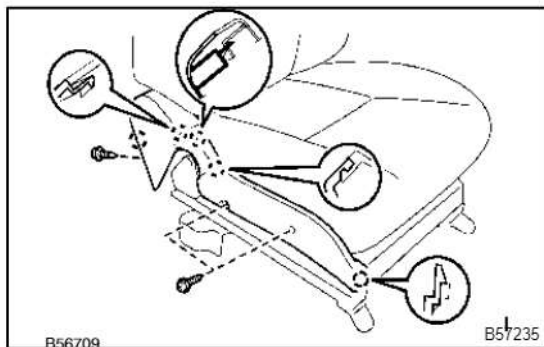
- (a) Remove the 4 screws.
- (b) Disengage the claws, and then remove the reclining adjuster cover LH.

9. REMOVE FRONT POWER SEAT SWITCH LH

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

10. REMOVE FRONT SEAT INNER BELT ASSY LH

- (a) Disconnect the connectors.
- (b) Remove the nut and the front seat inner belt assembly LH.



11. REMOVE FRONT SEAT CUSHION SHIELD INNER LH

- (a) Remove the 3 screws.
- (b) Disengage the claws and then remove the front seat cushion shield inner LH.

12. REMOVE FRONT SEAT CUSHION SHIELD INNER NO.1 LH

- (a) Remove the 2 screws and the front seat cushion shield inner No.1 LH.

13. REMOVE FRONT SEAT CUSHION ASSY

- (a) Disconnect the clamps and connectors of each wire harness.
 (b) Remove the 4 bolts and the front seat cushion assembly LH.

14. REMOVE SEPARATE TYPE FRONT SEAT CUSHION COVER LH

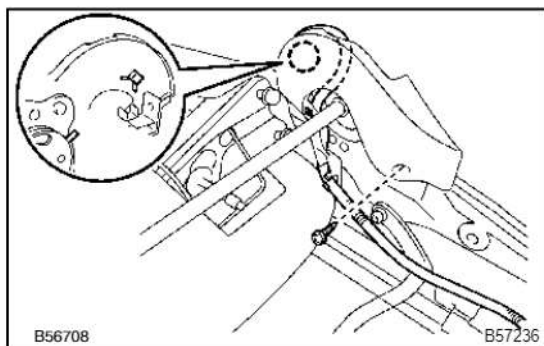
- (a) Remove the hog rings and the front seat cushion cover LH.

15. REMOVE FRONT SEAT CUSHION HEATER ASSY LH (W/ SEAT HEATER)

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

NOTICE:

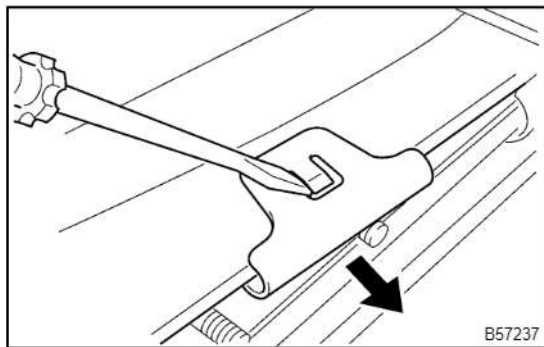
Be careful not to damage the seat cushion cover.

**16. REMOVE FRONT SEAT BACK ASSY**

- (a) Remove the hog rings at the lower portion of the front seat back cover.
 (b) Remove the 4 bolts from the front seat back.
 (c) Remove the 2 screws and reclining adjuster inside cover RH.
 (d) w/ Side airbag:
 Disconnect the wire harness of the side airbag from the inside cover LH.
 (e) Remove the front seat back assembly.
 (f) Remove the 2 screws and the reclining adjuster inside cover LH.

17. REMOVE RECLINING ADJUSTER KNOB

- (a) Using a cloth or something, remove the snap rings and the lumber support adjusting knob.

**18. REMOVE SEPARATE TYPE FRONT SEAT BACK COVER**

- (a) Turn up the front seat back cover.
 (b) w/ Side airbag:
 Using a screwdriver, disengage the front seat back cover bracket .

HINT:

Tape the screwdriver tip before use.

- (c) Remove the 2 headrest supports, and the front seat back cover LH from the front seat back frame.
 (d) Remove the hog rings, and front seat back cover from the seat back pad.

19. REMOVE FRONT SEAT BACK HEATER ASSY LH (W/ SEAT HEATER)

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

NOTICE:

Be careful not to damage the seat back cover.

20. REMOVE LUMBAR SUPPORT ADJUSTER ASSY LH

- (a) Remove the 3 screws and the lumbar support adjuster assembly LH.

21. REMOVE POWER SEAT MOTOR

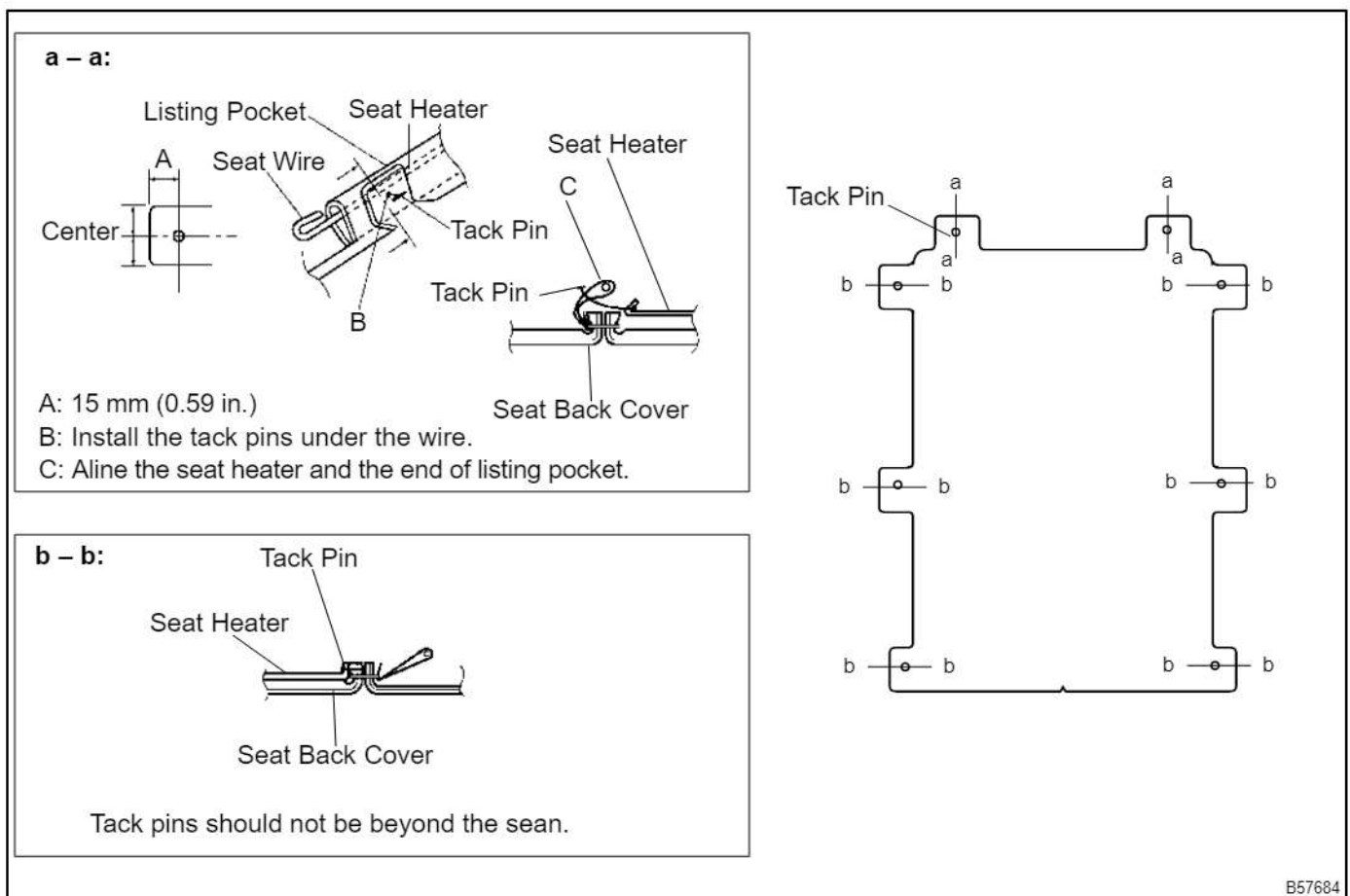
- (a) Remove the 2 screws each to remove the sliding motor, reclining motor, front vertical motor and rear lifter motor.

22. INSTALL FRONT SEAT BACK HEATER ASSY LH (W/ SEAT HEATER)

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

NOTICE:

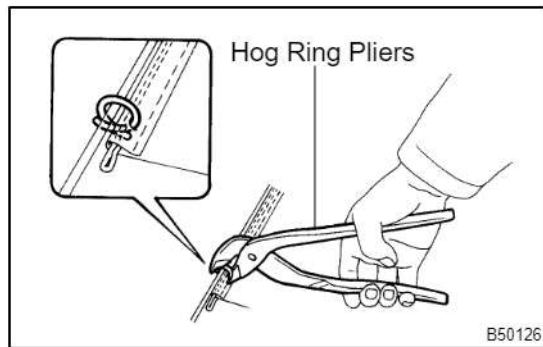
- **Do not substitute other metal parts for tack pins.**



B57684

23. INSTALL SEPARATE TYPE FRONT SEAT BACK COVER**NOTICE:**

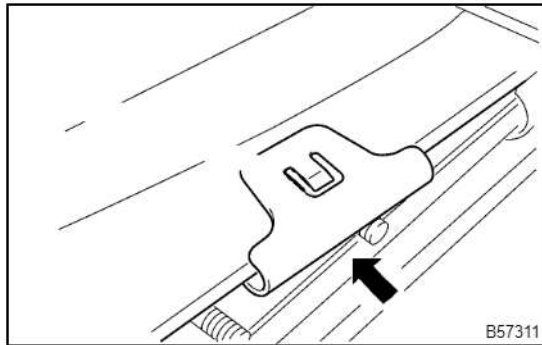
- For a vehicle with side airbag, if the seat back cover has damage, the side airbag may not activate normally, and therefore it is necessary to replace the seat back cover.
- For a vehicle with side airbag, if the side airbag has damage replace the pad and the frame with new ones.
- For a vehicle with side airbag, the side airbag may not activate normally unless the seat back cover is securely installed, as shown in the following procedures.



- (a) Using hog ring pliers, install the front seat back cover LH with new hog rings to the front seat back pad LH.
- (b) Using hog ring pliers, install the front seat back cover LH and pad LH with new hog ring to the front seat frame LH.

NOTICE:

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



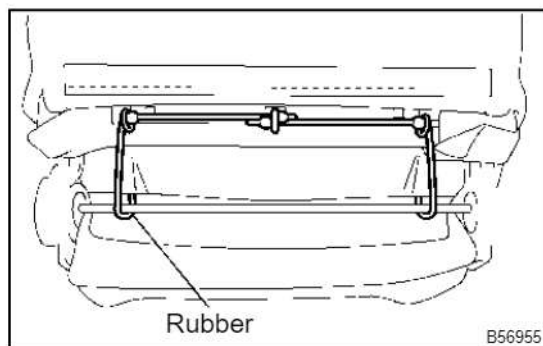
- (c) w/ Side airbag:
Install the seat back cover bracket.

NOTICE:

- For a vehicle with side airbag, the side airbag may not activate normally unless the seat back cover is securely installed.
- Check that the strap has no twist after installing the bracket.

24. INSTALL FRONT SEAT BACK ASSY

- (a) Install the front seat back assembly with the 4 bolts.
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)



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

NOTICE:

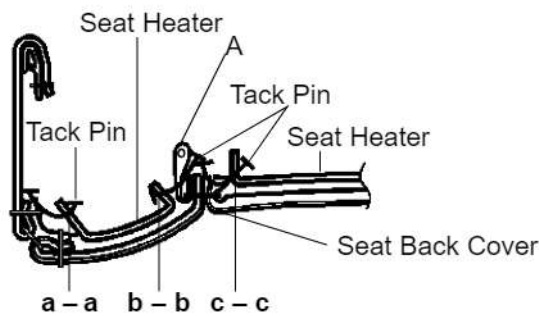
- Be careful not to damage the cover.
- When installing the hog rings, take care to prevent wrinkles as little as possible.

25. INSTALL RECLINING ADJUSTER KNOB**26. INSTALL FRONT SEAT CUSHION HEATER ASSY LH (W/ SEAT HEATER)**

- (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:

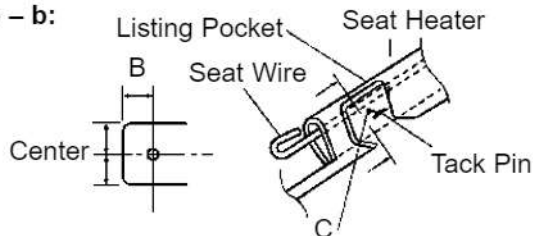
Do not substitute other metal parts for tack pins.



a – a, c – c:

Tack pins should not be beyond the sear.

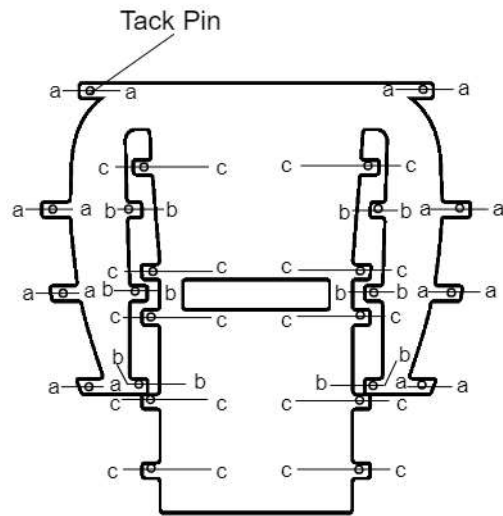
b – b:



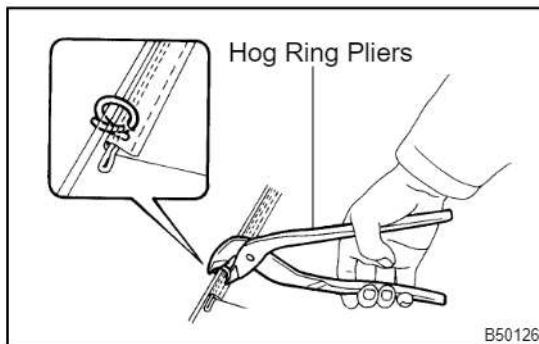
A: Install the tack pins under the wire.

B: 15 mm (0.59 in.)

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



B57686



27. INSTALL SEPARATE TYPE FRONT SEAT CUSHION COVER

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

NOTICE:

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

28. INSTALL FRONT SEAT CUSHION ASSY

- (a) Install the front seat cushion assembly with the 4 bolts.
- (b) w/ Side airbag:
Install the wire harness clamps of the side airbag through the seat cushion cover end.
- (c) Install the wire harness to the seat cushion frame with a band clamp.

29. INSTALL FRONT SEAT INNER BELT ASSY LH

- (a) Install the front seat inner belt assembly LH with the bolt.

Torque: 42 N·m (420 kgf·cm, 31 ft·lbf)

30. INSTALL FRONT SEAT ASSY LH

- (a) Set the front seat assembly LH to the body.

NOTICE:

Be careful not to damage the cover.

- (b) Install the front seat assembly LH with the 4 bolts.

Torque: 36.8 N·m (377 kgf·cm, 27 ft·lbf)

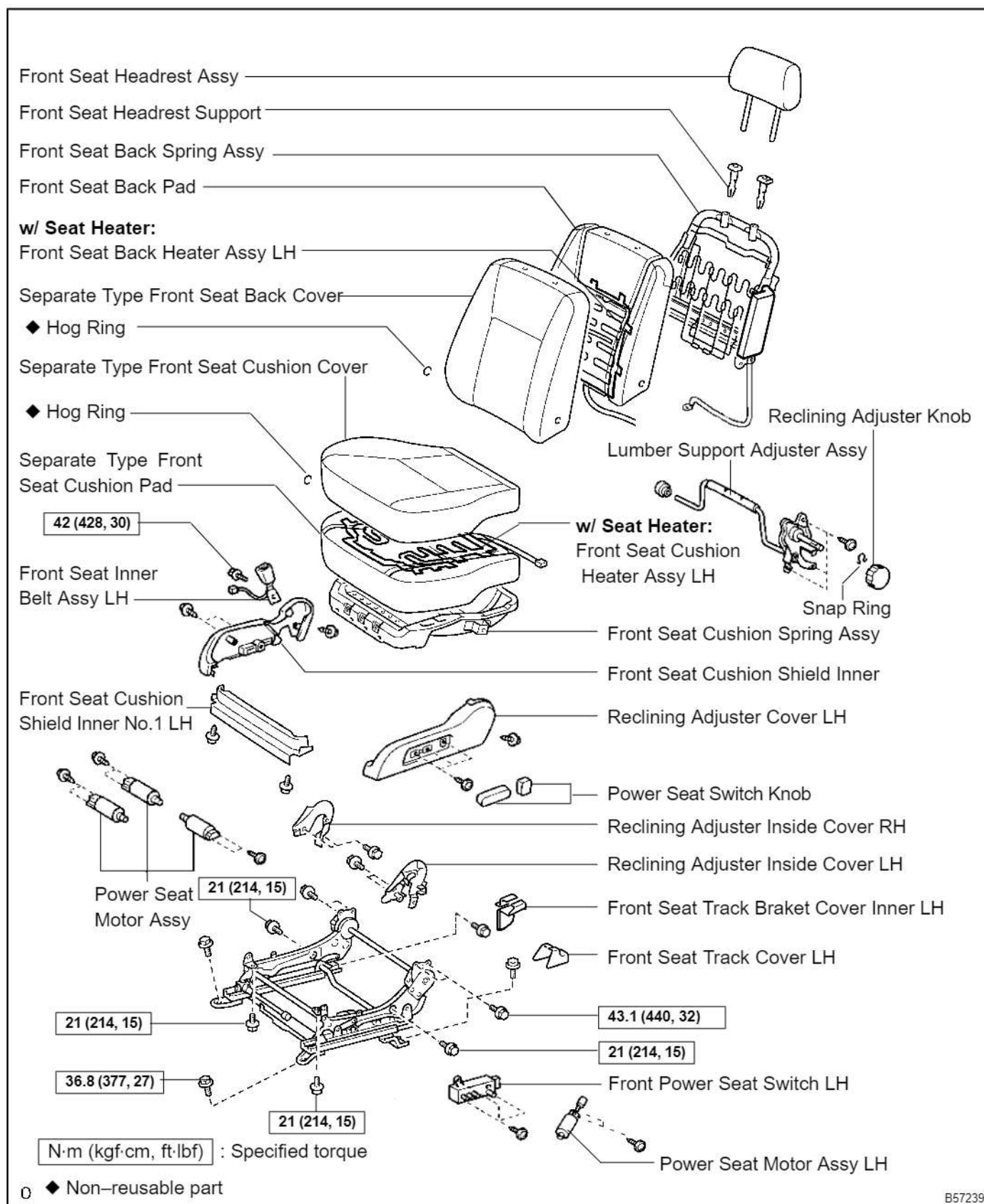
NOTICE:

Check that the seat adjuster locked.

FRONT SEAT (Power Seat for TMMK Made)

COMPONENTS

7208M-01



B57239

OVERHAUL

HINT:

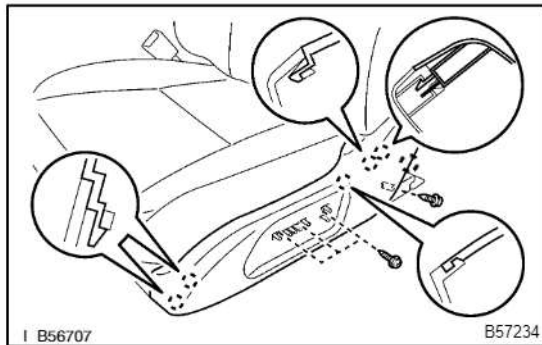
- Installation is the revers order of the removal. But, the installation is indicated only when it has a point.
- In the RH side, work in the same procedure as in the LH side.

1. **DISCONNECT BATTERY NEGATIVE TERMINAL**
2. **REMOVE SEAT TRACK COVER LH**
3. **REMOVE SEAT TRACK BRACKET COVER INNER LH**
4. **REMOVE FRONT SEAT ASSY LH**

HINT:

Set the front vertical in the most upper position.

- (a) Remove the 4 bolts.
 - (b) Disconnect the connectors, and then remove the front seat assembly LH.
5. **REMOVE FRONT SEAT HEADREST ASSY**
 6. **REMOVE RECLINING POWER SEAT SWITCH KNOB**
 7. **REMOVE SLIDE & VERTICAL POWER SEAT SWITCH KNOB**



8. REMOVE RECLINING ADJUSTER COVER LH

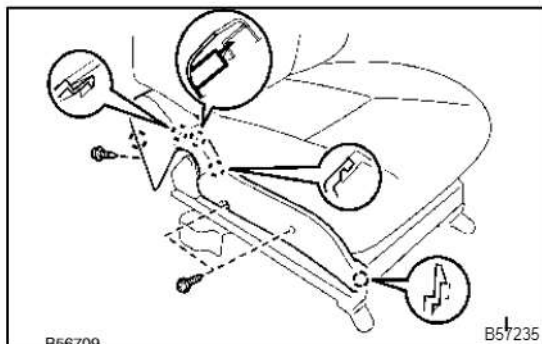
- (a) Remove the 4 screws.
- (b) Disengage the claws, and then remove the front seat cushion shield LH.

9. REMOVE FRONT POWER SEAT SWITCH LH

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

10. REMOVE FRONT SEAT INNER BELT ASSY LH

- (a) Disconnect the connectors.
- (b) Remove the nut and the front seat inner belt assembly LH.



11. REMOVE FRONT SEAT CUSHION SHIELD INNER LH

- (a) Remove the 3 screws.
- (b) Disengage the claws and then remove the front seat cushion shield inner LH.

12. REMOVE FRONT SEAT CUSHION SHIELD INNER NO.1 LH

- (a) Remove the 2 screws and the front seat cushion shield inner No.1 LH.

13. REMOVE FRONT SEAT CUSHION ASSY

- (a) Disconnect the clamps and connectors of each wire harness.
 (b) Remove the 4 bolts and front seat cushion assembly LH.

14. REMOVE SEPARATE TYPE FRONT SEAT CUSHION COVER

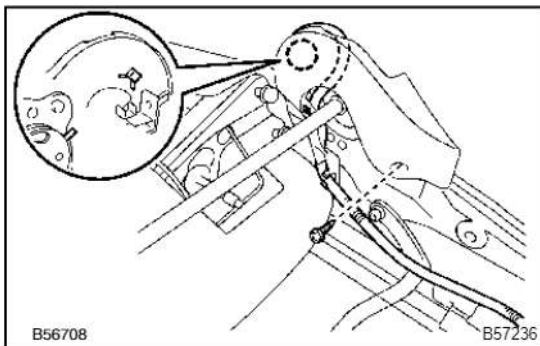
- (a) Remove the hog rings and the front seat cushion cover LH.

15. REMOVE FRONT SEAT CUSHION HEATER ASSY LH (W/ SEAT HEATER)

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

NOTICE:

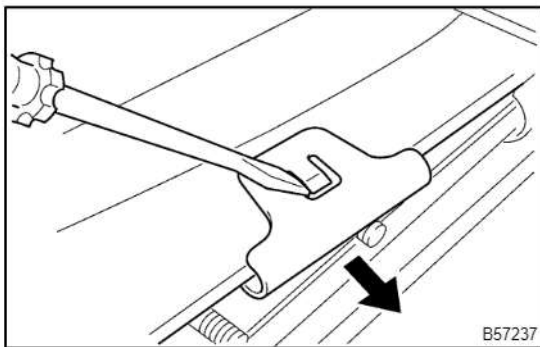
Be careful not to damage the seat cushion cover.

**16. REMOVE FRONT SEAT BACK ASSY**

- (a) Remove the hog rings at the lower portion of the front seat back cover.
 (b) Remove the 4 bolts from the front seat back assembly LH.
 (c) Remove the 2 screws and reclining adjuster inside cover RH.
 (d) w/ Side airbag:
 Disconnect the wire harness of the side airbag from the inside cover LH.
 (e) Remove the front seat back assembly LH.
 (f) Remove the 2 screws and the reclining adjuster inside cover LH.

17. REMOVE RECLINING ADJUSTER KNOB

- (a) Using a cloth or something, remove the snap rings and the lumber support adjusting knob.

**18. REMOVE SEPARATE TYPE FRONT SEAT BACK COVER**

- (a) Turn up the cover.
 (b) w/ Side airbag:
 Using a screwdriver, disengage the seat back cover bracket.

HINT:

Tape the screwdriver tip before use.

- (c) Remove the 2 headrest supports, and take away the front seat back cover LH from the seat back frame.
 (d) Remove the hog rings, and take away front seat back cover from the seat back pad.

19. REMOVE FRONT SEAT BACK HEATER ASSY LH (W/ SEAT HEATER)

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

NOTICE:

Be careful not to damage the seat back cover.

20. REMOVE NO.3 SEAT RECLINING ADJUSTER ASSY LH

- (a) Remove the 3 screws and the No.3 seat reclining adjuster assembly LH.

21. REMOVE POWER SEAT MOTOR

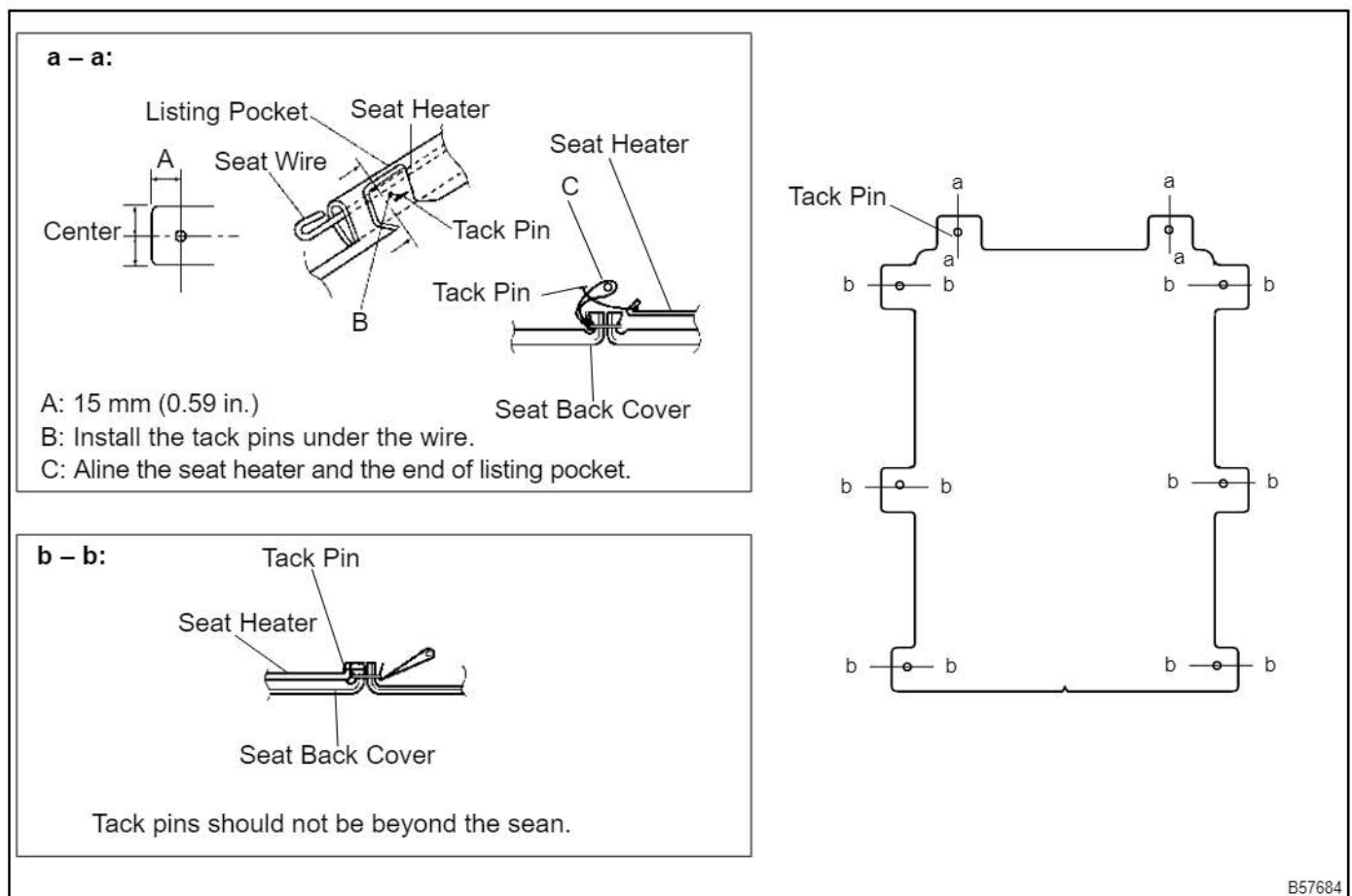
- (a) Remove the 2 screws each to remove the sliding motor, reclining motor, front vertical motor and rear lifter motor.

22. INSTALL FRONT SEAT BACK HEATER ASSY LH (W/ SEAT HEATER)

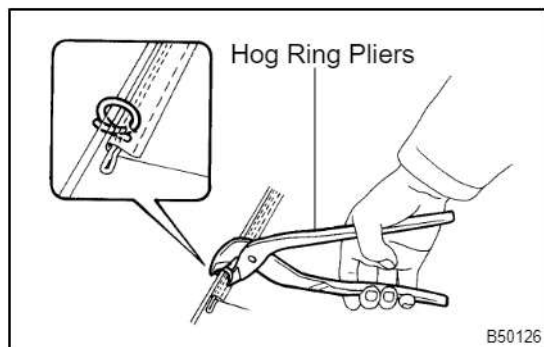
- (a) Set the seat heater to the seat back cover.
 (b) Install the front seat heater assembly to the seat back cover with the 8 tack pins.

NOTICE:

- Do not substitute other metal parts for tack pins.

**23. INSTALL SEPARATE TYPE FRONT SEAT BACK COVER****NOTICE:**

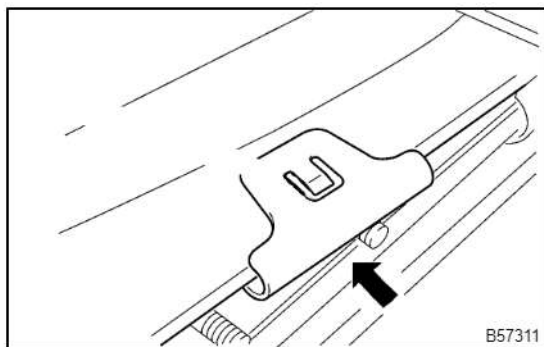
- For a vehicle with side airbag, if the seat back cover has damage, the side airbag may not activate normally, and therefore it is necessary to replace the seat back cover.
- For a vehicle with side airbag, if the side airbag has damage replace the pad and the frame with new ones.
- For a vehicle with side airbag, the side airbag may not activate normally unless the seat back cover is securely installed, as shown in the following procedures.



- (a) Using hog ring pliers, install the front seat back cover LH with new hog rings to the front seat back pad LH.
- (b) Using hog ring pliers, install the front seat back cover LH and pad LH with new hog ring to the front seat frame LH.

NOTICE:

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



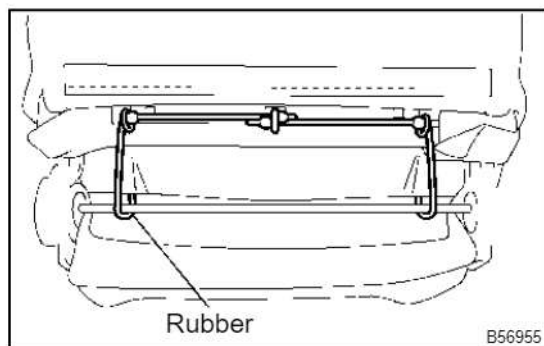
- (c) w/ Side airbag:
Install the seat back cover bracket.

NOTICE:

- For a vehicle with side airbag, the side airbag may not activate normally unless the seat back cover is securely installed.
- Check that the strap has no twist after installing the bracket.

24. INSTALL FRONT SEAT BACK ASSY

- (a) Install the front seat back assembly with the 4 bolts.
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)



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

NOTICE:

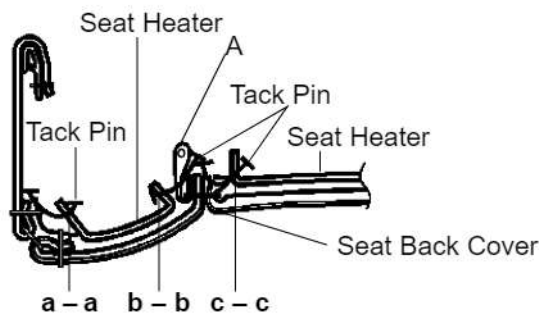
- Be careful not to damage the cover.
- When installing the hog rings, take care to prevent wrinkles as little as possible.

25. INSTALL RECLINING ADJUSTER KNOB**26. INSTALL FRONT SEAT CUSHION HEATER ASSY LH (W/ SEAT HEATER)**

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

NOTICE:

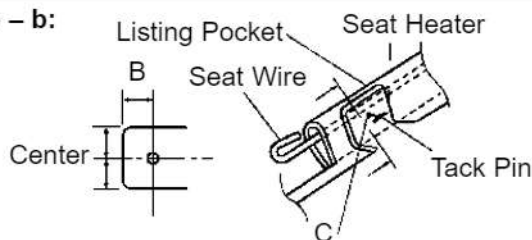
Do not substitute other metal parts for tack pins.



a – a, c – c:

Tack pins should not be beyond the sear.

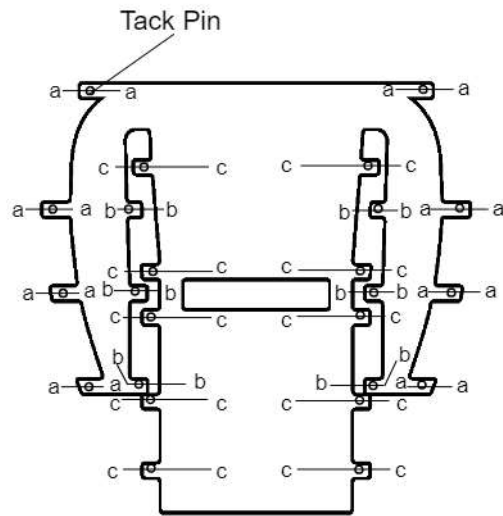
b – b:



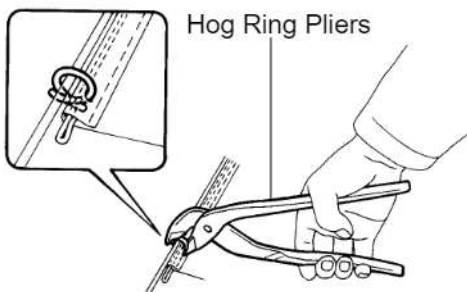
A: Install the tack pins under the wire.

B: 15 mm (0.59 in.)

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



B57686



B50126

27. INSTALL SEPARATE TYPE FRONT SEAT CUSHION COVER

- Using hog ring pliers, install the front seat cushion cover LH with new hog rings to the front seat cushion pad LH.
- Using hog ring pliers, install the front seat cushion cover LH and pad LH with new hog ring to the front seat frame LH.

NOTICE:

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

28. INSTALL FRONT SEAT CUSHION ASSY

- Install the front seat cushion assembly with the 4 bolts.
- w/ Side airbag: Install the wire harness clamps of the side airbag through the seat cushion cover end.
- Install the wire harness to the seat cushion frame with a band clamp.

29. INSTALL FRONT SEAT INNER BELT ASSY LH

- Install the front seat inner belt assembly LH with the bolt.

Torque: 42 N·m (420 kgf·cm, 31 ft·lbf)

30. INSTALL FRONT SEAT ASSY LH

- Set the front seat assembly LH to the vehicle.

NOTICE:

Be careful not to damage the cover.

- Install the front seat assembly LH temporarily with the 4 bolts.

Torque: 36.8 N·m (377 kgf·cm, 27 ft·lbf)

NOTICE:

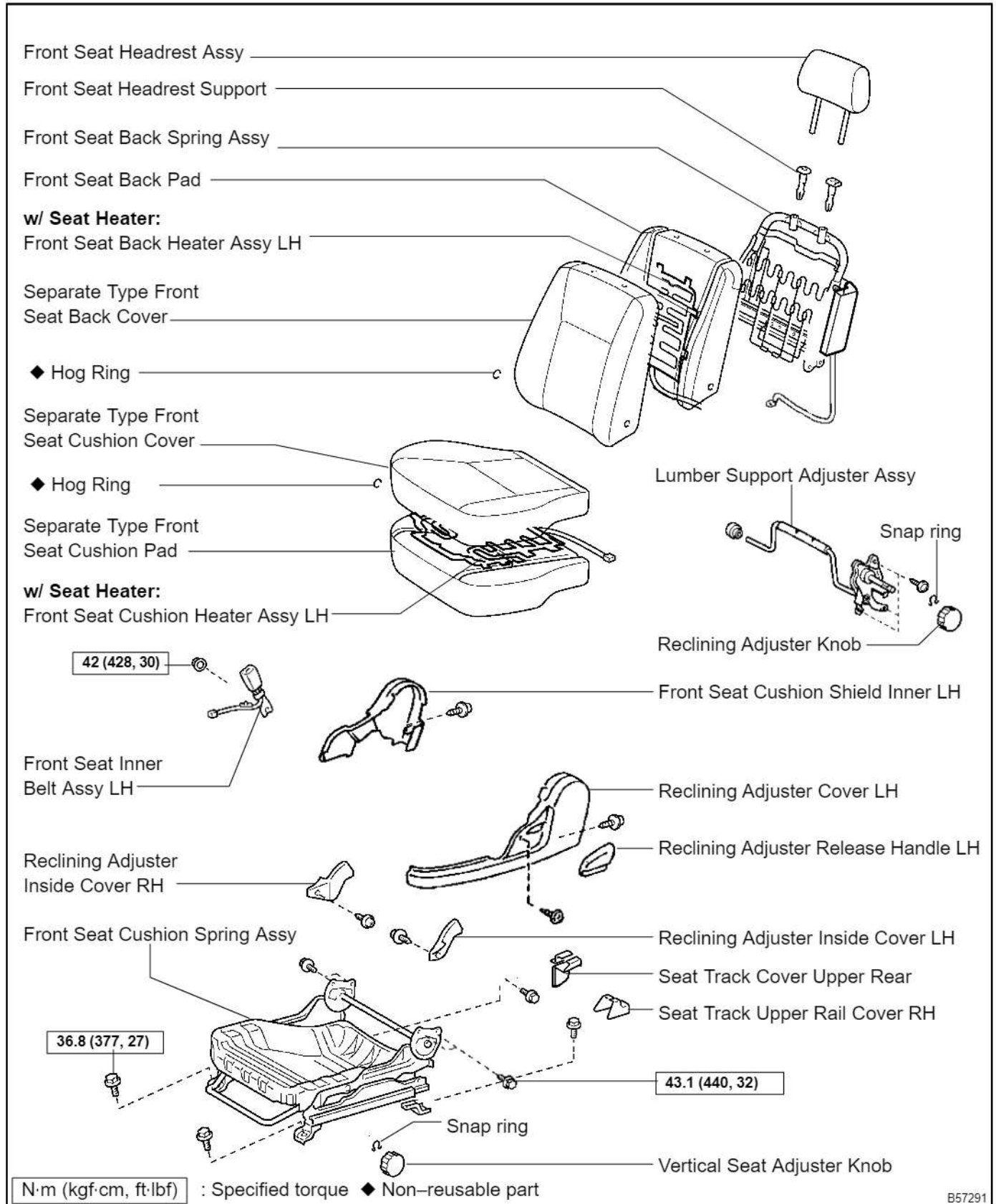
Check that the seat adjuster locked.

2002 CAMRY REPAIR MANUAL (RM881U)

FRONT SEAT (Manual Seat for TMC Made)

COMPONENTS

7208N-01



B57291

OVERHAUL

HINT:

- Installation is the reverse order of the removal. But, the installation is indicated only when it has a point.
- In the RH side, work in the same procedure as in the LH side.

1. DISCONNECT BATTERY NEGATIVE TERMINAL

2. REMOVE FRONT SEAT TRACK COVER LH REAR OUTER

3. REMOVE FRONT SEAT TRACK COVER LH REAR INNER

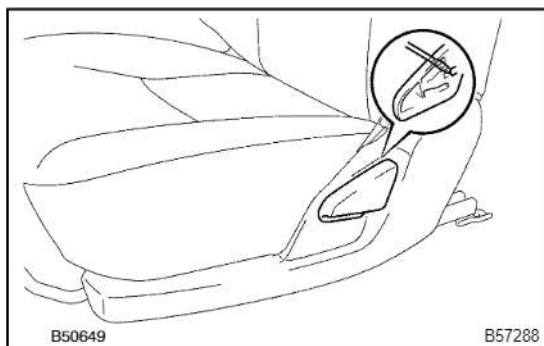
4. REMOVE FRONT SEAT ASSY LH

- Remove the 4 bolts.
- Disconnect the connectors, and then remove the front seat assembly LH.

5. REMOVE FRONT SEAT HEADREST ASSY

6. REMOVE VERTICAL SEAT ADJUSTER KNOB

- Using a cloth or something, remove the snap rings and the vertical seat adjusting knob.

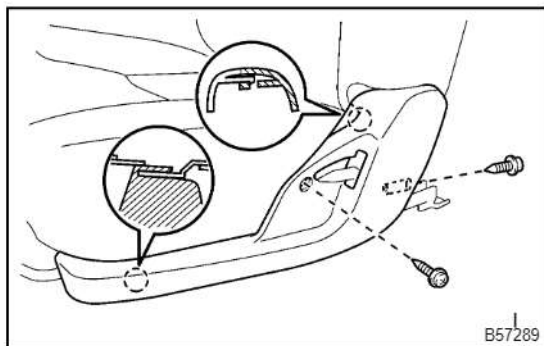


7. REMOVE RECLINING ADJUSTER RELEASE HANDLE LH

- Using a screwdriver, remove the reclining adjuster release handle LH.

HINT:

Tape the screwdriver tip before use.

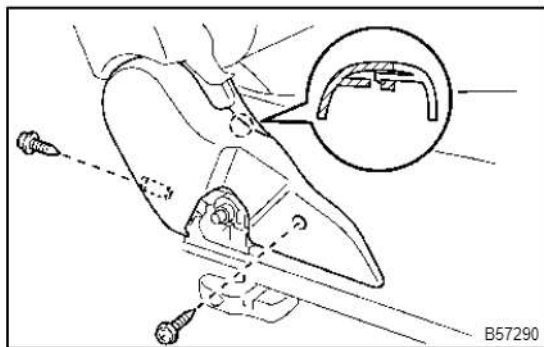


8. REMOVE RECLINING ADJUSTER COVER LH

- Remove the 2 screws.
- Disengage the claws, and then remove the reclining adjuster cover LH.

9. REMOVE FRONT SEAT INNER BELT ASSY LH

- Disconnect the connector.
- Remove the nut and the front seat inner belt assembly LH.



10. REMOVE FRONT SEAT CUSHION SHIELD INNER LH

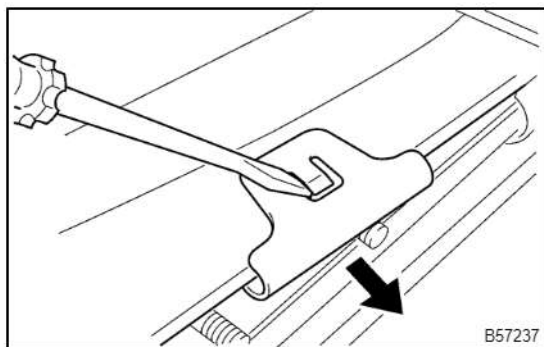
- Remove the 2 screws.
- Disengage the claws and the front seat cushion shield inner LH.

11. REMOVE FRONT SEAT BACK ASSY

- (a) Remove the hog rings at the lower portion of the seat back cover.
- (b) w/ Side air bag:
Disconnect the wire harness of the side airbag from the seat cushion.
- (c) Remove the 4 bolts and the front seat back assembly LH.

12. REMOVE RECLINING ADJUSTER KNOB

- (a) Using a cloth or something, remove the snap rings and the reclining adjusting knob.

**13. REMOVE SEPARATE TYPE FRONT SEAT BACK COVER**

- (a) Turn up the cover.
- (b) w/ Side airbag:
Using a screwdriver, disengage the seat back cover bracket.
- (c) Disengage the claws to remove the 2 headrest supports, and then take away the front seat cover LH from the pad spring.
- (d) Remove the hog rings, and then take away the cover from the pad.

14. REMOVE FRONT SEAT BACK HEATER ASSY LH (W/ SEAT HEATER)

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

NOTICE:

Be careful not to damage the seat cushion cover.

15. REMOVE SEPARATE TYPE FRONT SEAT CUSHION COVER

- (a) Disengage the hook, and remove the front seat cushion cover together with the front cushion spring.
- (b) Remove the hog ring, and take away the front seat cushion cover from the front cushion pad.

16. REMOVE FRONT SEAT CUSHION HEATER ASSY LH (W/ SEAT HEATER)

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

NOTICE:

Be careful not to damage the seat back cover.

17. REMOVE RECLINING ADJUSTER INSIDE COVER LH

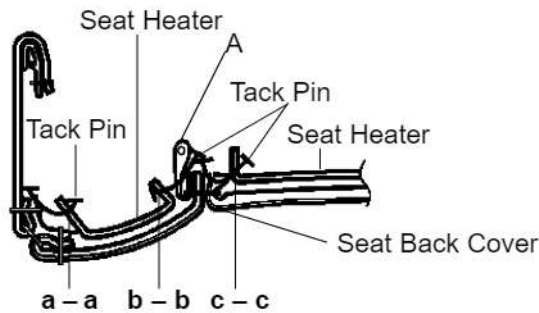
- (a) Remove the 2 screws and the reclining adjuster inside cover LH.
- (b) Employ the same manner described above to the other side.

18. REMOVE RECLINING ADJUSTER INSIDE COVER RH**19. INSTALL FRONT SEAT CUSHION HEATER ASSY LH (W/ SEAT HEATER)**

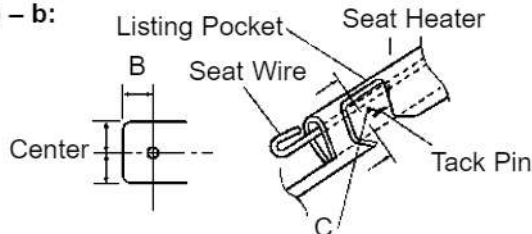
- (a) Set the seat heater to the seat cushion cover.
- (b) Install the front seat cushion heater assembly LH to the seat cushion cover with the 24 tack pins.

NOTICE:

Do not substitute other metal parts for tack pins.

**a – a, c – c:**

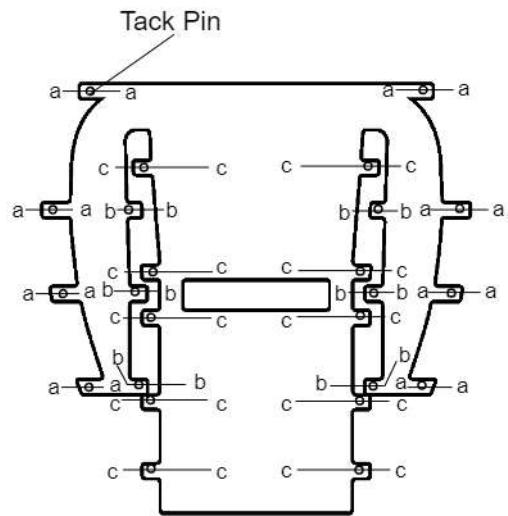
Tack pins should not be beyond the sear.

b – b:

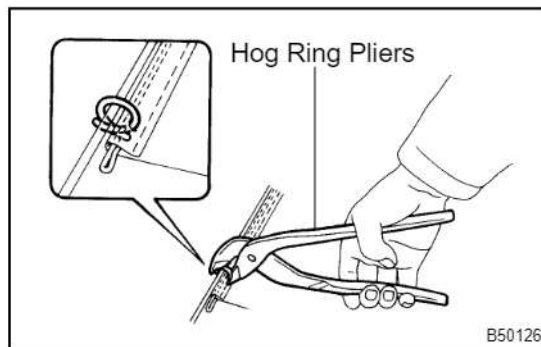
A: Install the tack pins under the wire.

B: 15 mm (0.59 in.)

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



B57686



B50126

20. INSTALL SEPARATE TYPE FRONT SEAT CUSHION COVER

- Using hog ring pliers, install the front seat cushion cover LH with new hog rings to the front seat cushion pad LH.
- Using hog ring pliers, install the front seat cushion cover LH and pad LH with new hog ring to the front seat frame LH.

NOTICE:

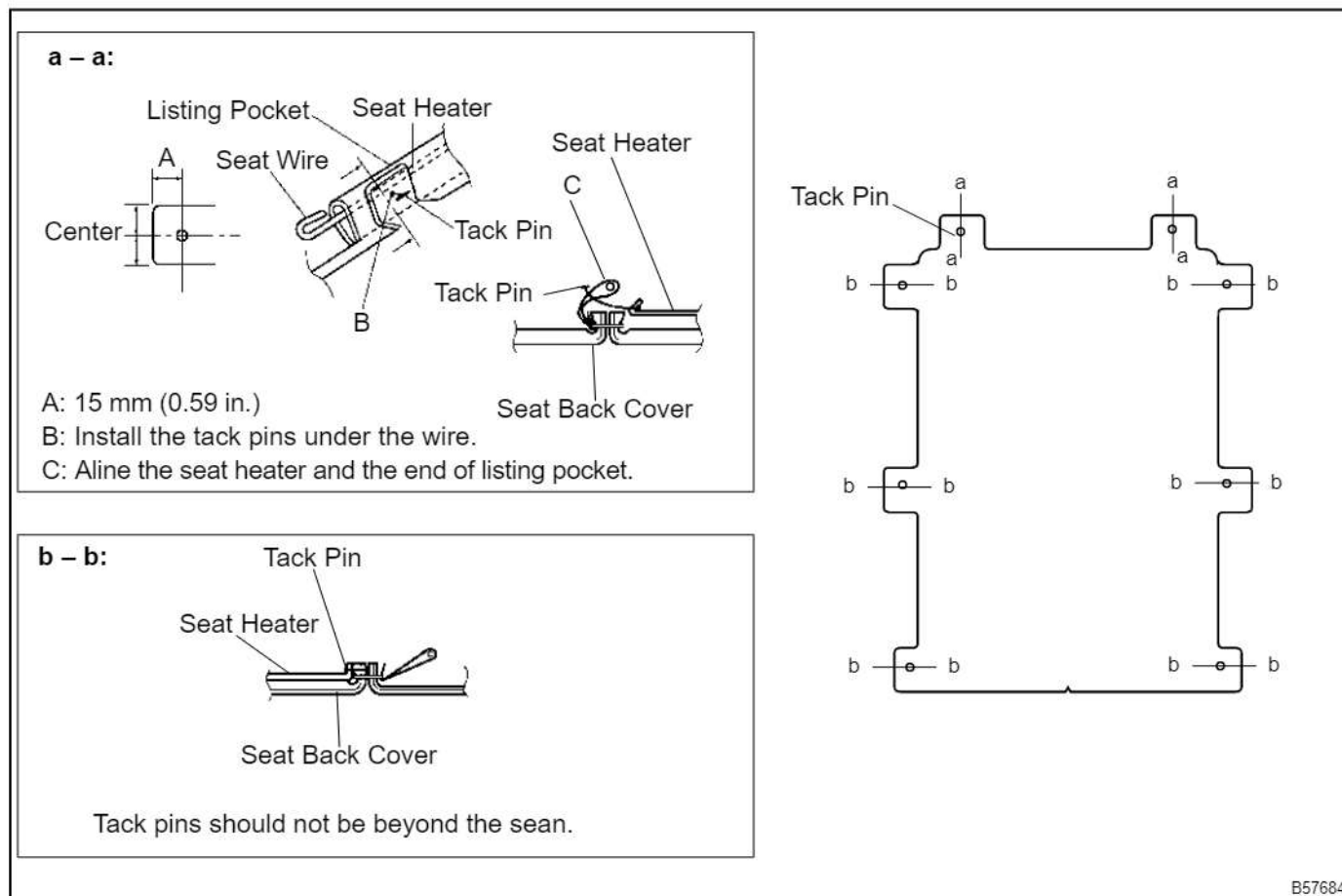
- Be careful not to damage the cover.
- When installing the hog rings, take care to prevent wrinkles as little as possible.

21. INSTALL FRONT SEAT BACK HEATER ASSY LH (W/ SEAT HEATER)

- Set the seat heater to the seat back cover.
- Install the front seat heater assembly LH to the seat back cover with the 8 tack pins.

NOTICE:

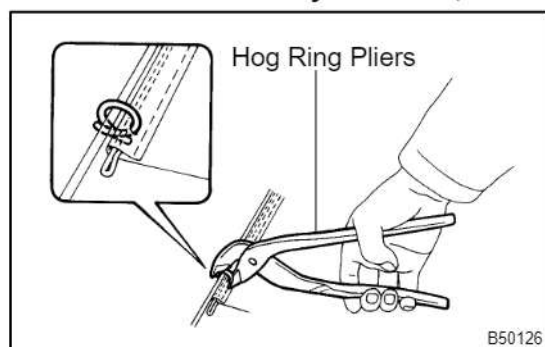
Do not substitute other metal parts for tack pins.



22. INSTALL SEPARATE TYPE FRONT SEAT BACK COVER

NOTICE:

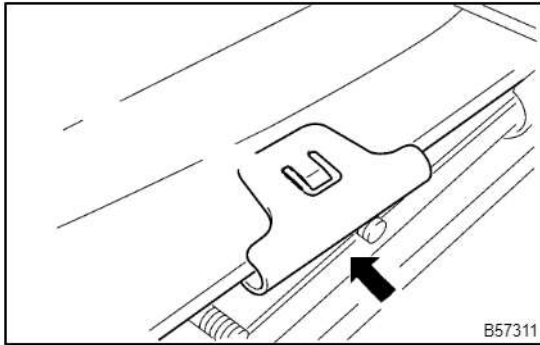
- For a vehicle with side airbag, if the seat back cover has damage, the side airbag may not activate normally, and therefore it is necessary to replace the seat back cover.
- For a vehicle with side airbag, if the side airbag has damage replace the pad and the frame with new ones.
- For a vehicle with side airbag, the side airbag may not activate normally unless the seat back cover is securely installed, as shown in the following procedures.



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

NOTICE:

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



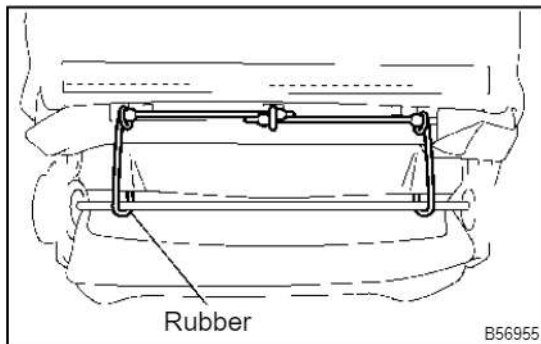
- (b) w/ Side airback:
Install the seat back cover bracket.

NOTICE:

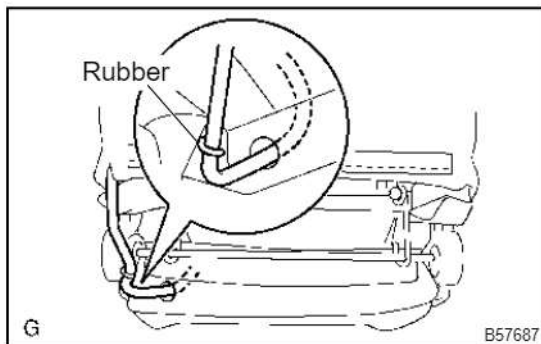
- For a vehicle with side airbag, the side airbag may not activate normally unless the seat back cover is securely installed.
- Check that the strap has no twist after installing the bracket.

23. INSTALL FRONT SEAT BACK ASSY

- (a) Install the front seat back assembly with the 4 bolts.
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)



- (b) As shown in the illustration, engage the rubber with a hole of the front seat back frame with new hog rings.



- (c) w/ Side airbag:
Install the wire harness and clamps of the side airbag through the seat cushion cover end.
- (d) Using hog ring pliers, install new hog rings.

NOTICE:

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

24. INSTALL FRONT SEAT INNER BELT ASSY LH

- (a) Install the front seat inner belt assembly LH with the bolt.
Torque: 42 N·m (420 kgf·cm, 31 ft·lbf)

25. INSTALL FRONT SEAT ASSY LH

- (a) Set the front seat assembly LH to the vehicle.

NOTICE:

Be careful not to damage the cover.

- (b) Install the front seat assembly LH with the 4 bolts.

Torque: 36.8 N·m (377 kgf·cm, 27 ft·lbf)

- (c) When sliding the seat, check that the both sides of the adjuster will lock simultaneously.

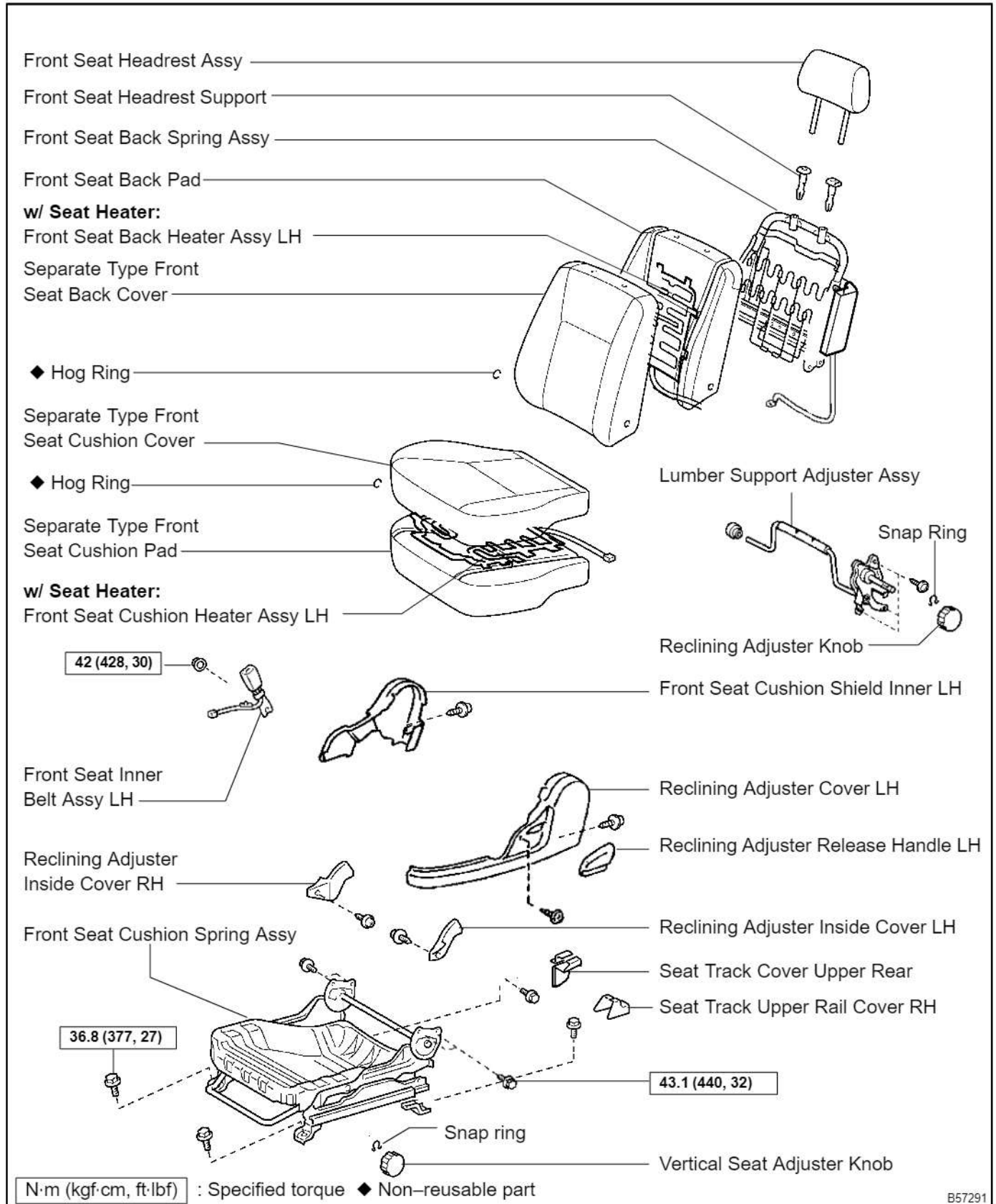
NOTICE:

Check that the seat adjuster locked.

FRONT SEAT (Manual Seat for TMMK Made)

COMPONENTS

7206P-01



B57291

OVERHAUL

HINT:

- Installation is the reverse order of the removal. But, the installation is indicated only when it has a point.
- In the RH side, work in the same procedure as in the LH side.

1. DISCONNECT BATTERY NEGATIVE TERMINAL

2. REMOVE SEAT TRACK COVER LH

3. REMOVE SEAT TRACK BRACKET COVER INNER LH

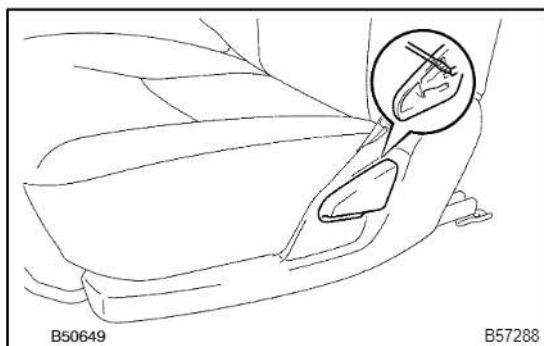
4. REMOVE FRONT SEAT ASSY LH

- Remove the 4 bolts.
- Disconnect the connectors, and then remove the front seat assembly LH.

5. REMOVE FRONT SEAT HEADREST ASSY

6. REMOVE VERTICAL SEAT ADJUSTER KNOB

- Using a cloth or something, remove the snap rings and the vertical seat adjusting knob.

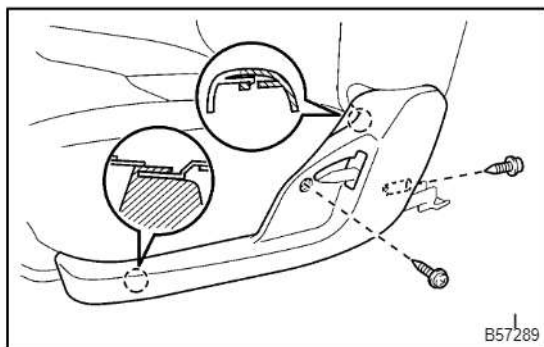


7. REMOVE RECLINING ADJUSTER RELEASE HANDLE LH

- Using a screwdriver, remove the reclining adjuster release handle LH.

HINT:

Tape the screwdriver tip before use.

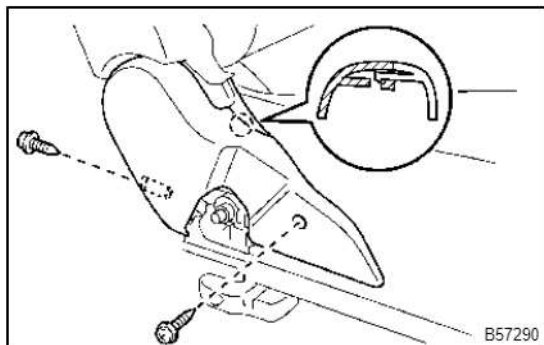


8. REMOVE RECLINING ADJUSTER COVER LH

- Remove the 2 screws.
- Disengage the claws, and then remove the reclining adjuster cover LH.

9. REMOVE FRONT SEAT INNER BELT ASSY LH

- Disconnect the connector.
- Remove the nut and the front seat inner belt assembly LH.

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

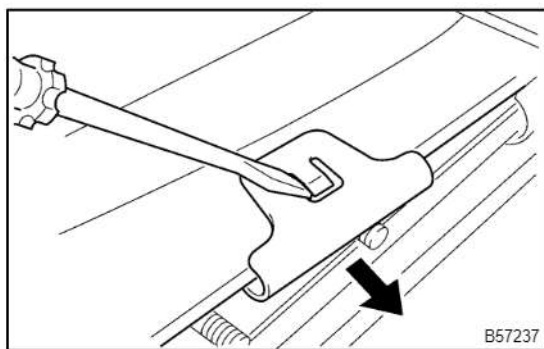
- (a) Remove the 2 screws.
- (b) Disengage the claws and the front seat cushion shield inner LH.

11. REMOVE FRONT SEAT BACK ASSY

- (a) Remove the hog rings at the lower portion of the seat back cover.
- (b) w/Side air bag:
Disconnect the wire harness of the side airbag from the seat cushion.
- (c) Remove the 4 bolts and the front seat back cover assembly LH.

12. REMOVE RECLINING ADJUSTER KNOB

- (a) Using a cloth or something, remove the snap rings and the reclining adjusting knob.

**13. REMOVE SEPARATE TYPE FRONT SEAT BACK COVER**

- (a) Turn up the cover.
- (b) w/ Side airbag:
Using a screwdriver, disengage the seat back cover bracket.
- (c) Disengage the claws to remove the 2 headrest supports, and then take away the front seat cover LH from the pad spring.
- (d) Remove the hog rings, and then take away the cover from the pad.

14. REMOVE FRONT SEAT BACK HEATER ASSY LH(W/ SEAT HEATER)

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

NOTICE:

Be careful not to damage the seat cushion cover.

15. REMOVE SEPARATE TYPE FRONT SEAT CUSHION COVER

- (a) Disengage the hook, and remove the front seat cushion cover together with the front cushion pad.
- (b) Remove the hog ring, and take away the front seat cushion cover from the front cushion pad.

16. REMOVE FRONT SEAT CUSHION HEATER ASSY LH(W/ SEAT HEATER)

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

NOTICE:

Be careful not to damage the seat back cover.

17. REMOVE RECLINING ADJUSTER INSIDE COVER LH

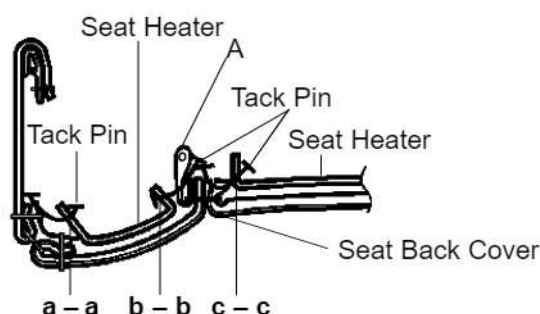
- (a) Remove the 2 screws and the reclining adjuster inside cover LH.
- (b) Employ the same manner described above to the other side.

18. REMOVE RECLINING ADJUSTER INSIDE COVER RH**19. INSTALL FRONT SEAT CUSHION HEATER ASSY LH(W/ SEAT HEATER)**

- (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:

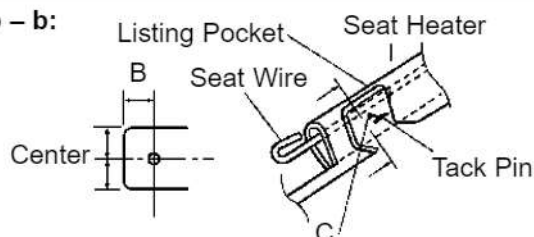
Do not substitute other metal parts for tack pins.



a – a, c – c:

Tack pins should not be beyond the sear.

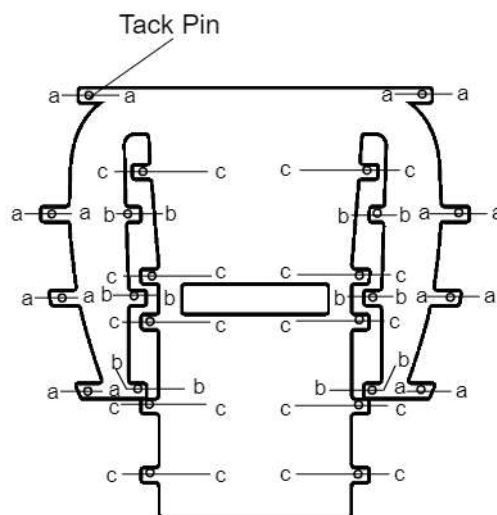
b – b:



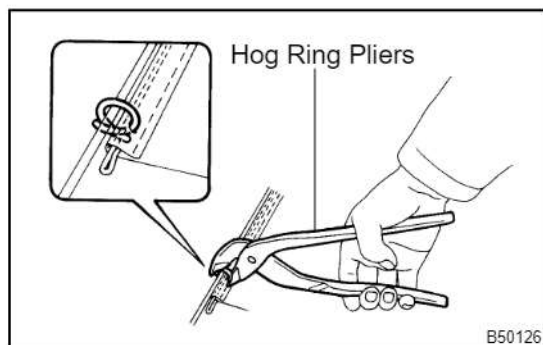
A: Install the tack pins under the wire.

B: 15 mm (0.59 in.)

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



B57686

**20. INSTALL SEPARATE TYPE FRONT SEAT CUSHION COVER**

- (a) Using hog ring pliers, install new hog rings.

NOTICE:

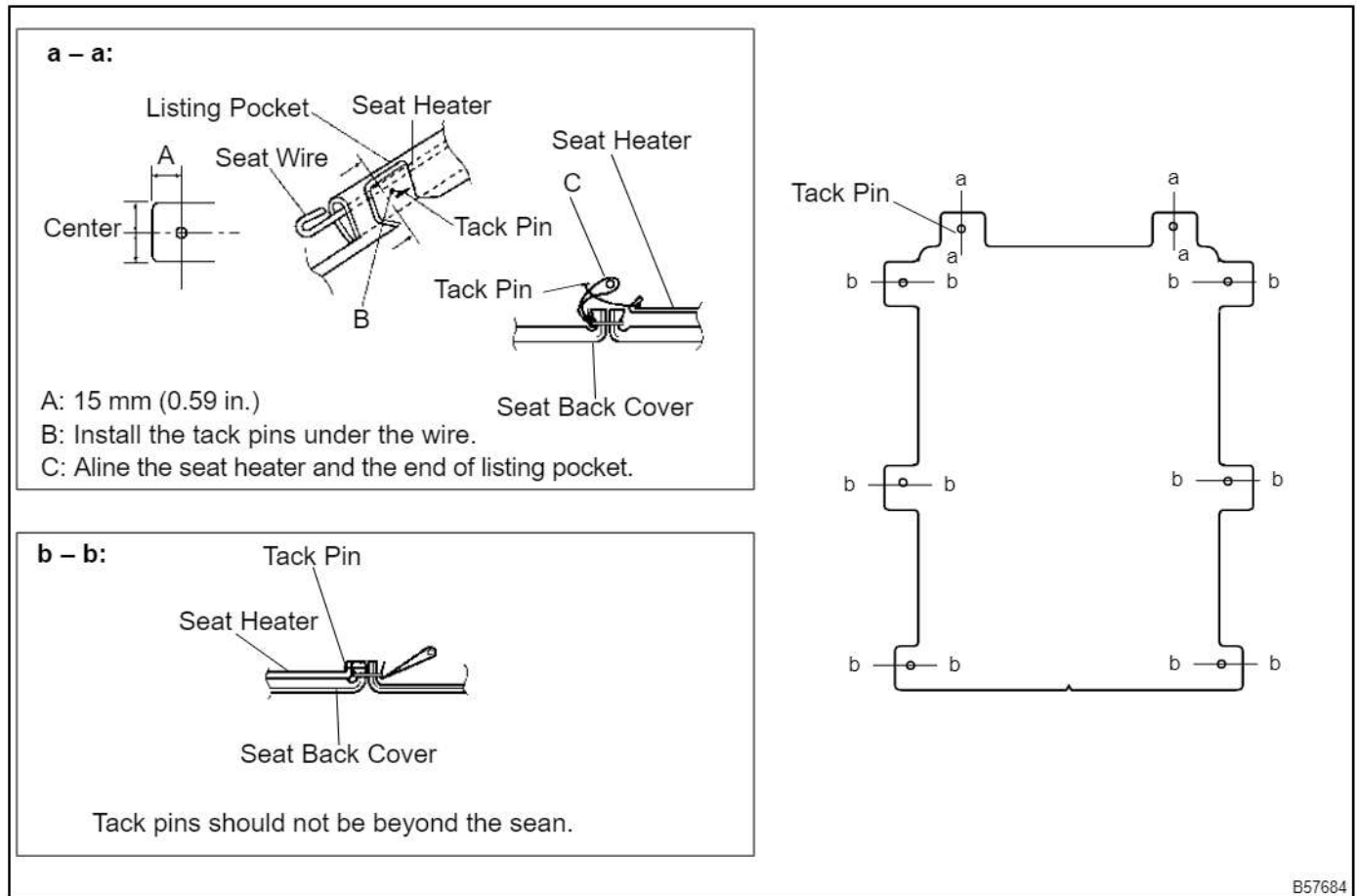
- Be careful not to damage the cover.
- When installing the hog rings, take care to prevent wrinkles as little as possible.

21. INSTALL FRONT SEAT BACK HEATER ASSY LH(W/ SEAT HEATER)

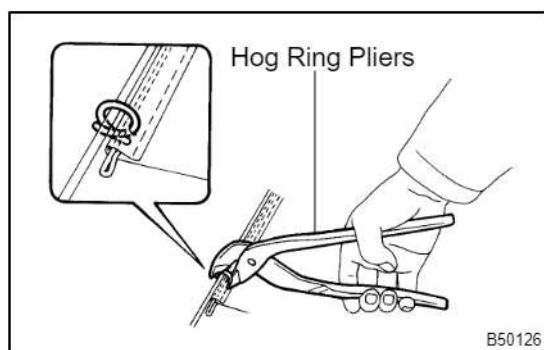
- (a) Set the seat heater to the seat back cover.
- (b) Install the seat heater to the seat back cover with the 8 tack pins.

NOTICE:

Does not substitute other metal parts for tack pins.

**22. INSTALL SEPARATE TYPE FRONT SEAT BACK COVER****NOTICE:**

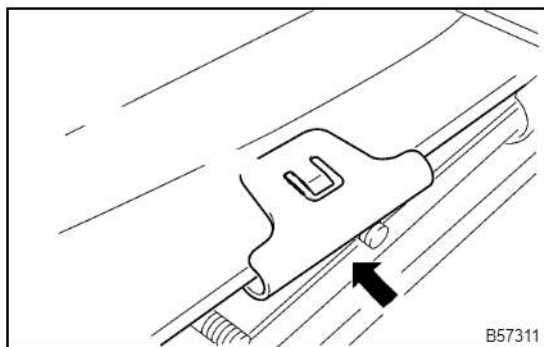
- For a vehicle with side airbag, if the seat back cover has damage, the side airbag may not activate normally, and therefore it is necessary to replace the seat back cover.
- For a vehicle with side airbag, if the side airbag has damage replace the pad and the frame with new ones.
- For a vehicle with side airbag, the side airbag may not activate normally unless the seat back cover is securely installed, as shown in the following procedures.



- (a) Using hog ring pliers, install new hog rings.

NOTICE:

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



- (b) Install the seat back cover bracket (for a vehicle with side airbag).

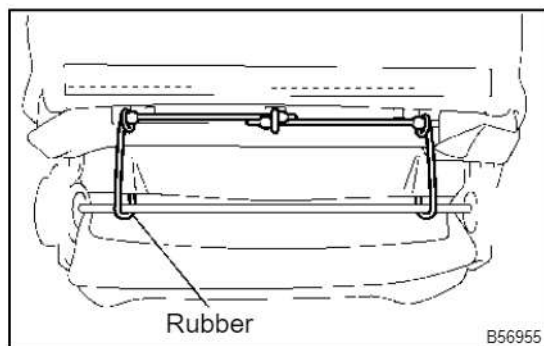
NOTICE:

- For a vehicle with side airbag, the side airbag may not activate normally unless the seat back cover is securely installed.
- Check that the strap has no twist after installing the bracket.

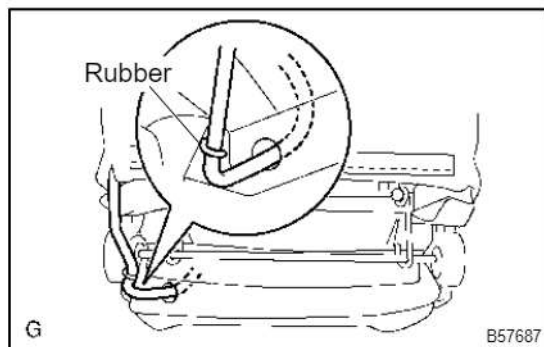
23. INSTALL FRONT SEAT BACK ASSY

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

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)



- (b) As shown in the illustration, engage the rubber with a hole of the front seat back frame with hog rings.



- (c) Install the wire harness and clamps of the side airbag through the seat cushion cover end.

- (d) Using hog ring pliers, install hog rings.

NOTICE:

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

24. INSTALL FRONT SEAT INNER BELT ASSY LH

- (a) Install the front seat inner belt assembly LH with the bolt.

Torque: 42 N·m (420 kgf·cm, 31 ft·lbf)

25. INSTALL FRONT SEAT ASSY LH

- (a) Set the front seat assembly LH to the vehicle.

NOTICE:

Be careful not to damage the cover.

- (b) Install the front seat assembly LH with the 4 bolts.

Torque: 36.8 N·m (377 kgf·cm, 27 ft·lbf)

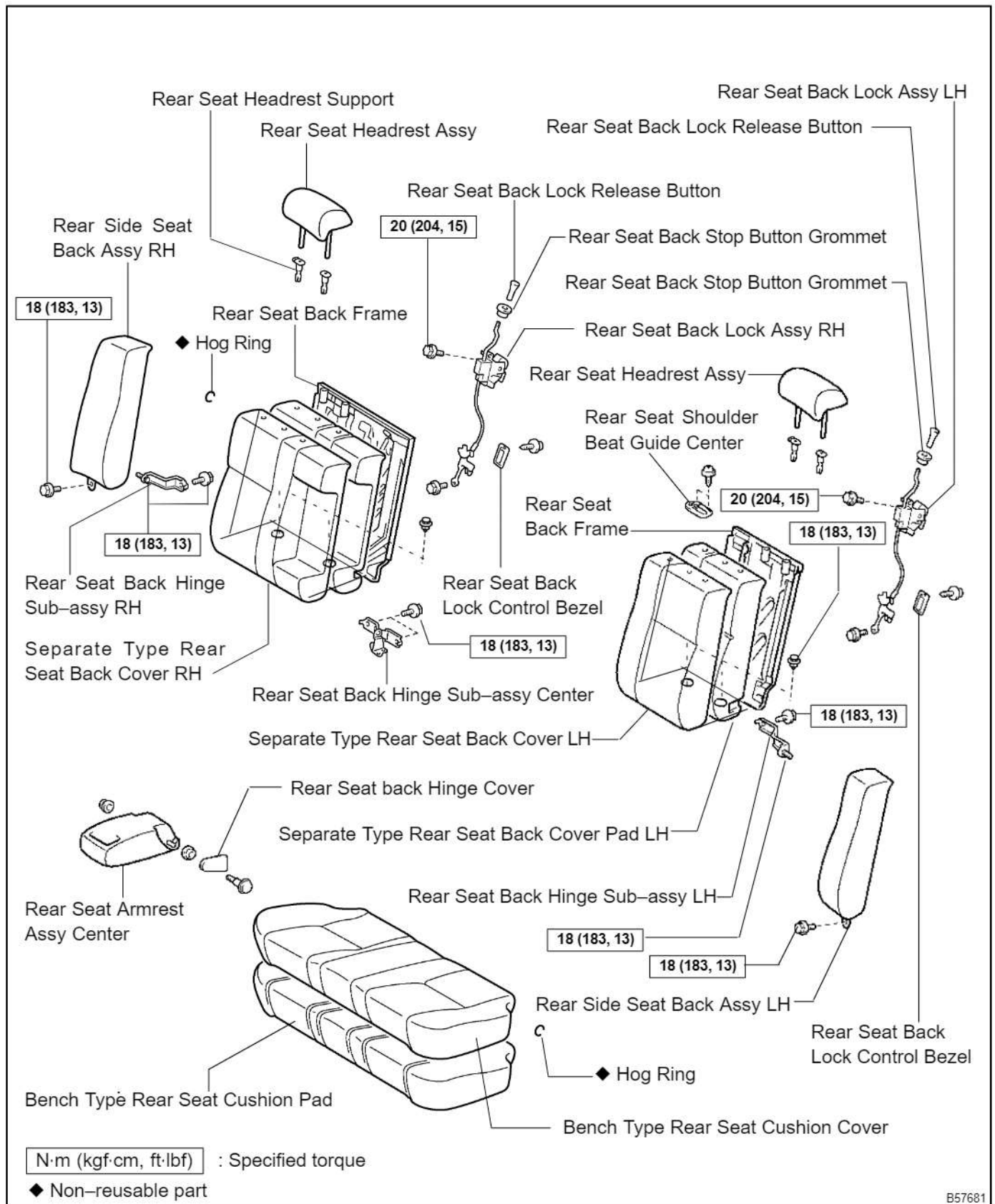
- (c) When sliding the seat, check that the both sides of the adjuster will lock simultaneously.

NOTICE:

Check that the seat adjuster locked.

REAR SEAT (TMC Made) COMPONENTS

7206S-01

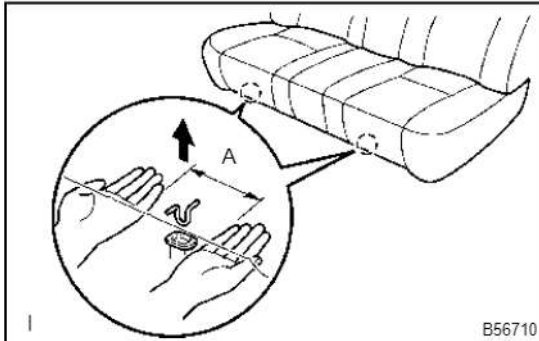


B57681

OVERHAUL

HINT:

- Installation is the reverse order of the removal. But, the installation is indicated only when it has a point.
- In the RH side, work in the same procedure as in the LH side.



1. REMOVE REAR SEAT CUSHION ASSY

- (a) Holding up the front end of the cushion assembly, disengage the clips and pull out the cushion assembly forward to remove it.

A: 100 mm (3.94 in.)

NOTICE:

The cushion frame will be deformed unless holding the clips around the roots.

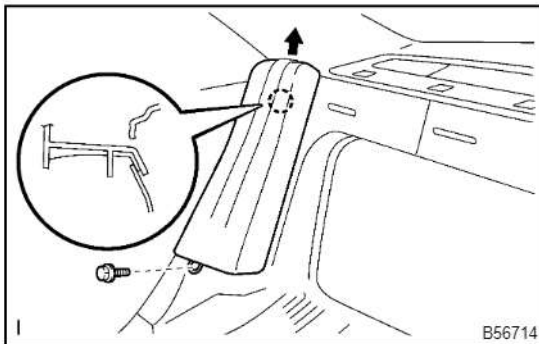
2. REMOVE REAR SEAT HEADREST ASSY

3. REMOVE REAR SEAT HEADREST ASSY

4. REMOVE REAR SEAT BACK ASSY RH

- (a) Tilting the seat forward, remove the 2 clips that are engaged with the floor.
 (b) Remove the 2 bolts and the rear seat back assembly.
 (c) Employ the same manner described above to the other side.

5. REMOVE REAR SEAT BACK ASSY LH



6. REMOVE REAR SIDE SEAT BACK ASSY RH

- (a) Remove the bolt and pull it out in the illustrated direction to remove the rear side seat back assembly.
 (b) Employ the same manner described above to the other side.

7. REMOVE REAR SIDE SEAT BACK ASSY LH

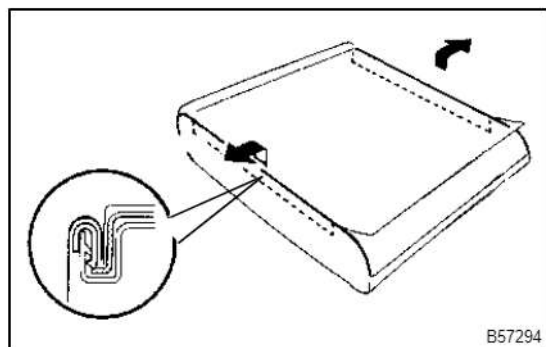
8. REMOVE REAR SEAT BACK HINGE COVER

9. REMOVE REAR SEAT ARMREST ASSY CENTER

- (a) Remove the bolts and the rear seat armrest assembly center.

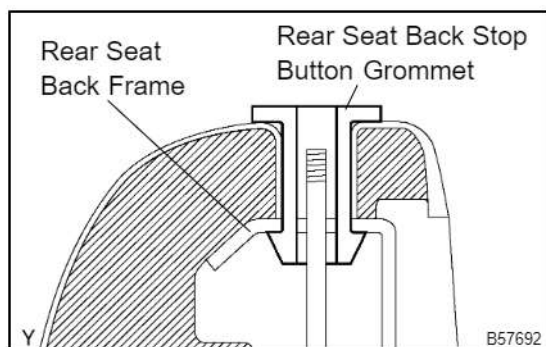
10. REMOVE REAR SEAT SHOULDER BELT GUIDE CENTER

11. REMOVE REAR SEAT BACK LOCK CONTROL BEZEL



12. REMOVE SEPARATE TYPE REAR SEAT BACK COVER RH

- (a) Disengage the back cover side, and then turn up the rear-seat back carpet.
- (b) Remove rear seat back lock release button



- (c) Remove rear seat back stop button grommet.
- (d) Remove the hog rings, and hold up the seat back frame to remove the 2 headrest supports.
- (e) Remove the rear seat back cover together with the seat-back pad.
- (f) Remove the hog rings, and then take away the cover from the rear seat back pad.

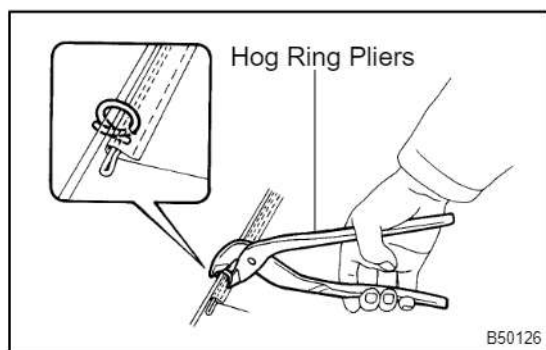
13. REMOVE SEPARATE TYPE REAR SEAT BACK COVER LH

14. REMOVE REAR SEAT BACK LOCK ASSY RH

- (a) Remove the 2 bolts and the rear seat back lock assembly RH.
- (b) Employ the same manner described above to the other side.

15. REMOVE REAR SEAT BACK LOCK ASSY LH

16. REMOVE BENCH TYPE REAR SEAT CUSHION COVER

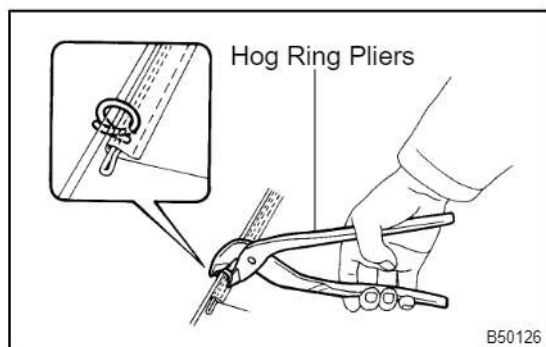


17. INSTALL BENCH TYPE REAR SEAT CUSHION COVER

- (a) Using hog ring pliers, install new hog rings.

NOTICE:

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



18. INSTALL SEPARATE TYPE REAR SEAT BACK COVER LH

- (a) Using hog ring pliers, install new hog rings.

NOTICE:

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

**19. INSTALL SEPARATE TYPE REAR SEAT BACK COVER
RH**

- (a) Using hog ring pliers, install the hog rings.

NOTICE:

- **Be careful not to damage the cover.**
 - **When installing the hog rings, take care to prevent wrinkles as little as possible.**
- (b) Using hog ring pliers, install new hog rings.

20. INSTALL REAR SEAT BACK HINGE SUB-ASSY CENTER

- (a) Install the rear seat back hinges center with the 2 bolts.

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

21. INSTALL REAR SEAT BACK HINGE SUB-ASSY RH

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

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

22. INSTALL REAR SIDE SEAT BACK ASSY LH

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

23. INSTALL REAR SIDE SEAT BACK ASSY RH

- (a) Install the rear side seat back assembly with the 2 bolts.

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

24. INSTALL REAR SEAT BACK ASSY RH

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

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

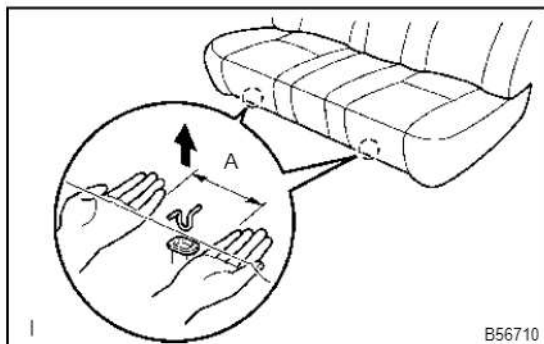
25. INSTALL REAR SEAT BACK ASSY LH

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

720611-01



OVERHAUL



1. REMOVE REAR SEAT CUSHION ASSY

- (a) Holding up the front end of the cushion assembly, disengage the clips and pull out the cushion assembly forward to remove it.

A: 100 mm (3.94 in.)

NOTICE:

The cushion frame will be deformed unless holding the clips around the roots.

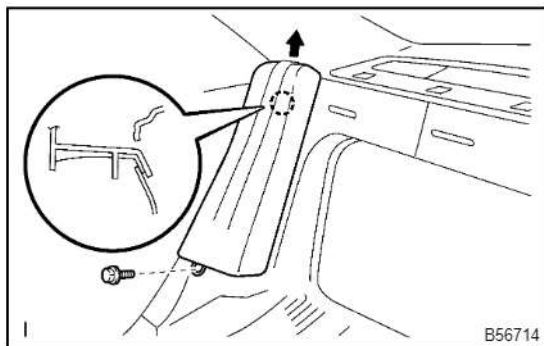
2. REMOVE REAR SEAT HEADREST ASSY

3. REMOVE REAR SEAT HEADREST ASSY

4. REMOVE REAR SEAT BACK ASSY RH

- (a) Tilting the seat forward, remove the 2 clips that are engaged with the floor.
 (b) Remove the 2 bolts and the rear seat back assembly.
 (c) Employ the same manner described above to the other side.

5. REMOVE REAR SEAT BACK ASSY LH



6. REMOVE REAR SIDE SEAT BACK ASSY RH

- (a) Remove the bolt and pull it out in the illustrated direction to remove the side seat back assembly.
 (b) Employ the same manner described above to the other side.

7. REMOVE REAR SIDE SEAT BACK ASSY LH

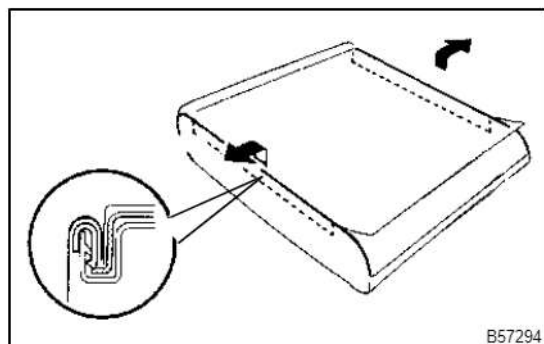
8. REMOVE REAR SEAT BACK HINGE COVER

9. REMOVE REAR SEAT ARMREST ASSY CENTER

- (a) Remove the bolts and the rear seat armrest assembly center.

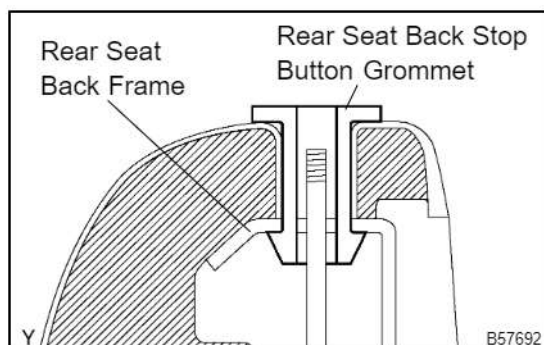
10. REMOVE REAR SEAT SHOULDER BELT GUIDE CENTER

11. REMOVE REAR SEAT BACK LOCK CONTROL BEZEL



12. REMOVE SEPARATE TYPE REAR SEAT BACK COVER RH

- (a) Disengage the back cover side, and then turn up the rear-seat back carpet.
- (b) Remove the rear seat back lock release button.



- (c) Remove rear seat back stop button grommet.
- (d) Remove the hog rings, and hold up the seat back frame to remove the 2 headrest supports.
- (e) Remove the rear seat back cover together with the seat-back pad.
- (f) Remove the hog rings, and then take away the cover from the rear seat back pad.

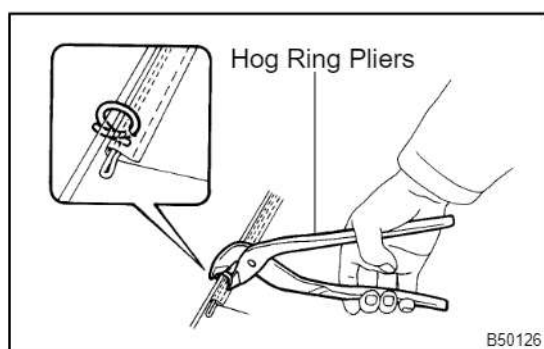
13. REMOVE SEPARATE TYPE REAR SEAT BACK COVER LH

14. REMOVE REAR SEAT BACK LOCK SUB-ASSY RH

- (a) Remove the 2 bolts and the rear seat back lock assembly RH.
- (b) Employ the same manner described above to the other side.

15. REMOVE REAR SEAT BACK LOCK SUB-ASSY LH REMOVE REAR SEAT BACK LOCK ASSY LH

16. REMOVE BENCH TYPE REAR SEAT CUSHION COVER

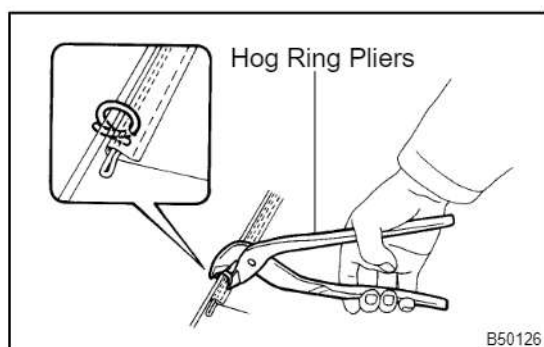


17. INSTALL BENCH TYPE REAR SEAT CUSHION COVER

- (a) Using hog ring pliers, install new hog rings.

NOTICE:

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

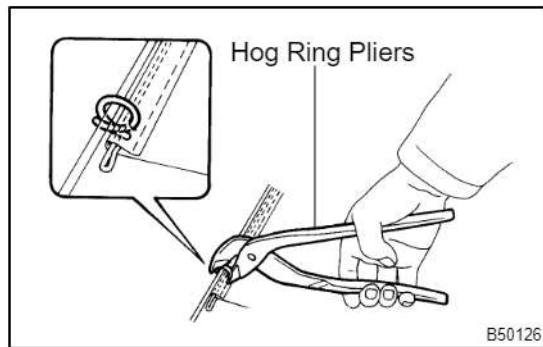


18. INSTALL SEPARATE TYPE REAR SEAT BACK COVER LH

- (a) Using hog ring pliers, install new hog rings.

NOTICE:

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



19. INSTALL SEPARATE TYPE REAR SEAT BACK COVER RH

- (a) Using hog ring pliers, install new hog rings.

NOTICE:

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

20. INSTALL REAR SEAT BACK HINGE SUB-ASSY CENTER

- (a) Install the rear seat back hinges center with the 2 bolts.

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

21. INSTALL REAR SEAT BACK HINGE SUB-ASSY RH

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

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

22. INSTALL REAR SIDE SEAT BACK ASSY LH

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

23. INSTALL REAR SIDE SEAT BACK ASSY RH

- (a) Install the rear side seat back assembly with the 2 bolts.

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

24. INSTALL REAR SEAT BACK ASSY RH

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

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

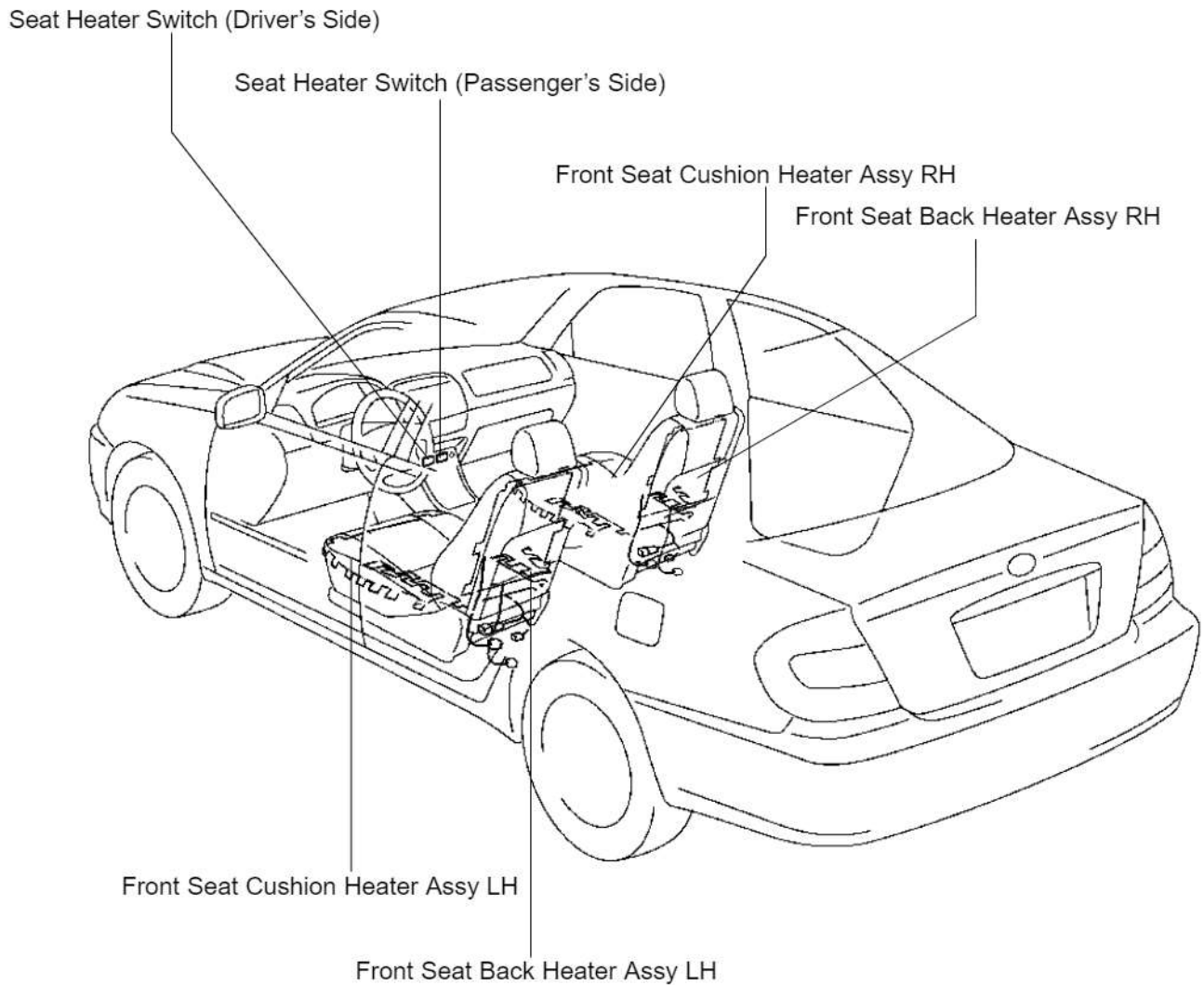
25. INSTALL REAR SEAT BACK ASSY LH

- (a) Install the rear side seat back assembly with the 2 bolts.

Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)

SEAT HEATER SYSTEM LOCATION

7206W-01



0

B57233

PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See page
Seat heaters do not operate	1. SEAT HTR fuse	
	2. Front seat cushion heater assy LH	72-37
	3. Front seat cushion heater assy RH	72-38
	4. Front seat back heater assy LH	72-37
	5. Front seat back heater assy RH	72-38
	6. Seat heater switch	72-37
	7. Wire harness	

INSPECTION

Seat Heat Switch (Driver's Side)



0

B51466

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.

Seat Heat Switch (Passenger's Side)



0

B51467

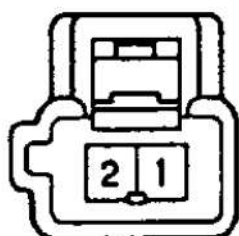
- (b) Inspect the seat heater switch (passenger's side) continuity.

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.

Front Seat Cushion Heater



B30883

2. INSPECT FRONT SEAT CUSHION HEATER ASSY LH

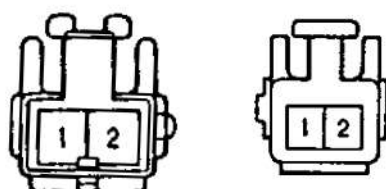
- (a) Inspect the seat cushion heater assembly LH continuity.

Standard:

Terminal No.	Condition	Specified condition
1 ⇄ 2	Constant	Continuity

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

Front Seat back Heater



B51473

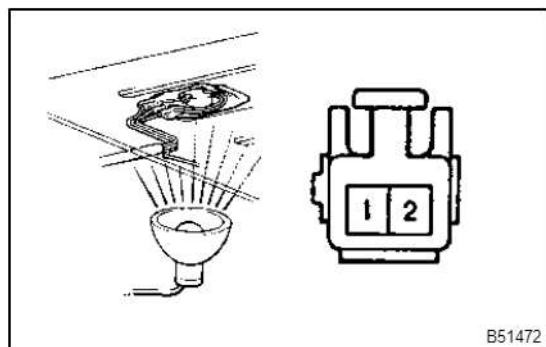
3. INSPECT FRONT SEAT BACK HEATER ASSY LH

- (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