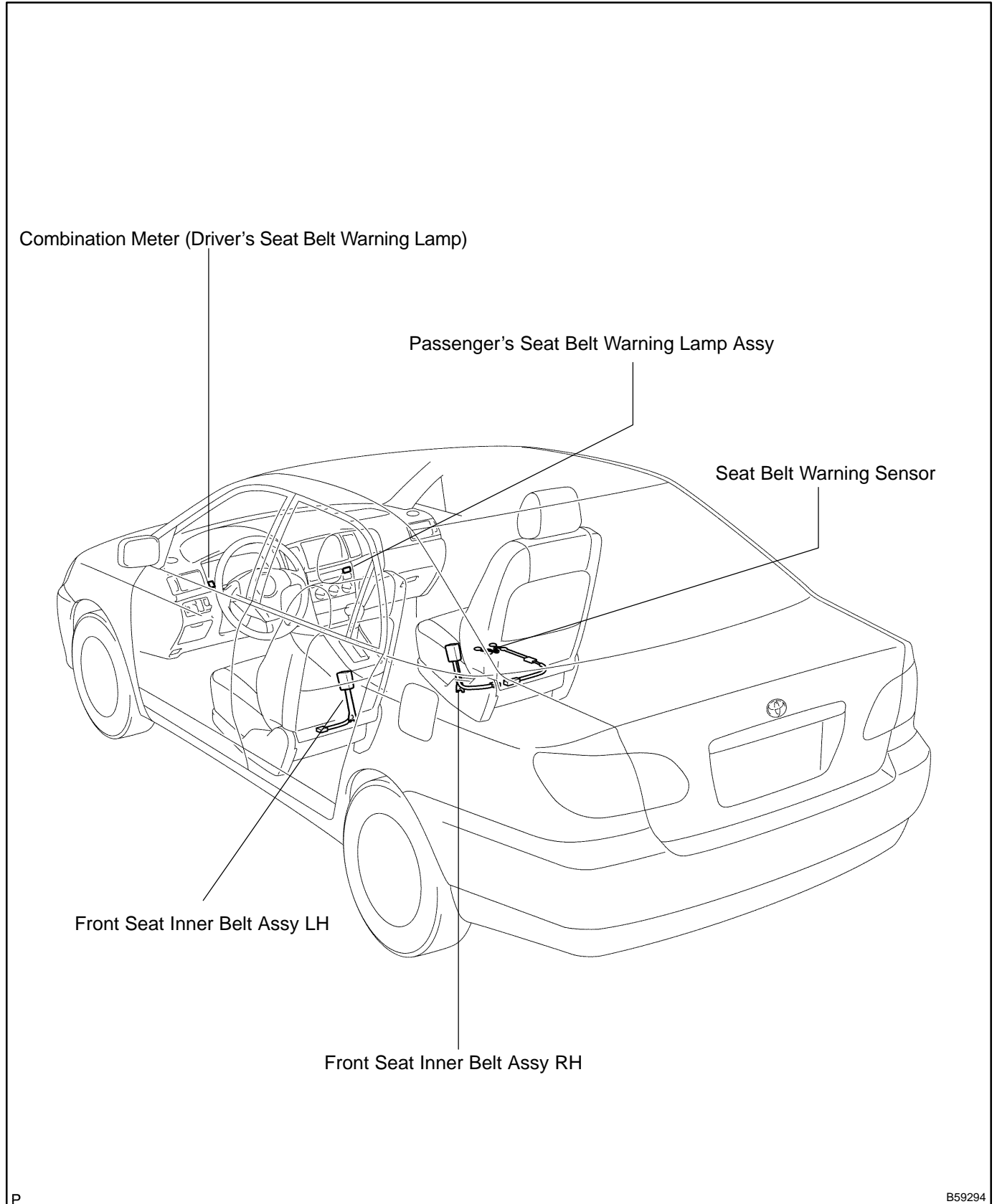


SEAT BELT WARNING SYSTEM LOCATION

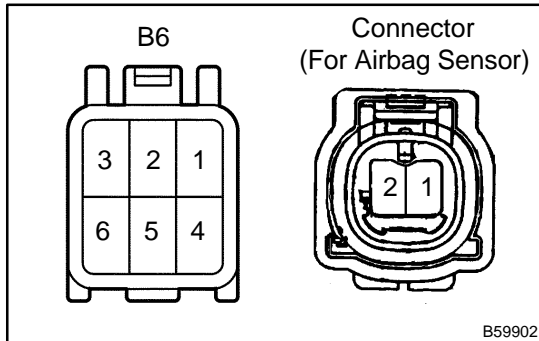
61081-02



PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See page
Driver's seat belt warning lamp does not light up	<ol style="list-style-type: none"> 1. GAUGE fuse 2. Combination meter 3. Airbag sensor assembly center 4. Front seat inner belt assembly LH 5. Wire harness 	<p style="text-align: center;">☒</p> <p style="text-align: center;">71-17</p> <p style="text-align: center;">60-38</p> <p style="text-align: center;">61-3</p> <p style="text-align: center;">☒</p>
Passenger's seat belt warning lamp does not light up	<ol style="list-style-type: none"> 1. GAUGE fuse 2. Passenger's seat belt warning lamp 3. Front seat inner belt assembly RH 4. Wire harness 	<p style="text-align: center;">☒</p> <p style="text-align: center;">61-3</p> <p style="text-align: center;">61-3</p> <p style="text-align: center;">☒</p>

INSPECTION



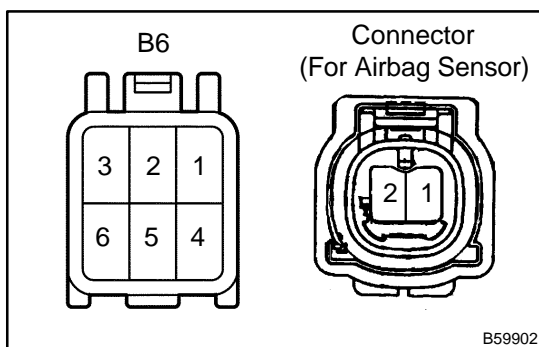
1. INSPECT FRONT SEAT INNER BELT ASSY LH

- (a) When fastening the seat belt (buckle switch ON).
- (1) Inspect the continuity and resistance between the terminals.

Standard:

Terminal No.	Specified condition
B6-1 ↔ B6-2	1,330 Ω
B6-1 ↔ B6-3	No continuity
B6-4 ↔ 2	Continuity
B6-5 ↔ 1	Continuity

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

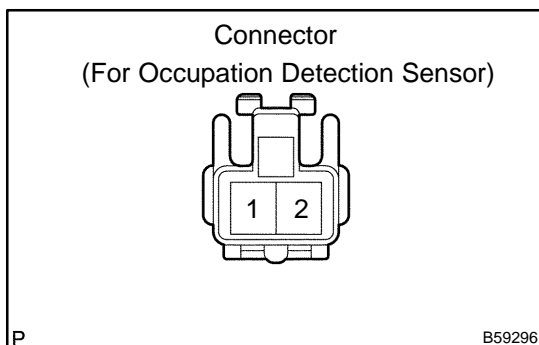


- (b) When releasing the seat belt (buckle switch OFF).
- (1) Inspect the continuity and resistance between the terminals.

Standard:

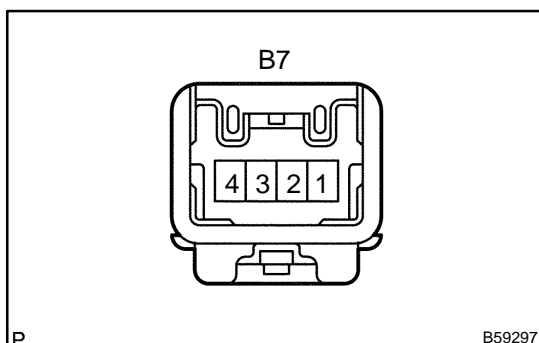
Terminal No.	Specified condition
B6-1 ↔ B6-2	330 Ω
B6-1 ↔ B6-3	Continuity
B6-4 ↔ 2	Continuity
B6-5 ↔ 1	Continuity

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



2. INSPECT FRONT SEAT INNER BELT ASSY RH

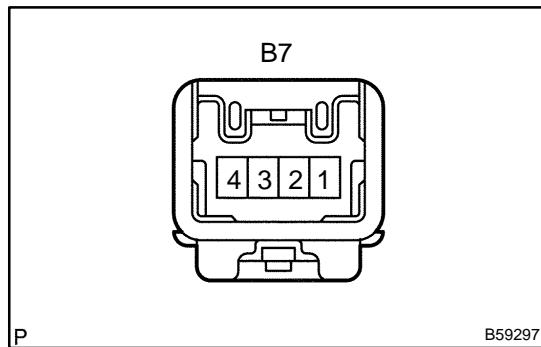
- (a) Short between connector terminals 1 and 2 for the occupation detection sensor (seat is occupied).



- (b) When fastening the seat belt (buckle switch is ON and seat is occupied).
- (1) Inspect the continuity between the terminals of the connector for the warning switch.

Standard:

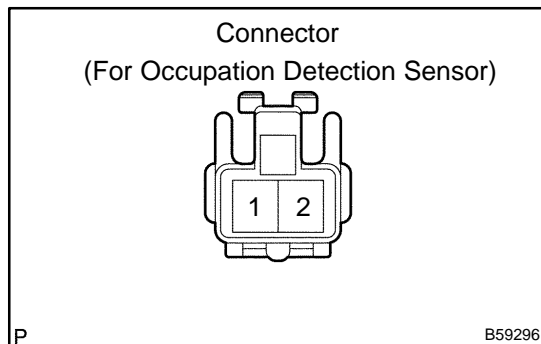
Terminal No.	Specified condition
B7-3 ↔ B7-4	Continuity
B7-1 ↔ B7-4	No continuity



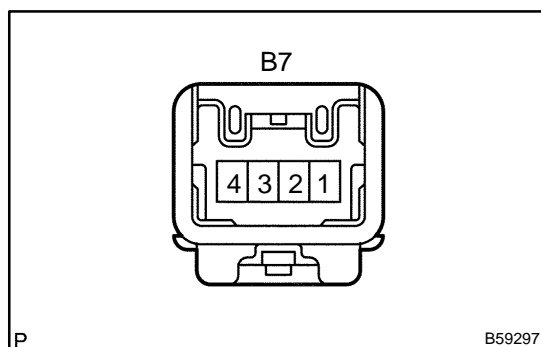
- (c) When releasing the seat belt (buckle switch is OFF and seat is occupied).
- (1) Inspect the continuity between the terminals of the connector for the warning switch.

Standard:

Terminal No.	Specified condition
B7-3 ↔ B7-4	Continuity
B7-1 ↔ B7-2	Continuity



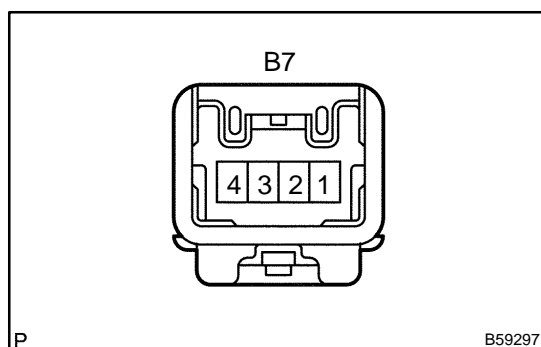
- (d) Disconnect the occupation detection sensor connector (seat is not occupied).



- (e) When fastening the seat belt (buckle switch is not ON and seat is occupied).
- (1) Inspect the continuity between the terminals of the connector for the warning switch.

Standard:

Terminal No.	Specified condition
B7-3 ↔ B7-4	No continuity
B7-1 ↔ B7-2	No continuity



- (f) When releasing the seat belt (buckle switch is not OFF and seat is occupied).
- (1) Inspect the continuity between the terminals of the connector for the warning switch.

Standard:

Terminal No.	Specified condition
B7-3 ↔ B7-4	No continuity
B7-1 ↔ B7-2	Continuity

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

FRONT SEAT BELT

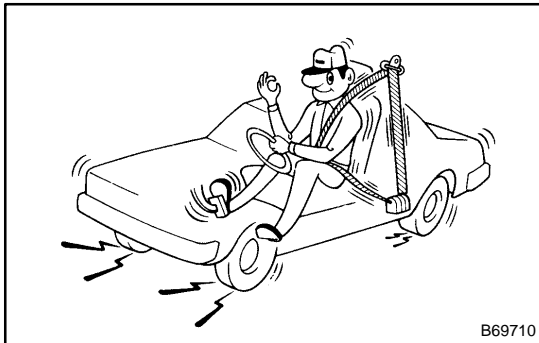
PRECAUTION

610FO-01

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.



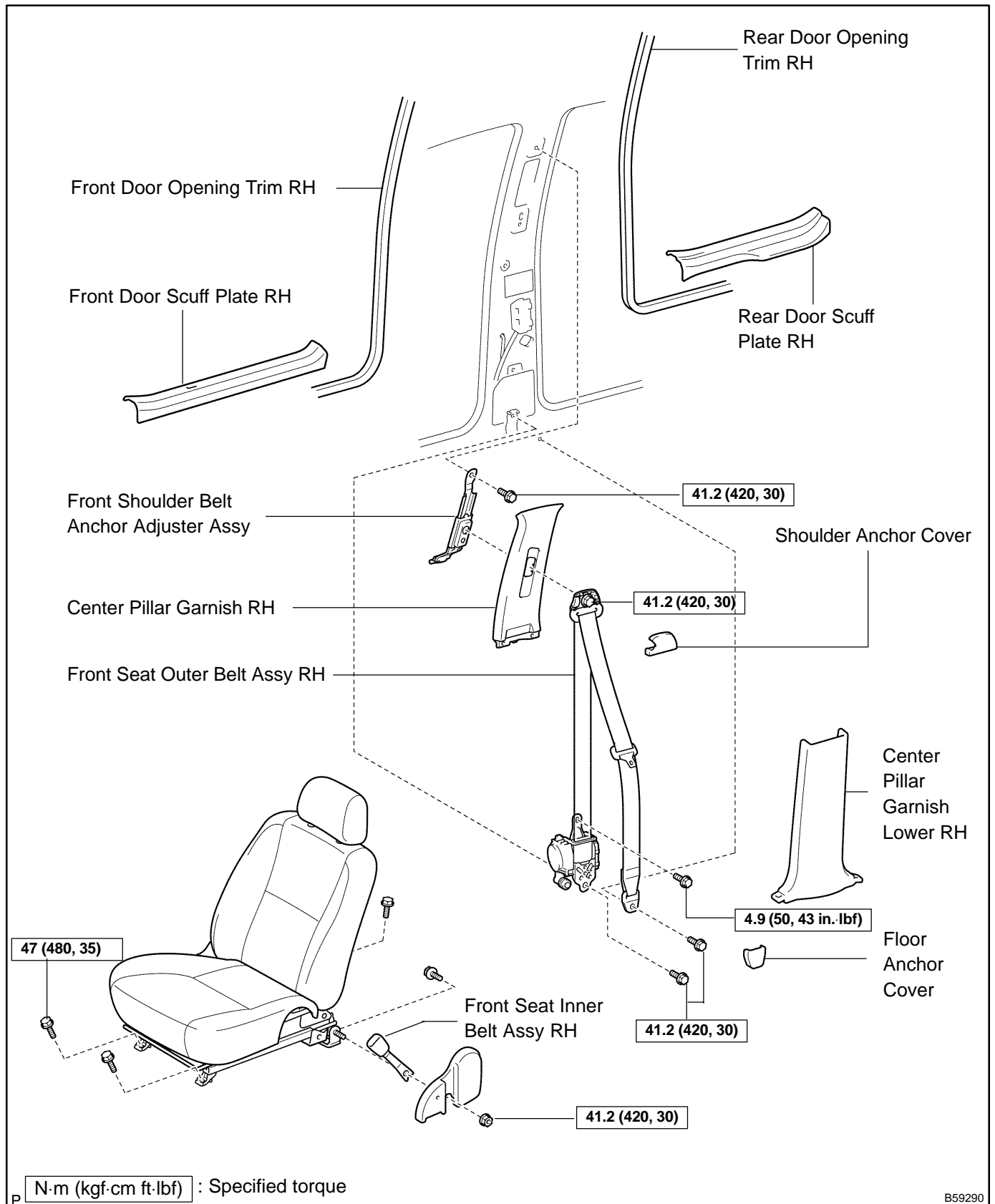
1. RUNNING TEST

- (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.

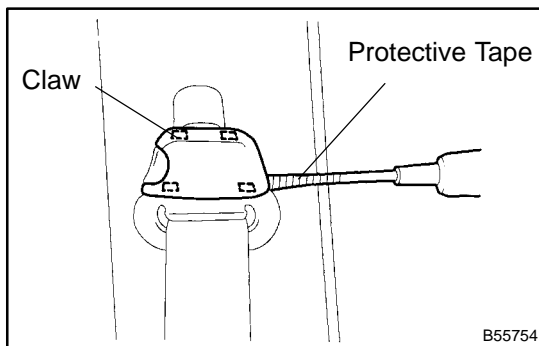
COMPONENTS



REPLACEMENT

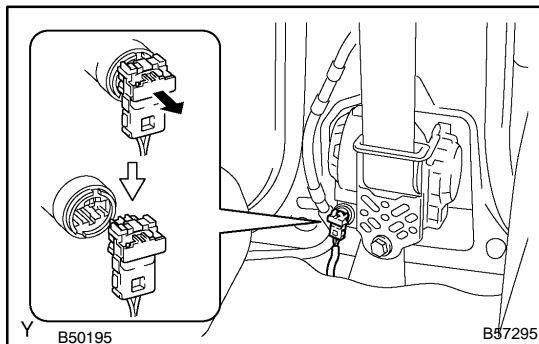
HINT:

- Installation is in the reverse order of the removal. But the installation is indicated only when it has a point.
 - In the LH side, work in the same procedure as in the RH side.
1. **DISCONNECT BATTERY NEGATIVE TERMINAL**
 2. **REMOVE FRONT SEAT ASSEMBLY RH (See page 72-2)**
 3. **REMOVE FRONT SEAT INNER BELT ASSY RH**
 - (a) Remove the nut and front seat inner belt.
 4. **REMOVE FRONT DOOR SCUFF PLATE RH (See page 76-21)**
 5. **REMOVE REAR DOOR SCUFF PLATE RH (See page 76-21)**
 6. **REMOVE FRONT DOOR OPENING TRIM RH**
 7. **REMOVE REAR DOOR OPENING TRIM RH**
 8. **REMOVE CENTER PILLAR GARNISH LOWER RH (See page 76-21)**



9. REMOVE FRONT SEAT OUTER BELT ASSY RH

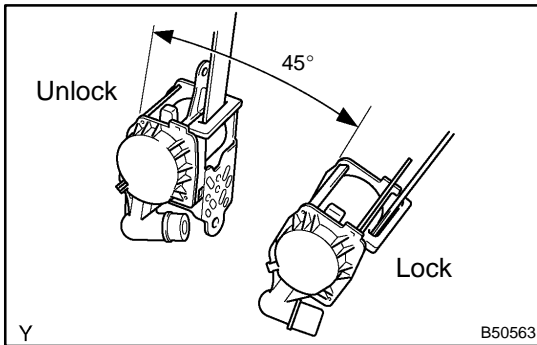
- (a) Remove the floor anchor cover.
 - (b) Remove the bolt and disconnect the front seat outer belt assembly RH (floor anchor side).
 - (c) Using a screwdriver, remove the seat belt anchor cover.
- HINT:
Tape the screwdriver tip before use.
- (d) Remove the bolt and front seat outer belt (shoulder anchor side).



NOTICE:

- Removal operation of the seat belt with pretensioner must be started in 90 seconds or more after the ignition switch is turned OFF and the battery negative terminal is disconnected.
 - Carefully read the notices for the "pretensioner" in the SRS airbag system and front seat outer belt assembly.
- (e) Disconnect the connector and remove the bolt.

10. **REMOVE CENTER PILLAR GARNISH RH (See page 76-21)**
11. **REMOVE FRONT SHOULDER BELT ANCHOR ADJUSTER ASSY**
 - (a) Remove the 2 bolts and front shoulder belt anchor adjuster assembly.
12. **INSTALL FRONT SHOULDER BELT ANCHOR ADJUSTER ASSY**
 - (a) Install the front shoulder belt anchor adjuster assembly with the bolt.
Torque: 41.2 N·m (420 kgf·cm, 30 ft·lbf)



13. INSTALL FRONT SEAT OUTER BELT ASSY RH

NOTICE:

Do not disassemble the retractor.

- (a) Check the degree of tilt when beginning to lock the ELR.
 - (1) Check that the belt will not lock within 15 degrees of tilt in all the direction but the belt will lock over 45 degrees of tilt when moving the installed retractor gently.

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

- (b) Install the retractor with the 2 bolts.

Torque:

4.9 N·m (50 kgf·cm, 43 in·lbf) (Upper part of retractor)

41.2 N·m (420 kgf·cm, 30 ft·lbf) (Lower part of retractor)

- (c) Install the shoulder anchor with the bolt.

Torque: 41.2 N·m (420 kgf·cm, 30 ft·lbf)

- (d) Install the seat belt anchor cover.

- (e) Install the floor anchor with the bolt.

Torque: 41.2 N·m (420 kgf·cm, 30 ft·lbf)

- (f) Install the floor anchor cover.

- (g) Check the ELR lock.

NOTICE:

Check should be performed with the assembly installed.

- (1) Check that the belt will lock when pulling out the belt quickly with the belt installed.

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

14. INSTALL FRONT SEAT INNER BELT ASSY RH

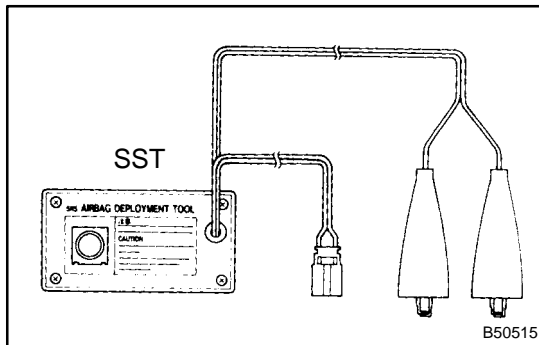
- (a) Install the front seat inner belt assembly RH with the nut.

Torque: 41.2 N·m (420 kgf·cm, 30 ft·lbf)

DISPOSAL

HINT:

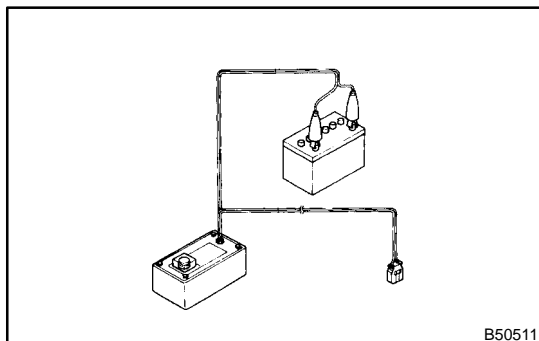
When scrapping vehicles equipped with a seat belt pretensioner or disposing of a front seat outer belt (with seat belt pretensioner) always first activate the seat belt pretensioner in accordance with the procedure described below. If any abnormality occurs in the seat belt pretensioner operation, contact the SERVICE DEPT. of the TOYOTA MOTOR SALES, U.S.A., INC. When disposing of a front seat outer belt (with seat belt pretensioner) activated in a collision, follow the same procedure given in step 1-(e) in "DISPOSAL".



CAUTION:

- Never dispose of front seat outer belt which has an in-activated pretensioner.
- The seat belt pretensioner produces a sizeable exploding sound when it activates, so perform the operation out-of-door and where it will not create a nuisance to nearby residents.
- When activating a front seat outer belt (with seat belt pretensioner), perform the operation 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 activated pretensioner.
- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to a front seat outer belt with activated pretensioner.
- When activating the seat belt pretensioner, always use the specified SST. (SRS Airbag Deployment Tool) Perform the operation in a place away from electrical noise.

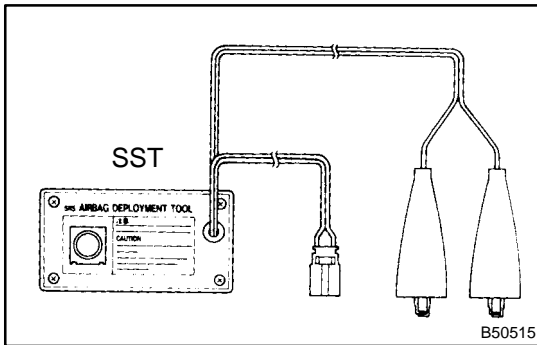
SST 09082-00700



1. DISPOSE OF FRONT SEAT OUTER BELT ASSY RH (WHEN INSTALLED WITH VEHICLE)

HINT:

Check that the battery positive voltage is above 12 V.

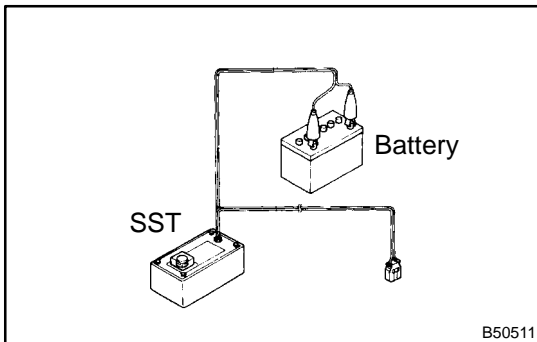


(a) Check the functioning of SST.

CAUTION:

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

SST 09082-00700, 09082-00770

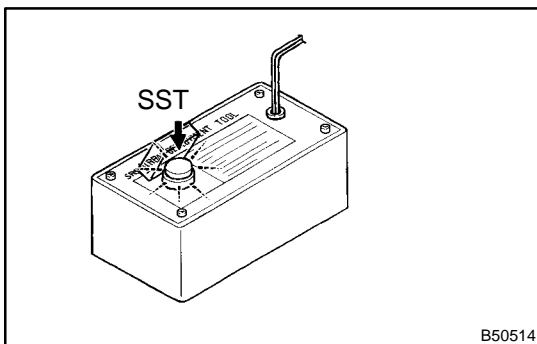


(1) Connect the SST to the battery.

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

HINT:

Do not connect the yellow connector which will be connected to the seat belt pretensioner.



(2) Check the functioning of SST.

Press the SST activation switch, and check that the LED of the SST activation switch lights up.

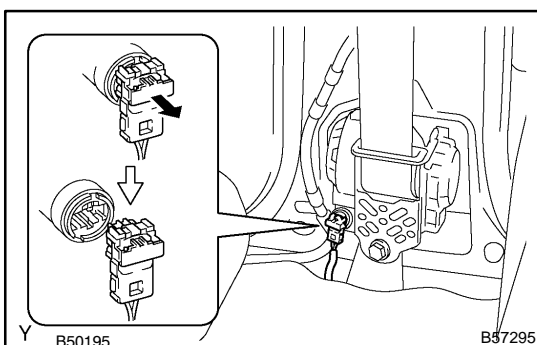
CAUTION:

If the LED lights up when the activation switch is not pressed, the SST probably malfunctions, so definitely do not use the SST.

(b) Disconnect the SST from the battery.

(c) Disconnect the pretensioner connector.

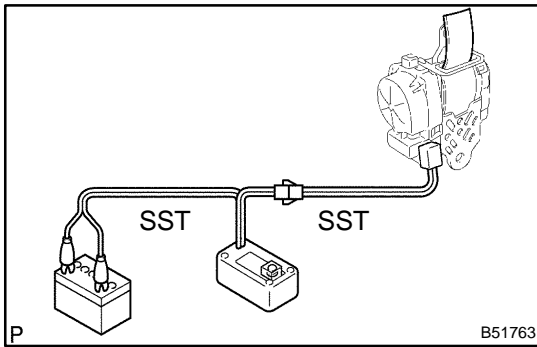
- (1) Disconnect the battery negative terminal.
- (2) Check the SRS airbag system (See page 60-1).
- (3) Remove the front door scuff plate RH (See page 76-21).
- (4) Remove the rear door scuff plate RH (See page 76-21).
- (5) Remove the front door opening trim RH.
- (6) Remove the rear door opening trim RH.
- (7) Remove center pillar garnish lower RH (See page 76-21).



(8) Disconnect the pretensioner connector as shown in the illustration.

(d) Install the SST.

(1) Install the floor anchor of the seat belt.

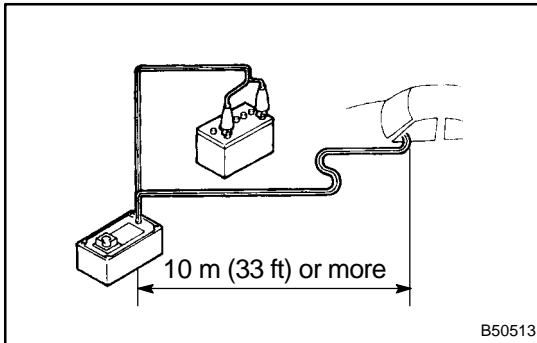


- (2) Connect the 2 SSTs, then connect them to the seat belt pretensioner.

SST 09082-00700, 09082-00770

NOTICE:

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



- (3) Move the 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 the SST wire harness.

- (5) Connect the SST red clip to the battery 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) area around the vehicle.

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

HINT:

The seat belt pretensioner operates simultaneously with the LED of the SST activation switch lighting up.

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

CAUTION:

- The rear outer belt is very hot when the seat belt pretensioner is activated, so leave it alone for at least 30 minutes after activation.
- Use gloves and safety glasses when handling a front seat outer belt with activated seat belt pretensioner.
- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to a front seat outer belt with activated seat belt pretensioner.

HINT:

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

2. DISPOSE OF FRONT SEAT OUTER BELT ASSY RH (WHEN NOT INSTALLED WITH VEHICLE)

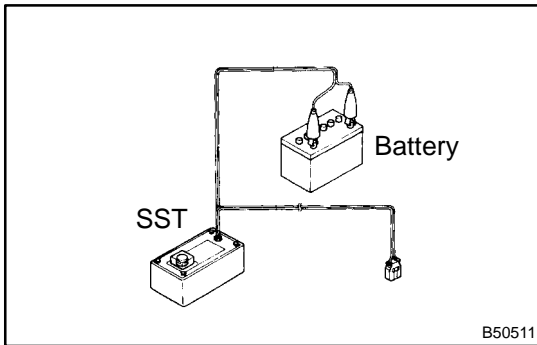
NOTICE:

- When disposing of a front seat outer belt (with seat belt pretensioner) only, never use the customer's vehicle to activate the seat belt pretensioner.
- Be sure to follow the procedure given on the next page when activating the seat belt pretensioner.

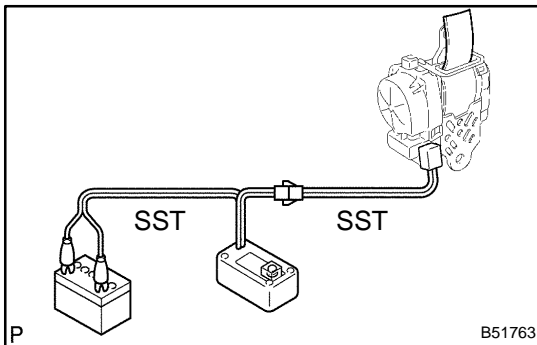
- (a) Remove the front seat outer belt assembly (See page 61-7).

HINT:

Cut the belt near the seat belt retractor.



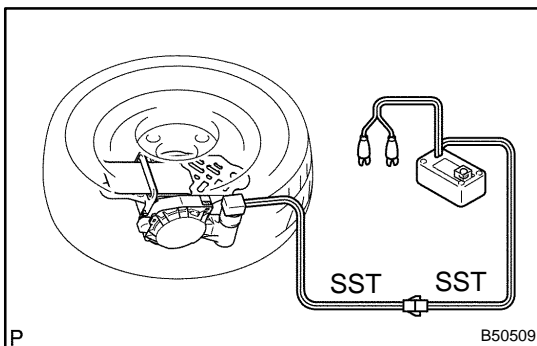
- (b) Check the functioning of SST (See step 1-(a)).
SST 09082-00700, 09082-00770



- (c) Install the SST.
(1) Connect the 2 SSTs, then connect them to the seat belt pretensioner.
SST 09082-00700, 09082-00770

NOTICE:

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



- (2) Place the front seat outer belt on the ground and cover it with the disc wheel with tire.

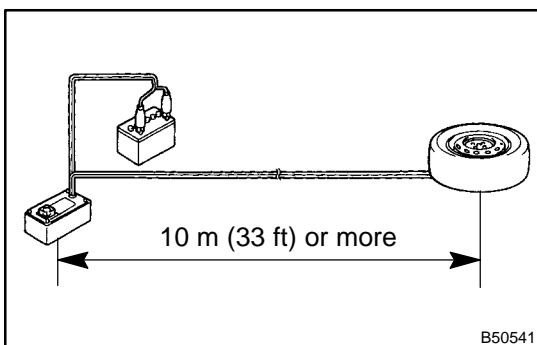
NOTICE:

Place the front seat outer belt, as shown in the illustration.

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

NOTICE:

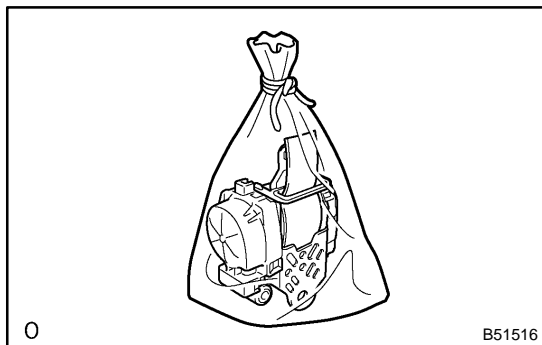
Take care not to damage the SST wire harness.



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

HINT:

The seat belt pretensioner operates simultaneously with the LED of the SST activation switch lighting up.



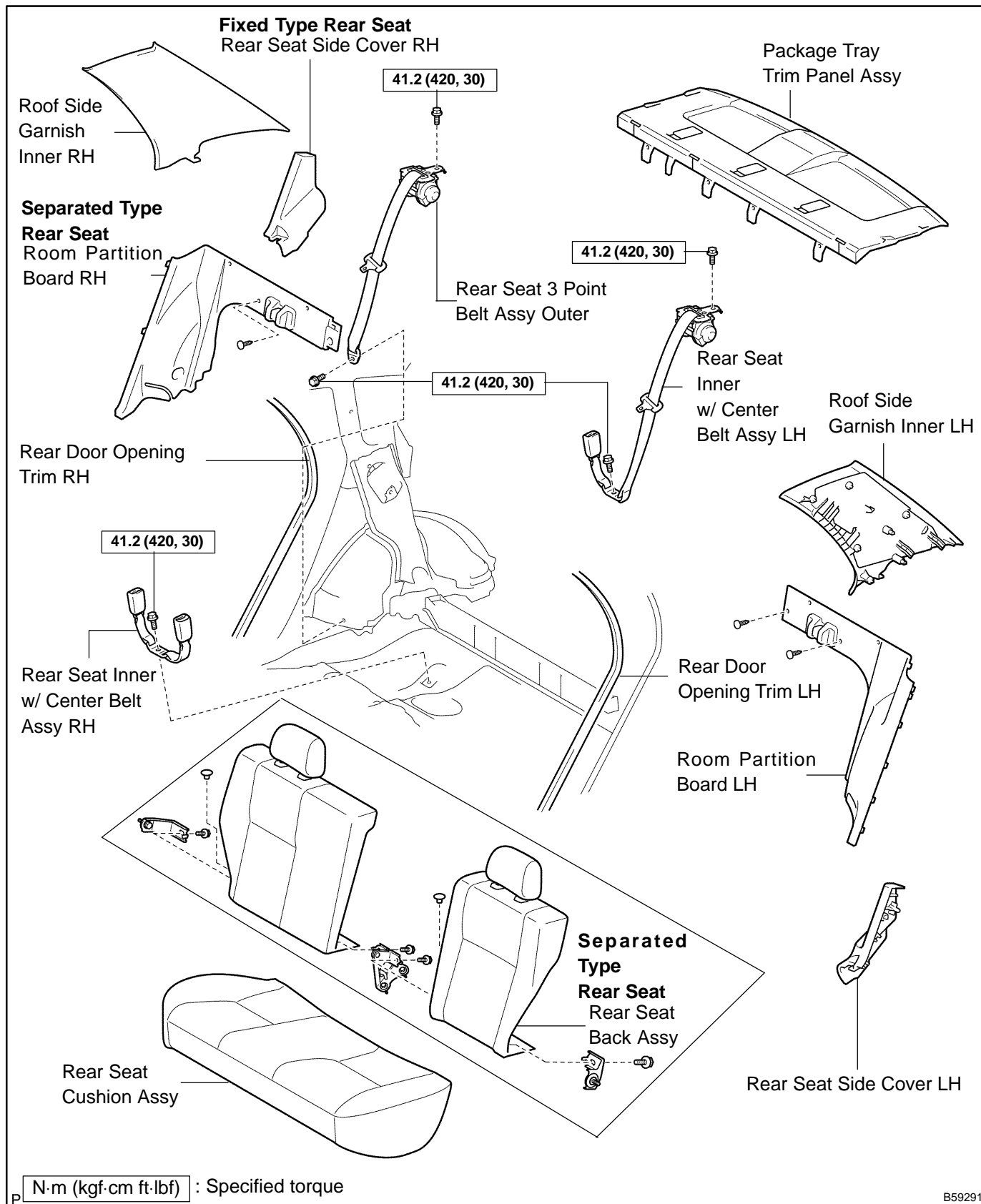
- (e) Dispose of the front seat outer belt (with seat belt pretensioner).

CAUTION:

- **The rear outer belt is very hot when the seat belt pretensioner is activated, so leave it alone for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a front seat outer belt with activated seat belt pretensioner.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water, etc. to a front seat outer belt with activated seat belt pretensioner.**
 - (1) Remove the disc wheel and SST.
 - (2) Place the front seat outer belt in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts.

REAR SEAT BELT COMPONENTS

61086-02

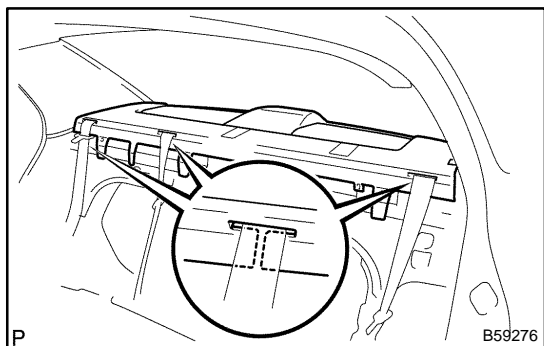


REPLACEMENT

HINT:

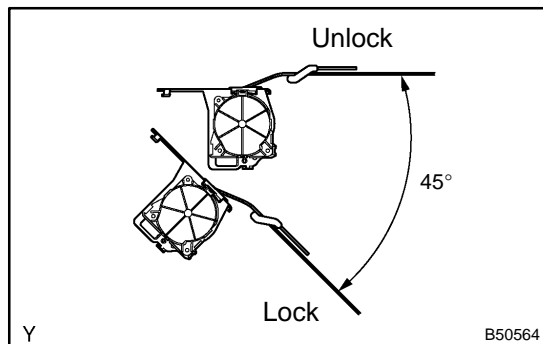
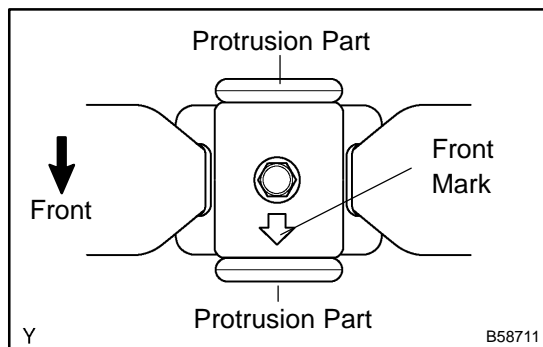
Installation is in the reverse order of the removal. But the installation is indicated only when it has a point.

1. REMOVE REAR DOOR OPENING TRIM RH
2. REMOVE REAR DOOR OPENING TRIM LH
3. REMOVE REAR SEAT CUSHION ASSEMBLY (See page 72-6 or 72-8)
4. REMOVE REAR SEAT BACK ASSY (FIXED TYPE REAR SEAT) (See page 72-8)
5. REMOVE REAR SEAT BACK ASSY (SEPARATED TYPE REAR SEAT) (See page 72-6)
6. REMOVE REAR SEAT SIDE COVER RH (FIXED TYPE REAR SEAT) (See page 76-21)
7. REMOVE REAR SEAT SIDE GARNISH LH (FIXED TYPE REAR SEAT) (See page 76-21)
8. REMOVE ROOM PARTITION BOARD LH (SEPARATED TYPE REAR SEAT)
(See page 76-21)
9. REMOVE ROOM PARTITION BOARD RH (SEPARATED TYPE REAR SEAT)
(See page 76-21)
10. REMOVE ROOF SIDE GARNISH INNER RH (See page 76-21)
11. REMOVE ROOF SIDE GARNISH INNER LH (See page 76-21)



12. REMOVE PACKAGE TRAY TRIM PANEL ASSY
 - (a) Pull out the belt from the slit, and then remove the package tray trim panel assembly.

13. REMOVE REAR SEAT 3 POINT TYPE BELT ASSY OUTER
 - (a) Remove the bolt and disconnect the rear seat 3 point type belt assembly outer (floor anchor).
 - (b) Remove the bolt and rear seat 3 point type belt assembly outer.
14. REMOVE REAR SEAT INNER W/CENTER BELT ASSY RH
 - (a) Remove the 2 bolts and rear seat inner w/ center belt assembly RH.
15. REMOVE REAR SEAT INNER W/CENTER BELT ASSY LH
 - (a) Remove the bolt and rear seat inner w/ center belt assembly LH.
16. REMOVE CHILD RESTRAINT SEAT ANCHOR BRACKET SUB-ASSY RH
 - (a) Remove the 2 bolts and child restraint seat anchor bracket RH.
17. INSTALL CHILD RESTRAINT SEAT ANCHOR BRACKET SUB-ASSY RH
 - (a) Install the child restraint seat anchor bracket RH with the 2 bolts.
Torque: 18.1 N·m (185 kgf·cm, 13.3 ft·lbf)



18. INSTALL REAR SEAT INNER W/CENTER BELT ASSY LH

- (a) Install the rear seat inner w/ center belt assembly RH with the bolt, as shown in the illustration.

Torque: 41.2 N·m (420 kgf·cm, 30 ft·lbf)

NOTICE:

- Do not make the anchor part run onto the protrusion part of the floor panel.
- Do not disassemble the retractor.

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

- (1) Check that the belt will not lock within 15 degrees of tilt in all the direction but the belt will lock over 45 degrees of tilt when moving the installed retractor gently.

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

- (c) Install the rear seat belt assembly outer center with the bolt.

Torque: 41.2 N·m (420 kgf·cm, 30 ft·lbf)

- (d) Check the ELR lock.

NOTICE:

Check should be performed with the assembly installed.

- (1) Check that the belt will lock when pulling out the belt quickly with the belt installed.

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

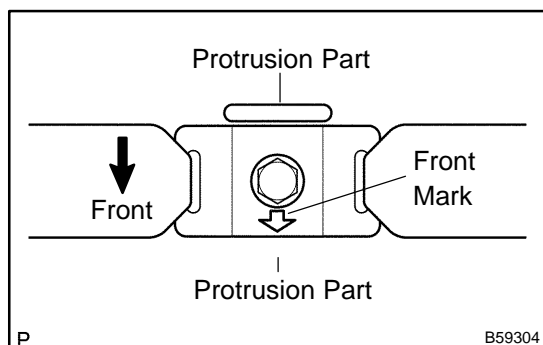
- (e) Check the fastening function of the child restraint system.

NOTICE:

Check should be performed with the assembly installed.

- (1) Check that the belt cannot be pulled out any more but can be rewound after the belt is fully pulled out.
- (2) Check that the belt can be pulled out and rewound after the belt is fully rewound.

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



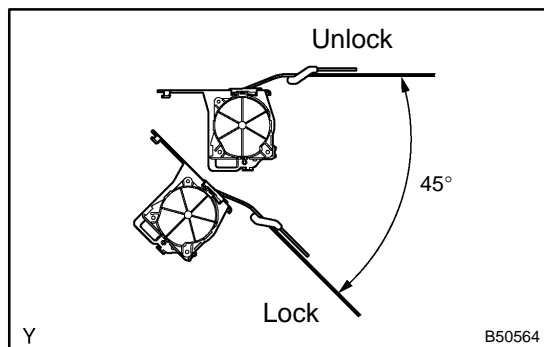
19. INSTALL REAR SEAT INNER W/CENTER BELT ASSY RH

- (a) Install the rear seat inner w/ center belt assembly RH with the bolt, as shown in the illustration.

Torque: 41.2 N·m (420 kgf·cm, 30 ft·lbf)

NOTICE:

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



20. INSTALL REAR SEAT 3 POINT TYPE BELT ASSY OUTER

NOTICE:

Do not disassemble the retractor.

- (a) Check the degree of tilt when the belt begins to lock the ELR.
- (1) Check that the belt will not lock within 15 degrees of tilt in all the direction but the belt will lock over 45 degrees of tilt when moving the installed retractor gently.

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

- (b) Install the rear seat belt assembly outer (retractor side) with the bolt.

Torque: 41.2 N·m (420 kgf·cm, 30 ft·lbf)

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

Torque: 41.2 N·m (420 kgf·cm, 30 ft·lbf)

NOTICE:

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

- (d) Check the ELR lock.

NOTICE:

Check should be performed with the assembly installed.

- (1) Check that the belt will lock when pulling out the belt quickly with the belt installed.

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

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

NOTICE:

Check should be performed with the assembly installed.

- (1) Check that the belt cannot be pulled out any more but can be rewound after the belt is fully pulled out.
- (2) Check that the belt can be pulled out and rewound after the belt is fully rewound.

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

21. INSTALL ROOM PARTITION BOARD RH (SEPARATED TYPE REAR SEAT)
22. INSTALL ROOM PARTITION BOARD LH (SEPARATED TYPE REAR SEAT)
23. INSTALL REAR SEAT SIDE GARNISH LH (FIXED TYPE REAR SEAT)
24. INSTALL REAR SEAT SIDE COVER RH (FIXED TYPE REAR SEAT)
25. INSTALL REAR SEAT BACK ASSY (FIXED TYPE REAR SEAT) (See page 72-8)
26. INSTALL REAR SEAT BACK ASSY (SEPARATED TYPE REAR SEAT) (See page 72-6)