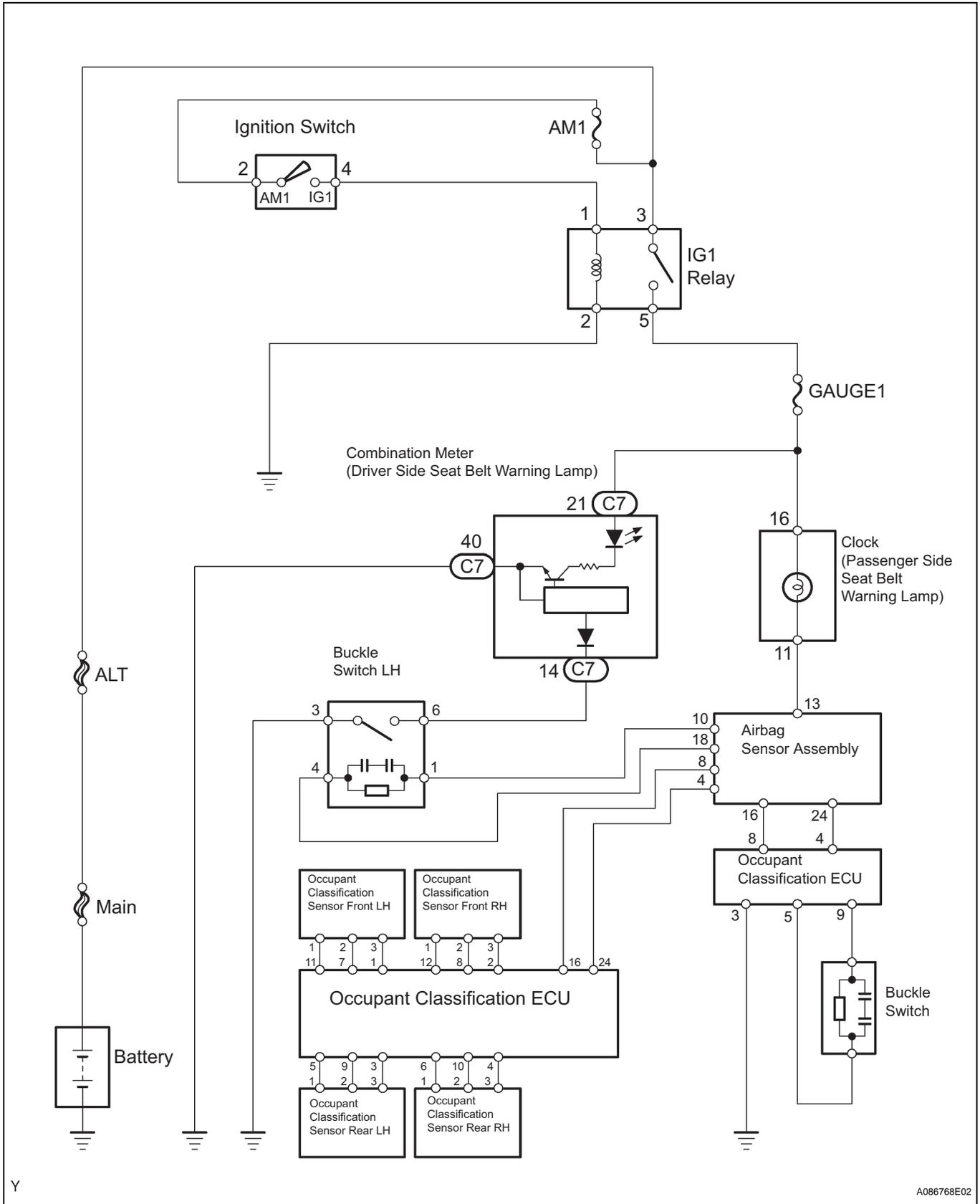


SYSTEM DIAGRAM



SB

SYSTEM DESCRIPTION

The seat belt warning system activates the continuous flashing of the seat belt warning light if the passenger or driver side seat belt is not fastened. When the ignition switch is in the ON position, the system determines if the seat belt is fastened by checking if the switch in the seat belt buckle is ON or OFF.

PROBLEM SYMPTOMS TABLE

Symptom	Suspected area	See page
Driver side seat belt warning light does not blink	1.AM1 fuse	SB-1
	2.GAUGE1 fuse	SB-1
	3.Combination meter	ME-50
	4.Front seat inner belt assembly LH	SB-4
	5.Wire harness	-
Passenger side seat belt warning light does not blink	1.AM1 fuse	SB-1
	2.GAUGE1 fuse	SB-1
	3.Clock	ME-53
	4.Front seat inner belt assembly RH	RS-40
	5.Occupant classification ECU	RS-40
	6.Occupant classification sensor	RS-40
	7.Airbag sensor assembly	RS-40
	8.Wire harness	-

NOTICE:

The front seat inner belt RH cannot be inspected. When the front seat inner belt seems to be malfunctioning, use the intelligent tester to check for DTCs.

INSPECTION

1. INSPECT FRONT SEAT INNER BELT ASSEMBLY LH

- (a) Check the buckle switch.
- (1) Fasten the seat belt.
 - (2) Measure the resistance between the terminals.

Resistance

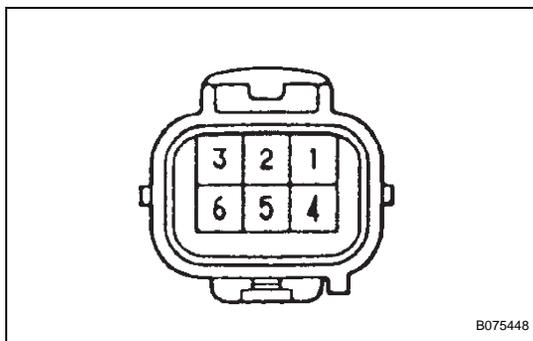
Tester Connection	Specified Condition
3 - 6	1 M Ω or higher

- (3) Release the seat belt.
- (4) Measure the resistance between the terminals.

Resistance

Tester Connection	Specified Condition
3 - 6	Below 1 Ω

If the result is not as specified, replace the inner belt assembly.

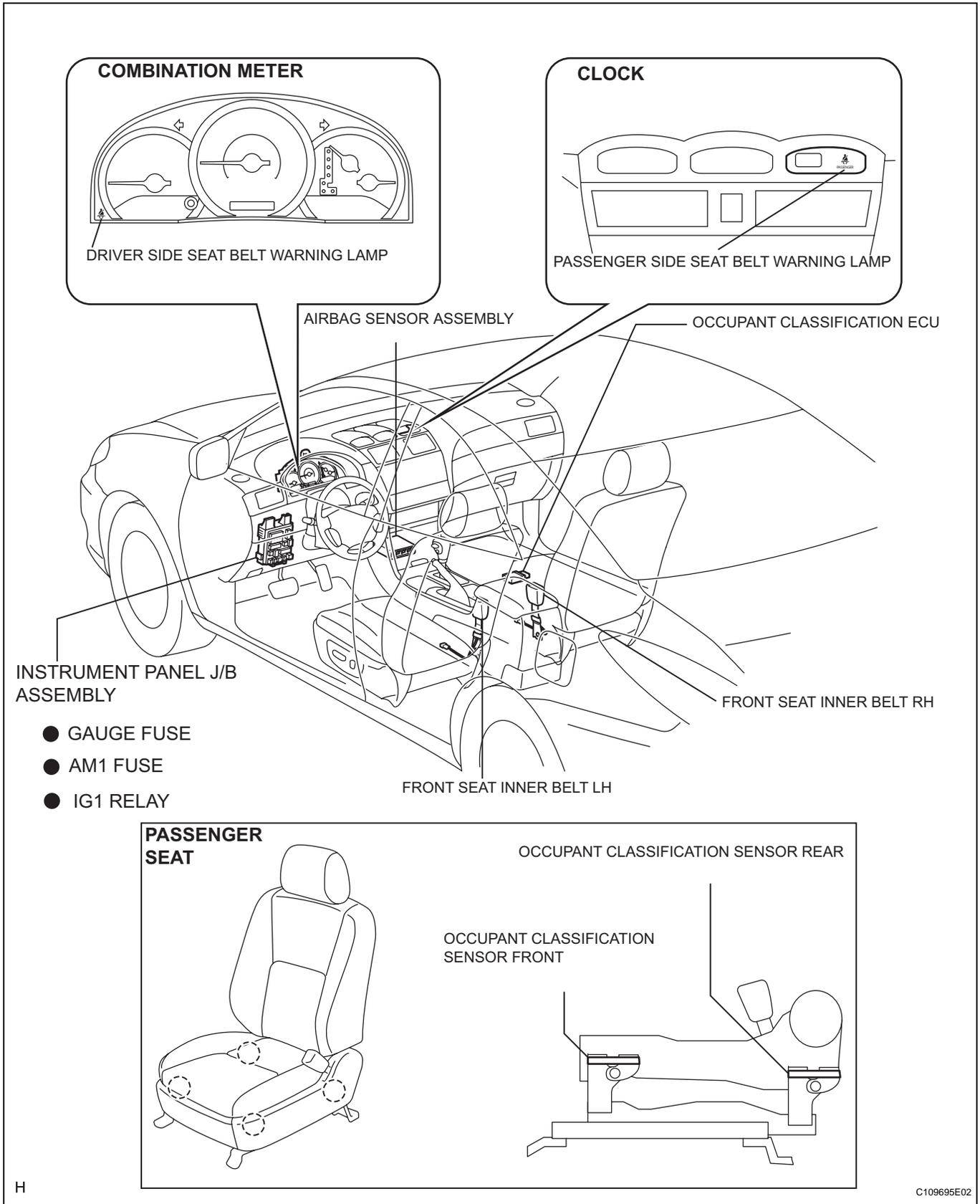


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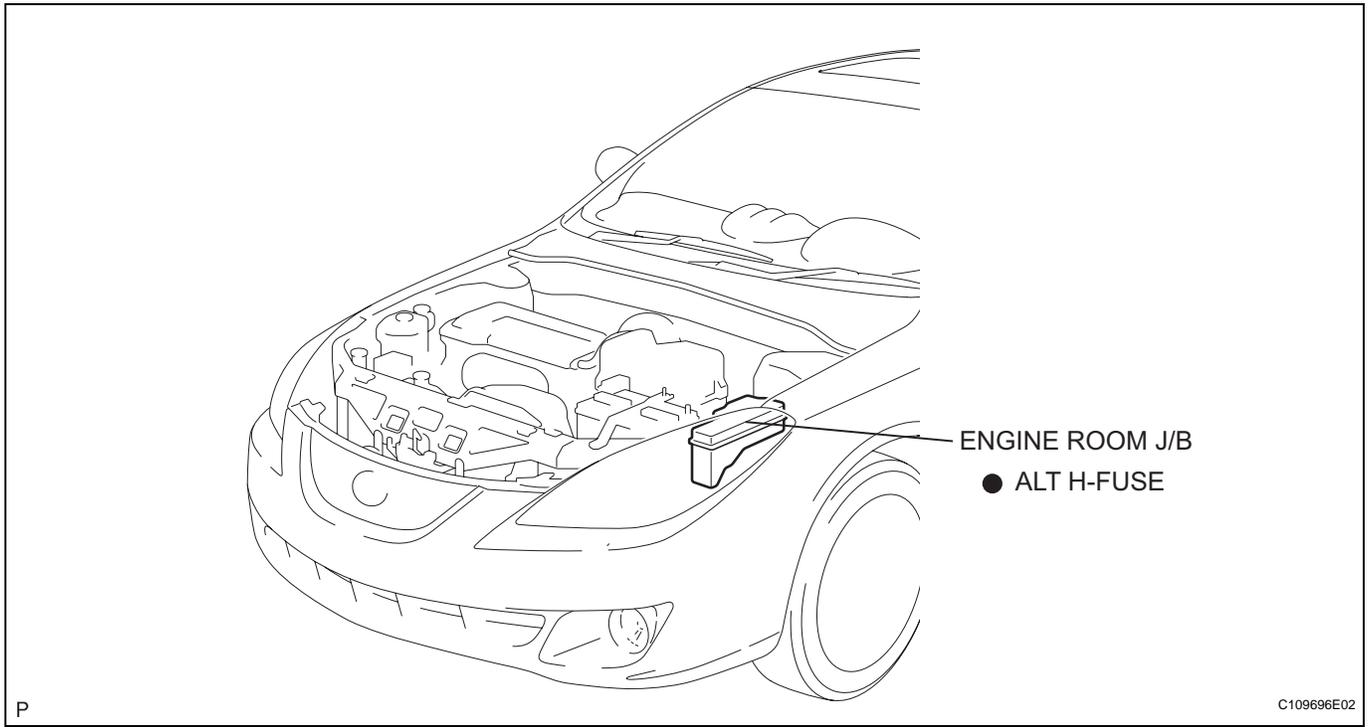
SB

SEAT BELT WARNING SYSTEM

PARTS LOCATION



SB

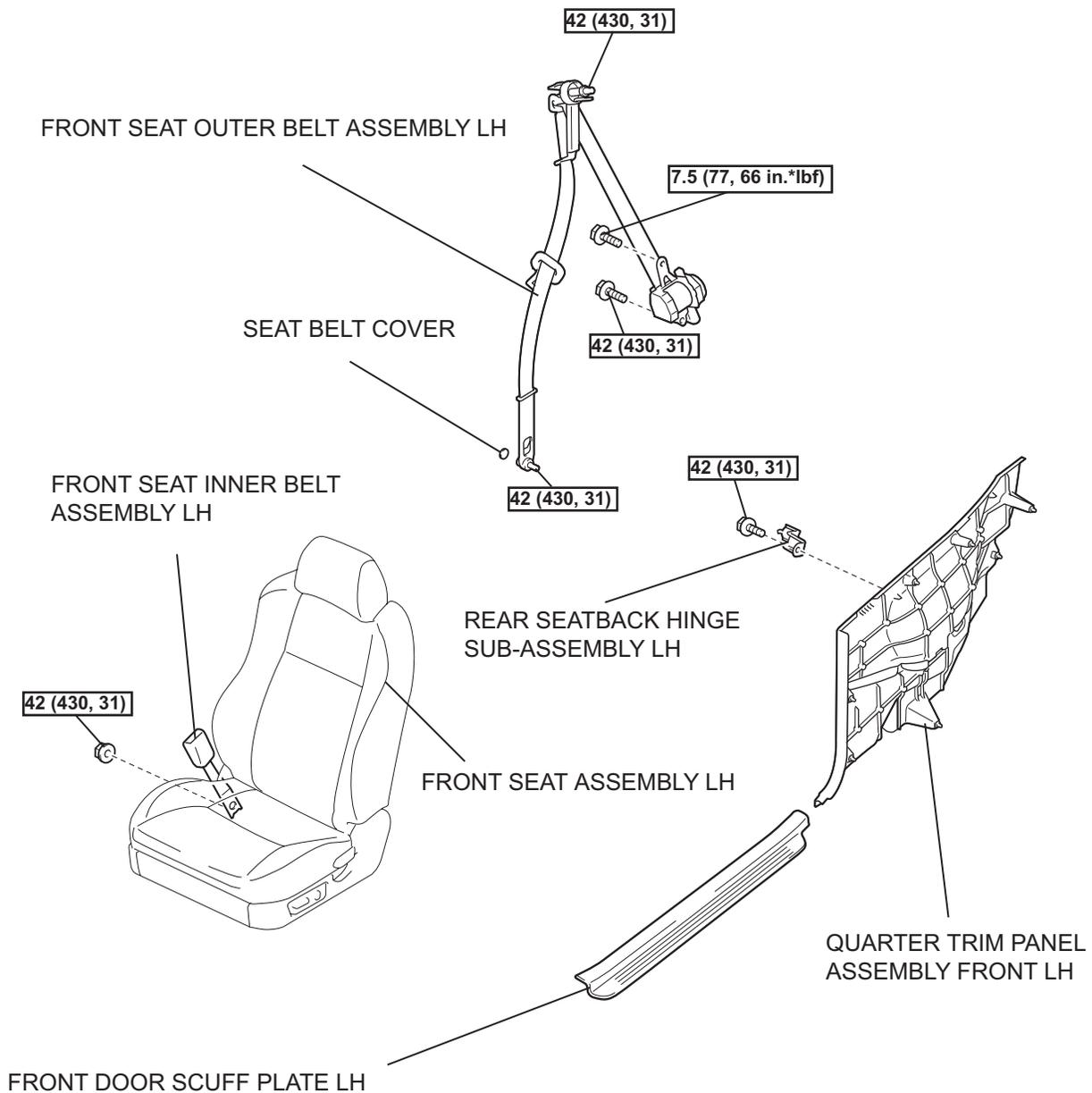


INSTALLATION

1. **INSTALL FRONT SEAT INNER BELT ASSEMBLY LH**
 - (a) Install the inner belt with the bolt.
Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)
2. **INSTALL FRONT SEAT ASSEMBLY LH**

FRONT SEAT INNER BELT ASSEMBLY (for Coupe)

COMPONENTS



SB

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

REMOVAL

1. **REMOVE FRONT SEAT ASSEMBLY LH**
 - (a) Remove the front seat assembly LH (See page [SE-30](#) for power seat, [SE-18](#) for manual seat).
2. **REMOVE FRONT SEAT INNER BELT ASSEMBLY LH**
 - (a) Disconnect the connector.
 - (b) Remove the bolt and inner belt.

INSTALLATION

1. **INSTALL FRONT SEAT INNER BELT ASSEMBLY LH**
 - (a) Install the front seat LH (See page (power seat) or (manual seat)).
2. **INSTALL FRONT SEAT ASSEMBLY LH**
 - (a) Reconnect the connector.
 - (b) Install the bolt and inner belt.

REMOVAL

1. **REMOVE FRONT SEAT ASSEMBLY LH**
 - (a) Remove the front seat LH (See page [SE-30](#) for power seat, [SE-18](#) for manual seat).
2. **REMOVE FRONT SEAT INNER BELT ASSEMBLY LH**
 - (a) Disconnect the connector.
 - (b) Remove the bolt and inner belt.

REMOVAL

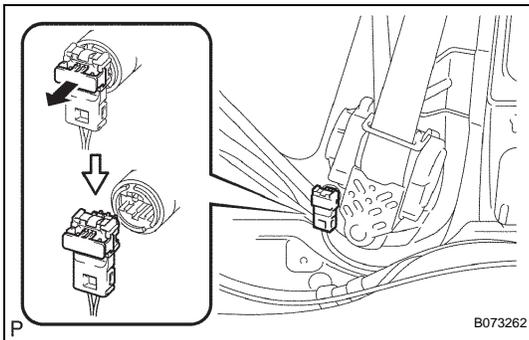
HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- 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 [SS-2](#)).

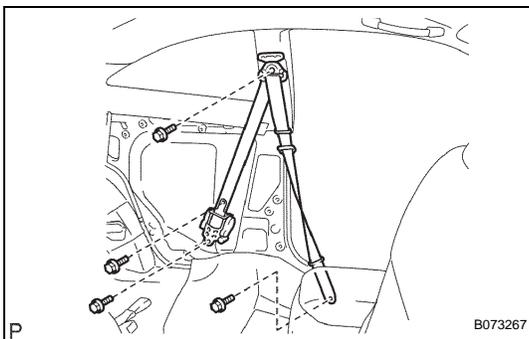
1. REMOVE REAR SEAT CUSHION ASSEMBLY (See page [SE-40](#))
2. REMOVE REAR SEATBACK ASSEMBLY LH (See page [SE-40](#))
3. REMOVE REAR SEATBACK HINGE SUB-ASSEMBLY LH (See page [SE-40](#))
4. REMOVE FRONT DOOR SCUFF PLATE LH (See page [IR-4](#))
5. REMOVE QUARTER TRIM PANLE ASSEMBLY FRONT LH
6. REMOVE FRONT SEAT OUTER BELT ASSEMBLY LH

CAUTION:

- Removal of the seat belt pretensioner must be started at least 90 seconds after the ignition switch is turned OFF and the negative (-) terminal cable is disconnected from the battery.
- Carefully read the notices for the "pretensioner" in the SRS airbag system section and the front seat outer belt section (See page).



- (a) Disconnect the pretensioner connector, as shown in the illustration.



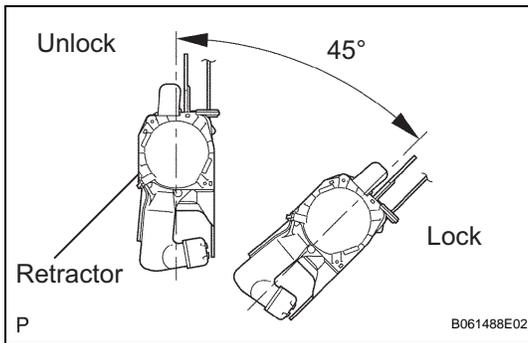
- (b) Remove the seat belt cover.
- (c) Remove the 4 bolts and outer belt.

INSTALLATION

1. INSTALL FRONT SEAT OUTER BELT ASSEMBLY LH

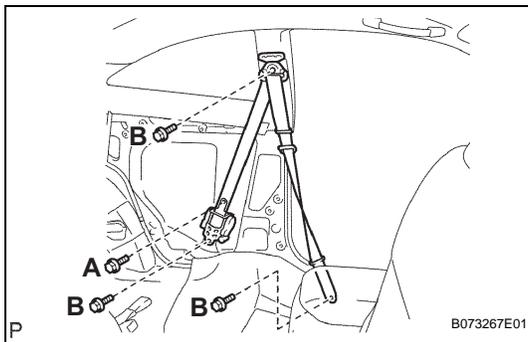
NOTICE:

Do not disassemble the retractor.



- (a) Check the amount of inclination required to lock the retractor.

- (1) When the inclination of the retractor is 15° or less, check that the belt can be pulled from the retractor. When the inclination of the retractor is over 45° check that the belt locks. If operation is not as specified, replace the outer belt assembly.



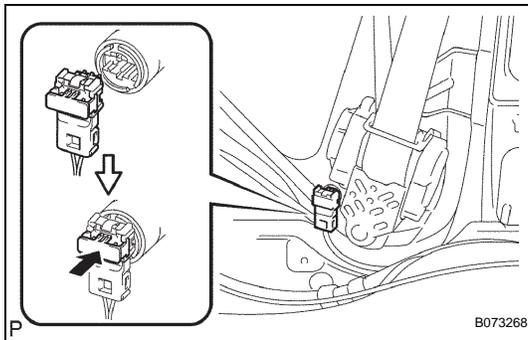
- (b) Install the outer belt with the 4 bolts.

Torque: Bolt labeled A

7.5 N*m (77 kgf*cm, 66 in.*lbf)

Bolt labeled B

42 N*m (430 kgf*cm, 31 ft.*lbf)



- (c) Connect the pretensioner connector, as shown in the illustration.

- (d) Install the floor anchor cover.

- (e) Check if the ELR locks.

NOTICE:

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

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

If operation is not as specified, replace the outer belt assembly.

2. CONNECT BATTERY NEGATIVE TERMINAL

- (a) Connect the battery's negative terminal.

NOTICE:

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

System Name	See Procedure
Power Window Control System	IN-24
Sliding Roof System	IN-24

- (b) Check the SRS warning light (See page [RS-30](#)).

DISPOSAL

HINT:

When scrapping vehicles equipped with a seat belt pretensioner or disposing of a front seat outer belt (with seat belt pretensioner), always first activate the seat belt pretensioner in accordance with the procedures described below. If any abnormality occurs during activation of the seat belt pretensioner, contact the SERVICE DEPARTMENT of TOYOTA MOTOR SALES, USA, INC. When disposing of a front seat outer belt assembly (with seat belt pretensioner) that was activated in a collision, start with step 1-(a) to (f) in this section.

CAUTION:

- **Never dispose of a front seat outer belt assembly that has an inactivated pretensioner.**
- **The seat belt pretensioner produces a loud, exploding sound when it activates. Perform the operation where it will not surprise or disturb people nearby.**
- **When activating a front seat outer belt (with seat belt pretensioner), stand at least 10 m (33 ft) away from the front seat outer belt.**
- **Use gloves and safety glasses when handling a front seat belt with an activated pretensioner.**
- **Always wash your hands with water after completing the disposal.**
- **Do not apply water to a front seat outer belt that has an activated pretensioner**
- **Perform procedures in a place away from electrical interference.**
- **When activating the seat belt pretensioner, always use the specified SST (SRS airbag deployment tool).**

SST 09082-00700

1. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

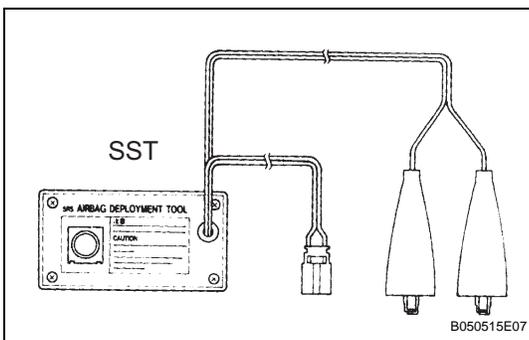
Prepare a battery for power activation of the seat belt pretensioner.

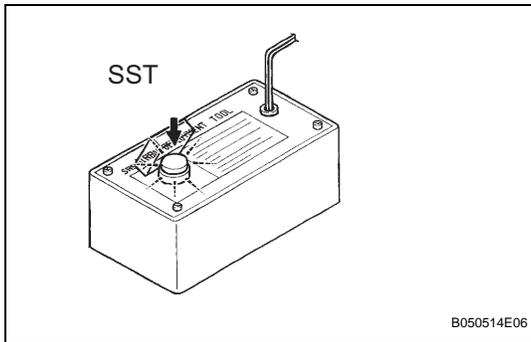
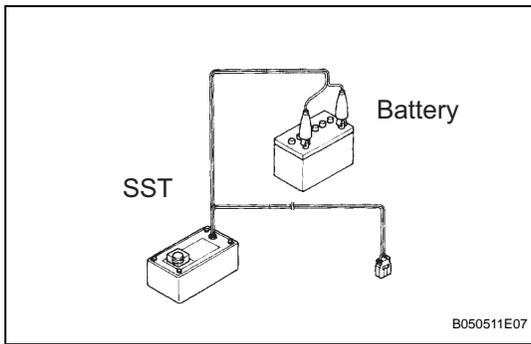
- (a) Check if SST is functioning.

CAUTION:

When activating the seat belt pretensioner, always use the specified SST.

SST 09082-00700, 09082-00770



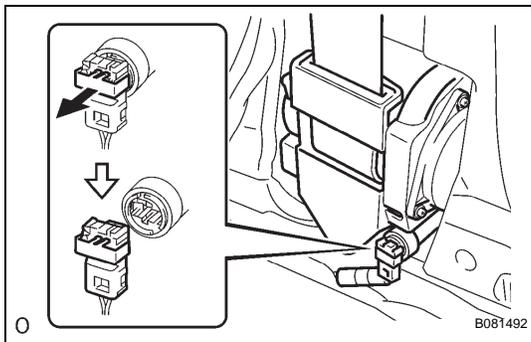


- (1) Connect SST red clip to the battery's positive (+) terminal and the black clip to the battery's negative (-) terminal.
HINT:
Do not connect the yellow connector. The yellow connector is used to connect to the seat belt pretensioner.

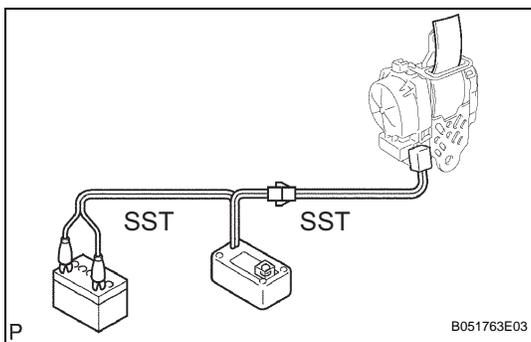
- (2) Press SST activation switch and check that the LED of SST activation switch turns ON.
CAUTION:
If the LED turns ON when the activation switch is not being pressed, SST may be malfunctioning. Replace the SST with a new one.

- (b) Disconnect SST from the battery.
- (c) Disconnect the pretensioner connector.
 - (1) Disconnect the battery negative (-) terminal.
 - (2) Remove the front door scuff plate RH (See page IR-4).
 - (3) Remove the front door opening trim weatherstrip RH (See page IR-4).
 - (4) Remove the center pillar garnish lower RH (See page IR-5).

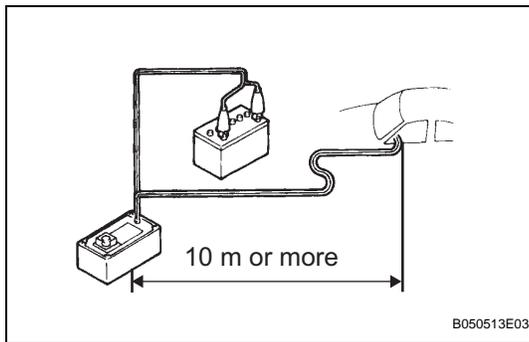
SB



- (5) Disconnect the pretensioner connector as shown in the illustration.
- (d) Connect SST.
 - (1) Install the floor anchor of the seat belt.



- (2) Connect SST, then connect the yellow connector to the seat belt pretensioner.
SST 09082-00700, 09082-00770
NOTICE:
To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.



- (3) Move SST at least 10 m (33 ft) away from the front of the vehicle.
- (4) Close all the doors and windows of the vehicle.
HINT:
Leave a gap in one of the windows for inserting SST wire harness.

NOTICE:

Take care not to damage SST wire harness.

- (5) Connect SST red clip to the battery's positive (+) terminal and the black clip to the negative (-) terminal.
- (e) Activate the seat belt pretensioner.
 - (1) Confirm that no one is inside the vehicle or within 10 m (33 ft) of the vehicle.
 - (2) Press SST activation switch to activate the seat belt pretensioner.
HINT:
The seat belt pretensioner operates at the same time as the SST activation switch's LED light.
- (f) Dispose of the outer belt (with the seat belt pretensioner).

CAUTION:

- **Do not touch the outer belt for at least 30 minutes after the seat belt pretensioner has been activated. It is very hot.**
- **Use gloves and safety glasses when handling an outer belt whose pretensioner that has been activated.**
- **Always wash your hands with water after completing the disposal.**
- **Do not apply water to a front seat outer belt that has an activated pretensioner.**

HINT:

When scrapping a vehicle, activate the seat belt pretensioner, and then scrap the vehicle with the activated outer belt installed.

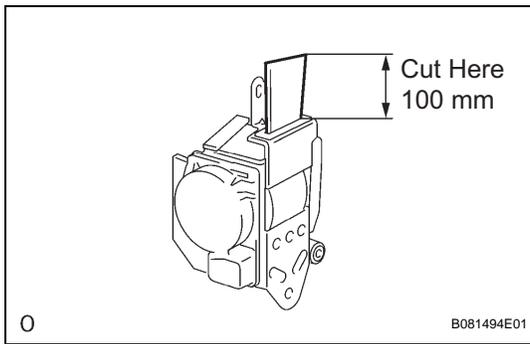
2. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)

HINT:

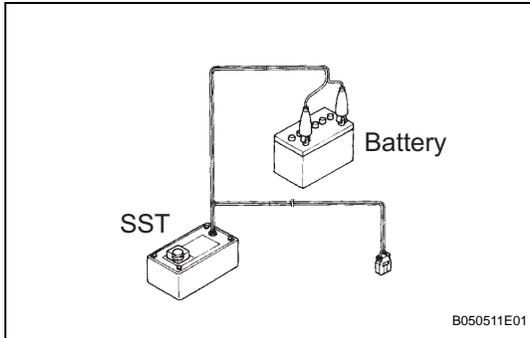
Prepare a battery for power activation of the seat belt pretensioner.

NOTICE:

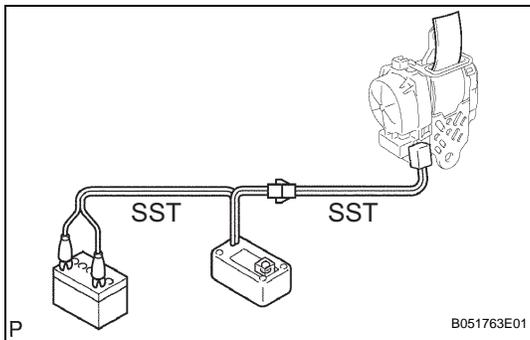
- **When only disposing of the front seat outer belt (with the seat belt pretensioner), never use the customer's vehicle to activate the seat belt pretensioner.**
- **Be sure to follow the procedures listed below when activating the seat belt pretensioner.**



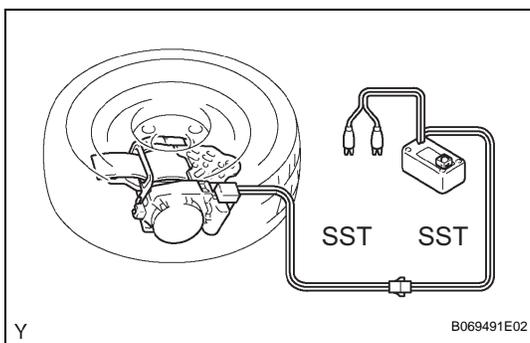
- (a) Remove the outer belt (See page SB-11).
- (1) Wind the seat belt with the retractor.
 - (2) When the seat belt is sufficiently wound, cut the seat belt approximately 100 mm (0.39 in.) from the retractor, as shown in the illustration
- HINT:**
The seat belt is designed so that winding the seat belt as much as possible before pretensioner activation will decrease the pulling power of the seat belt during pretensioner activation.



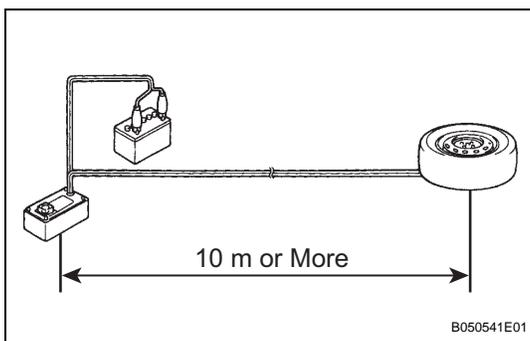
- (b) Check if SST is functioning (see step 1-(a)).
- CAUTION:**
When activating seat belt pretensioner, always use the specified SST.
SST 09082-00700, 09082-00770



- (c) Connect SST.
- (1) Connect SST, then connect the yellow connector to the seat belt pretensioner.
- NOTICE:**
To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.



- (2) Place the outer belt on the ground and cover it with a tire with a wheel attached.
- NOTICE:**
Set up the front seat outer belt assembly as shown in the illustration.



- (3) Move SST at least 10 m (33 ft) away from the wheel.
- NOTICE:**
Take care not to damage the SST wire harness.
- (d) Activate the seat belt pretensioner.
- (1) Connect SST red clip to the battery's positive (+) terminal and the black clip to the battery's negative (-) terminal.

- (2) Check that no one is within 10 m (33 ft) of the wheel.
- (3) Press SST activation switch to activate the seat belt pretensioner.

HINT:

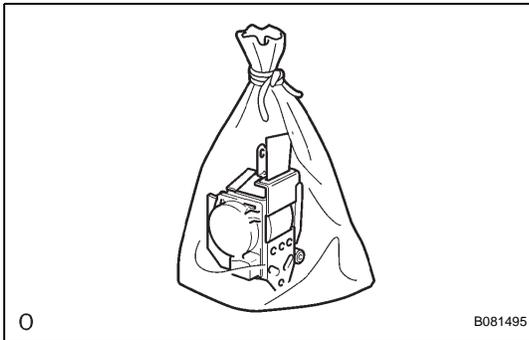
The seat belt pretensioner operates at the same time as the SST activation switch's LED light.

- (e) Dispose of the outer belt (with the seat belt pretensioner).

CAUTION:

- **Do not touch the outer belt for at least 30 minutes after the seat belt pretensioner has been activated. It is very hot.**
- **Use gloves and safety glasses when handling an outer belt assembly whose pretensioner that has been activated.**
- **Always wash your hands with water after completing disposal.**
- **Do not apply water to an outer belt assembly that has an activated pretensioner.**

- (1) Remove the tire with wheel and SST.
- (2) Place the outer belt in a plastic bag, tie the end tightly and dispose of it in the same way as other general parts.



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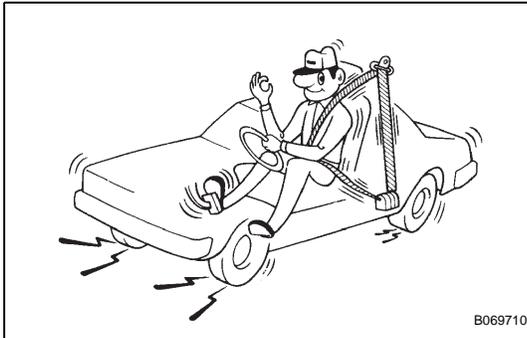
FRONT SEAT OUTER BELT ASSEMBLY (for Coupe)

PRECAUTION

CAUTION:

Replace the faulty parts of the seat belt systems (outer belt, inner belt, bolts, nuts, adjustable shoulder anchor, tether anchor hardware, sill-bar, etc.).

Seat belt systems not in use at the time of a collision should also be inspected and replaced if found to be damaged or working improperly.



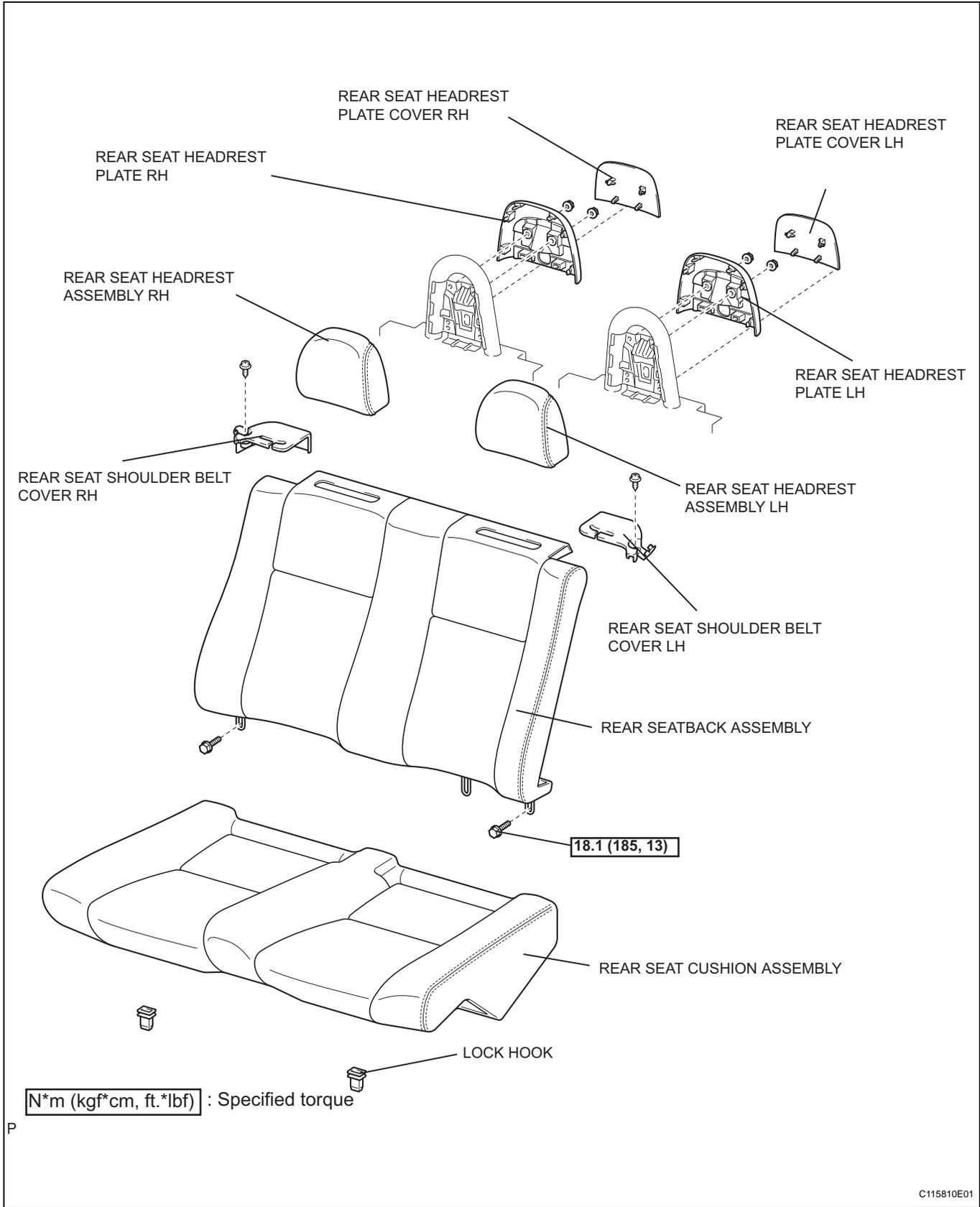
1. RUNNING TEST (IN SAFE AREA)

- (a) Fasten the front seat belts.
- (b) Drive the vehicle at 16 km/h (10 mph) and slam on the brakes. Check that the belt locks and cannot be extended at this time.

HINT:

Conduct this test in a safe area. If the belt does not lock, remove the belt assembly and perform the inspections. Also whenever installing a new belt assembly, verify the proper operation before installation.

COMPONENTS



REMOVAL

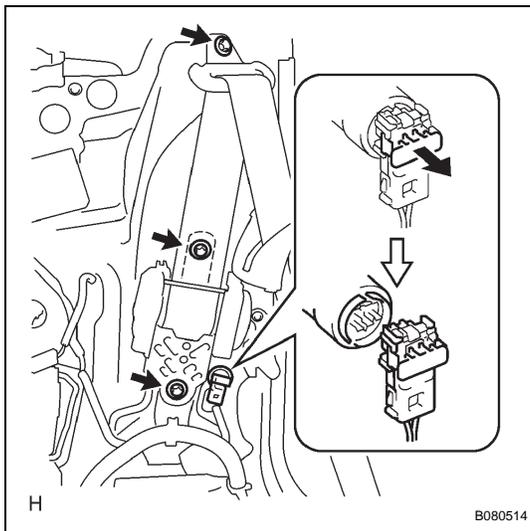
HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.
- A bolt without a torque specification is shown in the standard bolt chart (See page [SS-2](#)).

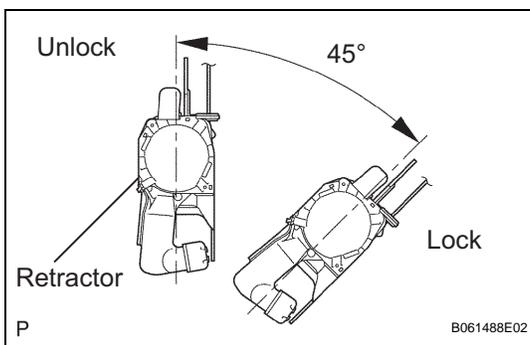
1. REMOVE REAR SEAT CUSHION ASSEMBLY (See page [SE-46](#))
2. REMOVE REAR SEAT HEADREST PLATE COVER RH (See page [SE-46](#))
3. REMOVE REAR SEAT HEADREST PLATE COVER LH (See page [SE-46](#))
4. REMOVE REAR SEAT HEADREST PLATE RH (See page [SE-47](#))
5. REMOVE REAR SEAT HEADREST PLATE LH (See page [SE-47](#))
6. REMOVE REAR SEAT HEADREST ASSEMBLY RH
7. REMOVE REAR SEAT HEADREST ASSEMBLY LH
8. REMOVE REAR SEAT SHOULDER BELT COVER LH (See page [SE-47](#))
9. REMOVE REAR SEAT SHOULDER BELT COVER RH (See page [SE-47](#))
10. REMOVE REAR SEATBACK ASSEMBLY (See page [SE-47](#))
11. REMOVE FRONT DOOR SCUFF PLATE LH (See page [IR-9](#))
12. REMOVE CUP HOLDER NO.1
13. REMOVE QUARTER TRIM PANEL SUB-ASSEMBLY UPPER LH (See page [IR-10](#))
14. REMOVE QUARTER TRIM PANEL LOWER LH (See page [IR-10](#))
15. REMOVE FRONT SEAT OUTER BELT ASSEMBLY LH

NOTICE:

- Removal of the seat belt pretensioner must be started at least 90 seconds after the ignition switch is turned OFF and the negative (-) terminal cable is disconnected from the battery.
- Carefully read the notices for the "pretensioner" in the SRS airbag system section and the front seat outer belt section (See page).



- (a) Disconnect the pretensioner connector as shown in the illustration.
- (b) Remove the 3 bolts and outer belt.



INSTALLATION

1. INSTALL FRONT SEAT OUTER BELT ASSEMBLY LH

NOTICE:

Do not disassemble the retractor.

- (a) Check the amount of inclination required to lock the retractor.
 - (1) When the inclination of the retractor is 15° or less, check that the belt can be pulled from the retractor. When the inclination of the retractor is over 45°, check that the belt locks. If operation is not as specified, replace the outer belt assembly.
- (b) Install the outer belt with the 3 bolts.

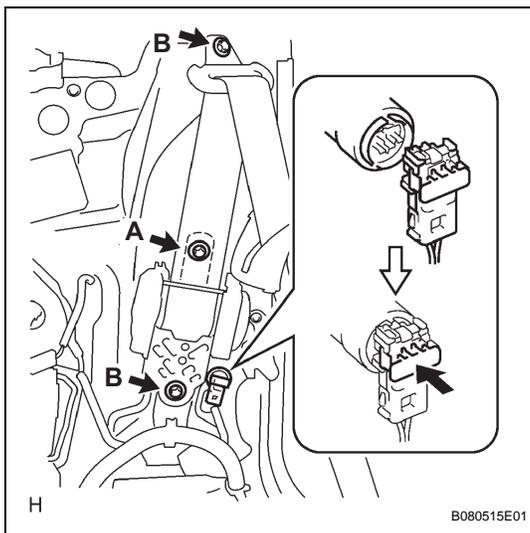
Torque: 7.5 N*m (77 kgf*cm, 66 in.*lbf) for bolt A
42 N*m (430 kgf*cm, 31 in.*lbf) for bolt B

Torque: Bolt labeled A
7.5 N*m (77 kgf*cm, 66 in.*lbf)
Bolt labeled B
42 N*m (430 kgf*cm, 31 in.*lbf)
- (c) Connect the pretensioner connector, as shown in the illustration.
- (d) Install the floor anchor with the bolt.

Torque: 42 N*m (430 kgf*cm, 31 in.*lbf)
- (e) Check if the ELR locks.

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

 - (1) With the belt installed, check that the belt locks when it is pulled out quickly. If operation is not as specified, replace the outer belt assembly.



2. CONNECT BATTERY NEGATIVE TERMINAL

- (a) Connect the battery's negative terminal.

NOTICE:

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

System Name	See Procedure
Power Window Control System	IN-24

- (b) Check the SRS warning light (See page [RS-30](#)).

DISPOSAL

HINT:

When scrapping vehicles equipped with a seat belt pretensioner or disposing of a front seat outer belt (with seat belt pretensioner), always first activate the seat belt pretensioner in accordance with the procedures described below. If any abnormality occurs during activation of the seat belt pretensioner, contact the SERVICE DEPARTMENT of TOYOTA MOTOR SALES, U.S.A., INC. When disposing of a front seat outer belt assembly (with seat belt pretensioner) that was activated in a collision, start with step 1-(a) to (f) in this section.

CAUTION:

- **Never dispose of a front seat outer belt assembly that has an inactivated pretensioner.**
- **The seat belt pretensioner produces a loud, exploding sound when it activates. Perform the operation where it will not surprise or disturb people nearby.**
- **When activating a front seat outer belt (with seat belt pretensioner), stand at least 10 m (33 ft) away from the front seat outer belt.**
- **Use gloves and safety glasses when handling a front seat belt with an activated pretensioner.**
- **Always wash your hands with water after completing the disposal.**
- **Do not apply water to a front seat outer belt that has an activated pretensioner**
- **Perform procedures in a place away from electrical interference.**
- **When activating the seat belt pretensioner, always use the specified SST (SRS airbag deployment tool).**

SST 09082-00700

1. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

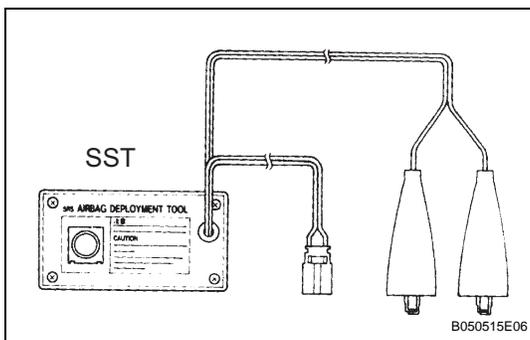
Prepare a battery to power activation of the seat belt pretensioner.

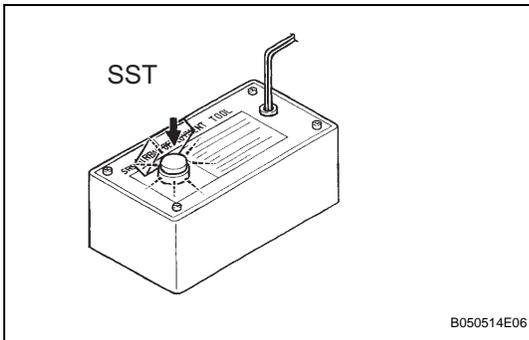
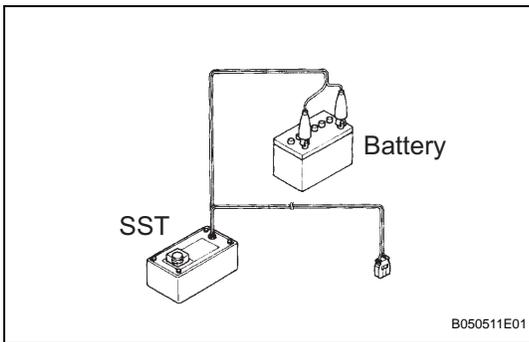
- (a) Check if SST is functioning.

CAUTION:

When activating the seat belt pretensioner, always use the specified SST.

SST 09082-00700, 09082-00770





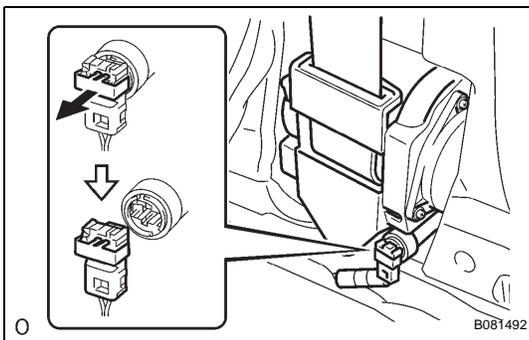
- (1) Connect SST red clip to the battery's positive (+) terminal and the black clip to the battery's negative (-) terminal.
HINT:
Do not connect the yellow connector. The yellow connector is used to connect to the seat belt pretensioner.

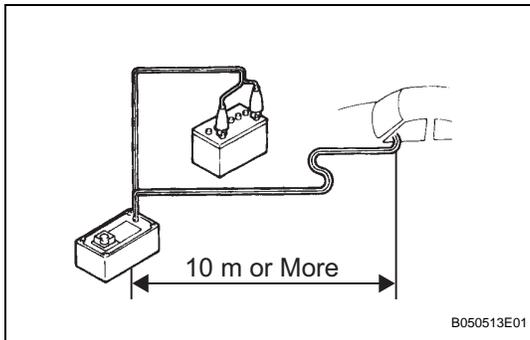
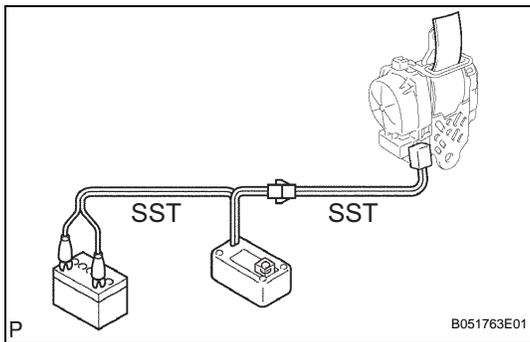
- (2) Press SST activation switch and check that the LED of SST activation switch turns ON.

CAUTION:

If the LED turns ON when the activation switch is not being pressed, SST may be malfunctioning. Replace the SST with a new one.

- (b) Disconnect SST from the battery.
- (c) Disconnect the pretensioner connector.
 - (1) Disconnect the battery's negative (-) terminal.
 - (2) Remove the rear seat cushion (See page [SE-46](#)).
 - (3) Remove the rear seat headrest plate cover RH (See page [SE-46](#)).
 - (4) Remove the rear seat headrest plate cover LH (See page [SE-46](#)).
 - (5) Remove the rear seat headrest plate RH (See page [SE-47](#)).
 - (6) Remove the rear seat headrest plate LH (See page [SE-47](#)).
 - (7) Remove the rear seat headrest RH.
 - (8) Remove the rear seat headrest LH.
 - (9) Remove the rear seatback (See page [SE-47](#)).
 - (10) Remove the front door scuff plate LH (See page [IR-9](#)).
 - (11) Remove the cup holder No. 1.
 - (12) Remove the quarter trim panel sub-assembly upper LH (See page [IR-10](#)).
 - (13) Remove the quarter trim panel lower LH (See page [IR-10](#)).
 - (14) Disconnect the pretensioner connector as shown in the illustration.
- (d) Connect SST.
 - (1) Install the floor anchor of the seat belt.





- (2) Connect SST, then connect the yellow connector to the seat belt pretensioner.

SST 09082-00700, 09082-00770

NOTICE:

To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.

- (3) Move SST at least 10 m (33 ft) away from the front of the vehicle.
 (4) Close all the doors and windows of the vehicle.

NOTICE:

Take care not to damage SST wire harness.

HINT:

Leave a gap in one of the windows for inserting SST wire harness.

- (5) Connect SST red clip to the battery's positive (+) terminal and the black clip to the negative (-) terminal.

- (e) Activate the seat belt pretensioner.

- (1) Confirm that no one is inside the vehicle or within 10 m (33 ft) of the vehicle.

- (2) Press SST activation switch to activate the seat belt pretensioner.

HINT:

The seat belt pretensioner operates at the same time as the SST activation switch's LED light.

- (f) Dispose of the outer belt (with the seat belt pretensioner).

CAUTION:

- **Do not touch the outer belt for at least 30 minutes after the seat belt pretensioner has been activated. It is very hot.**
- **Use gloves and safety glasses when handling an outer belt whose pretensioner that has been activated.**
- **Always wash your hands with water after completing the disposal.**
- **Do not apply water to a front seat outer belt that has an activated pretensioner.**

HINT:

When scrapping a vehicle, activate the seat belt pretensioner, and then scrap the vehicle with the activated outer belt installed.

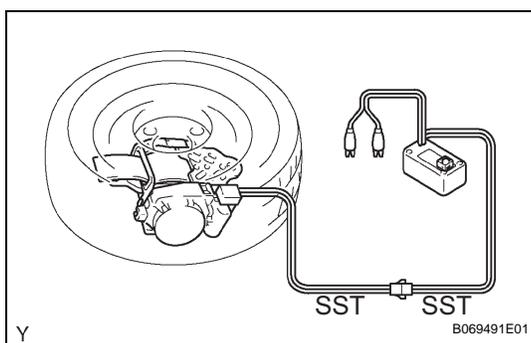
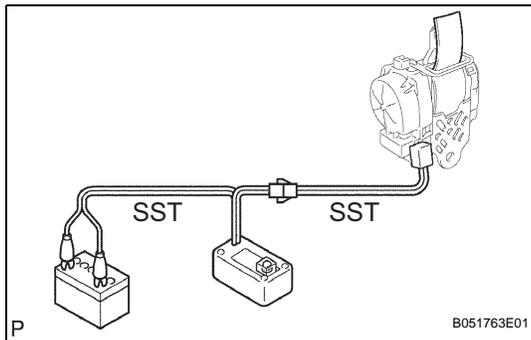
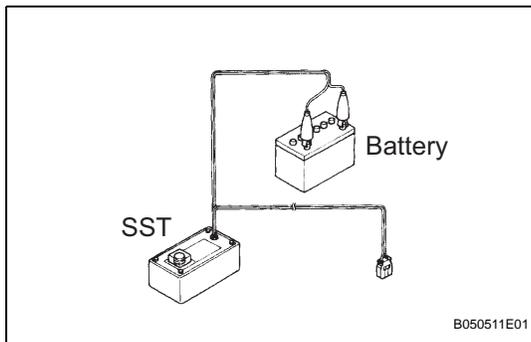
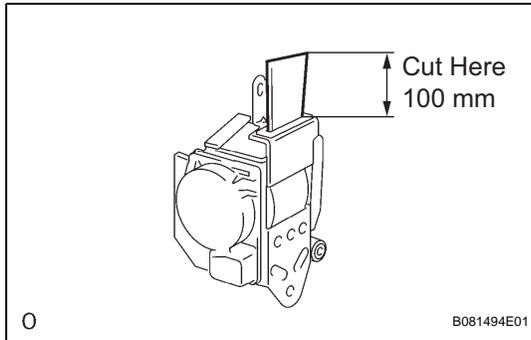
2. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)

HINT:

Prepare a battery as the power source to activate the seat belt pretensioner.

NOTICE:

- When only disposing of the front seat outer belt (with the seat belt pretensioner), never use the customer's vehicle to activate the seat belt pretensioner.
- Be sure to follow the procedures listed below when activating the seat belt pretensioner.



- (a) Remove the outer belt (See page SB-21).

- (1) Wind the seat belt with the retractor.
- (2) When the seat belt is sufficiently wound, cut the seat belt approximately 100 mm (0.39 in) from the retractor, as shown in the illustration

HINT:

The seat belt is designed so that winding the seat belt as much as possible before pretensioner activation will decrease the pulling power of the seat belt during pretensioner activation.

- (b) Check if SST is functioning (see step 1-(a)).

SST 09082-00700, 09082-00770

CAUTION:

When activating a seat belt pretensioner, always use the specified SST.

- (c) Connect SST.

- (1) Connect SST, then connect the yellow connector to the seat belt pretensioner.

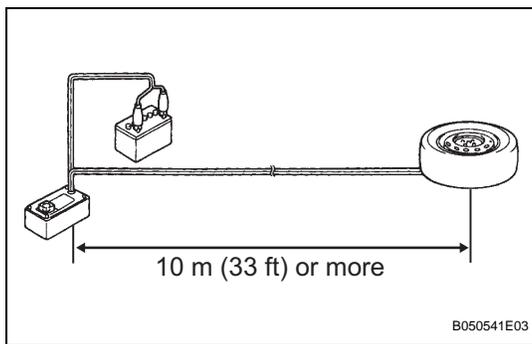
NOTICE:

To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.

- (2) Place the outer belt on the ground and cover it with a tire with a wheel attached.

NOTICE:

Set up the front seat outer belt assembly as shown in the illustration.



- (3) Move SST at least 10 m (33 ft) away from the wheel.

NOTICE:

Take care not to damage the SST wire harness.

- (d) Activate the seat belt pretensioner.
- (1) Connect SST red clip to the battery's positive (+) terminal and the black clip to the battery's negative (-) terminal.
 - (2) Check that no one is within 10 m (33 ft) of the wheel.
 - (3) Press SST activation switch to activate the seat belt pretensioner.

HINT:

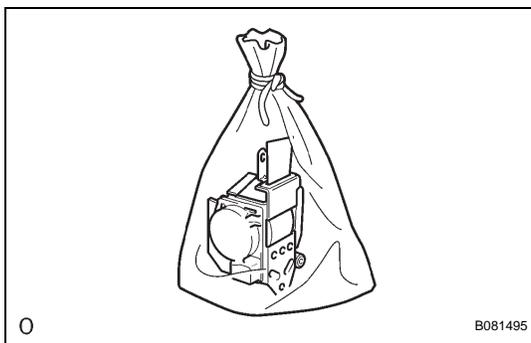
The seat belt pretensioner operates at the same time as the SST activation switch's LED light.

- (e) Dispose of the outer belt (with the seat belt pretensioner).

CAUTION:

- **Do not touch the outer belt for at least 30 minutes after the seat belt pretensioner has been activated. It is very hot.**
- **Use gloves and safety glasses when handling an outer belt assembly whose pretensioner that has been activated.**
- **Always wash your hands with water after completing disposal.**
- **Do not apply water to an outer belt assembly that has an activated pretensioner.**

- (1) Remove the tire with wheel and SST.
- (2) Place the outer belt in a plastic bag, tie the end tightly and dispose of it in the same way as other general parts.

SB

FRONT SEAT OUTER BELT ASSEMBLY (for Convertible)

PRECAUTION

CAUTION:

Replace the faulty parts of the seat belt systems (outer belt, inner belt, bolts, nuts, adjustable shoulder anchor, tether anchor hardware, sill-bar, etc.).

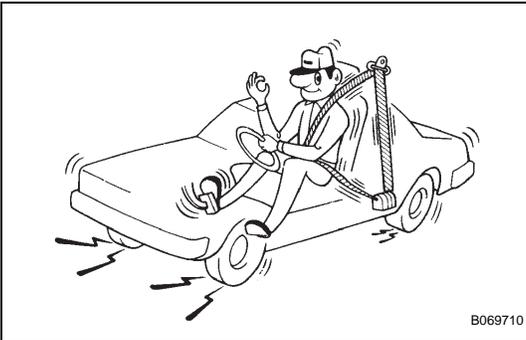
Seat belt systems not in use at the time of a collision should also be inspected and replaced if found to be damaged or working improperly.

1. RUNNING TEST (IN SAFE AREA)

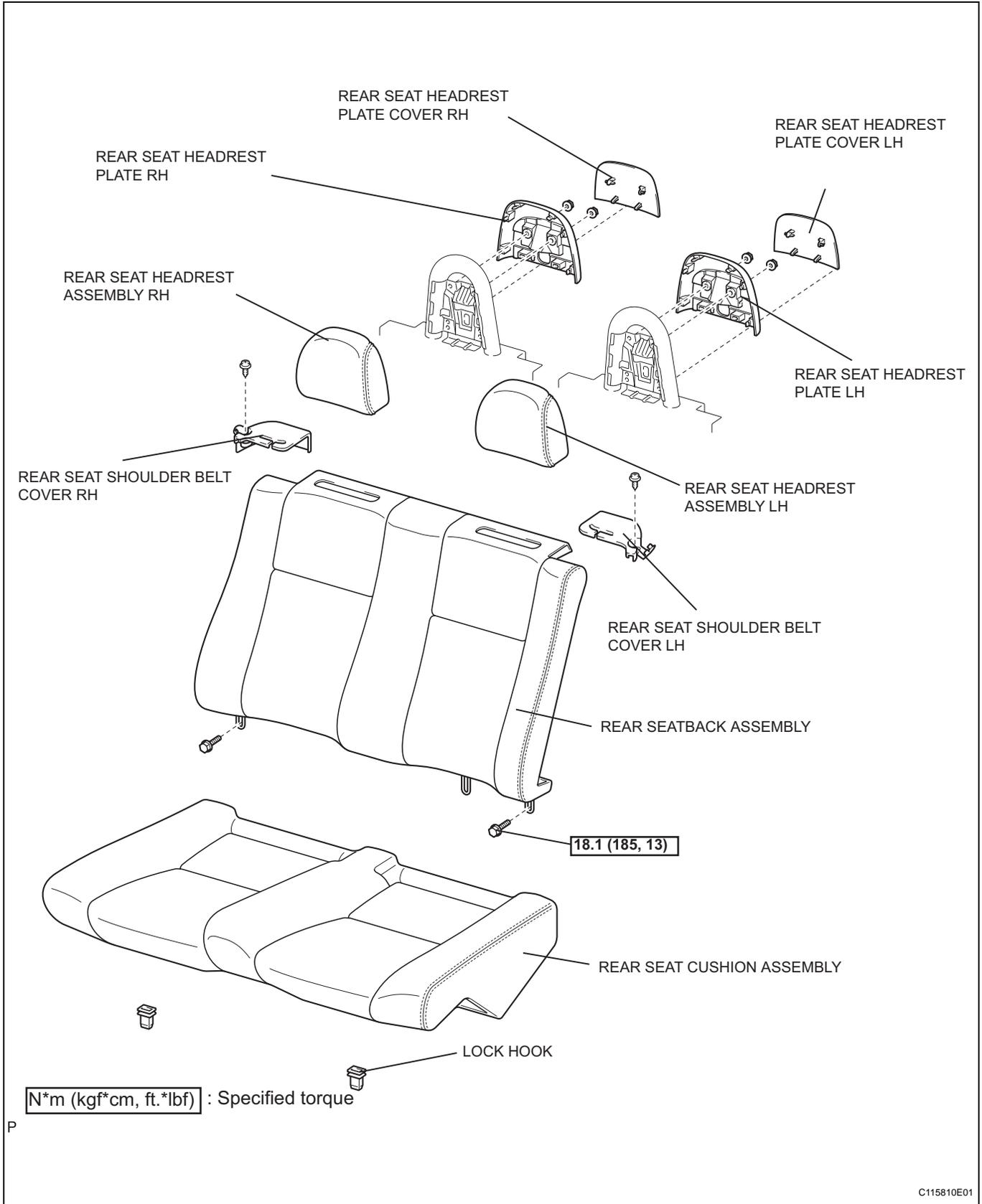
- (a) Fasten the front seat belts.
- (b) Drive the vehicle at 16 km/h (10 mph) and slam on the brakes. Check that the belt locks and cannot be extended at this time.

HINT:

Conduct this test in a safe area. If the belt does not lock, remove the belt assembly and perform the inspections. Also whenever installing a new belt assembly, verify the proper operation before installation.



COMPONENTS



SB

QUARTER TRIM PANEL
SUB-ASSEMBLY UPPER LH

CUP HOLDER
COVER LH

7.5 (77, 66 in.*lbf)

42 (428, 31)

FRONT SEAT OUTER
BELT ASSEMBLY LH

42 (428, 31)

42 (428, 31)

CUP HOLDER NO.1

SEAT BELT ANCHOR
COVER CAP

QUARTER TRIM PANEL LOWER LH

FRONT DOOR SCUFF PLATE LH

SB

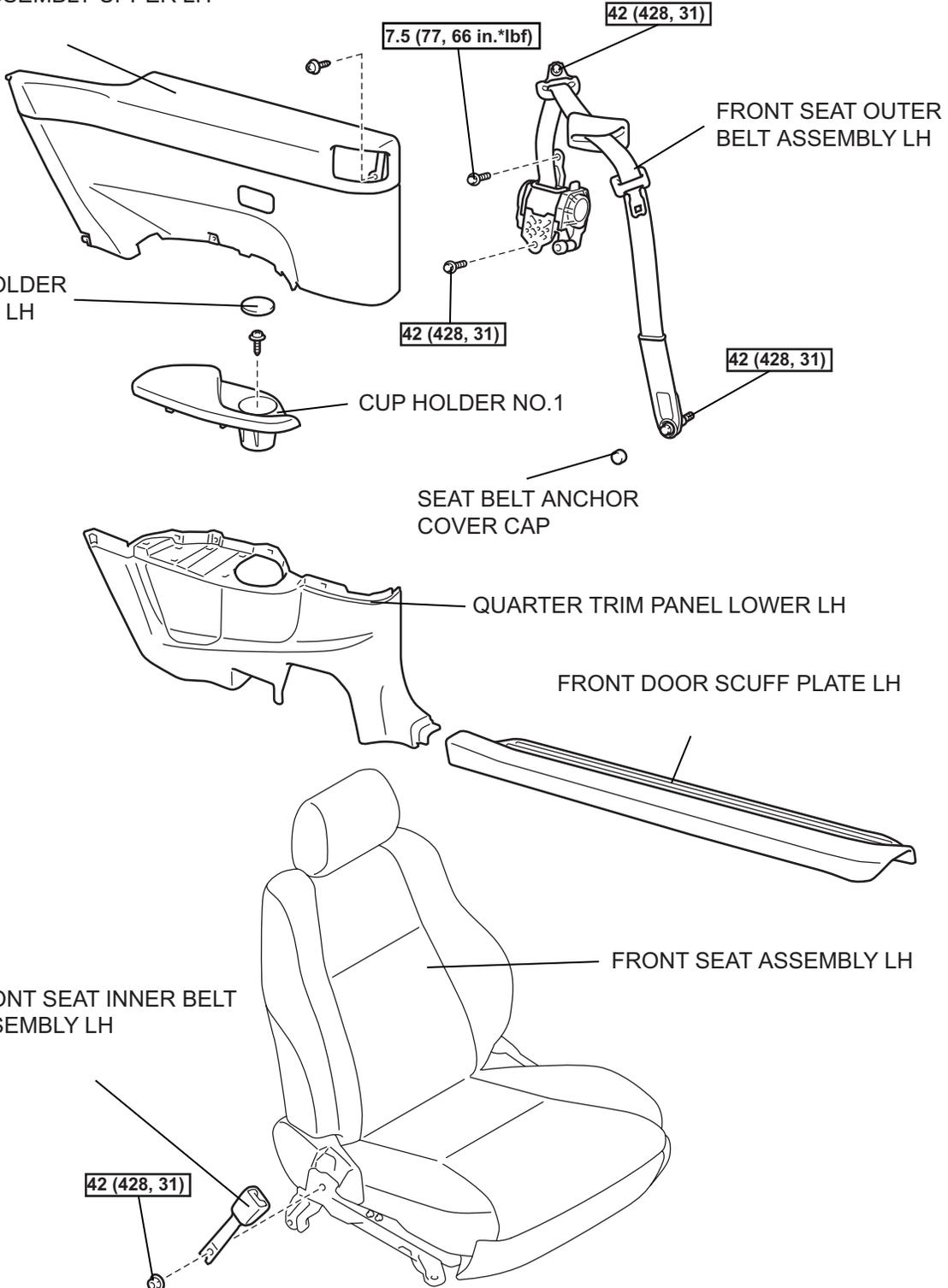
FRONT SEAT INNER BELT
ASSEMBLY LH

FRONT SEAT ASSEMBLY LH

42 (428, 31)

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

H

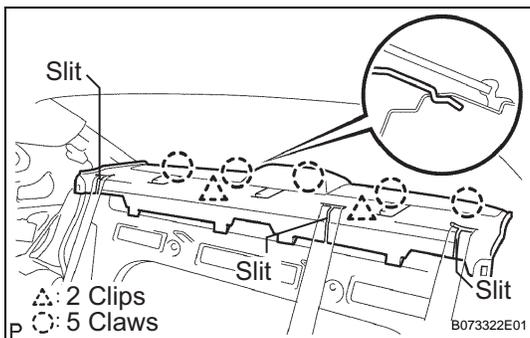


REMOVAL

HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- A bolt without a torque specification is shown in the standard bolt chart (See page [SS-2](#)).
- CRS stands for child restraint seat.

1. REMOVE REAR SEAT CUSHION ASSEMBLY (See page [SE-40](#))
2. REMOVE REAR SEATBACK ASSEMBLY LH (See page [SE-40](#))
3. REMOVE REAR SEATBACK ASSEMBLY RH (See page [SE-40](#))
4. REMOVE REAR SEATBACK HINGE SUB-ASSEMBLY LH (See page [SE-40](#))
5. REMOVE REAR SEATBACK HINGE SUB-ASSEMBLY RH (See page [SE-40](#))
6. REMOVE FRONT DOOR SCUFF PLATE LH (See page [IR-4](#))
7. REMOVE FRONT DOOR SCUFF PLATE RH (See page [IR-4](#))
8. REMOVE QUARTER TRIM PANEL ASSEMBLY FRONT LH
9. REMOVE QUARTER TRIM PANEL ASSEMBLY FRONT RH
10. REMOVE CENTER PILLAR GARNISH LH (See page [IR-5](#))
11. REMOVE CENTER PILLAR GARNISH RH (See page [IR-5](#))
12. REMOVE ROOF SIDE GARNISH ASSEMBLY INNER LH (See page [IR-5](#))
13. REMOVE ROOF SIDE GARNISH ASSEMBLY INNER RH (See page [IR-5](#))
14. REMOVE QUARTER TRIM PANEL UPPER LH
15. REMOVE QUARTER TRIM PANEL UPPER RH
16. REMOVE PACKAGE TRAY TRIM PANEL ASSEMBLY
 - (a) Disengage the 2 clips, 5 claws and package tray trim, as shown in the illustration.
17. REMOVE CRS ANCHOR BRACKET LH
 - (a) Remove the 2 nuts and anchor bracket.
18. REMOVE CRS ANCHOR BRACKET RH
 - (a) Remove the 2 nuts and anchor bracket.

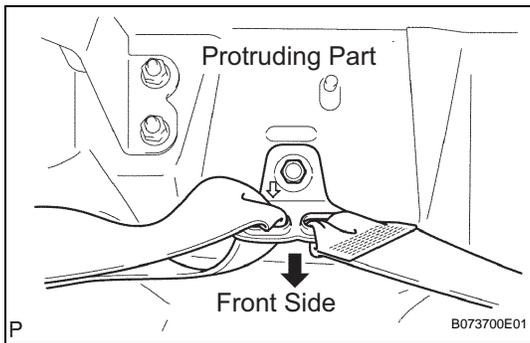


- 19. REMOVE REAR SEAT INNER W/CENTER BELT ASSEMBLY LH**
 - (a) Remove the 2 bolts and inner belt.
- 20. REMOVE REAR SEAT INNER W/CENTER BELT ASSEMBLY RH**
 - (a) Remove the nut and inner belt.
- 21. REMOVE CRS TETHER ANCHOR BRACKET**
 - (a) Remove the 3 bolts and 3 anchor brackets.

INSTALLATION

1. INSTALL CRS TETHER ANCHOR BRACKET

- (a) Install the 3 anchor brackets with the 3 bolts.
Torque: 42 N*m (430 kgf*cm, 31 in.*lbf)



2. INSTALL REAR SEAT INNER W/CENTER BELT ASSEMBLY RH

- (a) Install the inner belt with the nut, as shown in the illustration.

Torque: 42 N*m (430 kgf*cm, 31 in.*lbf)

NOTICE:

Do not make the anchor part run onto the protruding part of the floor panel.

3. INSTALL REAR SEAT INNER W/CENTER BELT ASSEMBLY LH

NOTICE:

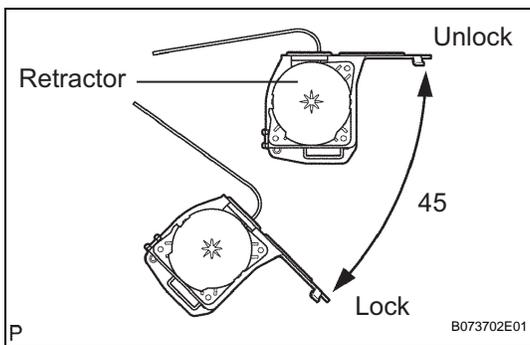
Do not disassemble the retractor.

- (a) Check the degree of tilt when the belt begins to lock the ELR.

- (b) Check the amount of inclination required to lock the retractor.

- (1) When the inclination of the retractor is 15° or less, check that the belt can be pulled from the retractor. When the inclination of the retractor is over 45°, check that the belt locks.

If operation is not as specified, replace the belt assembly.



- (c) Install the inner belt with the 2 bolts.

Torque: 42 N*m (430 kgf*cm, 31 in.*lbf)

NOTICE:

Do not make the anchor part run onto the protruding part of the floor panel.

- (d) Check the ELR lock.

NOTICE:

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

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

If operation is not as specified, replace the belt assembly.

- (e) Check the fastening function of the child restraint system.

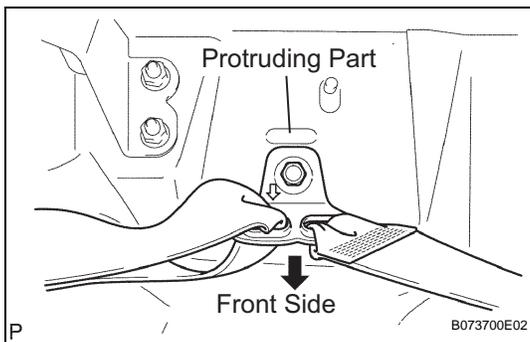
NOTICE:

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

- (1) When the belt is pulled out fully, the belt should automatically try to retract.

- (2) After the belt has fully retracted, the belt should be able to be pulled out and retracted again.

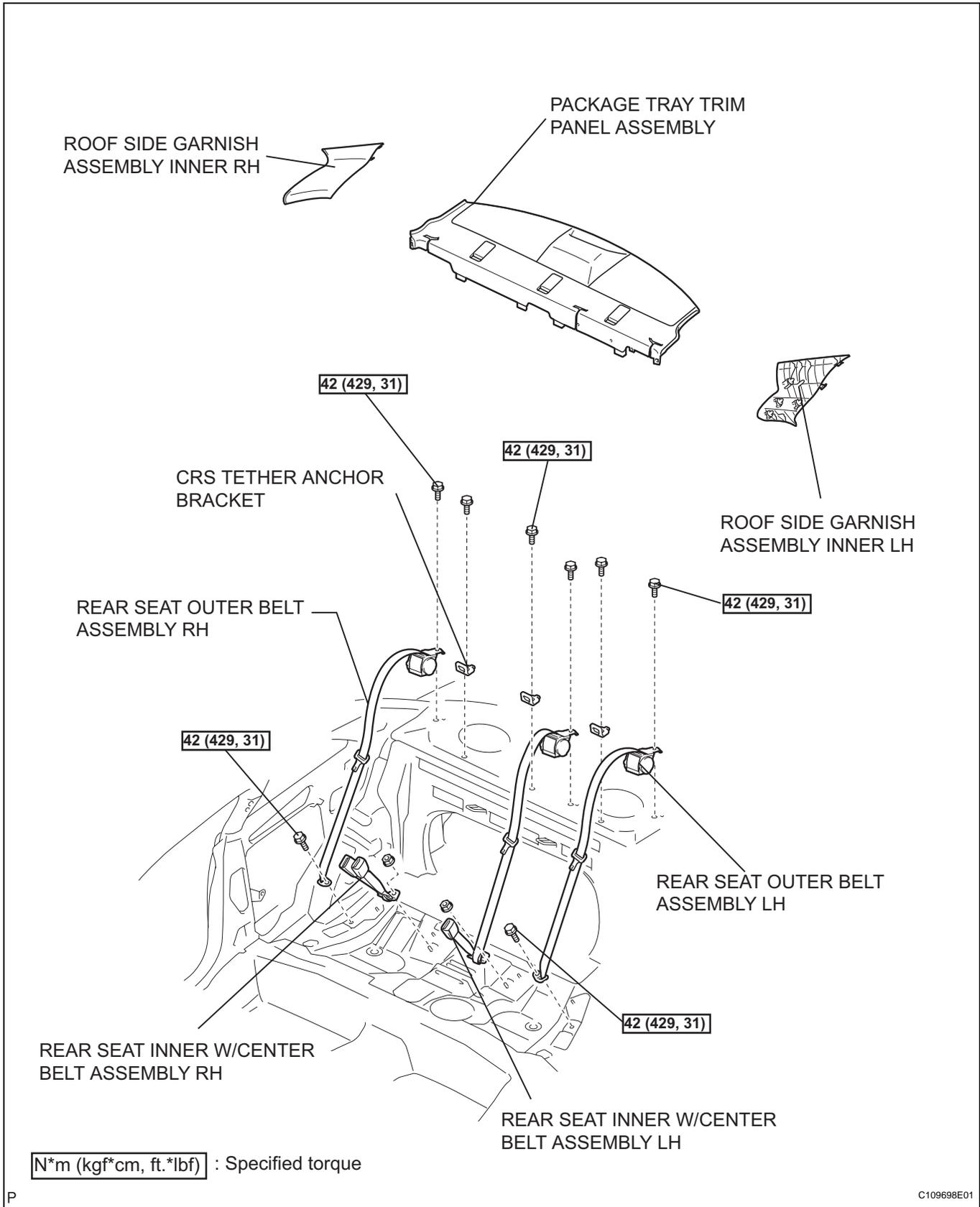
If operation is not as specified, replace the belt assembly.



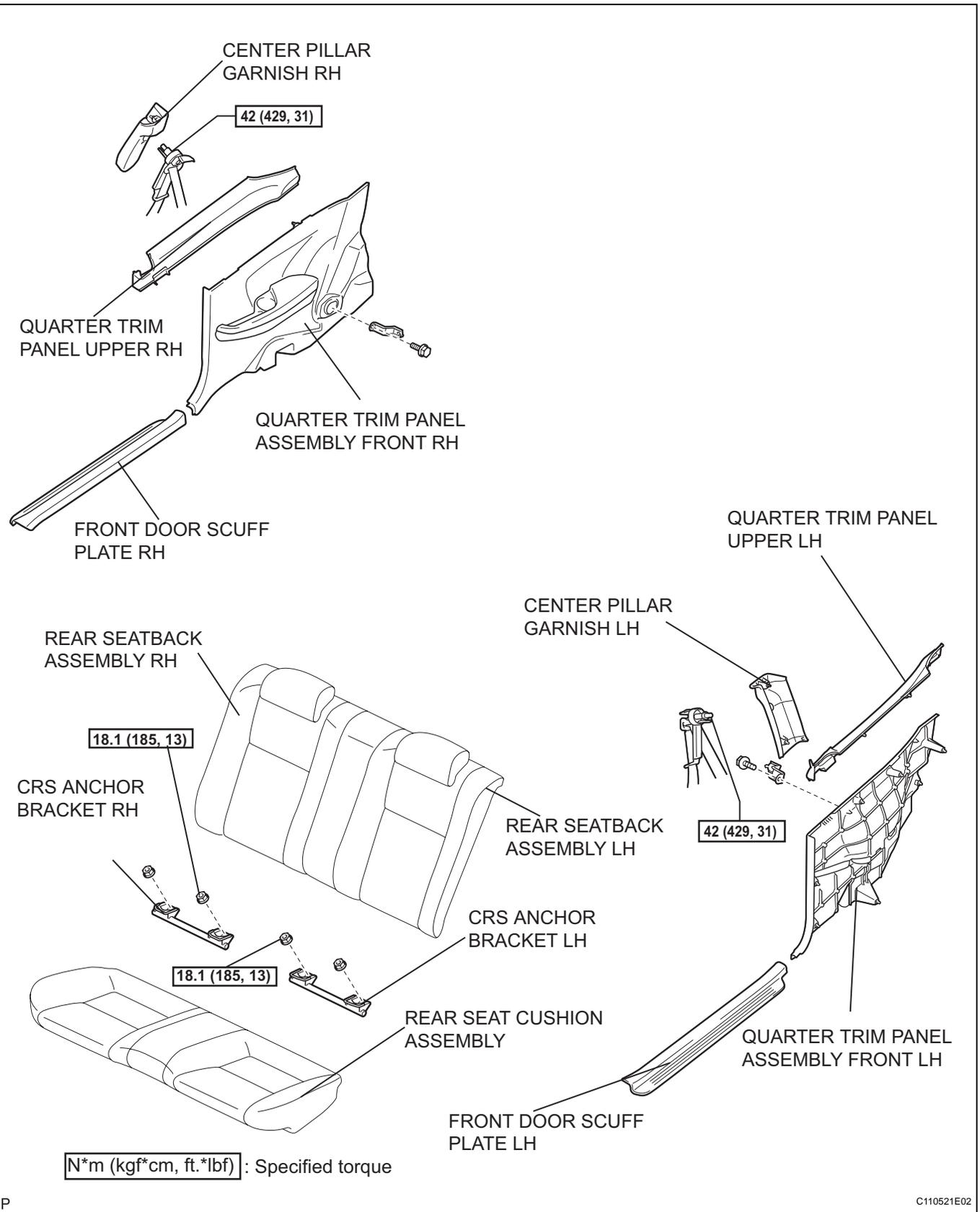
4. **INSTALL CRS ANCHOR BRACKET RH**
 - (a) Install the anchor bracket with the 2 nuts.
Torque: 18.1 N*m (185 kgf*cm, 13 in.*lbf)
5. **INSTALL CRS ANCHOR BRACKET LH**
 - (a) Install the anchor bracket with the 2 nuts.
Torque: 18.1 N*m (185 kgf*cm, 13 in.*lbf)

REAR SEAT INNER BELT ASSEMBLY (for Coupe)

COMPONENTS

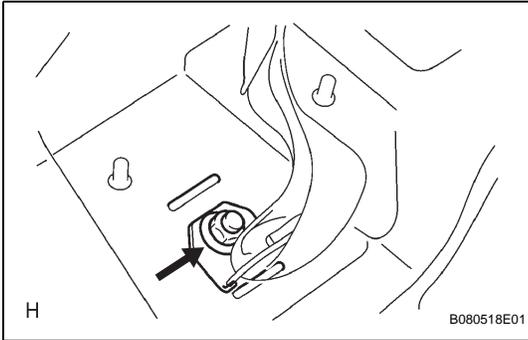


SB



REMOVAL

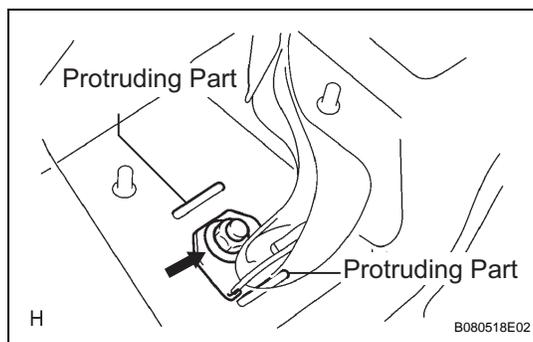
1. REMOVE REAR SEAT CUSHION ASSEMBLY
2. REMOVE REAR SEAT INNER BELT ASSEMBLY LH
 - (a) Remove the nut and belt.



INSTALLATION

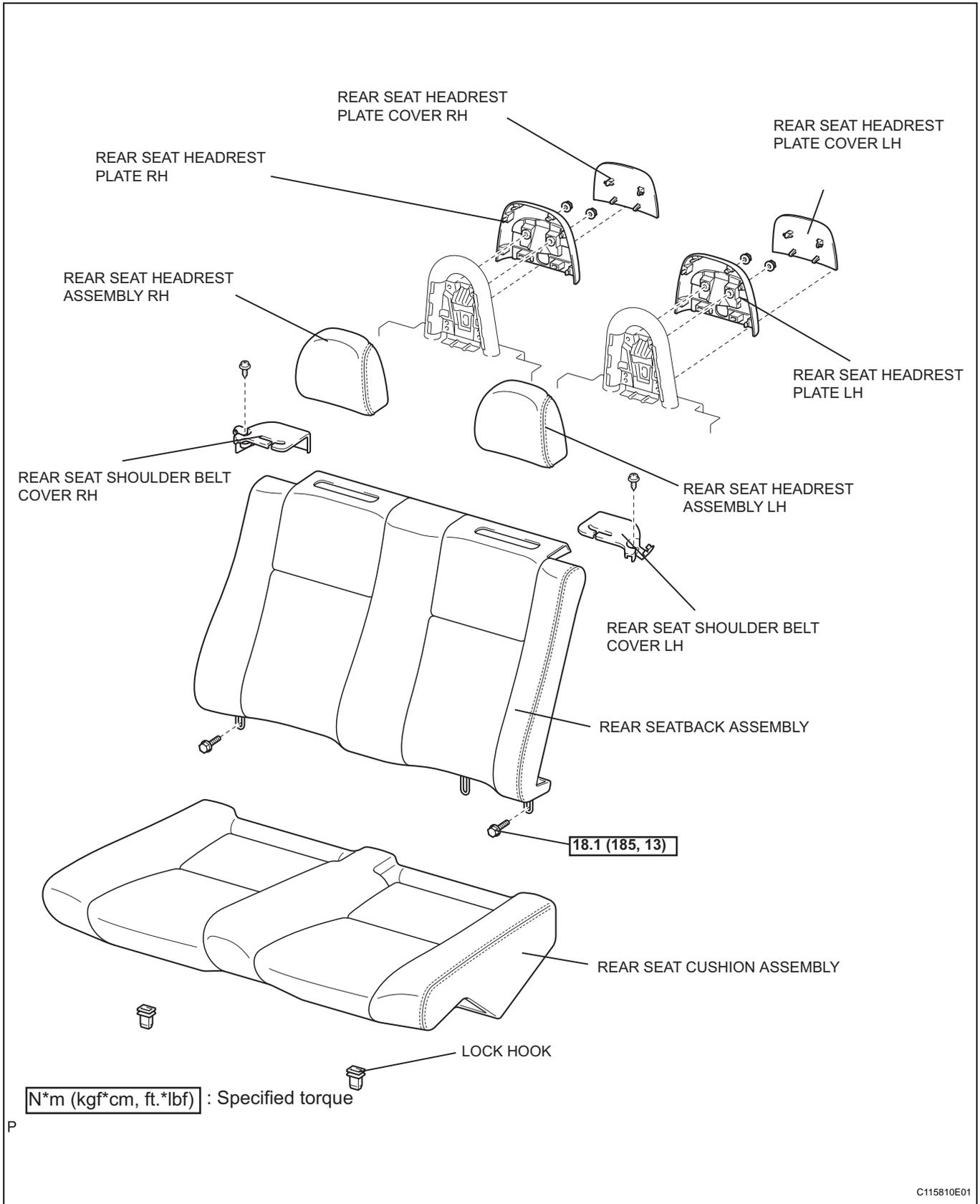
1. **INSTALL REAR SEAT INNER BELT ASSEMBLY LH**
2. **INSTALL REAR SEAT CUSHION ASSEMBLY**
 - (a) Install the belt with the nut, as shown in the illustration.

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

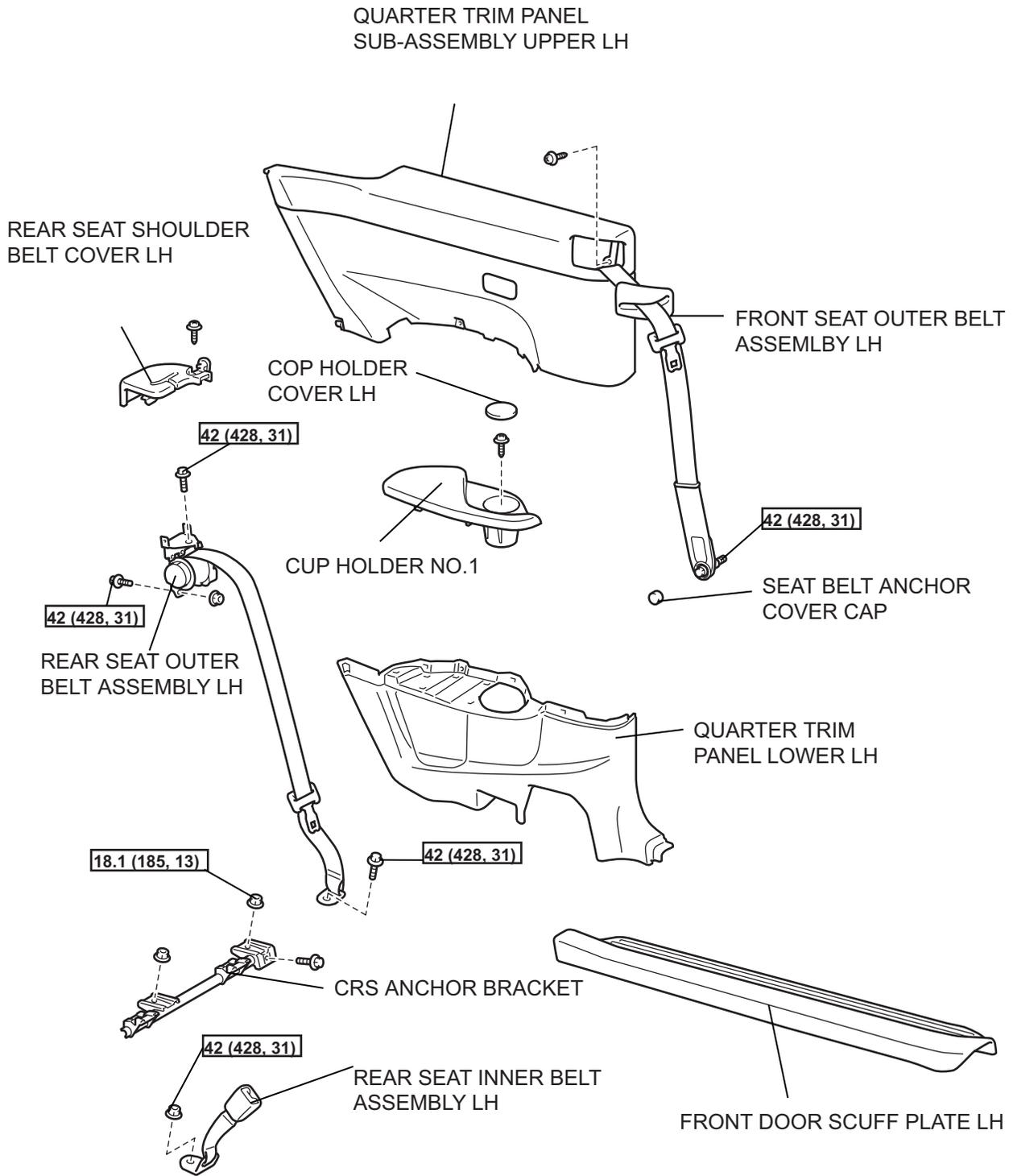


REAR SEAT INNER BELT ASSEMBLY (for Convertible)

COMPONENTS



SB



SB

$N \cdot m$ (kgf \cdot cm, ft. \cdot lbf) : Specified torque

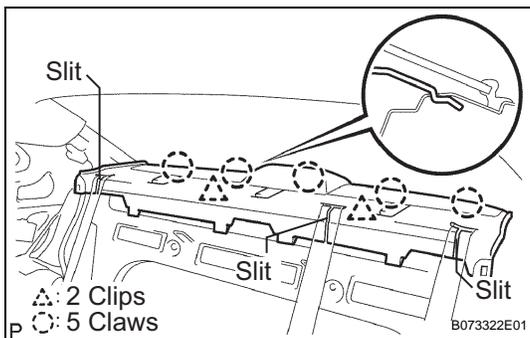
H

REMOVAL

HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- A bolt without a torque specification is shown in the standard bolt chart (See page [SS-2](#)).
- CRS stands for child restraint seat.

1. REMOVE REAR SEAT CUSHION ASSEMBLY (See page [SE-40](#))
2. REMOVE REAR SEATBACK ASSEMBLY LH (See page [SE-40](#))
3. REMOVE REAR SEATBACK ASSEMBLY RH (See page [SE-40](#))
4. REMOVE REAR SEATBACK HINGE SUB-ASSEMBLY LH (See page [SE-40](#))
5. REMOVE REAR SEATBACK HINGE SUB-ASSEMBLY RH (See page [SE-40](#))
6. REMOVE FRONT DOOR SCUFF PLATE LH (See page [IR-4](#))
7. REMOVE FRONT DOOR SCUFF PLATE RH (See page [IR-4](#))
8. REMOVE QUARTER TRIM PANEL ASSEMBLY FRONT LH
9. REMOVE QUARTER TRIM PANEL ASSEMBLY FRONT RH
10. REMOVE CENTER PILLAR GARNISH LH (See page [IR-5](#))
11. REMOVE CENTER PILLAR GARNISH RH (See page [IR-5](#))
12. REMOVE ROOF SIDE GARNISH ASSEMBLY INNER LH (See page [IR-5](#))
13. REMOVE ROOF SIDE GARNISH ASSEMBLY INNER RH (See page [IR-5](#))
14. REMOVE QUARTER TRIM PANEL UPPER LH
15. REMOVE QUARTER TRIM PANEL UPPER RH
16. REMOVE PACKAGE TRAY TRIM PANEL ASSEMBLY
 - (a) Disengage the 2 clips, 5 claws and package tray trim, as shown in the illustration.
17. REMOVE REAR SEAT OUTER BELT ASSEMBLY LH
 - (a) Remove the 2 bolts and outer belt.
18. REMOVE REAR SEAT OUTER BELT ASSEMBLY RH
 - (a) Remove the 2 bolts and outer belt.

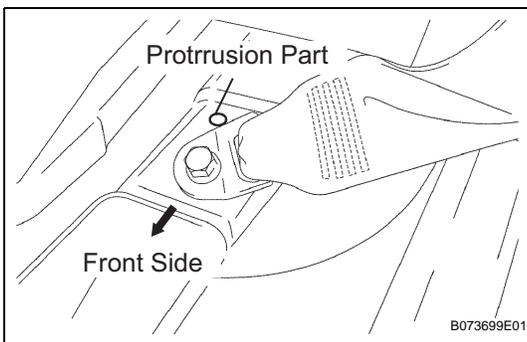
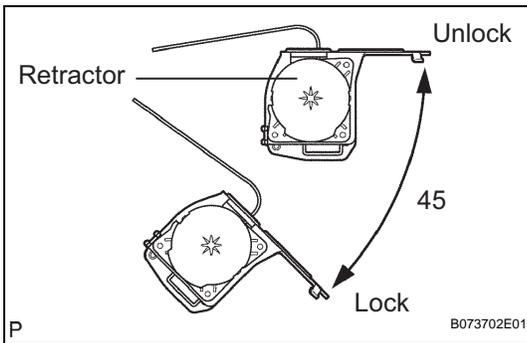


INSTALLATION

1. INSTALL REAR SEAT OUTER BELT ASSEMBLY RH

NOTICE:

Do not disassemble the retractor.



- (a) Check the degree of tilt when the belt begins to lock the ELR.
- (b) Check the amount of inclination required to lock the retractor.

- (1) When the inclination of the retractor is 15° or less, check that the belt can be pulled from the retractor. When the inclination of the retractor is over 45° , check that the belt locks.

If operation is not as specified, replace the belt assembly.

- (c) Install the inner belt with the 2 bolts.

Torque: 42 N*m (430 kgf*cm, 31 in.*lbf)

NOTICE:

Do not make the anchor part run onto the protruding part of the floor panel.

- (d) Check the ELR lock.

NOTICE:

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

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

If operation is not as specified, replace the belt assembly.

- (e) Check the fastening function of the child restraint system.

NOTICE:

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

- (1) When the belt is pulled out fully, the belt should automatically try to retract.

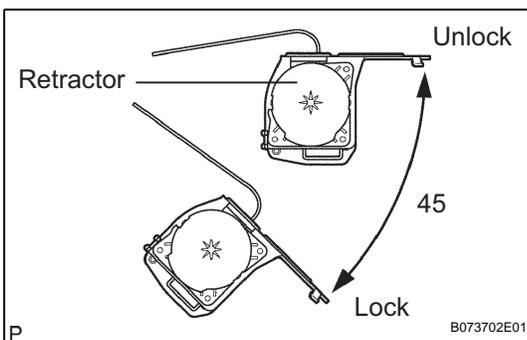
- (2) After the belt has fully retracted, the belt should be able to be pulled out and retracted again.

If operation is not as specified, replace the belt assembly.

2. INSTALL REAR SEAT OUTER BELT ASSEMBLY LH

NOTICE:

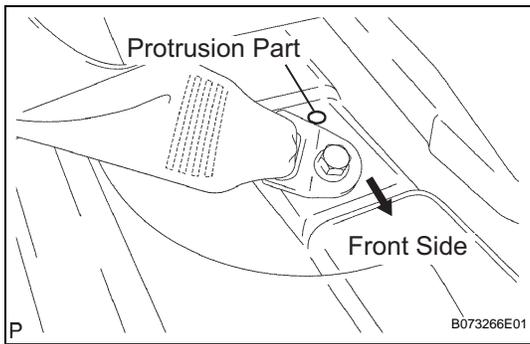
Do not disassemble the retractor.



- (a) Check the degree of tilt when the belt begins to lock the ELR.
- (b) Check the amount of inclination required to lock the retractor.

- (1) When the inclination of the retractor is 15° or less, check that the belt can be pulled from the retractor. When the inclination of the retractor is over 45° , check that the belt locks.

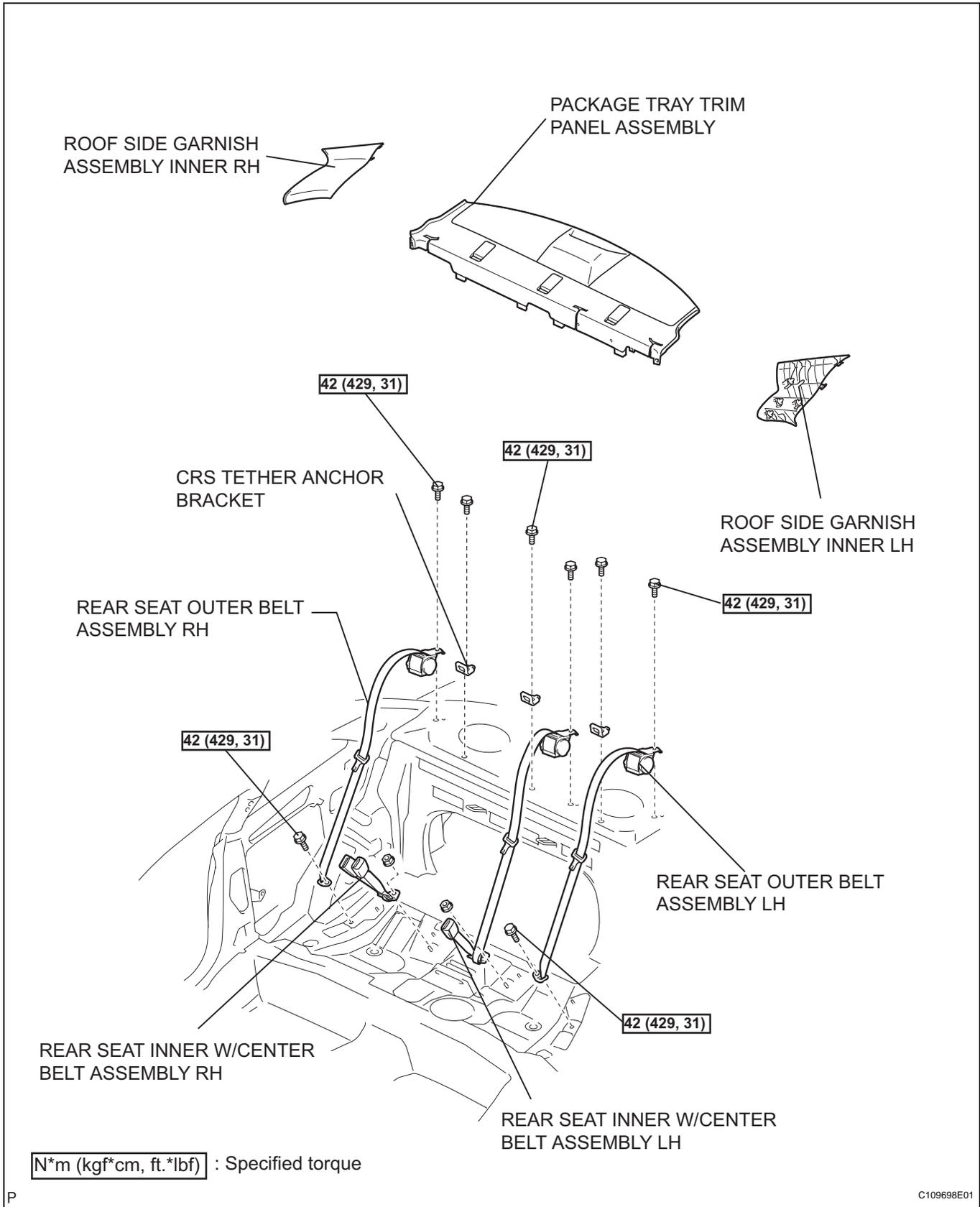
If operation is not as specified, replace the belt assembly.

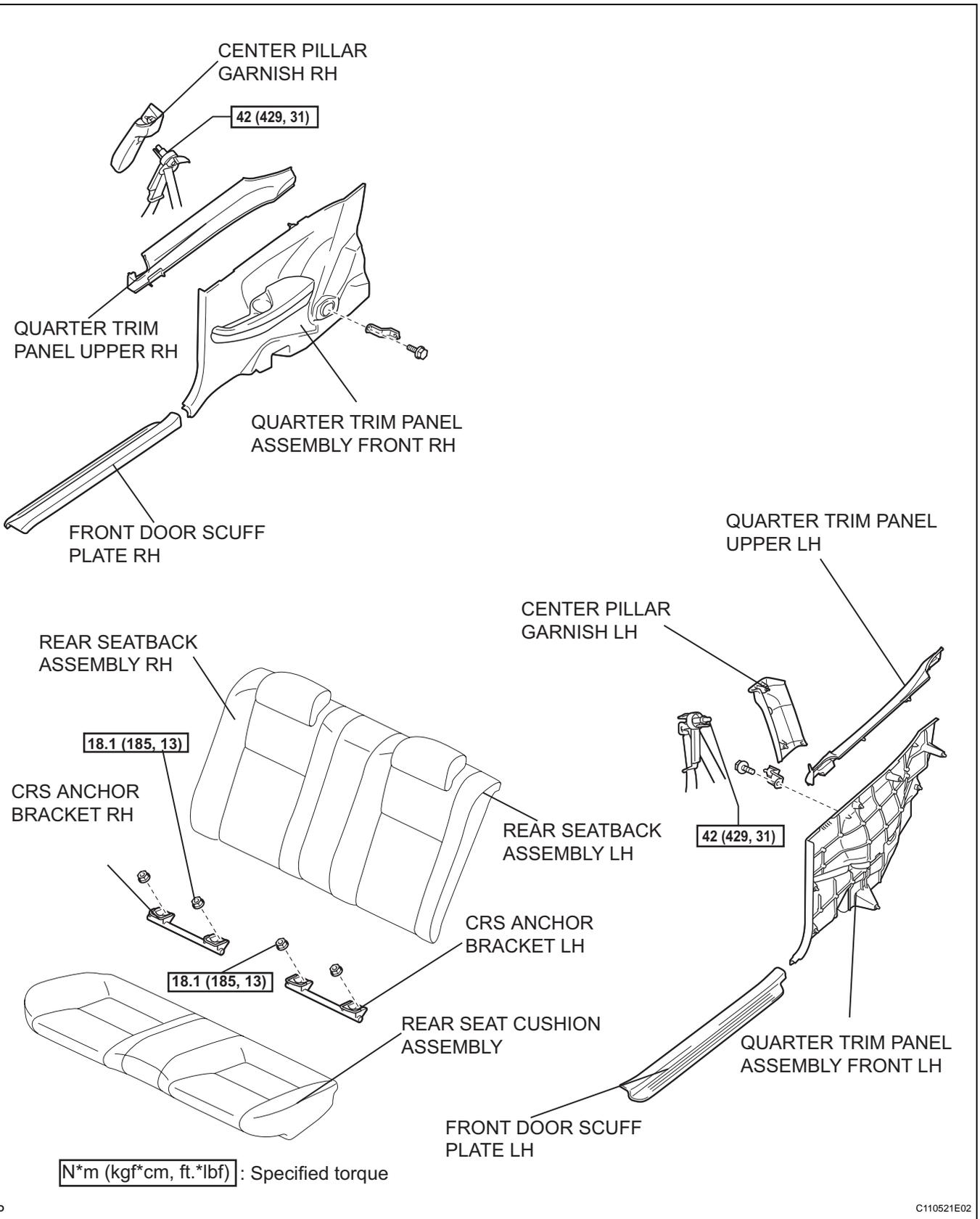


- (c) Install the inner belt with the 2 bolts.
Torque: 42 N*m (430 kgf*cm, 31 in.*lbf)
NOTICE:
Do not make the anchor part run onto the protruding part of the floor panel.
- (d) Check the ELR lock.
NOTICE:
The check should be performed with the outer belt assembly installed.
- (1) With the belt installed, check that the belt locks when it is pulled out quickly.
 If operation is not as specified, replace the belt assembly.
- (e) Check fastening function of the child restraint system.
NOTICE:
The check should be performed with the outer belt assembly installed.
- (1) When the belt is pulled out fully, the belt should automatically try to retract.
- (2) After the belt has fully retracted, the belt should be able to be pulled out and retracted again.
 If operation is not as specified, replace the belt assembly.

REAR SEAT OUTER BELT ASSEMBLY (for Coupe)

COMPONENTS



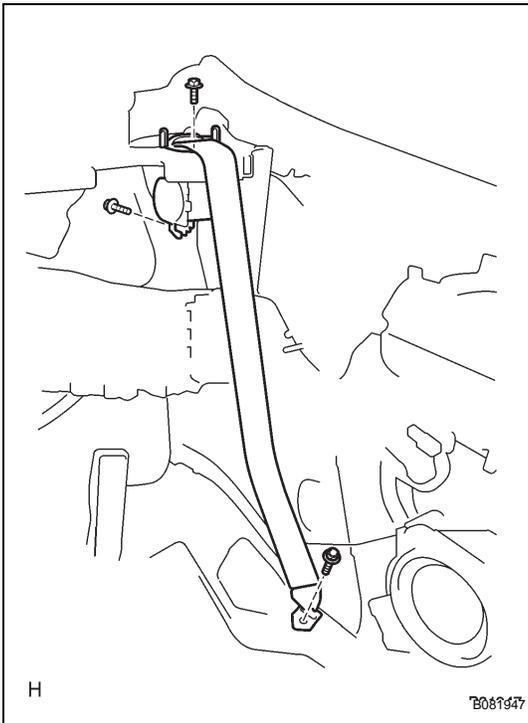


REMOVAL

HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.
- A bolt without a torque specification is shown in the standard bolt chart (See page [SS-2](#)).
- CRS stands for child restraint seat.

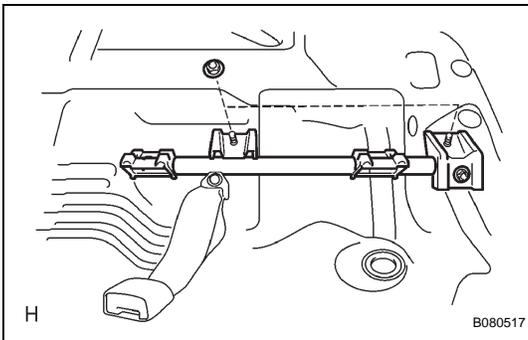
1. REMOVE REAR SEAT CUSHION ASSEMBLY (See page [SE-46](#))
2. REMOVE REAR SEAT HEADREST PLATE COVER RH (See page [SE-46](#))
3. REMOVE REAR SEAT HEADREST PLATE COVER LH (See page [SE-46](#))
4. REMOVE REAR SEAT HEADREST PLATE RH (See page [SE-47](#))
5. REMOVE REAR SEAT HEADREST PLATE LH (See page [SE-47](#))
6. REMOVE REAR SEAT HEADREST ASSEMBLY RH
7. REMOVE REAR SEAT HEADREST ASSEMBLY LH
8. REMOVE REAR SEAT SHOULDER BELT COVER LH (See page [SE-47](#))
9. REMOVE REAR SEAT SHOULDER BELT COVER RH (See page [SE-47](#))
10. REMOVE REAR SEATBACK ASSEMBLY (See page [SE-47](#))
11. REMOVE FRONT DOOR SCUFF PLATE LH (See page [IR-9](#))
12. REMOVE CUP HOLDER NO.1
13. REMOVE QUARTER TRIM PANEL SUB-ASSEMBLY UPPER LH (See page [IR-10](#))
14. REMOVE QUARTER TRIM PANEL LOWER LH (See page [IR-10](#))

**15. REMOVE REAR SEAT OUTER BELT ASSEMBLY LH**

- (a) Remove the 3 bolts and belt.

16. REMOVE CRS ANCHOR BRACKET

- (a) Remove the 2 nuts and bracket.

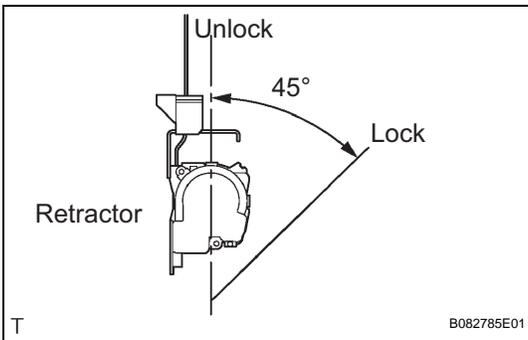
**INSTALLATION****1. INSTALL CRS ANCHOR BRACKET**

- (a) Install the bracket with the 2 nuts.

Torque: 18.1 N*m (185 kgf*cm, 13 in.*lbf)

2. INSTALL REAR SEAT OUTER BELT ASSEMBLY LH**NOTICE:**

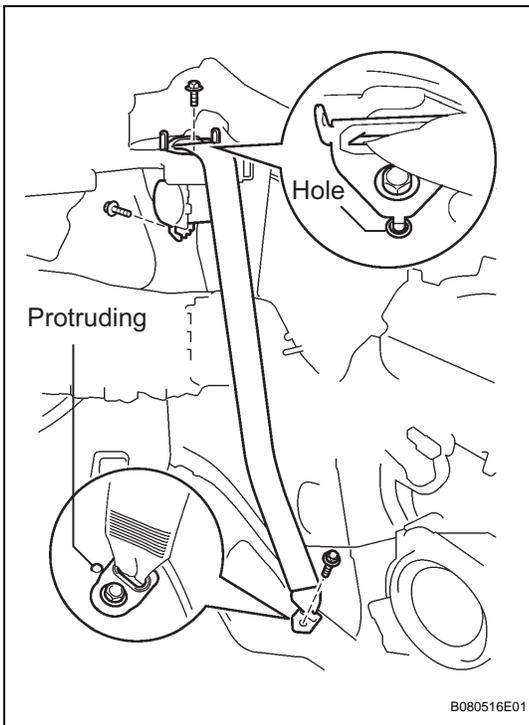
Do not disassemble the retractor.



- (a) Check the degree of tilt when the belt begins to lock the ELR.

- (1) When the inclination of the retractor is 15° or less, check that the belt can be pulled from the retractor. When the inclination of the retractor is over 45° check that the belt locks.

If operation is not as specified, replace the belt assembly.



- (b) Install the outer belt with the 3 bolts, as shown in the illustration.

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

NOTICE:

Do not allow the anchor part of the rear belt and the protruding parts of the rear seat adjuster to overlap.

- (c) Check the ELR lock.

NOTICE:

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

- (1) With the belt installed, check that the belt locks when it is pulled out quickly.
If operation is not as specified, replace the belt assembly.

- (d) Check fastening function of the child restraint system.

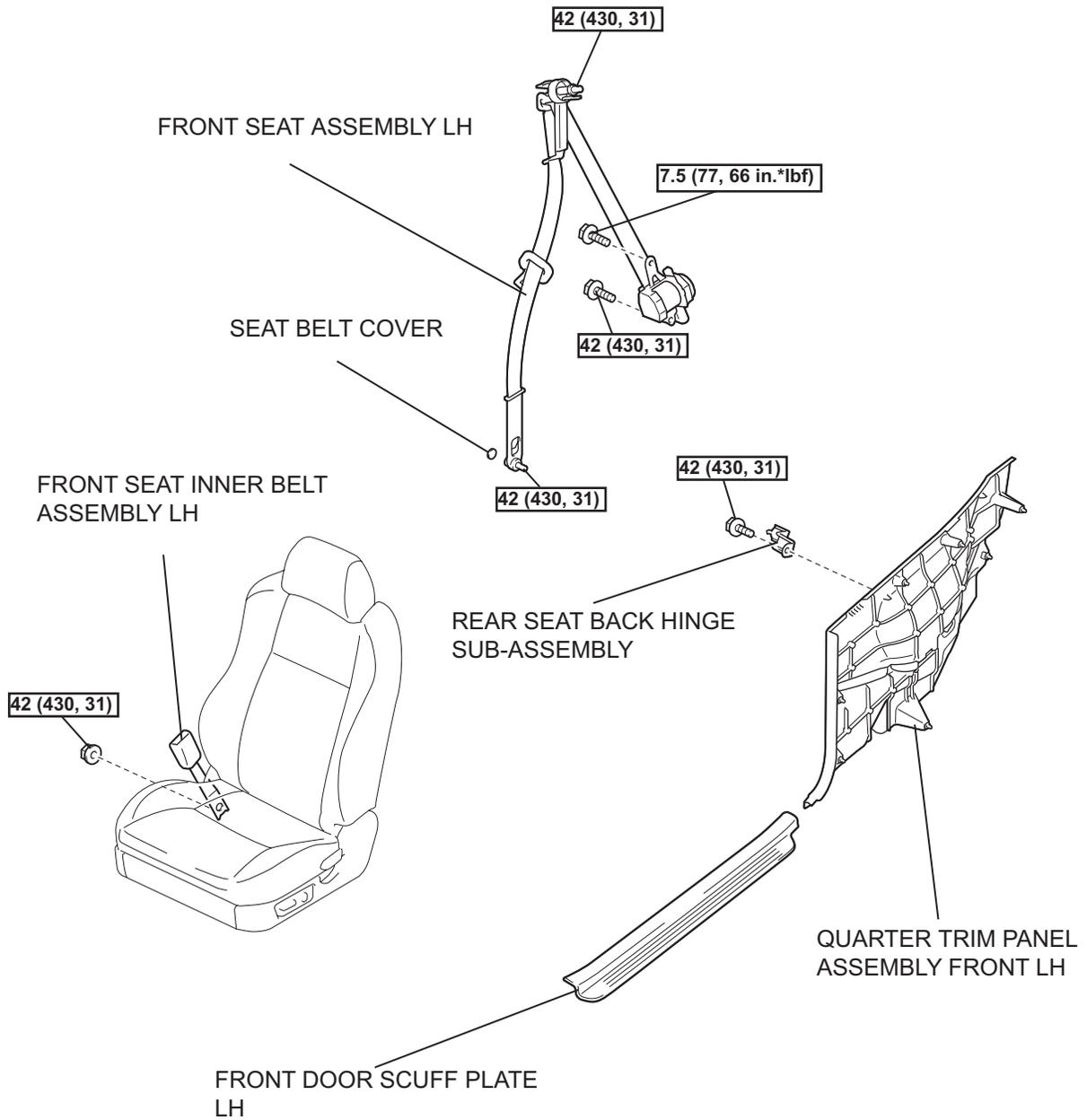
NOTICE:

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

- (1) When the belt is pulled out fully, the belt should automatically try to retract.
(2) After the belt has fully retracted, the belt should be able to be pulled out and retracted again.
If operation is not as specified, replace the belt assembly.

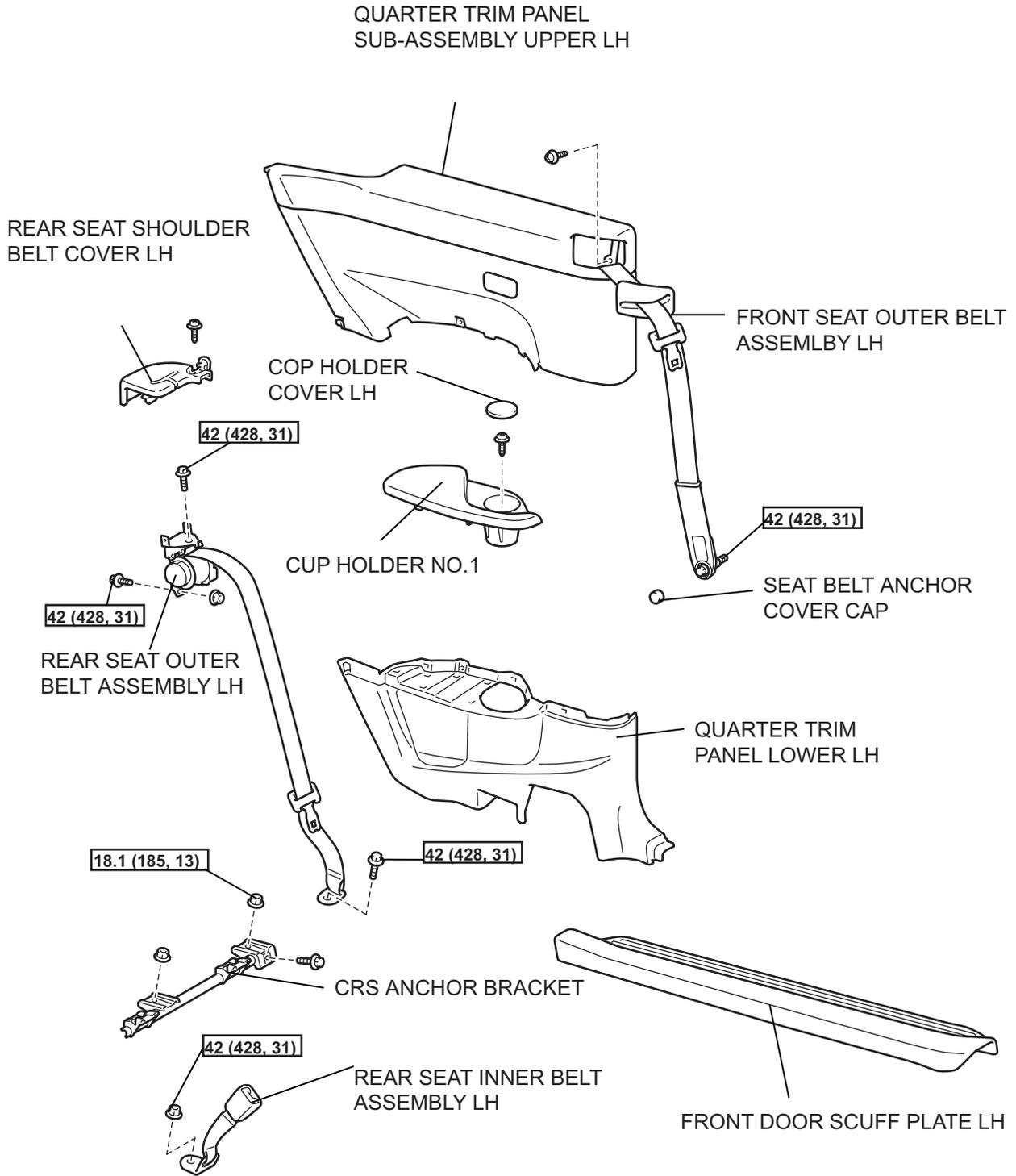
REAR SEAT OUTER BELT ASSEMBLY (for Convertible)

COMPONENTS



SB

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



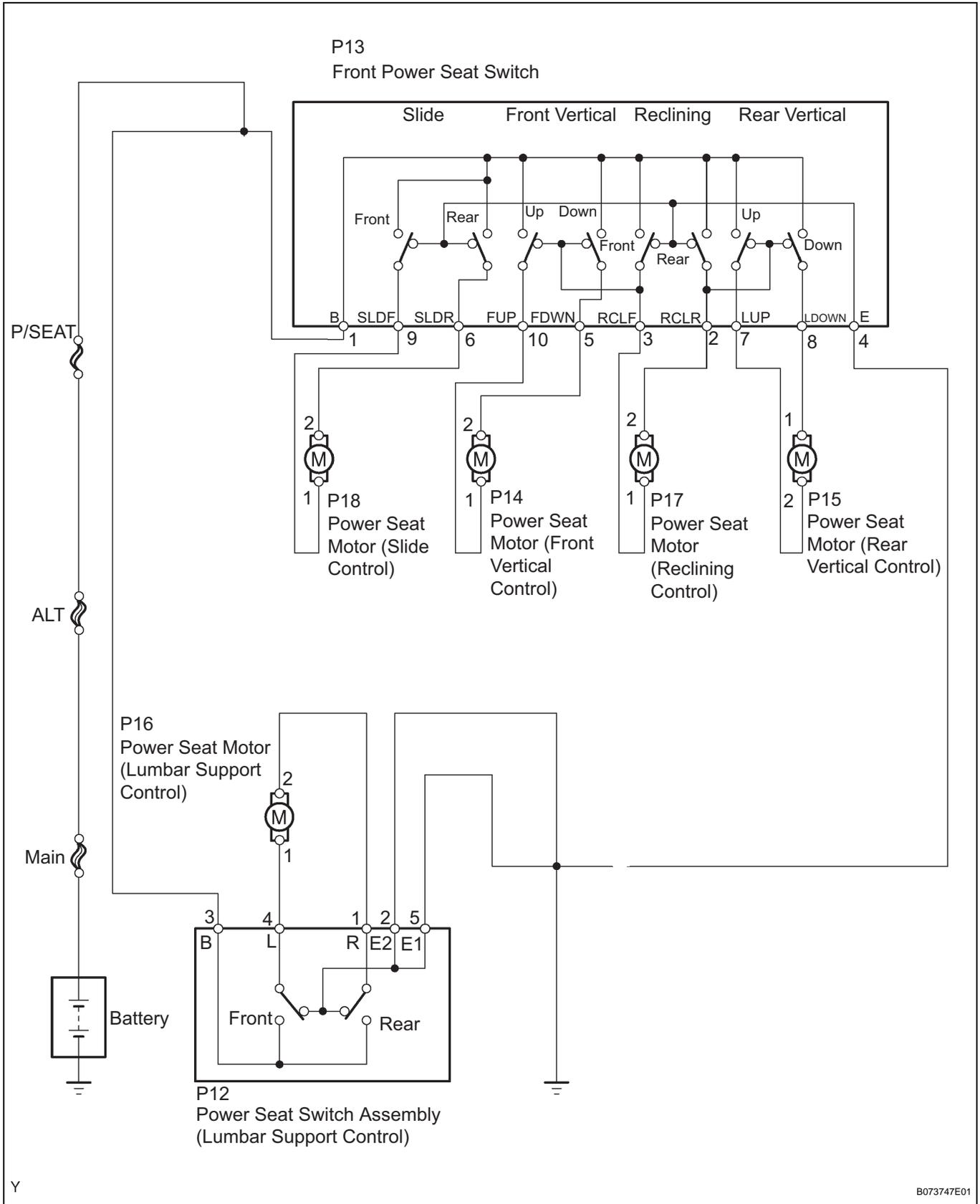
N*m (kgf*cm, ft.*lbf) : Specified torque

H

SB

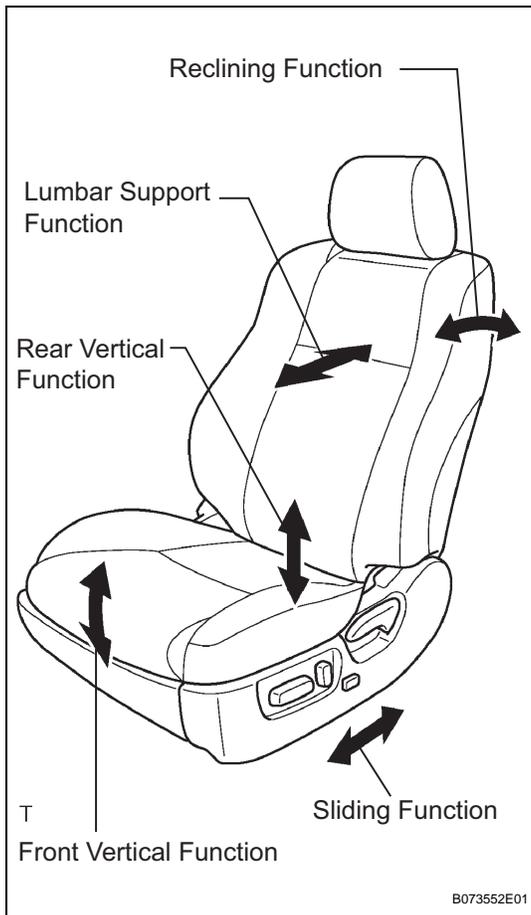
SYSTEM DIAGRAM

SE



PROBLEM SYMPTOMS TABLE

Symptom	Suspected area	See page
All power seat function do not operate (driver seat only)	1. P/SEAT M-fuse	SE-1
	2. Front power seat switch	SE-6
	3. Wire harness	-
Only slide operation function does not operate (driver seat only)	1. Front power seat switch	SE-6
	2. Slide motor	SE-6
	3. Wire harness	-
Only front vertical operation function does not operate (driver seat only)	1. Front power seat switch	SE-6
	2. Front vertical motor	SE-6
	3. Wire harness	-
Only rear vertical operation function does not operate (driver seat only)	1. Front power seat switch	SE-6
	2. Rear vertical motor	SE-6
	3. Wire harness	-
Only reclining operation function does not operate (driver seat only)	1. Front power seat switch	SE-6
	2. Reclining motor	SE-6
	3. Wire harness	-
Only lumbar support operation function does not operate (driver seat only)	1. Power seat switch assembly (Lumber support)	SE-6
	2. Lumbar support adjuster motor	SE-6
	3. Wire harness	-



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

2. CHECK POWER SEAT MOTOR ASSEMBLY

- (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 procedure A to B 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 (Procedure A).

- (2) Operate the power seat switch again and continue to try to move the seat in the same direction as in "procedure A". 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 direction in procedure A. Check that the motor operates (Procedure B).

3. CHECK LUMBAR SUPPORT ADJUSTER ASSEMBLY

- (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 rearmost position. Keep the seat in that position for approximately 60 seconds (Procedure C).
- (2) Operate the lumbar support switch again and continue to try to move the lumbar support in the same direction as in procedure C. 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.

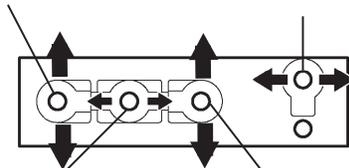
Standard:

4 to 90 seconds

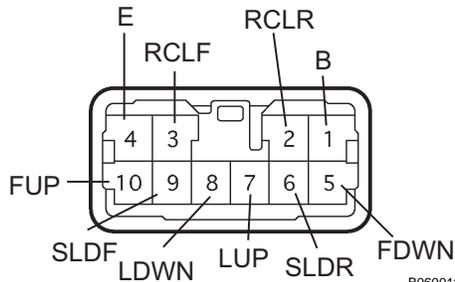
- (3) After the current has stopped, release the lumbar support switch and wait for approximately 60 seconds.
- (4) Operate the lumbar support switch and move the seat to the opposite extreme of direction in procedure C. Check that the motor operates.

Front Power Seat Switch

Front Vertical Switch Reclining Switch



Sliding Switch Rear Vertical Switch



INSPECTION

1. INSPECT FRONT POWER SEAT SWITCH

(a) Only on the driver side:

Measure the resistance between the terminals when each switch is operated.

Resistance:**Slide switch**

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

Front vertical switch

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

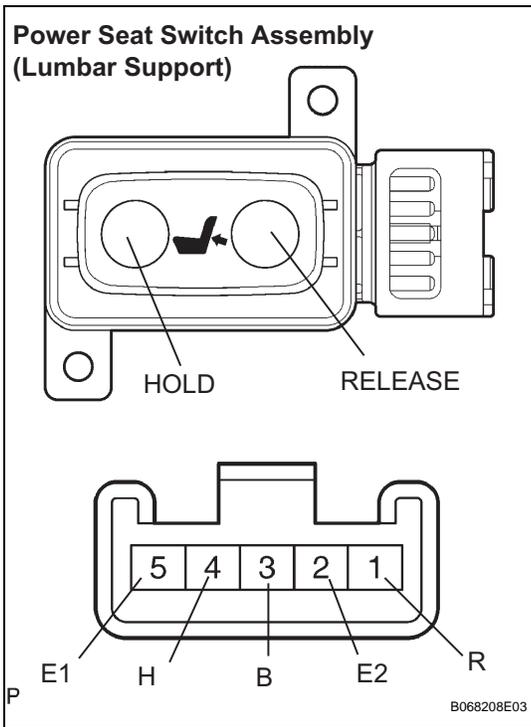
Rear vertical switch

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

Reclining switch

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

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



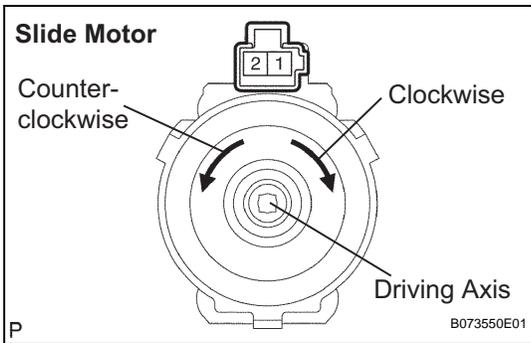
2. INSPECT POWER SEAT SWITCH ASSEMBLY (LUMBAR SUPPORT)

- (a) Only on the driver side:
Measure the resistance between the terminals when the switch is operated.

Standard Resistance

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

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



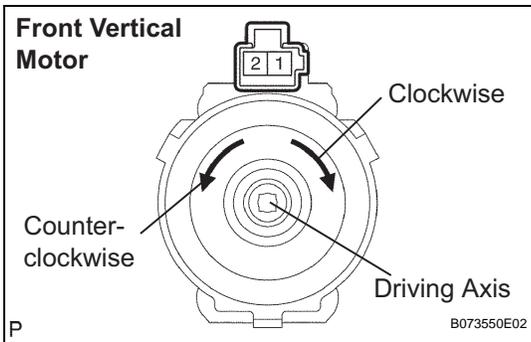
3. INSPECT FRONT SEAT ADJUSTER ASSEMBLY

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

OK

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.



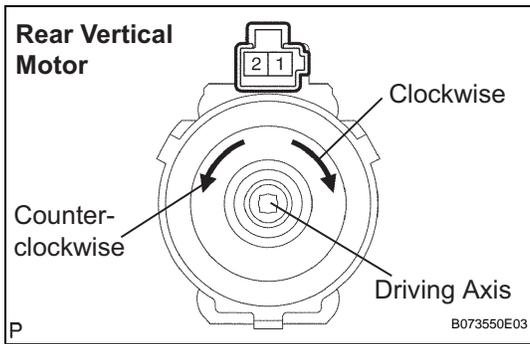
- (b) Only on the driver side:
Check operation of the vertical motor.
(1) Check if the motor rotates smoothly when the battery is connected to the vertical motor connector terminals.

OK

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.

SE

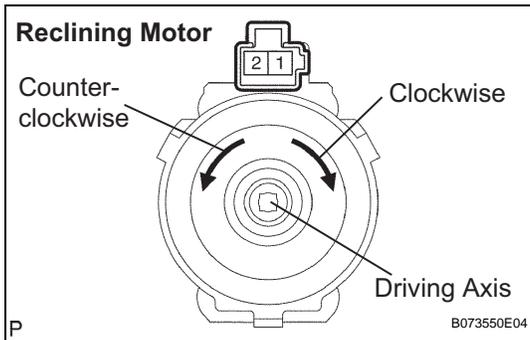


- (c) Only on the driver side:
Check operation of the rear vertical motor.
- (1) Check if the motor rotates smoothly when the battery is connected to the rear vertical motor connector terminals.

OK

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.

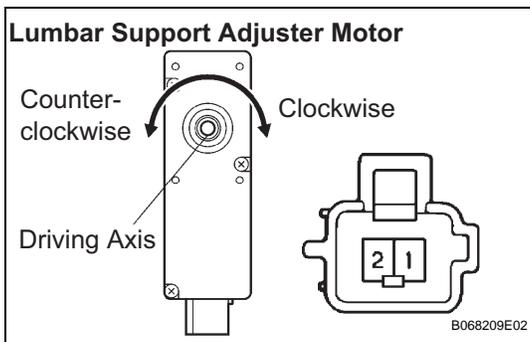


- (d) Only on the driver side:
Check operation of the reclining motor.
- (1) Check if the motor rotates smoothly when the battery is connected to the reclining motor connector terminals.

OK

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 reclining motor.



4. INSPECT LUMBAR SUPPORT ADJUSTER ASSEMBLY

- (a) Only on the driver side:
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.

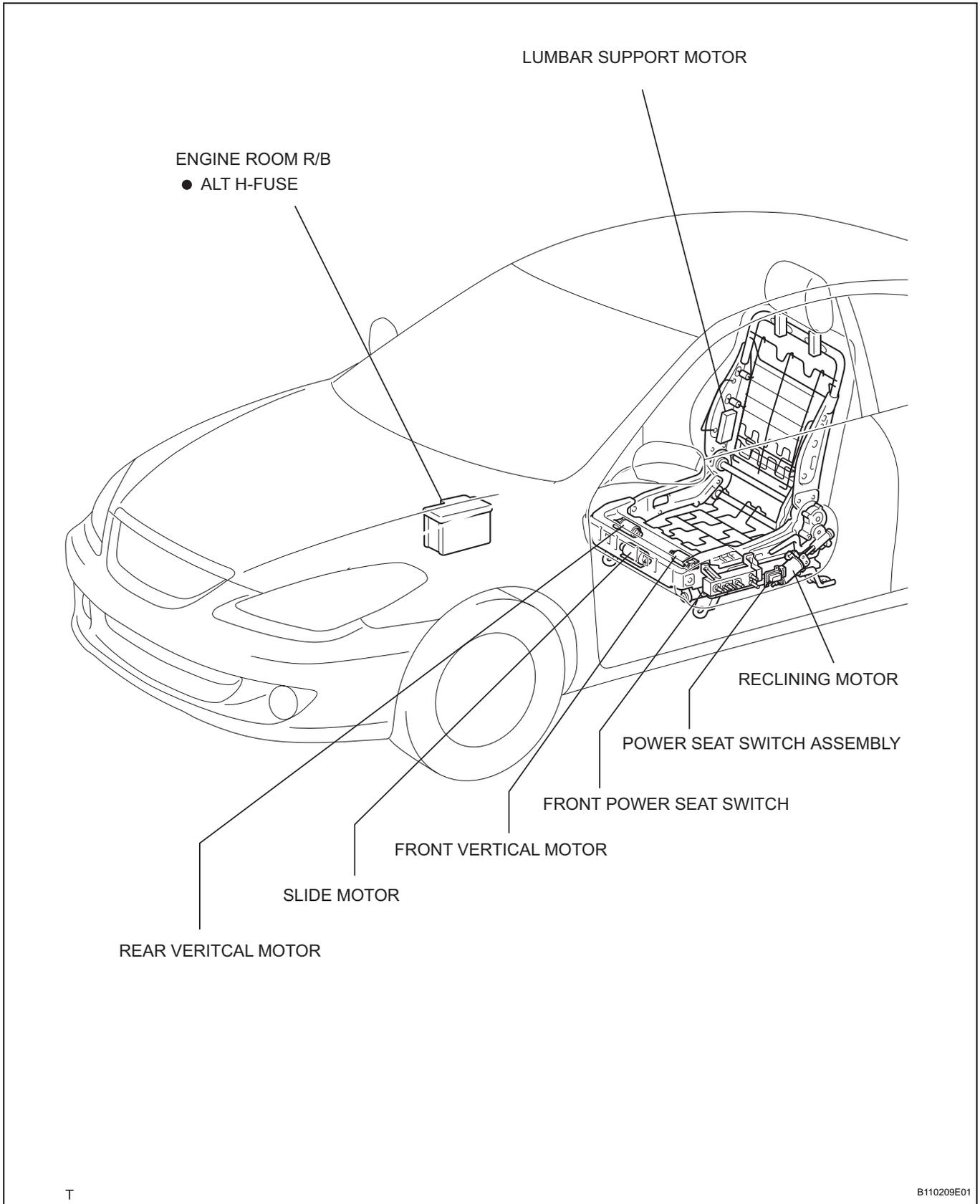
OK

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

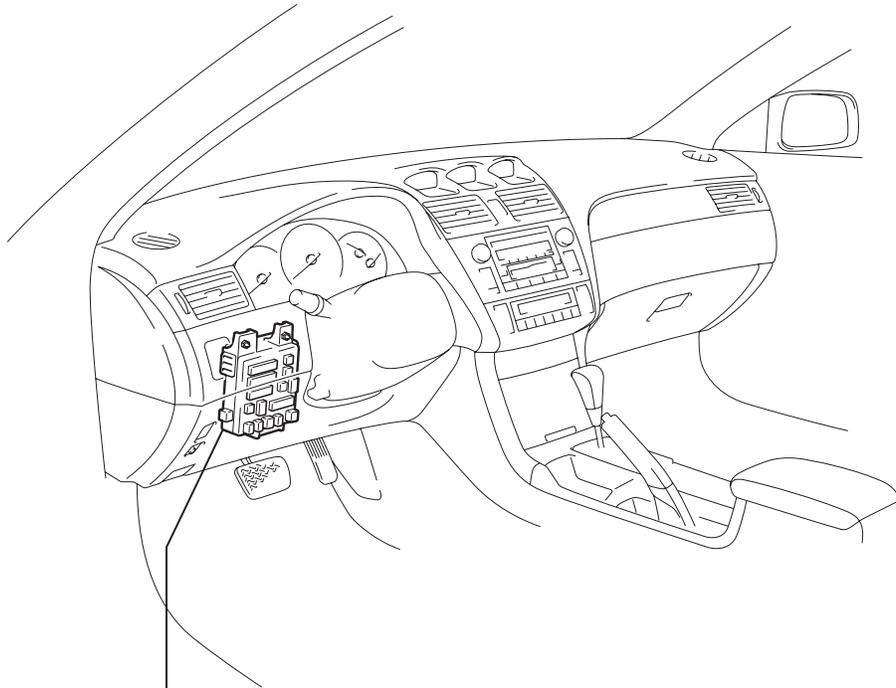
If the result is not as specified, replace the adjuster motor.

FRONT POWER SEAT CONTROL SYSTEM

PARTS LOCATION



SE



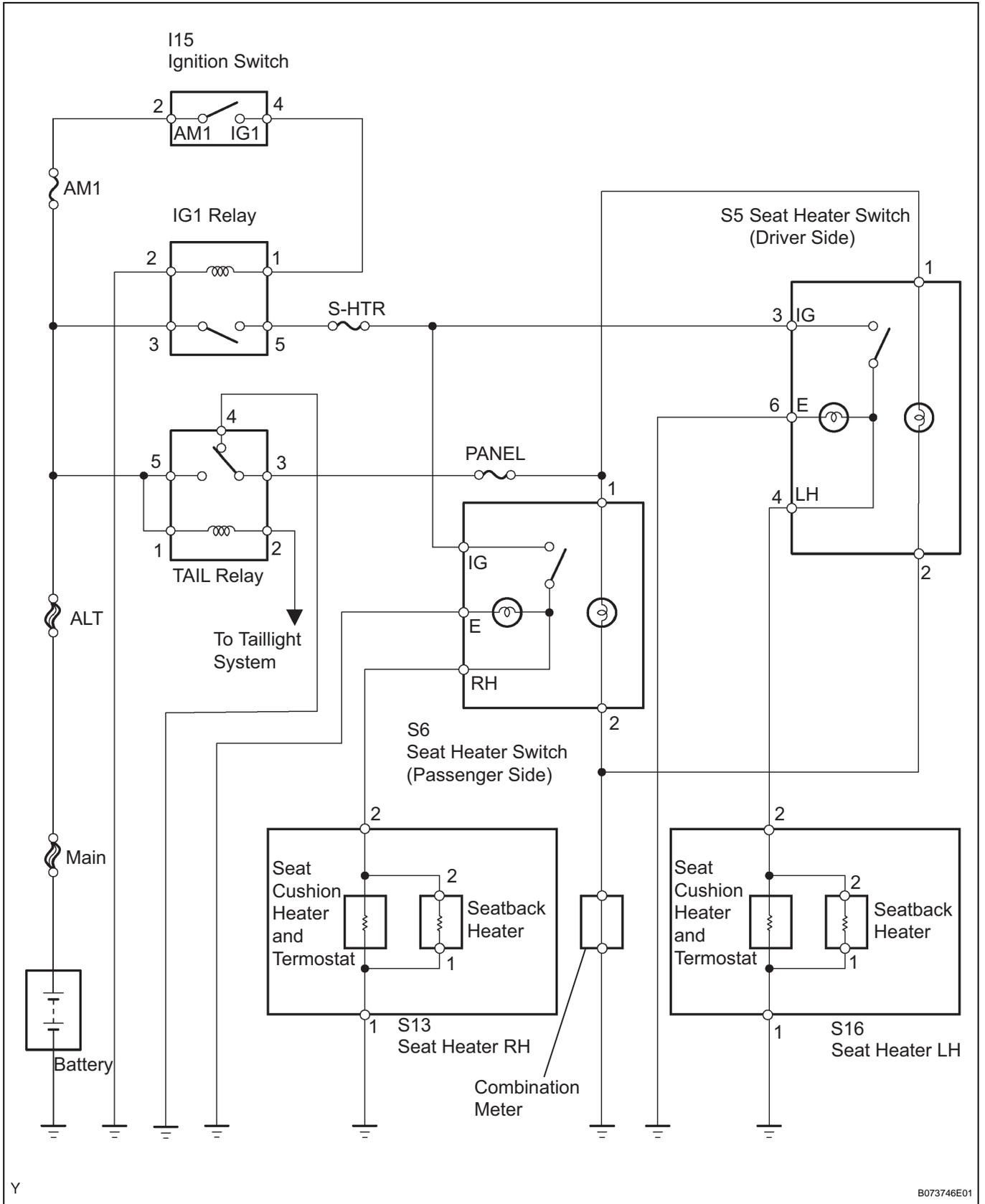
INSTRUMENT PANEL J/B ASSEMBLY

- P/SEAT M-FUSE

P

SYSTEM DIAGRAM

SE



Y

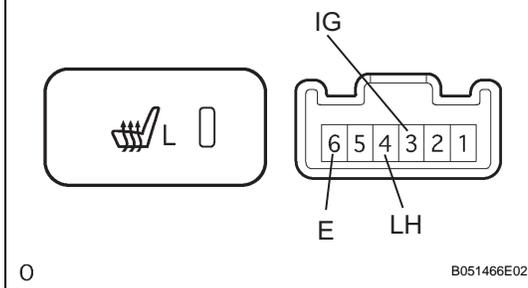
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PROBLEM SYMPTOMS TABLE

SEAT HEATER SYSTEM

Symptom	Suspected area	See page
Driver's and passenger's seat heaters do not warm up	1. S-HTR fuse	SE-9
	2. Wire harness	-
Only driver's seat heater does not warm up	1. Seat heater switch (driver side)	SE-12
	2. Front seat cushion heater assembly LH	SE-13
	3. Front seatback heater assembly LH	SE-14
	4. Wire harness	-
Only passenger's seat heater does no warm up	1. Seat heater switch (passenger side)	SE-12
	2. Front seat cushion heater assembly RH	SE-14
	3. Front seatback heater assembly RH	SE-15
	4. Wire harness	-

Seat Heater Switch (Driver Side)



INSPECTION

1. INSPECT SEAT HEATER SWITCH (for Driver Side)

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

Standard Resistance

Tester Connection	Switch Condition	Specified Condition
3 (IG) - 4 (LH)	ON	Below 1 Ω

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

- (b) Push the seat heater switch ON and check that the seat heater switch indicator illuminates when switch is operated.

OK

Measurement Condition	Switch Condition	Specified Condition
Battery positive (+) → Terminal 3 (IG) Battery negative (-) → Terminal 6 (E)	ON	Illuminates

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

- (c) Check that the seat heater switch illuminates.

OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 1 Battery negative (-) → Terminal 2	Illuminates

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

2. INSPECT SEAT HEATER SWITCH (for Passenger Side)

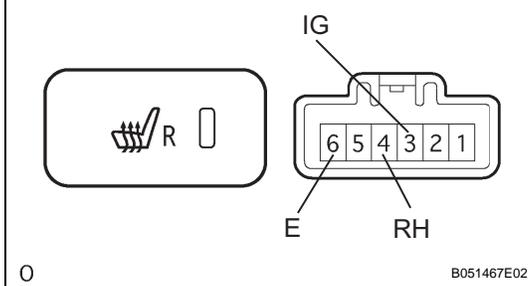
- (a) Measure the resistance between the terminals when the switch is operated.

Standard Resistance

Tester Connection	Switch Condition	Specified Condition
3 (IG) - 4 (RH)	ON	Below 1 Ω

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

Seat Heat Switch (Passenger Side)



- (b) Push the seat heater switch ON and check that the seat heater switch indicator illuminates.

OK

Measurement Condition	Switch Condition	Specified Condition
Battery positive (+) → Terminal 3 (IG) Battery negative (-) → Terminal 6 (E)	ON	Illuminates

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

- (c) Check that the seat heater switch illuminates.

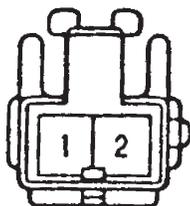
OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 1 Battery negative (-) → Terminal 2	Illuminates

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

SE

Seatback Heater LH Female Connector



B030882E01

3. INSPECT FRONT SEAT CUSHION HEATER ASSEMBLY LH

- (a) Check the seat cushion heater.
(1) Apply battery voltage and check the seat cushion assembly.

OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Seat cushion heater becomes warm

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

NOTICE:

After confirming that the seat heater is functioning normally, immediately remove the battery leads. Failing to do so will cause the seat heater to overheat.

- (b) Check the thermostat.
(1) Apply battery voltage and check the seat cushion heater.

OK

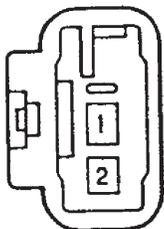
Measurement Condition	Specified Condition
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Seat cushion heater temperature becomes 44 °C (111 °F)

If the temperature of the seat heater rises above the specified value, replace the seat heater assembly.

NOTICE:

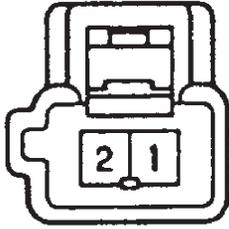
After confirming that the seat heater's temperature is rising, immediately remove the battery leads. Failing to do so will cause the seat heater to overheat if the thermostat is malfunctioning.

S16 (Seat Heater LH Side)



B030879E01

Seatback Heater LH Male Connector



B030883E01

4. INSPECT FRONT SEATBACK HEATER ASSEMBLY LH

- (a) Apply battery voltage and check the seatback heater.

OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Seatback heater becomes warm

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

NOTICE:

After confirming that the seat heater is functioning normally, immediately remove the battery leads. Failing to do so will cause the seat heater to overheat.

5. INSPECT FRONT SEAT CUSHION HEATER ASSEMBLY RH

- (a) Check the seat cushion heater.
- (1) Apply battery voltage and check the seat cushion assembly.

OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Seat cushion heater becomes warm

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

NOTICE:

After confirming that the seat heater is functioning normally, immediately remove the battery leads. Failing to do so will cause the seat heater to overheat.

- (b) Check the thermostat.
- (1) Apply battery voltage and check the seat cushion heater.

OK

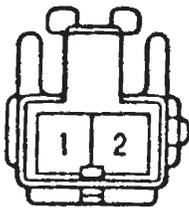
Measurement Condition	Specified Condition
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Seat cushion heater temperature becomes 44 °C (111 °F)

If the temperature of the seat heater rises above the specified value, replace the seat heater assembly.

NOTICE:

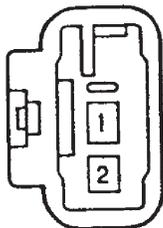
After confirming that the seat heater's temperature is rising, immediately remove the battery leads. Failing to do so will cause the seat heater to overheat if the thermostat is malfunctioning.

Seatback Heater RH Female Connector



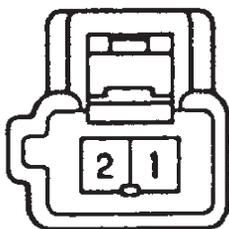
B030882E02

S13 (Seat Heater RH Side)



B030879E03

Seatback Heater RH Male Conenctor



B030883E02

6. INSPECT FRONT SEATBACK HEATER ASSEMBLY RH

- (a) Apply battery voltage and check the seatback heater.

OK

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 2 Battery negative (-) → Terminal 1	Seatback heater becomes warm

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

NOTICE:

After confirming that the seat heater is functioning normally, immediately remove the battery leads. Failing to do so will cause the seat heater to overheat.

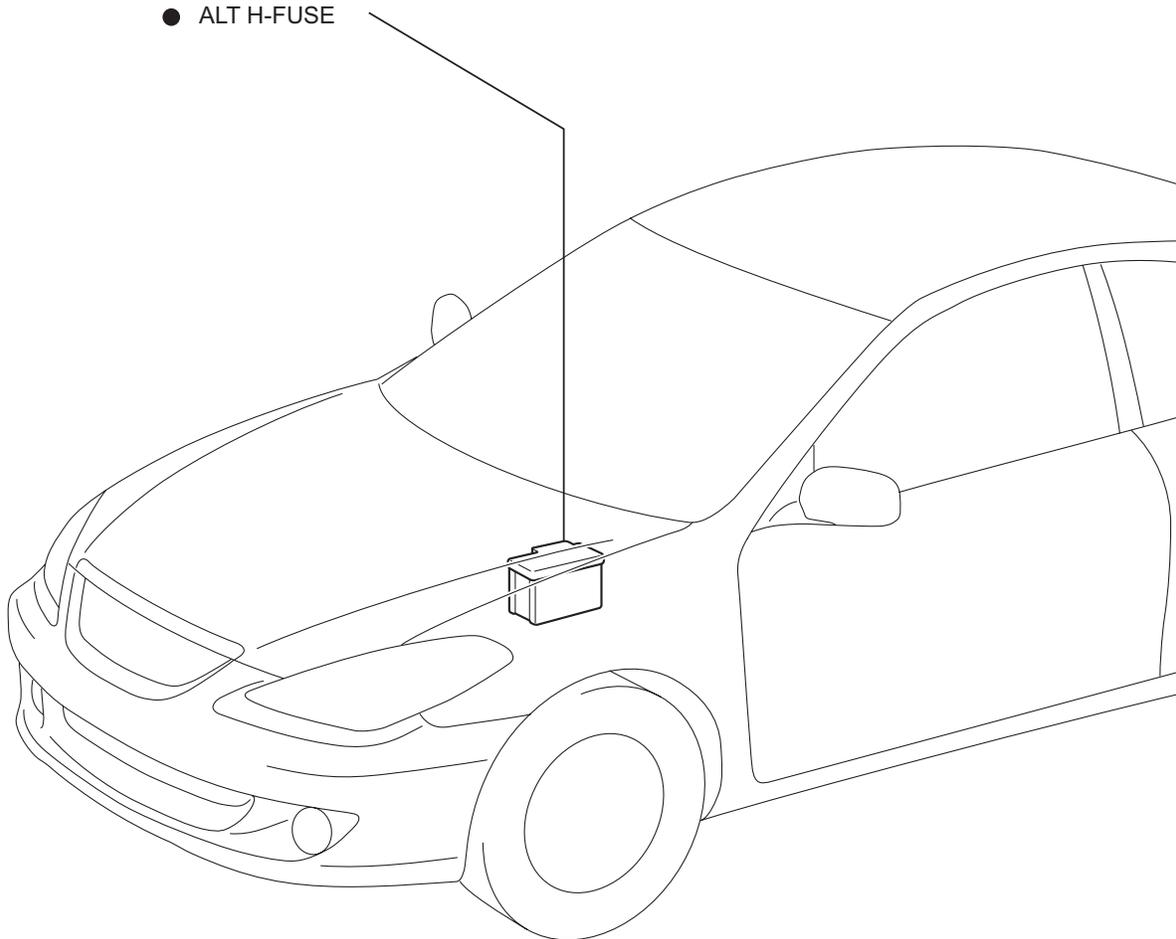
SE

SEAT HEATER SYSTEM

PARTS LOCATION

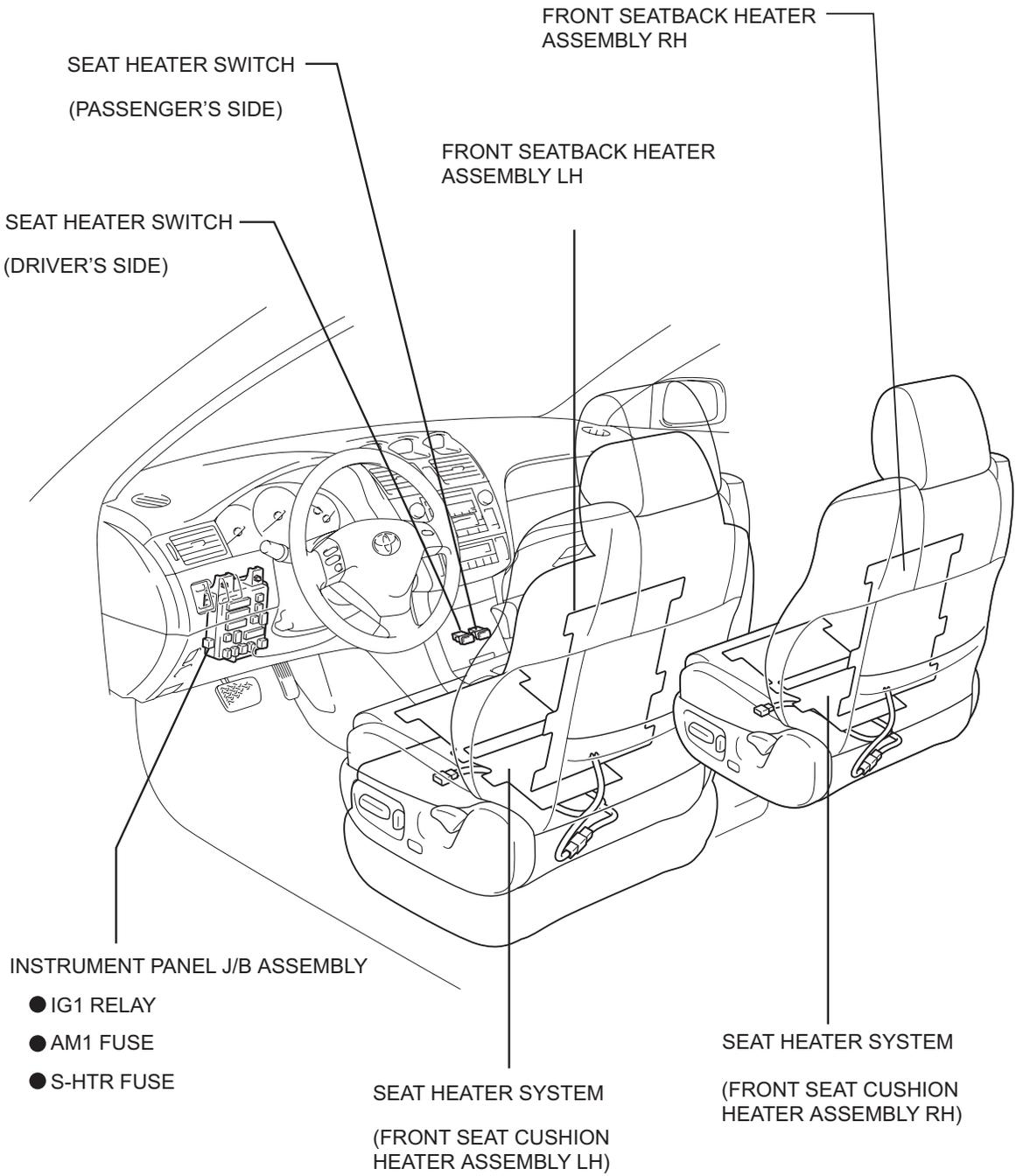
ENGINE ROOM R/B

- ALT H-FUSE



SE

SE



REMOVAL

HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the RH side.
- When removing/installing and overhauling the passenger seat, check the passenger occupant classification system and perform the zero point calibration (See page [RS-321](#)).
- A bolt without a torque specification is shown in the standard bolt chart (See page [SS-2](#)).

CAUTION:

Wear safety gloves, because the sharp surfaces of the seat adjuster may injure your hand.

1. REMOVE SEAT TRACK COVER RH
2. REMOVE SEAT TRACK BRACKET COVER INNER LH
3. DISCONNECT BATTERY NEGATIVE TERMINAL

CAUTION:

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 turning the ignition switch to the Lock position and disconnecting the negative (-) terminal cable of the battery, the SRS may deploy.)

4. REMOVE FRONT SEAT ASSEMBLY LH

HINT:

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

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

NOTICE:

Be careful not to damage the vehicle body.

DISASSEMBLY

1. REMOVE OCCUPANT CLASSIFICATION ECU (for Passenger Side) (See page [RS-321](#))

2. REMOVE VERTICAL SEAT ADJUSTER KNOB (for Driver Side)

(a) Using a screwdriver, remove the snap ring and knob.

HINT:

Tape the screwdriver tip before use.

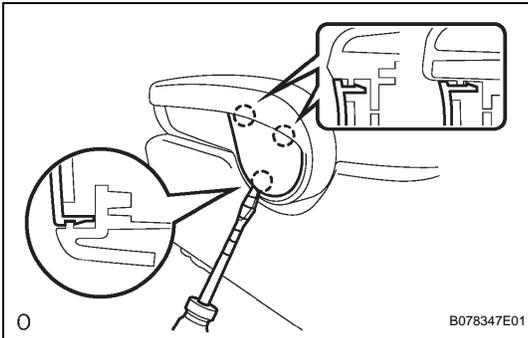
3. REMOVE VERTICAL ADJUSTING HANDLE (for Driver Side)

(a) Using a screwdriver, disengage the 3 claws and remove the vertical adjuster cover LH.

HINT:

Tape the screwdriver tip before use.

(b) Remove the 2 screws and vertical adjusting handle.

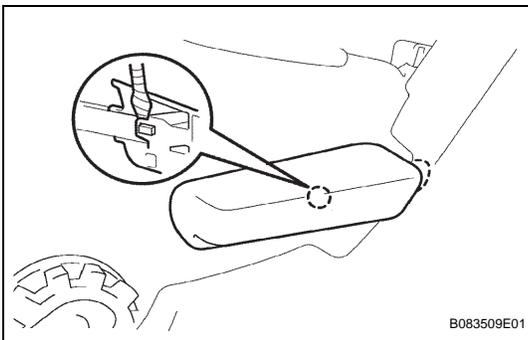


4. REMOVE RECLINING ADJUSTER RELEASE HANDLE LH

(a) Raise the reclining adjuster release handle to reveal a claw. Use a screwdriver to disengage the claw and remove the release handle.

HINT:

Tape the screwdriver tip before use.



5. REMOVE FRONT SEAT CUSHION SHIELD LH

(a) Remove the 2 rubber bands from the back of the front seatback cover.

(b) Remove the screw.

(c) Using a screwdriver, disengage the 2 claws and clip, and remove the cushion shield.

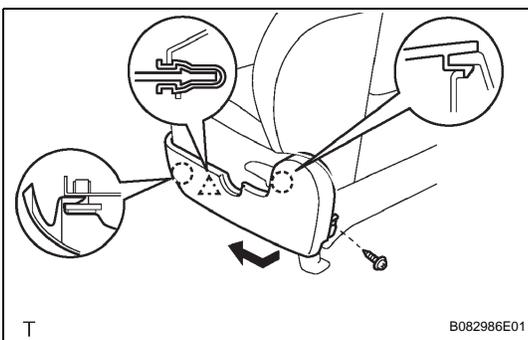
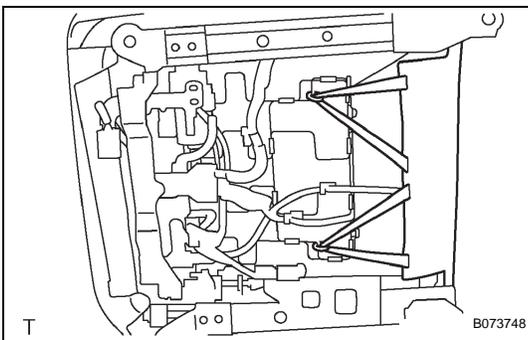
HINT:

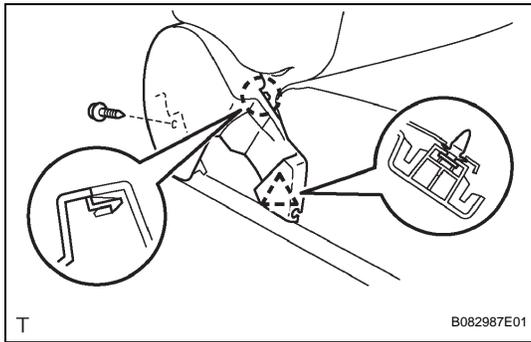
Tape the screwdriver tip before use.

6. REMOVE FRONT SEAT INNER BELT ASSEMBLY LH

(a) Disconnect the connectors.

(b) Remove the nut and inner belt.



**7. 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:

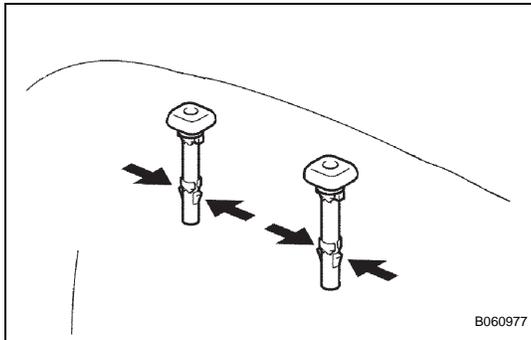
Tape the screwdriver tip before use.

8. REMOVE FRONT SEAT CUSHION COVER LH

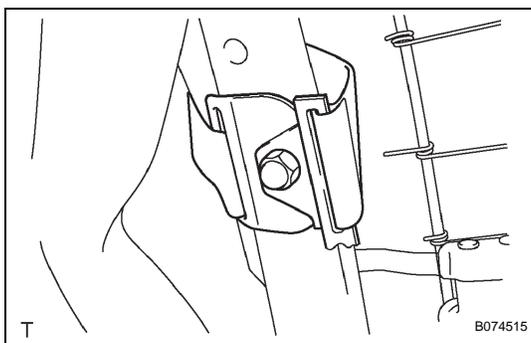
- (a) w/ Seat heater:
Disconnect the seat heater connectors.
- (b) Disengage the hook and remove the hog rings and seat cushion cover together with the pad from the seat adjuster.
- (c) Remove the hog rings and cushion cover.

9. REMOVE FRONT SEAT CUSHION HEATER ASSEMBLY LH (w/ Seat Heater System)

- (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.****10. REMOVE FRONT SEATBACK COVER LH**

- (a) Remove the hog rings. Then open the lower part of the seatback cover.
- (b) Remove the 2 headrest supports.



- (c) Remove the nut and seatback cover bracket.
- (d) Remove the hog rings and seatback cover together with the pad from the seat adjuster.
- (e) Remove the hog rings and seatback cover.

11. REMOVE FRONT SEATBACK HEATER ASSEMBLY LH (w/ Seat Heater System)

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

NOTICE:**Be careful not to damage the seatback cover.****12. REMOVE RECLINING ADJUSTER INSIDE COVER RH**

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

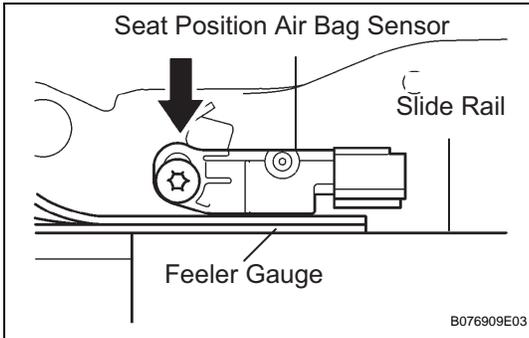
13. REMOVE RECLINING ADJUSTER INSIDE COVER LH

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

14. REMOVE FRONT SEAT CUSHION SHIELD LOWER RH (for Driver Side)**15. REMOVE FRONT SEAT CUSHION SHIELD LOWER LH (for Driver Side)**

16. REMOVE VERTICAL ADJUSTER SPACER (for Driver Side)**17. REMOVE SEAT POSITION AIRBAG SENSOR**

- (a) Disconnect the wire harness connector.
- (b) Disengage the claw and remove the seat slide position protector.
- (c) Using a torx socket wrench (T30), remove the torx bolt and airbag sensor.

**REASSEMBLY****1. INSTALL SEAT POSITION AIRBAG SENSOR**

- (a) Temporarily install the seat position airbag sensor.
- (b) Install a 1 mm (0.04 in.) feeler gauge between the slide rail and sensor as shown in the illustration.

HINT:

Make sure that the clearance between the seat position airbag sensor and the slide rail is within 0.6 mm (0.023 in.) to 2.0 mm (0.079 in.).

NOTICE:

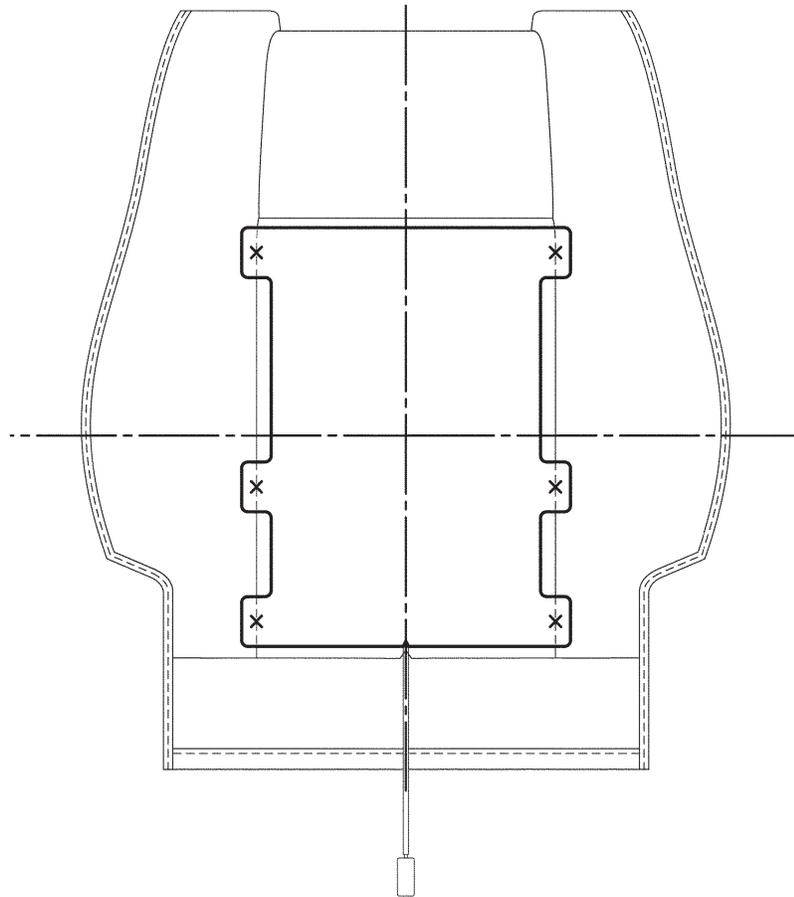
- If the seat position airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace the seat position airbag sensor with a new one.
 - When installing the seat position airbag sensor, make sure that the SRS wiring does not interfere with other parts and is not pinched between other parts.
- (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) Install the seat slide position protector.
 - (e) Connect the wire harness connector.

2. INSTALL FRONT SEATBACK HEATER ASSEMBLY LH (w/ Seat Heater System)

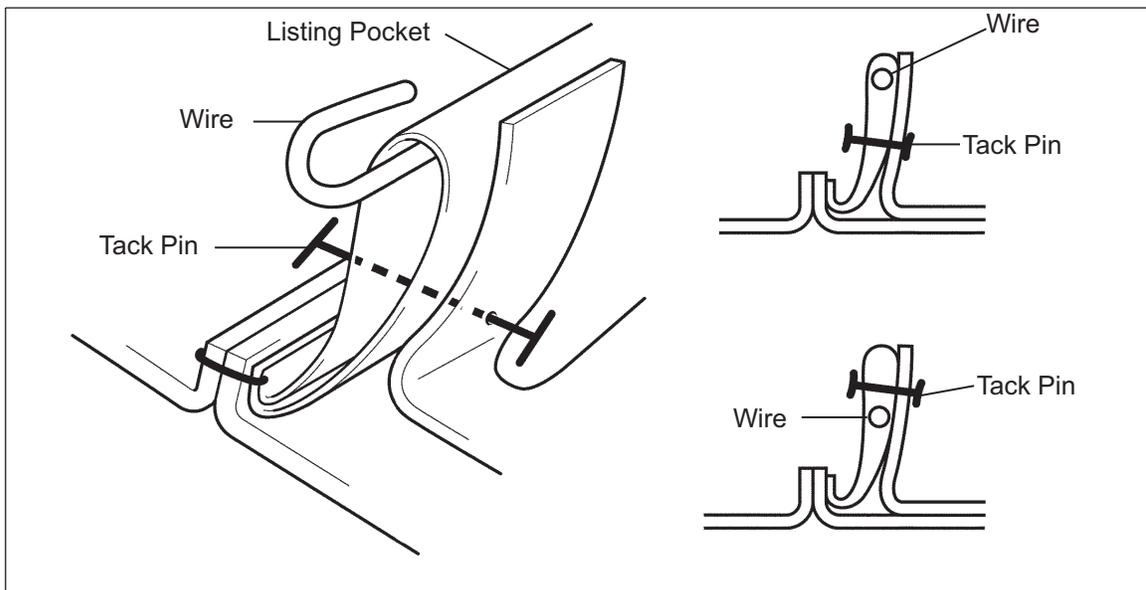
- (a) Set the seat heater to the seatback cover.

- (b) Using a tacker, install the front seat heater to the seatback cover with the 6 tack pins as shown in the illustration.

SE



X: Tack Pin



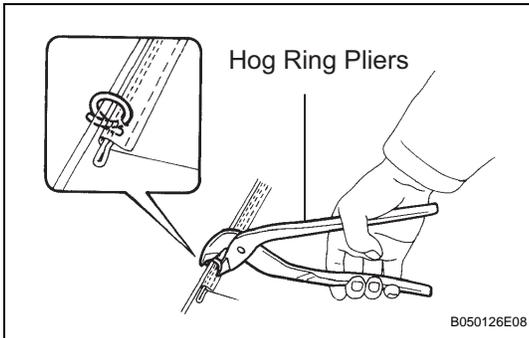
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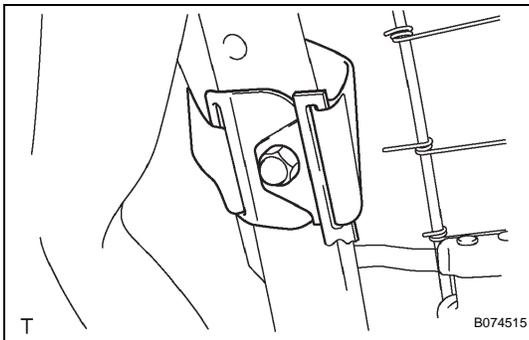
NOTICE:
Do not substitute other metal parts for tack pins.

3. INSTALL FRONT SEATBACK COVER LH**NOTICE:**

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



- Using hog ring pliers, install the seatback cover to the seatback pad with new hog rings.
- Install the seatback pad with cover to the seat adjuster.
- Install the 2 headrest supports.

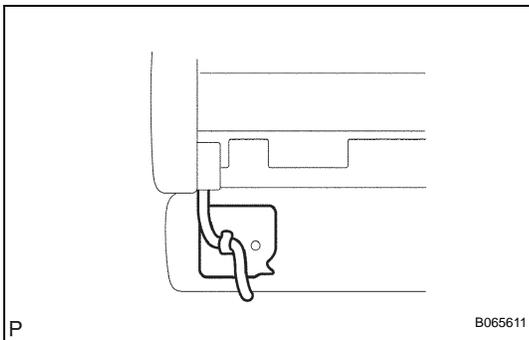


- Fully cover the airbag with the seatback cover bracket and tighten the nut.

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

NOTICE:

- For vehicles with side airbags, the seatback cover must be securely installed. Otherwise, the side airbag may not deploy properly.
- Make sure that the strap is not twisted after installing the bracket.
- Install the bracket securely.



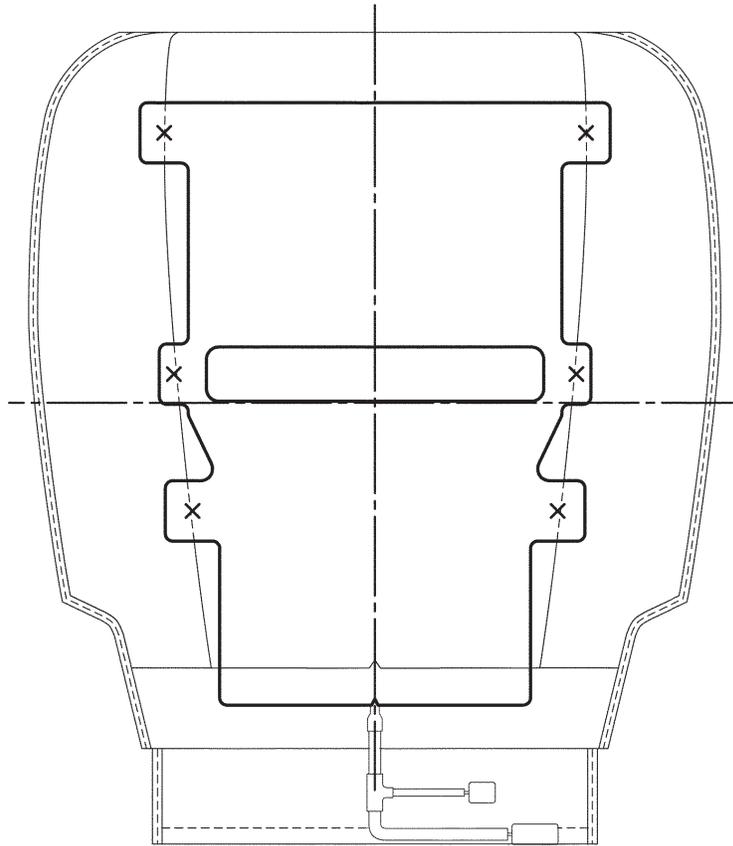
- Install the wire harness and clamp of the side airbag through the seat cushion cover end.
- Using hog ring pliers, finish installing the seatback cover with new hog rings.

4. INSTALL FRONT SEAT CUSHION HEATER ASSEMBLY LH (w/ Seat Heater System)

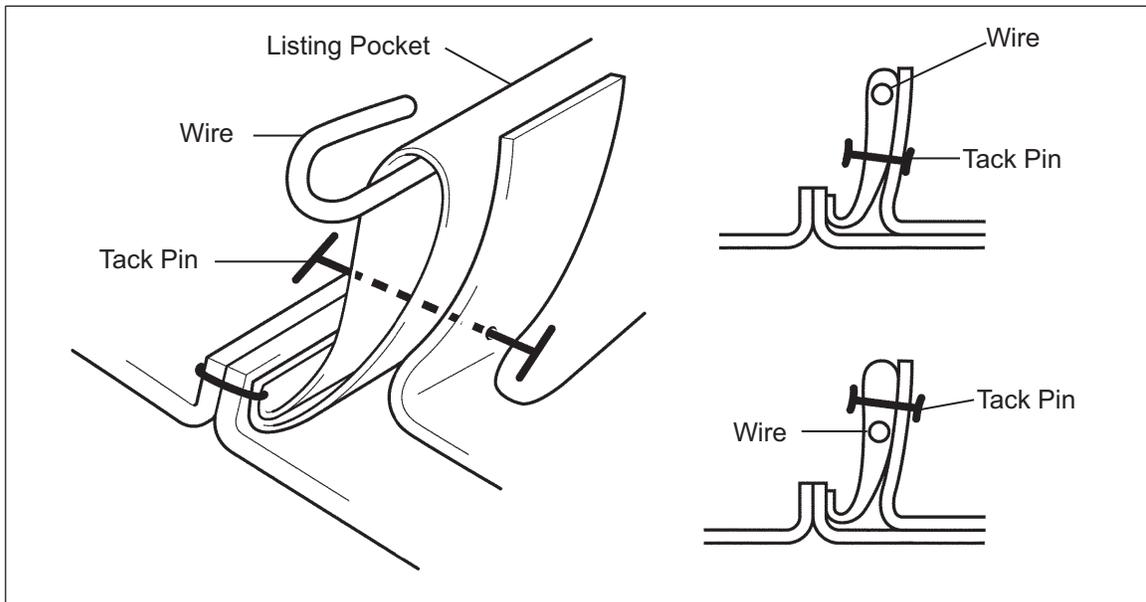
- Set the seat heater to the seat cushion cover.

- (b) Using a tacker, install the seat heater to the seat cushion cover with the 6 tack pins as shown in the illustration.

SE



X: Tack Pin



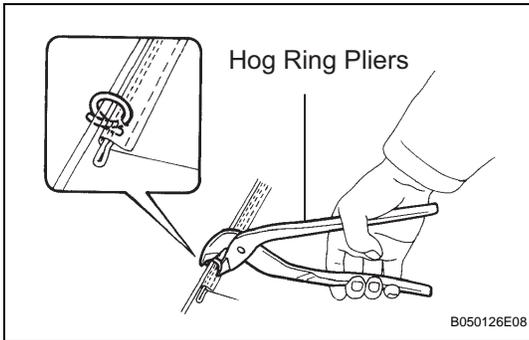
P

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NOTICE:
Do not substitute other metal parts for tack pins.

5. INSTALL FRONT SEAT CUSHION COVER LH**NOTICE:**

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



- (a) Using hog ring pliers, install the seat cushion cover to the seat cushion pad with new hog rings.
- (b) Install the seat cushion pad with cover to the seat adjuster by using hog ring pliers to attach new hog rings and hooks.
- (c) w/ Seat heater:
Connect the connectors.

6. INSTALL FRONT SEAT INNER BELT ASSEMBLY LH

- (a) Install the inner belt LH with the nut.
Torque: 42 N*m (420 kgf*cm, 31 ft.*lbf)
- (b) Connect the connector.

INSTALLATION

1. INSTALL FRONT SEAT ASSEMBLY LH

- (a) Place the seat in the cabin.

NOTICE:

Be careful not to damage the vehicle body.

- (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) When sliding the seat, check that both adjusters lock simultaneously.

HINT:

Check that the seat adjusters lock.

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

2. CONNECT BATTERY NEGATIVE TERMINAL

3. INSPECT SRS WARNING LIGHT

HINT:

See page [RS-30](#)

4. INSPECT SEAT HEATER OPERATION (w/ Seat Heater System)

5. INITIALIZE FRONT PASSENGER OCCUPANT CLASSIFICATION SYSTEM (Passenger seat only)

NOTICE:

Make sure that the seat is not occupied before performing the operation.

HINT:

Perform the zero point calibration and sensitivity check when any of the following conditions is met.

- The occupant classification ECU is replaced.
- Accessories (seatback tray and seat cover, etc.) are installed.
- The passenger seat is removed from the vehicle.
- The passenger airbag ON/OFF indicator light OFF setting stay ON when the passenger seat is not occupied.
- The vehicle is brought to a workshop for repair due to an accident or a collision.

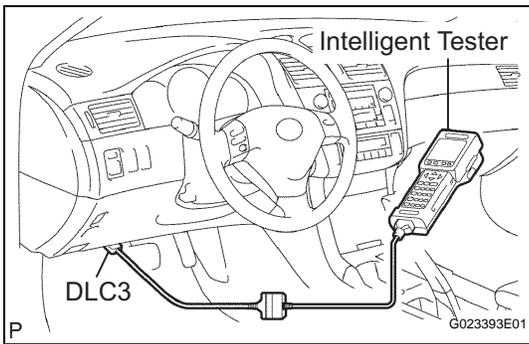
- (a) Zero point calibration and sensitivity check procedures.

HINT:

Make sure that zero point calibration has finished normally, and then perform the sensitivity check.

- (1) Adjust the seat position according to the table below.

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



- (2) Connect the intelligent tester to the DLC3.
- (3) Turn the ignition switch ON.
- (4) Perform the zero point calibration by following the instructions on the tester screen (See page [RS-321](#)).

[System Selection Screen]

"1: DIAGNOSIS" - "1: OBD/MOBD" - "MODEL YEAR" - "MODEL SELECTION = CAMRY SOLARA" - Select the option parts - "9: OCCUPANT DETECT" - "5: ZERO CALIBRATION"

HINT:

Refer to the intelligent tester operator's manual for further details.

OK:

"COMPLETE" is displayed.

- (5) Perform the sensitivity check by following the instructions on the tester screen (See page [RS-185](#)).

[System Selection Screen]

"DIAGNOSIS" - "OBD/MOBD" - "MODEL YEAR" - "MODEL SELECTION = CAMRY SOLARA" - Select the option parts - "OCCUPANT DETECT" - "SENSITIVITY CHK"

- (6) Confirm the sensor reading.

Standard value:

-3.2 to 3.2 kg (-7 to 7 lb)

- (7) Place a 30 kg (66.14 lb) weight (for example, a 30 kg (66.14 lb) lead mass) onto the passenger seat.

- (8) Confirm that the sensitivity is within the standard value.

Standard value:

27 to 33 kg (59.52 to 72.75 lb)

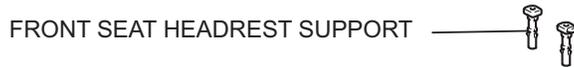
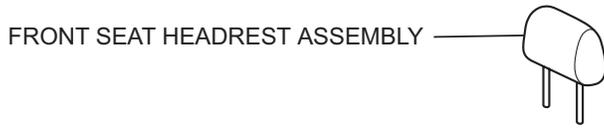
HINT:

- When performing the sensitivity check, use a solid weight made from metal. The check results may not be accurate if liquid is used as a weight.
- When the sensitivity deviates from the standard value, retighten the bolts of the passenger seat taking care not to deform the seat rail. After performing this procedure, if the sensitivity is not within the standard value, replace the seat adjuster frame assembly.
- When zero point calibration has not finished normally, replace the seat adjuster frame assembly.

FRONT SEAT ASSEMBLY (for Manual Seat)

COMPONENTS

SE

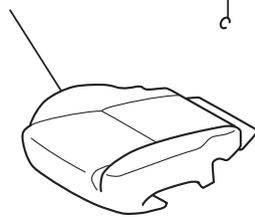


FRONT SEATBACK PAD

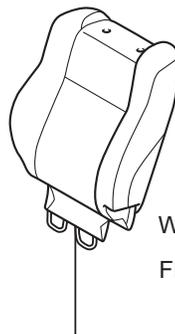


FRONT SEAT CUSHION COVER LH

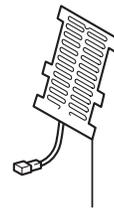
● HOG RING



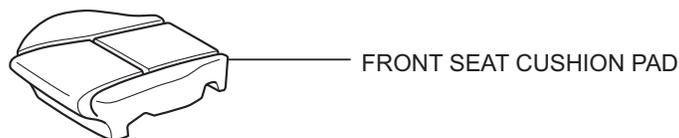
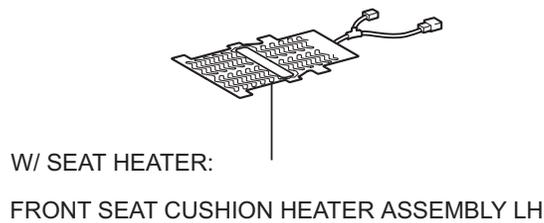
● HOG RING



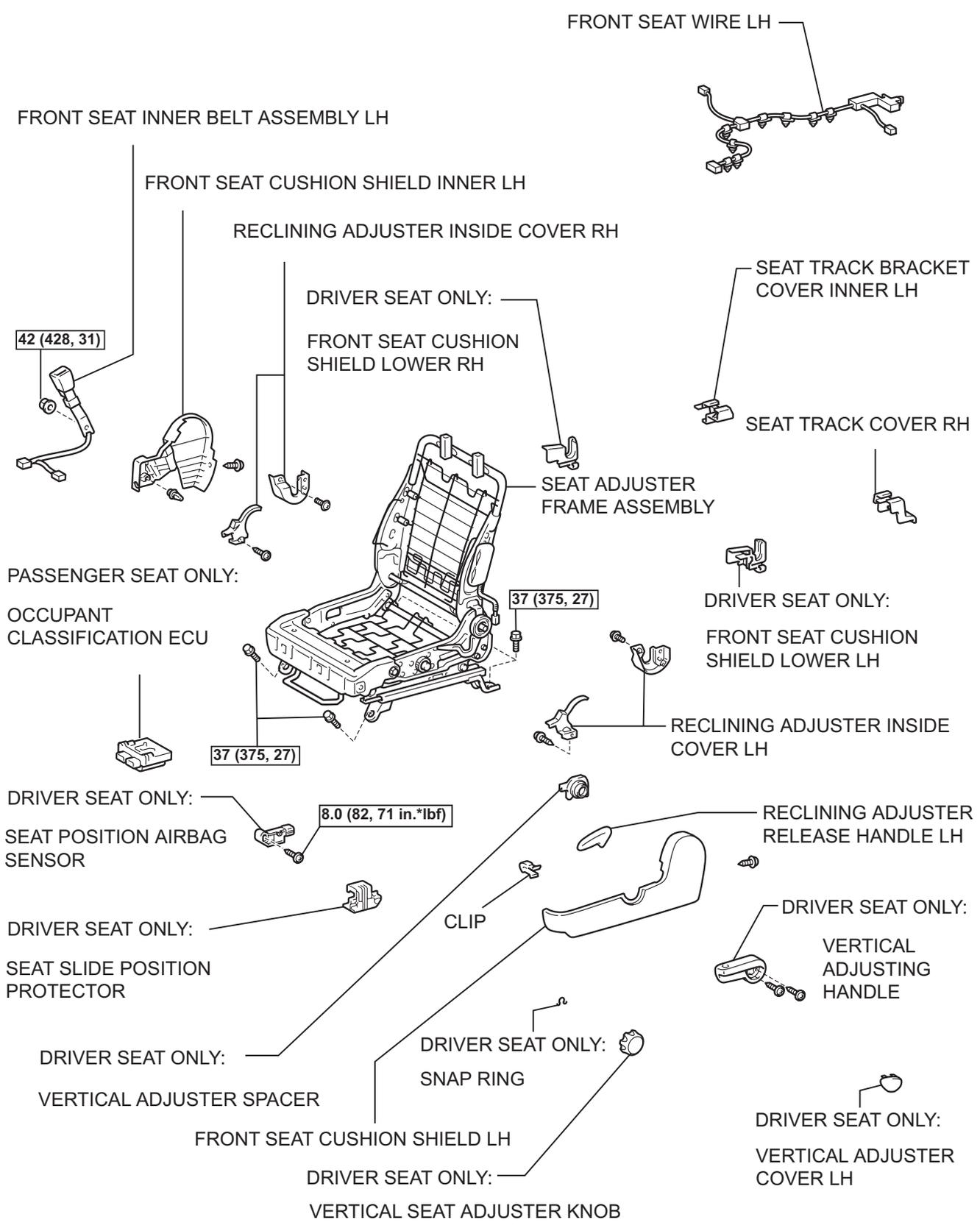
W/ SEAT HEATER:
FRONT SEATBACK HEATER ASSEMBLY LH



FRONT SEATBACK COVER LH



● Non-reusable part



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

REMOVAL

CAUTION:

Wear safety gloves, because the sharp surfaces of the seat adjuster may injure your hand.

NOTICE:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- A bolt without a torque specification is shown in the standard bolt chart.

1. REMOVE SEAT TRACK COVER RH
2. REMOVE SEAT TRACK BRACKET COVER INNER LH
3. REMOVE FRONT SEAT ASSEMBLY 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 negative battery's terminal.

CAUTION:

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 turning the ignition switch to the Lock position and disconnecting the negative (-) terminal cable of the battery, the SRS may deploy.)

- (d) Disconnect the connectors under the seat and remove the seat.

NOTICE:

Be careful not to damage the vehicle body.

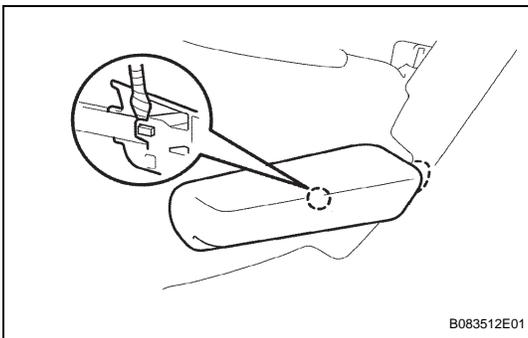
DISASSEMBLY

1. REMOVE RECLINING ADJUSTER RELEASE HANDLE LH

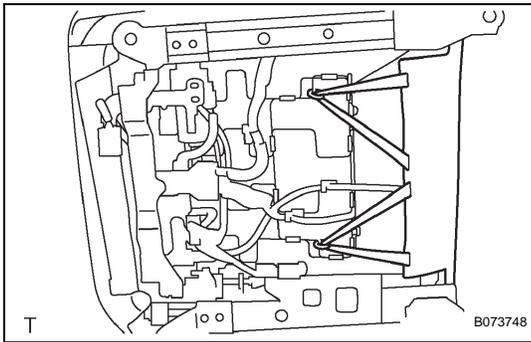
- (a) Raise the reclining adjuster release handle to reveal a claw. Use a screwdriver to disengage the claw and remove the release handle.

HINT:

Tape the screwdriver tip before use.



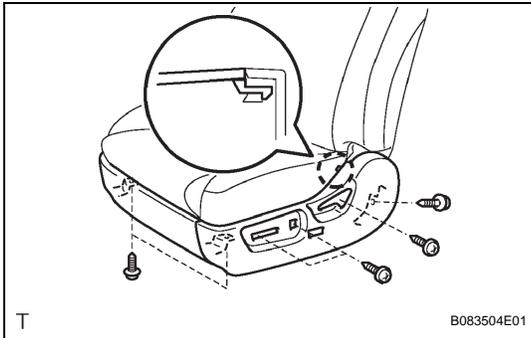
B083512E01

**2. REMOVE FRONT SEAT CUSHION SHIELD LH**

- (a) Remove the 2 rubber bands from the back of the front seatback cover.
- (b) Using a screwdriver, pry out the 2 power seat switch knobs.

HINT:

Tape the screwdriver tip before use.

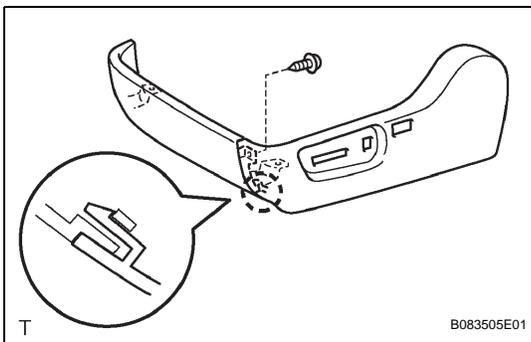


- (c) Remove the 6 screws.
- (d) Using a screwdriver, disengage the claws and remove the cushion shield together with the cushion shield inner No. 1.

HINT:

Tape the screwdriver tip before use.

- (e) Disconnect the connectors of the power seat switch.

**3. REMOVE FRONT SEAT CUSHION SHIELD INNER NO.1 LH**

- (a) Remove the screw.
- (b) Using a screwdriver, disengage the claws and remove the cushion shield inner No. 1 from the cushion shield.

HINT:

Tape the screwdriver tip before use.

4. REMOVE FRONT SEAT INNER BELT ASSEMBLY LH

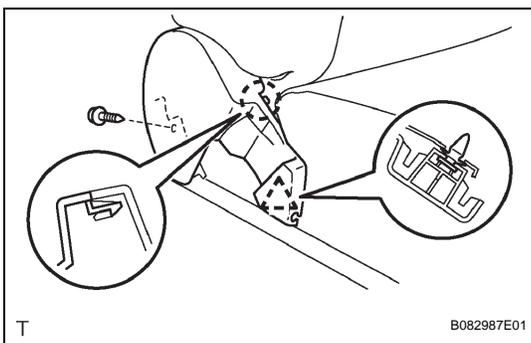
- (a) Disconnect the connectors.
- (b) Remove the nut and inner belt.

5. 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.

**6. REMOVE FRONT POWER SEAT SWITCH**

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

7. REMOVE POWER SEAT SWITCH ASSEMBLY

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

8. REMOVE FRONT SEAT CUSHION COVER LH

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

SE

9. REMOVE FRONT SEAT CUSHION HEATER ASSEMBLY LH (w/ Seat Heater System)

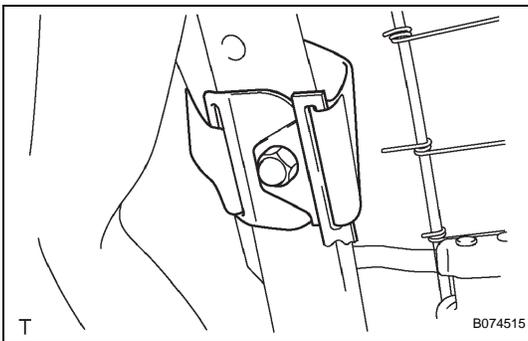
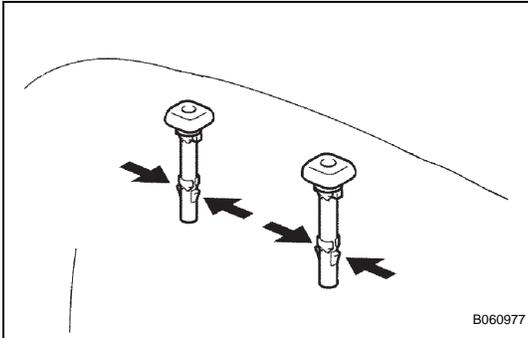
- (a) Cut off the tack pins which fasten the seat heater, and then remove the seat heater from the seat cushion cover.

NOTICE:

Be careful not to damage the seat cushion cover.

10. REMOVE FRONT SEATBACK COVER LH

- (a) Remove the hog rings. Then open the lower part of the seatback cover.
- (b) Remove the 2 headrest supports.



- (c) Remove the nut and seatback cover bracket.
- (d) Remove the hog rings and seatback cover together with the pad from the seat adjuster.
- (e) Remove the hog rings and seatback cover.

11. REMOVE FRONT SEATBACK HEATER ASSEMBLY LH (w/ Seat Heater System)

- (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.

12. REMOVE LUMBAR SUPPORT ADJUSTER ASSEMBLY LH

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

13. REMOVE RECLINING ADJUSTER INSIDE COVER RH

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

14. REMOVE RECLINING ADJUSTER INSIDE COVER LH

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

15. REMOVE VERTICAL ADJUSTER BRACKET COVER LH

- (a) Remove the screw and vertical adjuster cover.

16. REMOVE VERTICAL ADJUSTER BRACKET COVER OUTER

- (a) Remove the screw and vertical adjuster cover.

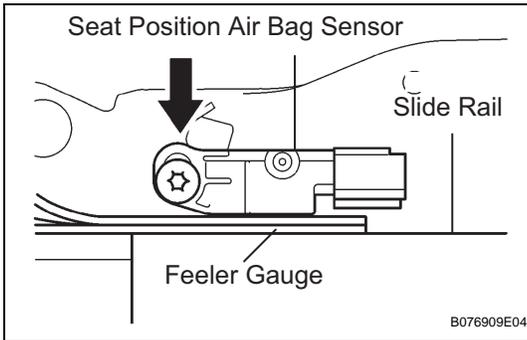
17. REMOVE POWER SEAT MOTOR ASSEMBLY

- (a) Disconnect the connectors.

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

18. REMOVE SEAT POSITION AIRBAG SENSOR

- (a) Disconnect the wire harness connector.
 (b) Disengage the claw and remove the seat slide position protector.
 (c) Using a torx socket wrench (T30), remove the torx bolt and airbag sensor.



REASSEMBLY

1. INSTALL SEAT POSITION AIRBAG SENSOR

- (a) Temporarily install the seat position airbag sensor.
 (b) Install a 1 mm (0.04 in.) feeler gauge between the slide rail and sensor as shown in the illustration.

HINT:

Make sure that the clearance between the seat position airbag sensor and the slide rail is within 0.6 mm (0.023 in.) to 2.0 mm (0.079 in.).

NOTICE:

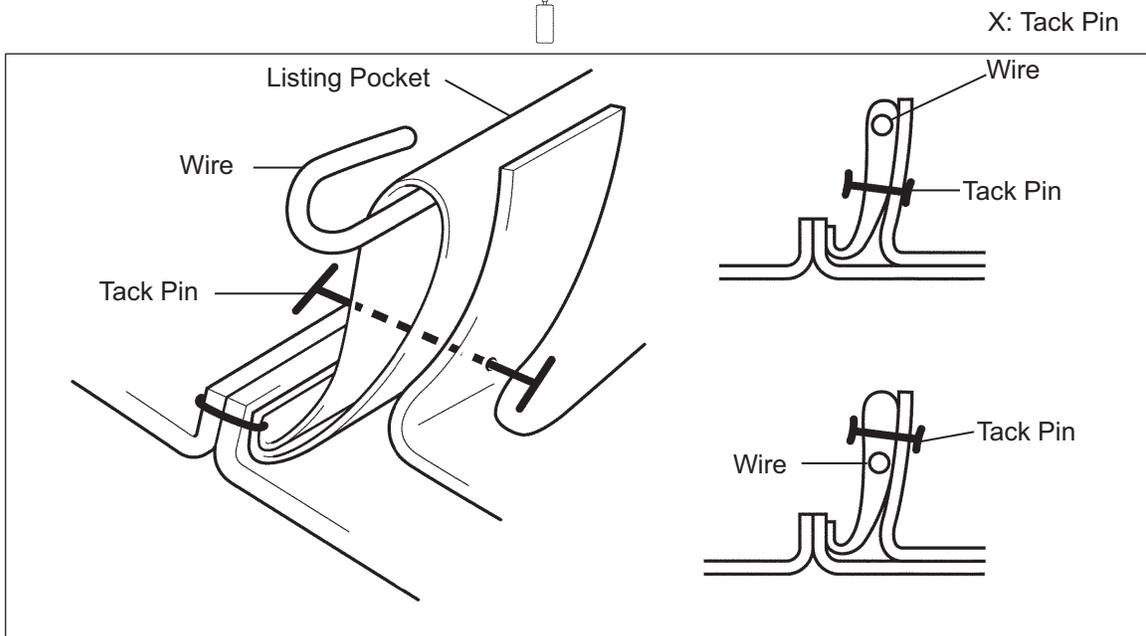
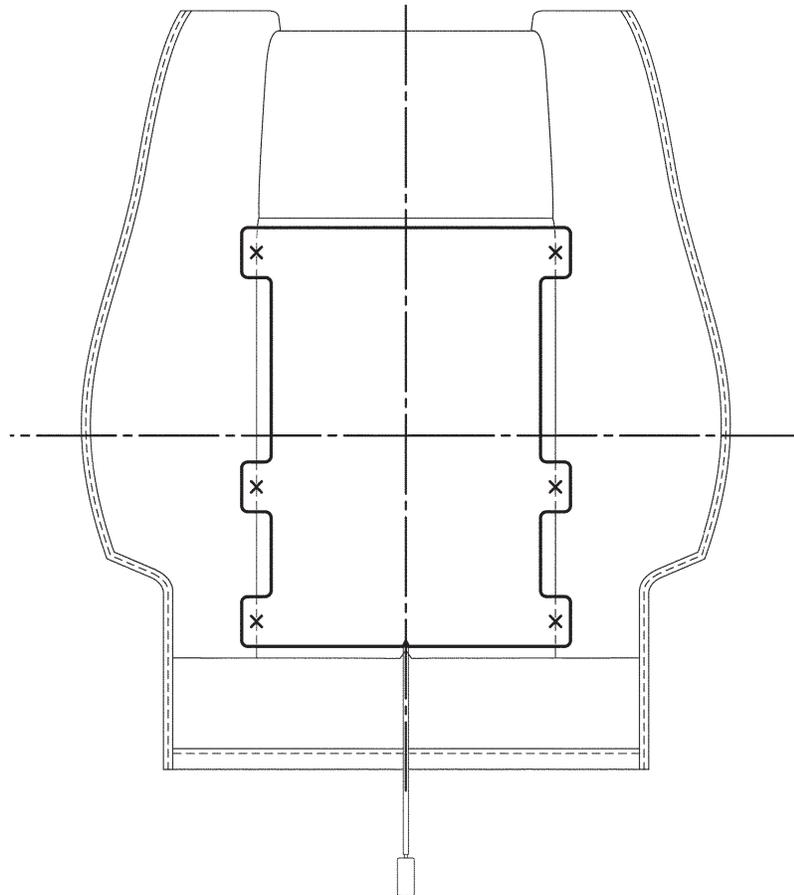
- If the seat position airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace the seat position airbag sensor with a new one.
 - When installing the seat position airbag sensor, make sure that the SRS wiring does not interfere with other parts and is not pinched between other parts.
- (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) Install the seat slide position protector.
 (e) Connect the wire harness connector.

2. INSTALL FRONT SEATBACK HEATER ASSEMBLY LH (w/ Seat Heater System)

- (a) Set the seat heater to the seatback cover.

- (b) Using a tacker, install the front seat heater to the seatback cover with the 6 tack pins as shown in the illustration.

SE



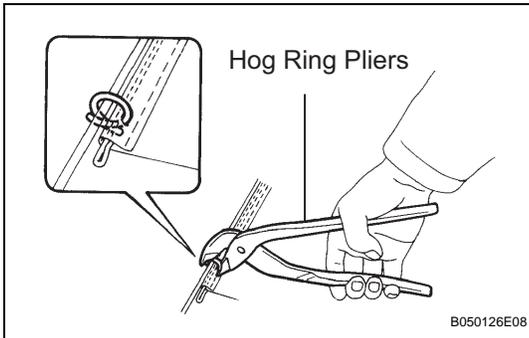
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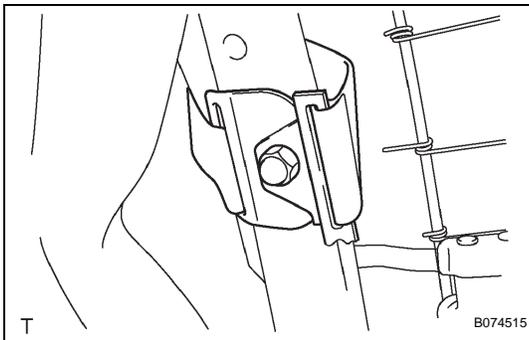
NOTICE:
Do not substitute other metal parts for tack pins.

3. INSTALL FRONT SEATBACK COVER LH**NOTICE:**

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



- Using hog ring pliers, install the seatback cover to the seatback pad with new hog rings.
- Install the seatback pad with cover to the seat adjuster.
- Install the 2 headrest supports.

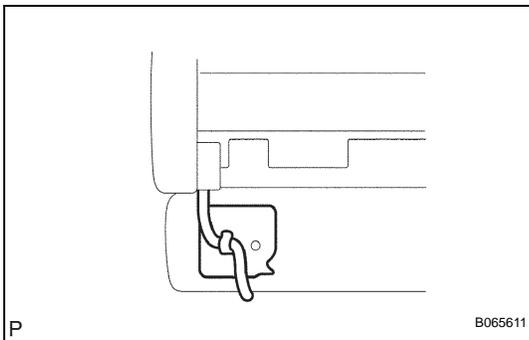


- Fully cover the airbag with the seatback cover bracket and tighten the nut.

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

NOTICE:

- For vehicles with side airbags, the seatback cover must be securely installed. Otherwise, the side airbag may not deploy properly.
- Make sure that the strap is not twisted after installing the bracket.
- Install the bracket securely.

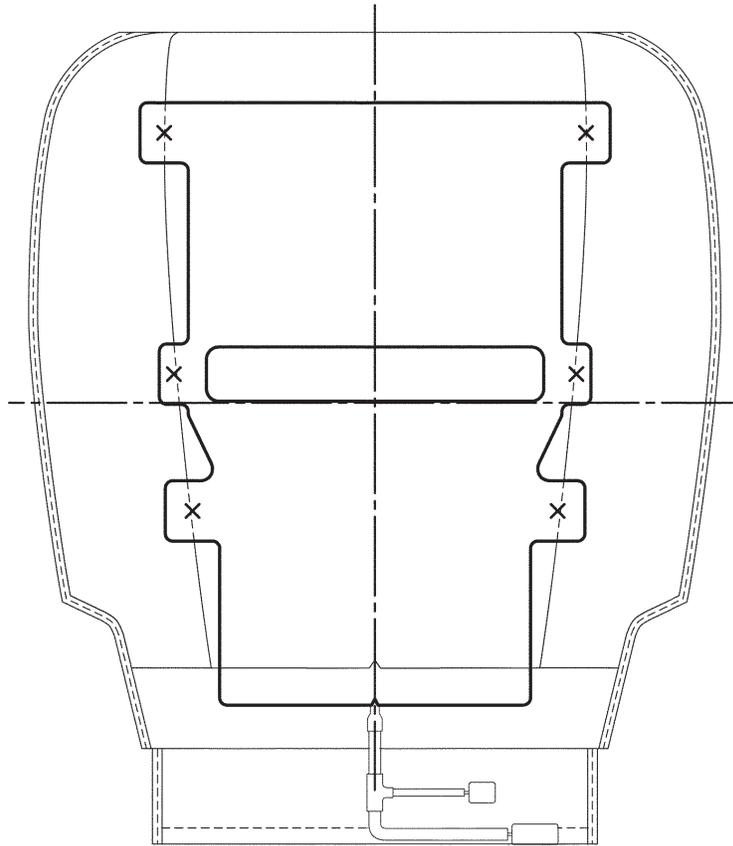


- Install the wire harness and clamp of the side airbag through the seat cushion cover end.
- Using hog ring pliers, finish installing the seatback cover with new hog rings.

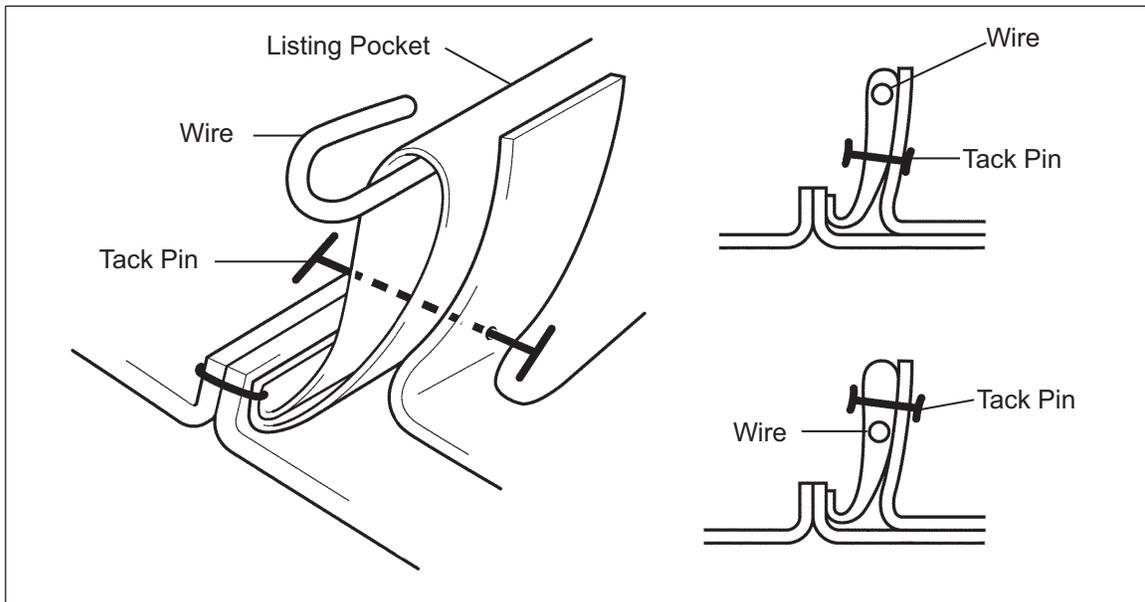
4. INSTALL FRONT SEAT CUSHION HEATER ASSEMBLY LH (w/ Seat Heater System)

- Set the seat heater to the seat cushion cover.

- (b) Using a tacker, install the seat heater to the seat cushion cover with the 6 tack pins as shown in the illustration.



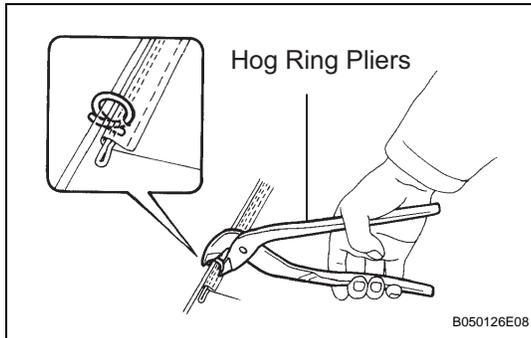
X: Tack Pin



NOTICE:
Do not substitute other metal parts for tack pins.

5. INSTALL FRONT SEAT CUSHION COVER LH**NOTICE:**

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



- (a) Using hog ring pliers, install the seat cushion cover to the seat cushion pad with new hog rings.
- (b) Install the seat cushion pad with cover to the seat adjuster by using hog ring pliers to attach new hog rings and hooks.
- (c) w/ Seat heater:
Connect the connectors.

6. INSTALL FRONT SEAT INNER BELT ASSEMBLY LH

- (a) Install the inner belt with the nut.
Torque: 42 N*m (420 kgf*cm, 31 ft.*lbf)
- (b) Connect the connector.

INSTALLATION

1. INSTALL FRONT SEAT ASSEMBLY LH

- (a) Place the seat in the cabin.

NOTICE:

Be careful not to damage the vehicle body.

- (b) Connect the connectors under the seat.
- (c) Connect the negative battery's terminal.
- (d) Tighten the 2 bolts on the front side of the seat.
Torque: 37 N*m (375 kgf*cm, 27 ft.*lbf)
- (e) Tighten the 2 bolts on the rear side of the seat.
Torque: 37 N*m (375 kgf*cm, 27 ft.*lbf)
- (f) Install the 2 seat track covers.
- (g) Install the headrest.

2. INSPECT SRS WARNING LIGHT

- (a) Inspect the SRS warning light. (See page [RS-1](#))

3. INSPECT FUNCTION OF POWER SEAT OPERATION

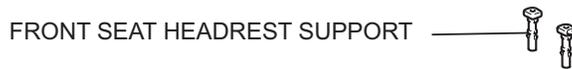
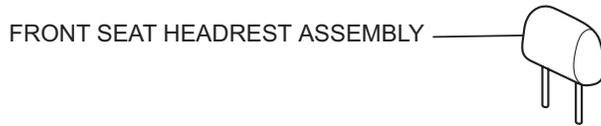
- (a) Inspect the function of power seat operation. (See page [SE-4](#))

4. INSPECT SEAT HEATER OPERATION

FRONT SEAT ASSEMBLY (for Power Seat)

COMPONENTS

SE



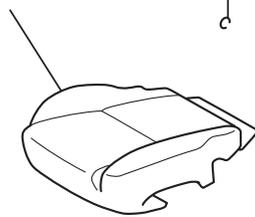
FRONT SEATBACK PAD



● HOG RING

FRONT SEAT CUSHION COVER LH

● HOG RING

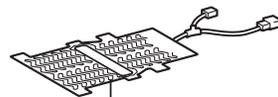


W/ SEAT HEATER:
FRONT SEATBACK HEATER ASSEMBLY LH



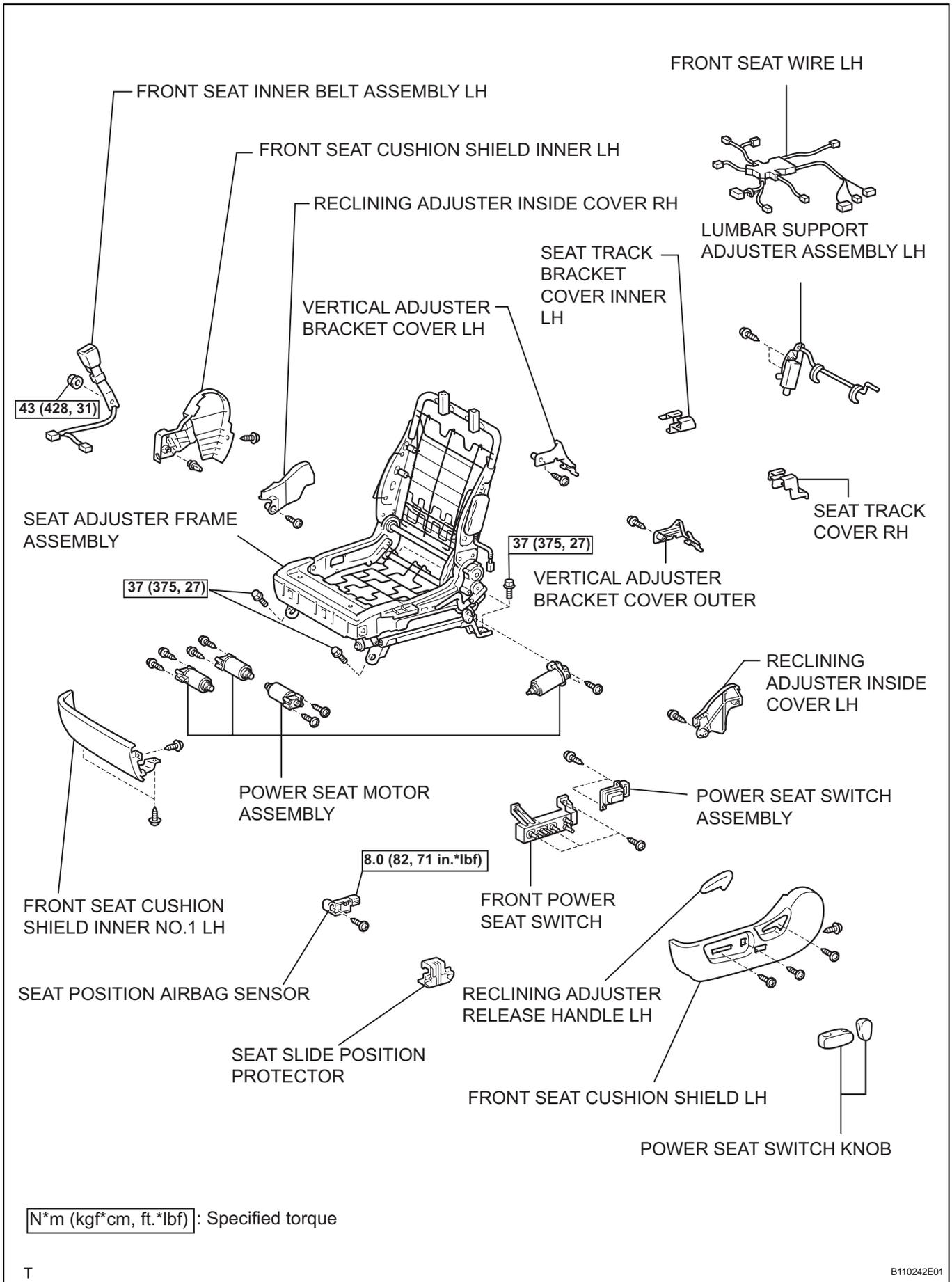
FRONT SEATBACK COVER LH

W/ SEAT HEATER:
FRONT SEAT CUSHION HEATER ASSEMBLY LH



FRONT SEAT CUSHION PAD

● Non-reusable part



REMOVAL

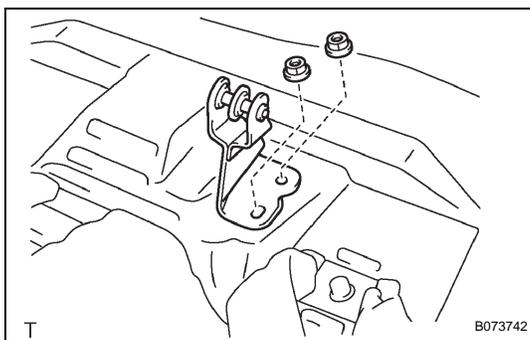
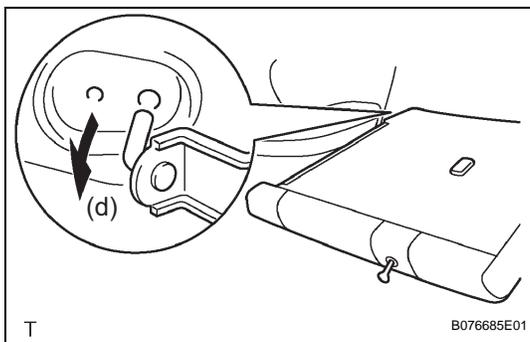
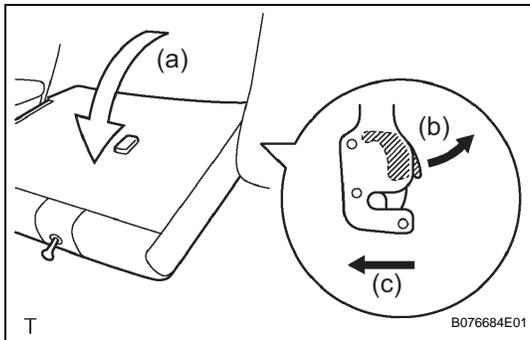
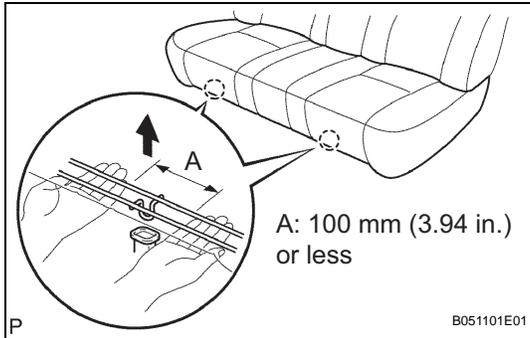
HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- A bolt without a torque specification is shown in the standard bolt chart (See page [SS-2](#)).

CAUTION:

Wear protective gloves. Sharp surfaces on the seatback frame can cause injuries to your hands.

SE



1. REMOVE REAR SEAT CUSHION ASSEMBLY

- (a) Pull up the 2 front portions of the seat cushion, then remove it.

NOTICE:

The cushion frame deforms easily. To avoid deforming the seat cushion, place your hands near the hook as shown in the illustration, and then pull up on the seat cushion. Do the same for the other hook.

2. REMOVE REAR SEAT HEADREST ASSEMBLY

3. REMOVE REAR SEATBACK ASSEMBLY RH

- (a) Fully fold down the seatback forward.
 (b) Pull back the spring loaded hammer.
 (c) While holding back the hammer, pull the seat towards the front of the vehicle.

- (d) Pull the seatback hinge RH and remove the seatback.

4. REMOVE REAR SEATBACK ASSEMBLY LH

HINT:

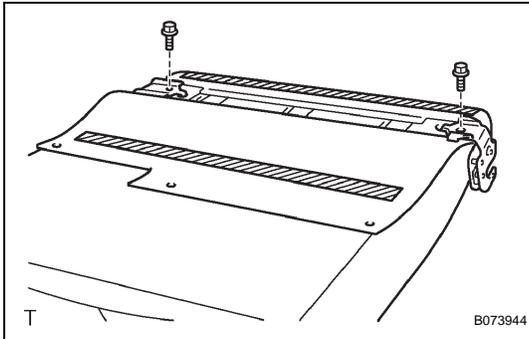
Use the same procedures described for the RH side.

5. REMOVE REAR SEATBACK HINGE

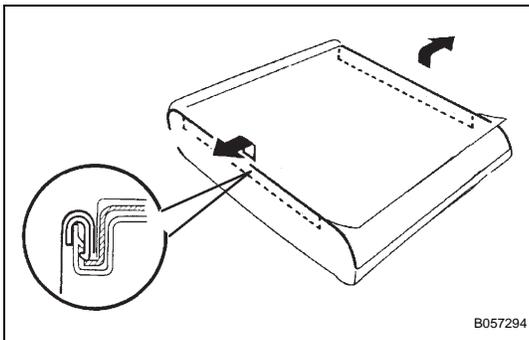
- (a) Remove the 2 nuts and seatback hinge.

DISASSEMBLY

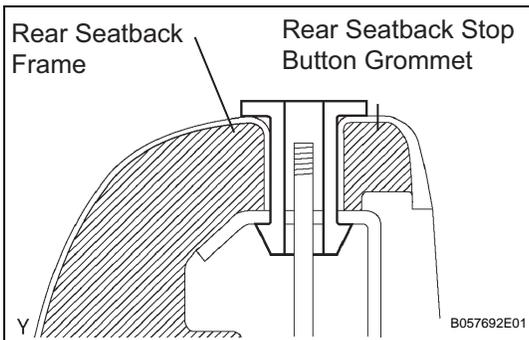
1. **REMOVE REAR SEAT SHOULDER BELT GUIDE RH**
 - (a) Remove the 2 screws and belt guide
2. **REMOVE REAR SEATBACK LOCK CONTROL BEZEL RH**
 - (a) Remove the screw and bezel.



3. **REMOVE REAR SEATBACK COVER RH**
 - (a) Lift up the seatback cover.
 - (b) Remove the 2 bolts, rear seatback hinge RH and rear seatback hinge center.
 - (c) Remove the rear seatback lock release button.



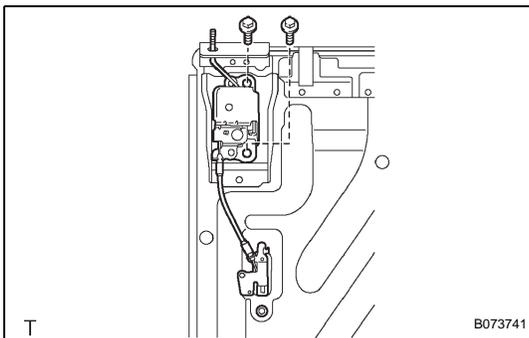
- (d) Disengage the back cover side and then turn up the rear seatback carpet.
- (e) Remove the hog rings and hold up the seatback frame to remove the 2 headrest supports.

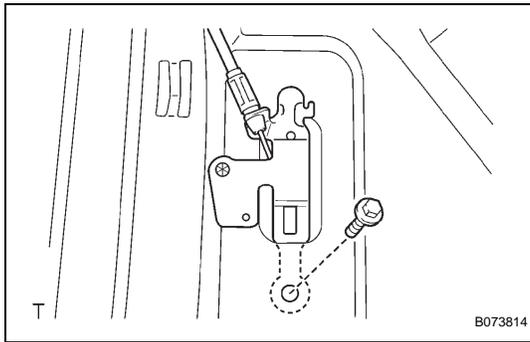


- (f) Disengage the claw and remove the rear seatback stop button grommet.
- (g) Remove the rear seatback cover together with the seatback pad from the seatback frame.
- (h) Remove the hog rings and seatback cover.

4. **REMOVE REAR SEATBACK LOCK SUB-ASSEMBLY RH**

- (a) Remove the 2 bolts.





- (b) Remove the bolt and seatback lock through the service hole.

5. REMOVE REAR BACK LOCK CONTROL LEVER SUB-ASSEMBLY RH

6. REMOVE REAR SEATBACK LOCK CONTROL CABLE SUB-ASSEMBLY RH

7. REMOVE REAR SEAT SHOULDER BELT GUIDE CENTER

- (a) Remove the rear seatback lock release button.
 (b) Remove the 2 screws and belt guide.

8. REMOVE REAR SEAT SHOULDER BELT GUIDE LH

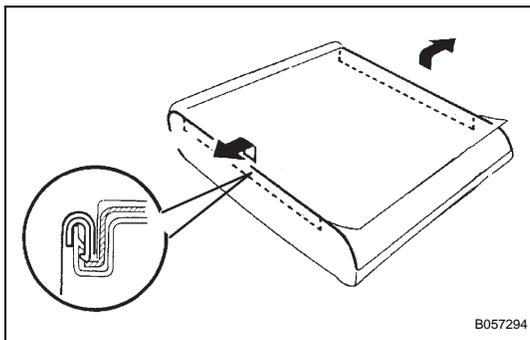
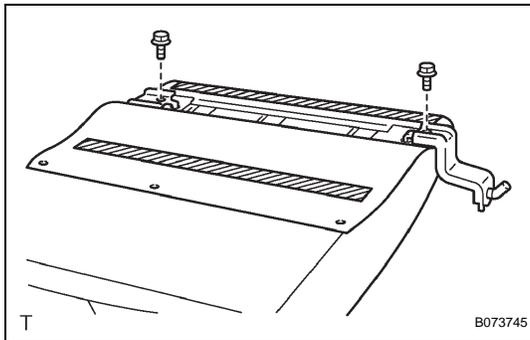
- (a) Remove the 2 screws and shoulder belt guide.

9. REMOVE REAR SEATBACK LOCK CONTROL BEZEL LH

- (a) Remove the screw and bezel.

10. REMOVE REAR SEATBACK COVER LH

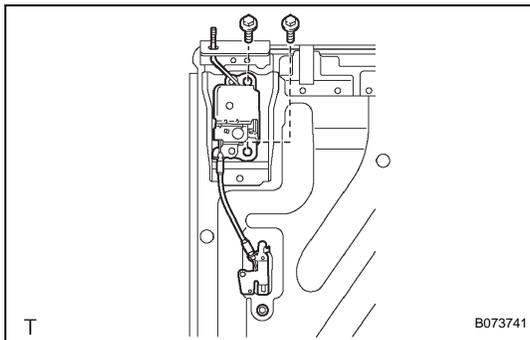
- (a) Remove the 2 bolts, rear seatback hinge LH and rear seatback hinge center.
 (b) Lift up the seatback cover.

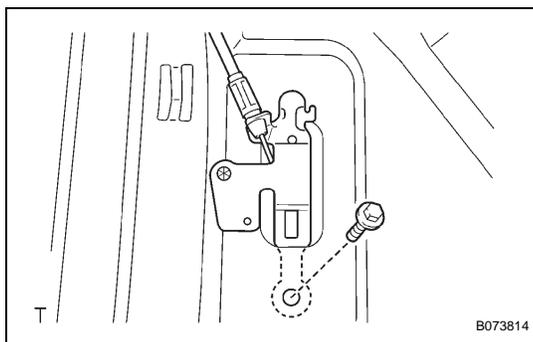


- (c) Disengage the back cover side and then turn up the rear seatback carpet.
 (d) Remove the hog rings and hold up the seatback frame to remove the 2 headrest supports.
 (e) Remove the rear seatback cover together with the seatback pad from the seatback frame.
 (f) Remove the hog rings and seatback cover.

11. REMOVE REAR SEAT BACK LOCK SUB-ASSEMBLY LH

- (a) Remove the 2 bolts.





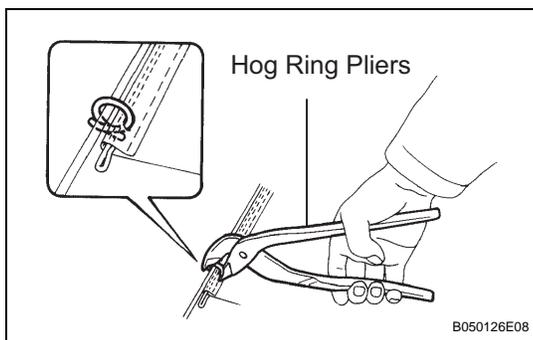
- (b) Remove the bolt and seatback lock through the service hole.

12. REMOVE REAR BACK LOCK CONTROL LEVER SUB-ASSEMBLY LH

13. REMOVE REAR SEATBACK CONTROL CABLE SUB-ASSEMBLY LH

14. REMOVE SEAT CUSHION COVER

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



REASSEMBLY

1. INSTALL REAR SEAT CUSHION COVER

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

NOTICE:

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

2. INSTALL REAR SEATBACK LOCK SUB-ASSEMBLY LH

- (a) Install the seatback lock with the 2 bolts.
Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)

3. INSTALL REAR SEATBACK LOCK SUB-ASSEMBLY RH

- (a) Install the seatback lock with the 2 bolts.
Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)

4. INSTALL REAR SEATBACK COVER LH

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

NOTICE:

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

- (b) Install the seatback pad with cover to the seatback frame.

- (c) Install the 2 headrest supports.

- (d) Using hog ring pliers, install the seatback cover to the seatback frame 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) Install the rear seatback hinge LH and rear seat hinge center with the 2 bolts.

Torque: 18 N*m (185 kgf*cm, 13 ft.*lbf)

5. INSTALL REAR SEATBACK COVER RH

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

NOTICE:

- Be careful not to damage the cover.

- **When installing the hog rings, take care to minimize wrinkles as much as possible.**
- (b) Install the seatback pad with cover to the seatback frame.
- (c) Install the 2 headrest supports and the rear seatback stop button grommet.
- (d) Using hog ring pliers, install the seatback cover to the seatback frame 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) Install the rear seatback hinge RH and rear seat hinge center with the 2 bolts.

Torque: 18 N*m (185 kgf*cm, 13 ft.*lbf)

INSTALLATION

1. INSTALL REAR SEATBACK HINGE SUB-ASSEMBLY CENTER

(a) Install the hinge with the 2 nuts.

Torque: 18 N*m (185 kgf*cm, 13 ft.*lbf)

2. INSTALL REAR SEATBACK ASSEMBLY LH

3. INSTALL REAR SEATBACK ASSEMBLY RH

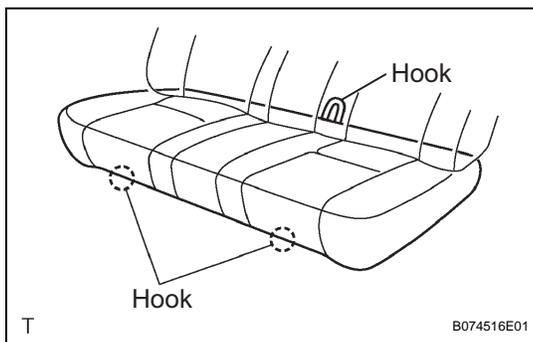
4. INSTALL REAR SEAT CUSHION ASSEMBLY

(a) Attach the seat cushion's 2 front hooks to the rear lock hooks.

(b) Attach the seat cushion's rear hook to the seatback.

HINT:

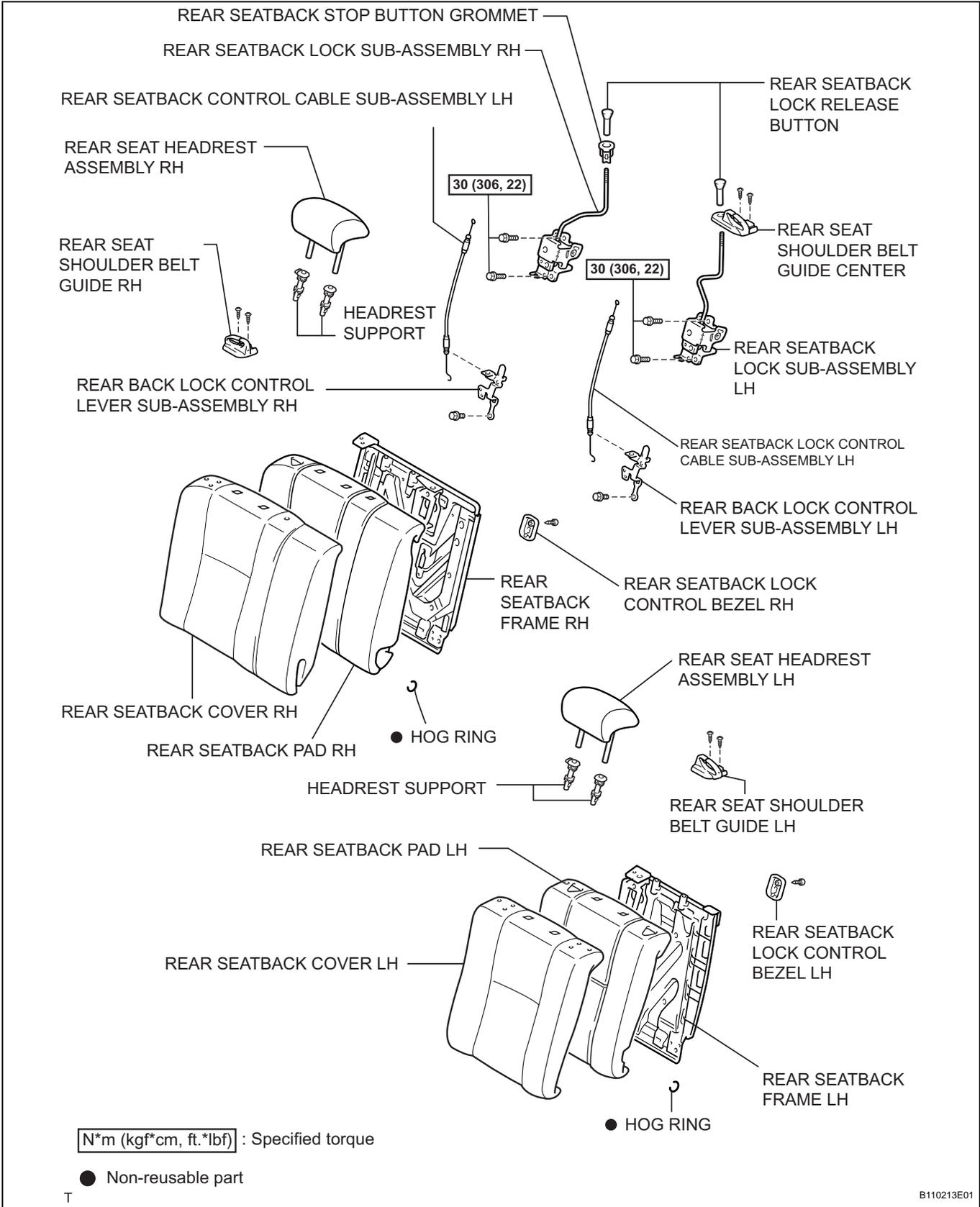
Confirm that the seat cushion is firmly installed.

**SE**

REAR SEAT ASSEMBLY (for Coupe)

COMPONENTS

SE

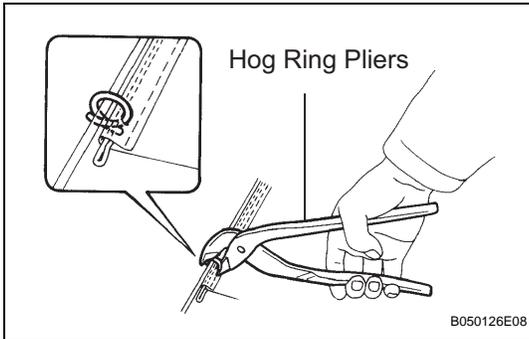


DISASSEMBLY

1. **REMOVE REAR SEAT CUSHION COVER**
 - (a) Remove the hog rings and seat cushion cover from the seat cushion pad.
2. **REMOVE REAR SEATBACK COVER**
 - (a) Remove the hog rings and seatback cover from the seatback pad.

REASSEMBLY

1. **INSTALL REAR SEATBACK COVER**
 - (a) Using hog ring pliers, install the seatback cover to the seatback pad with new hog rings.
NOTICE:
 - **Be careful not to damage the cover.**
 - **When installing the hog rings, take care to minimize wrinkles as much as possible.**
2. **INSTALL REAR SEAT CUSHION COVER**
 - (a) Using hog ring pliers, install the seat cushion cover to the seat cushion pad with new hog rings.
NOTICE:
 - **Be careful not to damage the cover.**
 - **When installing the hog rings, take care to minimize wrinkles as much as possible.**



SE

INSTALLATION

1. INSTALL REAR SEATBACK ASSEMBLY

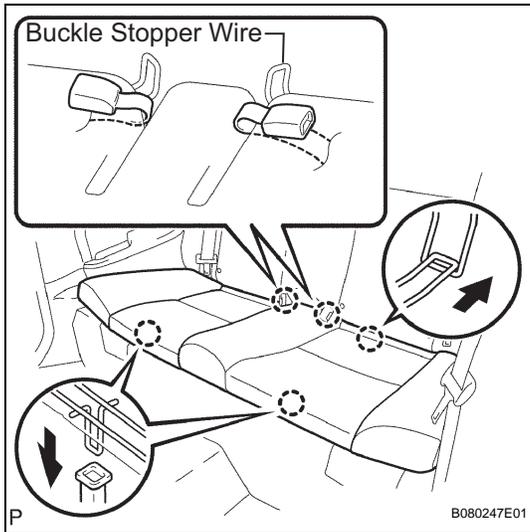
- (a) Install the seatback with the 2 bolts.
Torque: 18.1 N*m (185 kgf*cm, 13 ft.*lbf)
- (b) Install the 2 rear seat outer belt anchors with the 2 bolts.
Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

2. INSTALL REAR SEAT CUSHION ASSEMBLY

- (a) Insert the inner belts through the slits on the seat cushion as shown in the illustration.
- (b) Attach the seat cushion's rear hook to the seatback assy's hook.
- (c) Attach the seat cushion's 2 front hooks to the rear seat cushion lock hooks.

HINT:

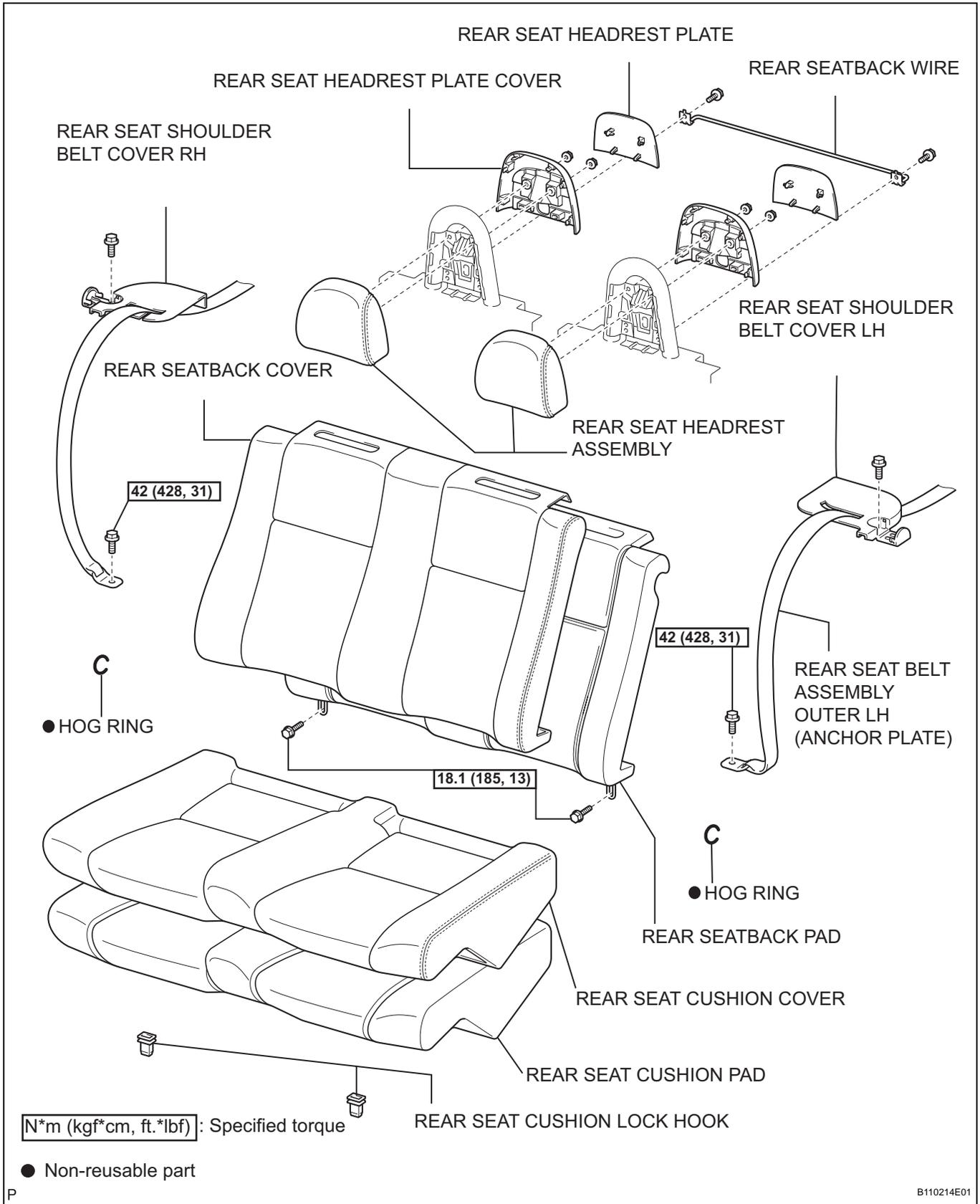
Confirm that the seat cushion is firmly installed.



SE

REAR SEAT ASSEMBLY (for Convertible)

COMPONENTS



REMOVAL

HINT:

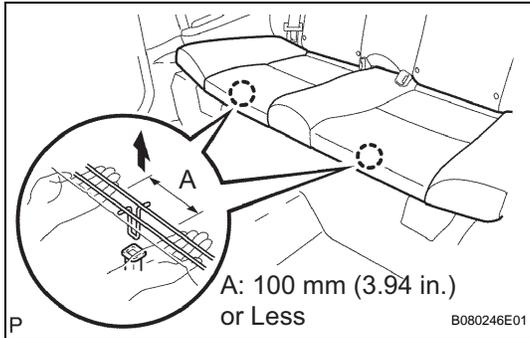
- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- A bolt without a torque specification is shown in the standard bolt chart (See page [SS-2](#)).

1. REMOVE REAR SEAT CUSHION ASSEMBLY

- (a) Pull up the 2 front portions of the seat cushion, then remove it.

NOTICE:

The cushion frame deforms easily. To avoid deforming the seat cushion, place your hands near the hook as shown in the illustration, and then pull up on the seat cushion. Do the same for the other hook.

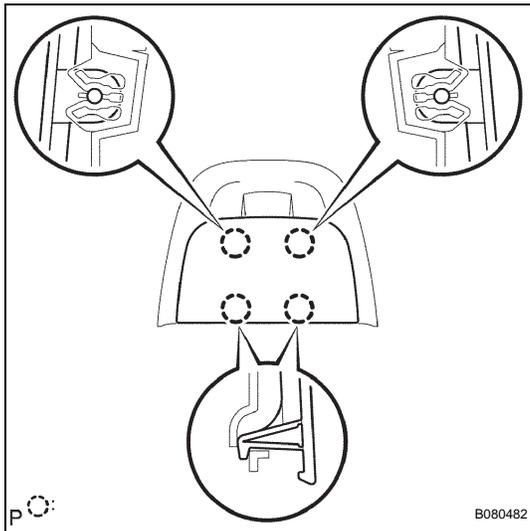


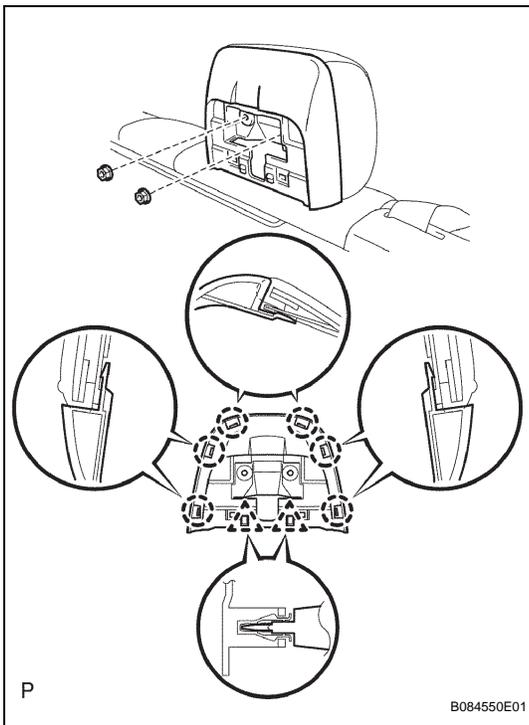
2. REMOVE REAR SEAT HEADREST PLATE COVER

- (a) Using a screwdriver, disengage the 4 claws and remove the plate cover.

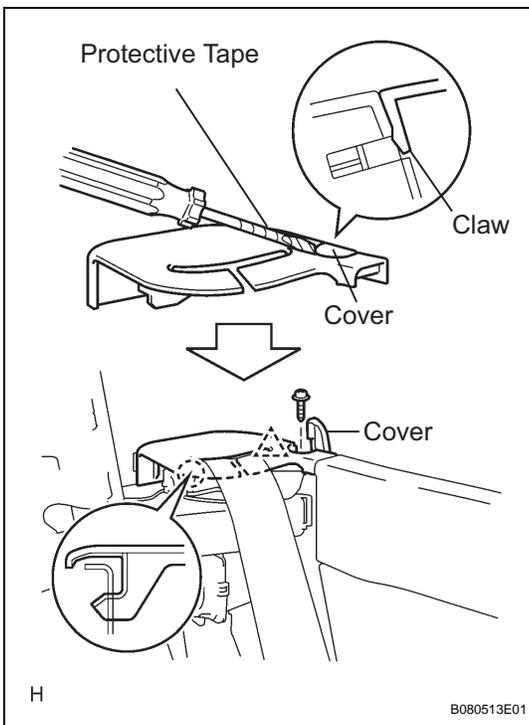
HINT:

Tape the screwdriver tip before use.



**3. REMOVE REAR SEAT HEADREST PLATE**

- (a) Remove the 2 nuts.
- (b) Disengage the 6 claws and 2 clips. Then remove the plate.

4. REMOVE REAR SEAT HEADREST ASSEMBLY**5. REMOVE REAR SEAT SHOULDER BELT COVER LH**

- (a) Using a screwdriver, disengage the claw and turn over the cover.

HINT:

Tape the screwdriver tip before use.

- (b) Remove the screw.
- (c) Using a screwdriver, disengage the clip and claw. Then remove the belt cover.

HINT:

Tape the screwdriver tip before use.

6. REMOVE REAR SEAT SHOULDER BELT COVER RH

HINT:

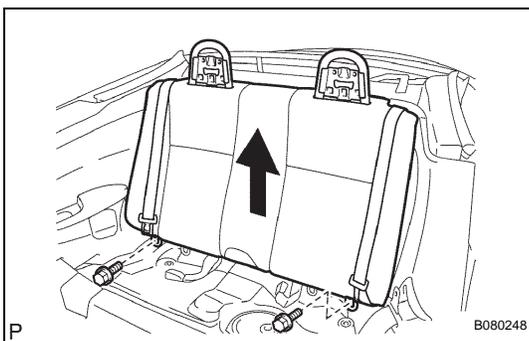
Use the same procedures described for the LH side.

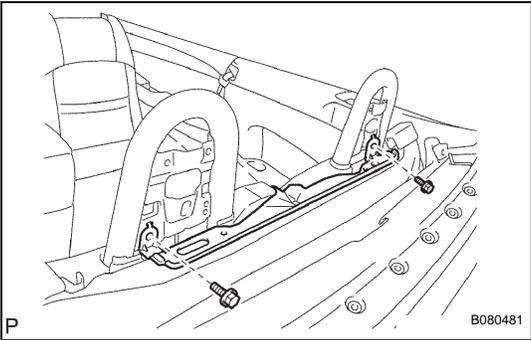
7. REMOVE REAR SEATBACK ASSEMBLY

- (a) Remove the 2 bolts and 2 rear seat outer belt anchors.

- (b) Remove the 2 bolts.

- (c) Remove the seatback in the direction indicated by the arrow in the illustration.





- 8. REMOVE REAR SEATBACK WIRE
 - (a) Remove the 2 bolts and seatback wire.

SE