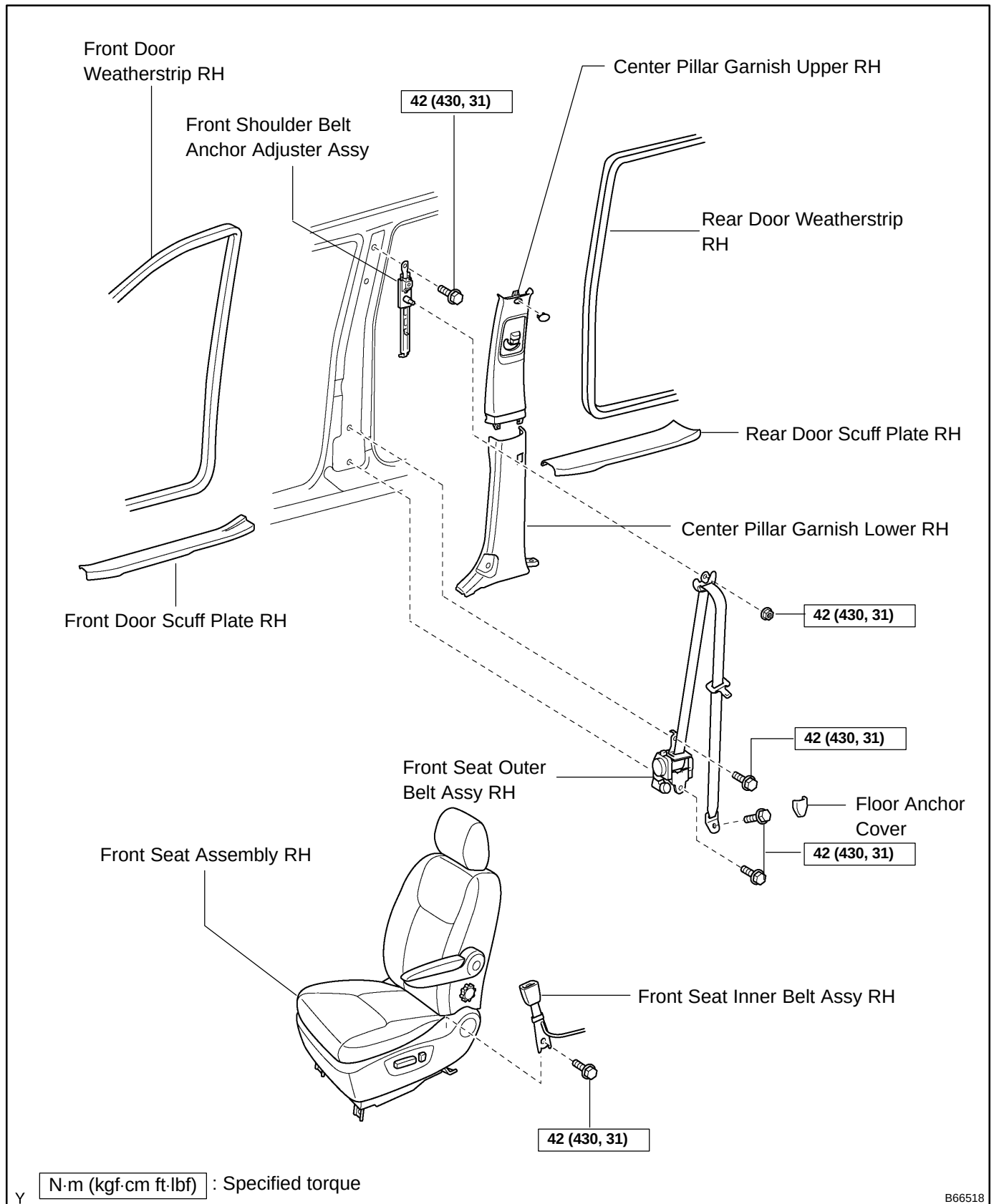


COMPONENTS



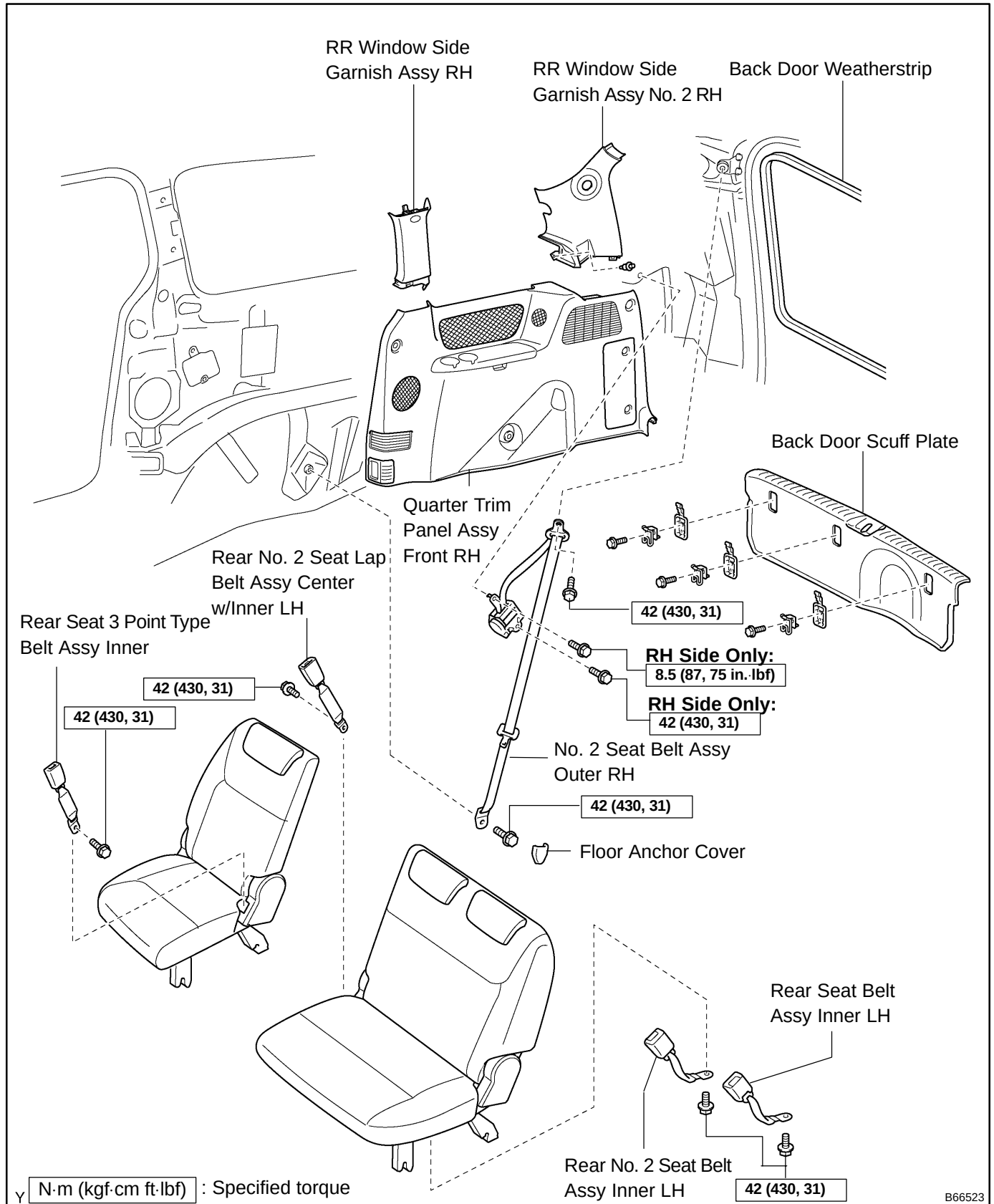
610AQ-02

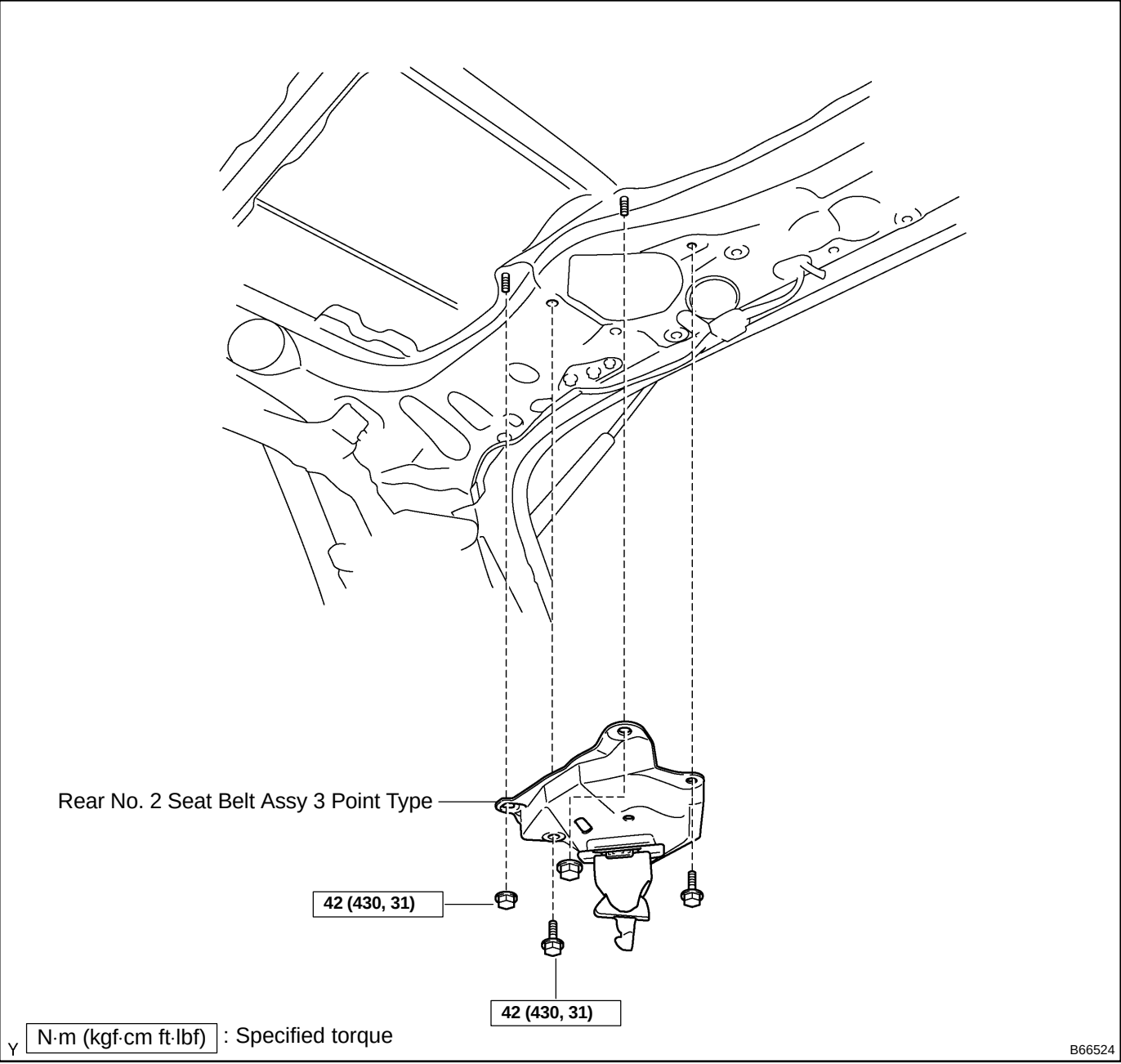


REAR NO.2 SEAT BELT ASSY OUTER RH

COMPONENTS

610DR-01

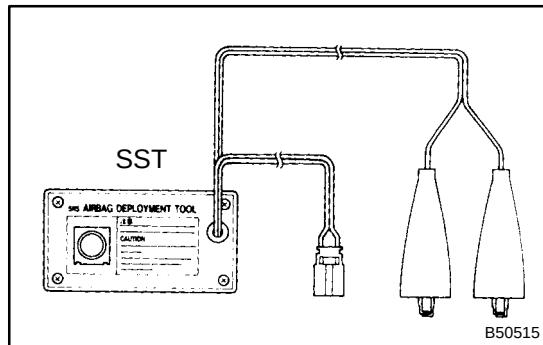




DISPOSAL

HINT:

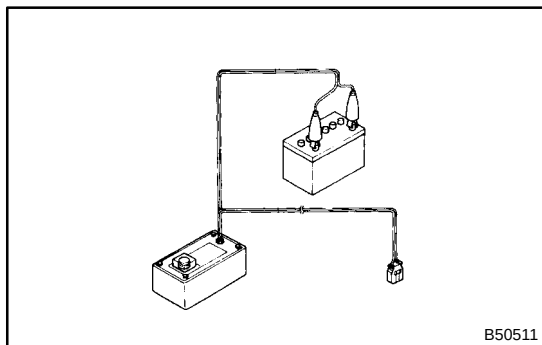
When scrapping vehicles equipped with a seat belt pretensioner or disposing of a front seat outer belt (with seat belt pretensioner), always first activate the seat belt pretensioner in accordance with the procedures described below. If any abnormality occurs in activation of the seat belt pretensioner, contact the SERVICE DEPT. of the TOYOTA MOTOR SALES, U.S.A., INC. When disposing of a front seat outer belt assy (with seat belt pretensioner) that was activated in a collision, follow the same procedures listed in step 2-(e) in DISPOSAL.



CAUTION:

- Never dispose of an outer belt assy with an inactivated pretensioner.
- The seat belt pretensioner produces a sizeable exploding sound when it activates, so perform the operation outdoors so that it will not be a nuisance to nearby residents.
- When activating an outer belt (with seat belt pretensioner), control operation at least 10 m (33 ft) away from the outer belt.
- Use gloves and safety glasses when handling a seat belt with an activated pretensioner.
- Always wash your hands with water after completing activation.
- Do not apply water, etc. to the outer belt with an activated pretensioner.
- When activating the seat belt pretensioner, always use the specified SST (SRS airbag deployment tool). Perform operation in a place away from electrical interference.

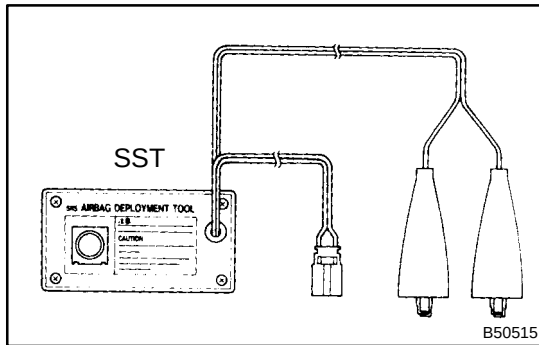
SST 09082-00700



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

HINT:

Check that the battery positive voltage is above 12 V.

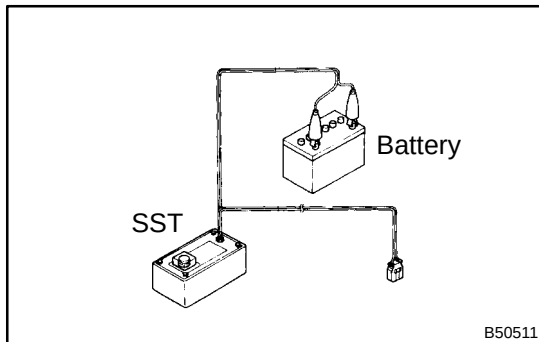


(a) Check the functioning of SST.

CAUTION:

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

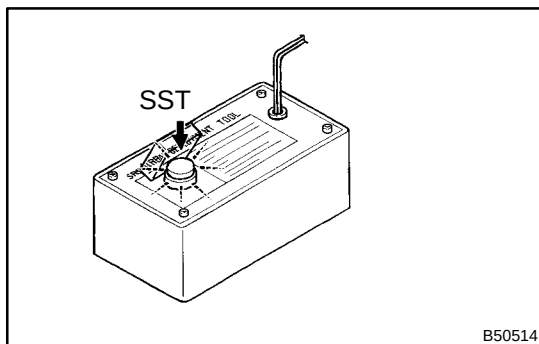
SST 09082-00700, 09082-00770



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

HINT:

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



- (2) Press the SST activation switch and check that the LED of the SST activation switch lights up.

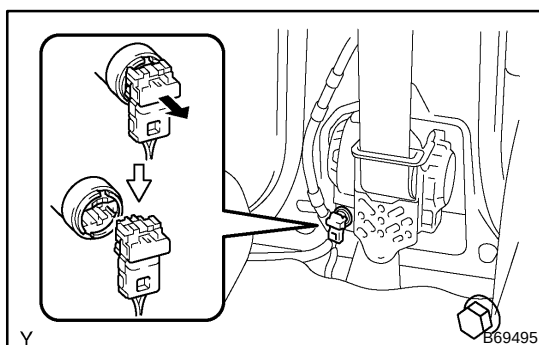
CAUTION:

If the LED lights up when the activation switch is not pressed, the SST may have a malfunction which case that SST should not be used.

(b) Disconnect the SST from the battery.

(c) Disconnect the pretensioner connector.

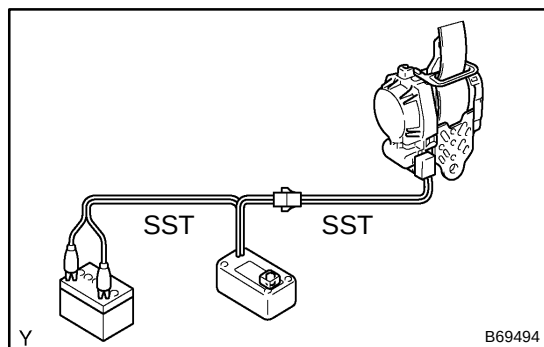
- (1) Disconnect the battery negative (-) terminal.
- (2) Check the SRS airbag system (See page 60-1).
- (3) Remove the front door scuff plate RH (See page 76-27).
- (4) Remove the rear door scuff plate RH (See page 76-27).
- (5) Remove the front door weatherstrip RH.
- (6) Remove the rear door weatherstrip RH.
- (7) Remove the center pillar garnish lower RH (See page 76-27).



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

(d) Connect the SST.

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

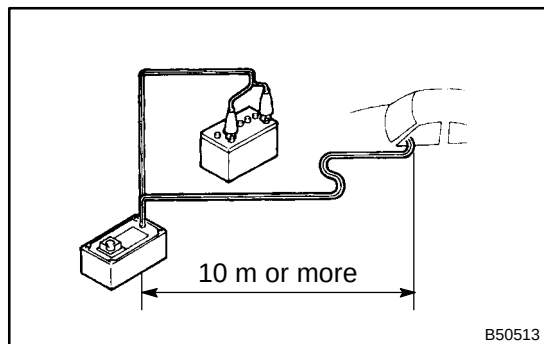


- (2) Connect SST, then connect them to the seat belt pretensioner.

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) of the vehicle.

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

HINT:

The seat belt pretensioner operates simultaneously with the LED light for the SST activation switch.

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

CAUTION:

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

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 ASSY RH (WHEN NOT INSTALLED IN VEHICLE)

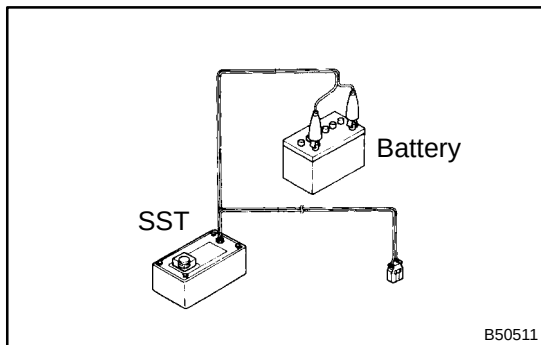
NOTICE:

- When disposing of the outer belt (with the seat belt pretensioner) only, 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.

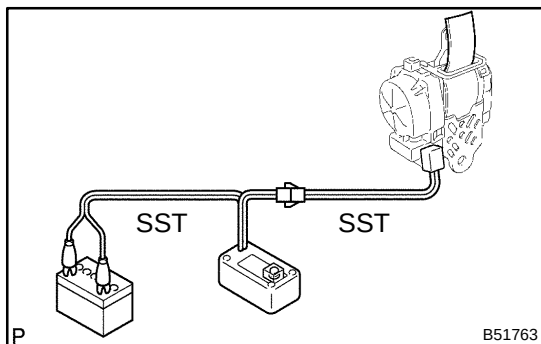
- (a) Remove the front seat outer belt (See page 61-7).

HINT:

Cut the belt near the seat belt retractor.



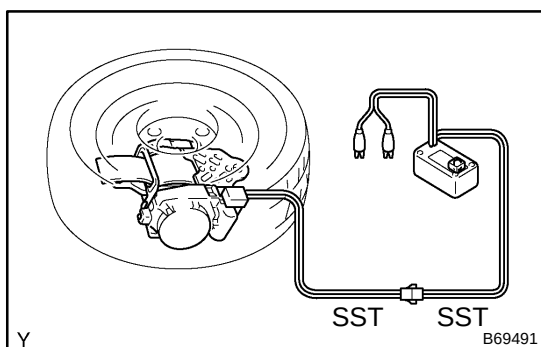
- (b) Check the functioning of SST (See step 1-(a)).
SST 09082-00700, 09082-00770



- (c) Install the SST.
(1) Connect SST, 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 a wheel with tire.

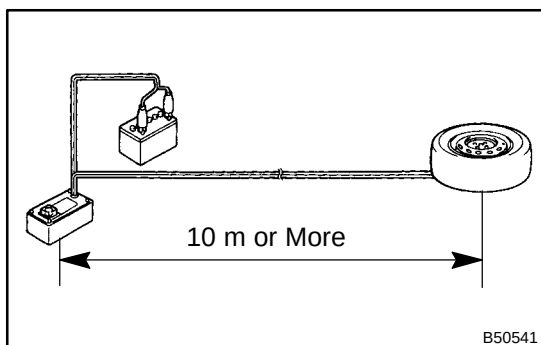
NOTICE:

Set up the outer belt assy 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 the black clip to the battery negative (-) terminal.
(2) Check that no one is within 10 m (33 ft) of the wheel.
(3) Press the SST activation switch and activate the seat belt pretensioner.

HINT:

The seat belt pretensioner operates simultaneously with the LED light for the SST activation switch.

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

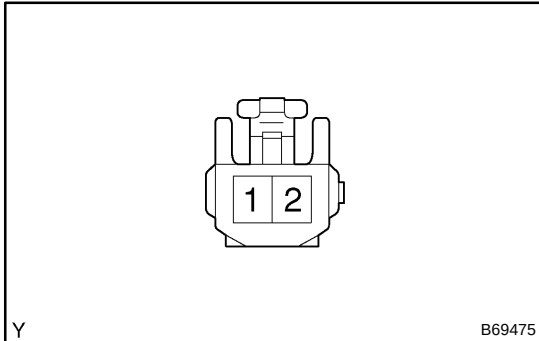
CAUTION:

- The outer belt is very hot when the seat belt pretensioner is activated, so leave it untouched for at least 30 minutes after it has been activated.
- Use gloves and safety glasses when handling the front seat outer belt with the pretensioner that has been activated.



- **Always wash your hands with water after completing operation.**
- **Do not apply water, etc. to an outer belt with the pretensioner that has been activated.**
 - (1) Remove the 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.

INSPECTION



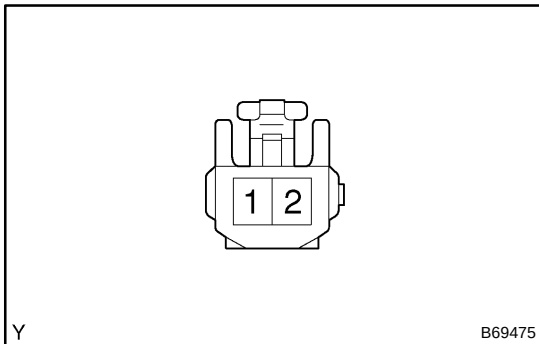
1. INSPECT FRONT SEAT INNER BELT ASSY RH

- (1) Release the seat belt (Buckle switch is ON).
- (2) Check the resistance between the terminals.

Standard:

Terminal No.	Specified Condition
1 - 2	Below 1 Ω

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

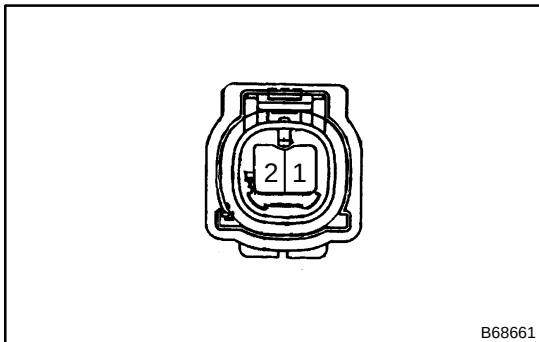


- (a) Inspect the buckle switch.

- (1) Fasten the seat belt (Buckle switch is OFF).
- (2) Check the resistance between the terminals.

Standard:

Terminal No.	Specified Condition
1 - 2	10 k Ω or higher



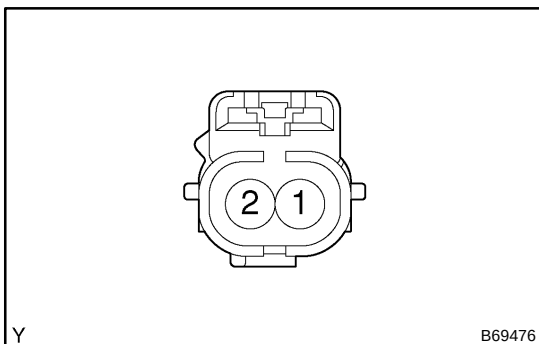
- (b) Inspect the circuit for the airbag seat position sensor.

- (1) Check the resistance between the terminals.

Standard:

Terminal No.	Specified Condition
1 - 2 (Connector for airbag seat position sensor)	Below 1 Ω

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



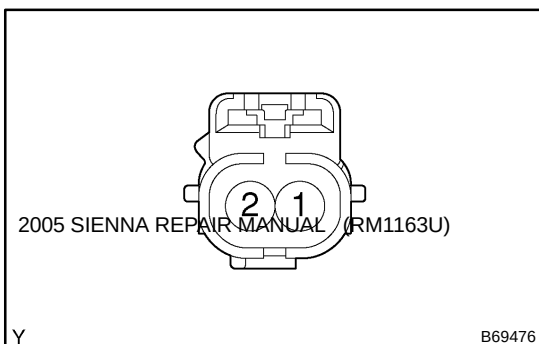
2. INSPECT FRONT SEAT INNER BELT ASSY LH

- (a) Inspect the buckle switch.

- (1) Fasten the seat belt (Buckle switch is ON).
- (2) Check the resistance between the terminals.

Standard:

Terminal No.	Specified Condition
1 - 2	330 Ω



- (3) Release the seat belt (Buckle switch is OFF).

Author :

Date :

3065

(4) Check the resistance between the terminals.

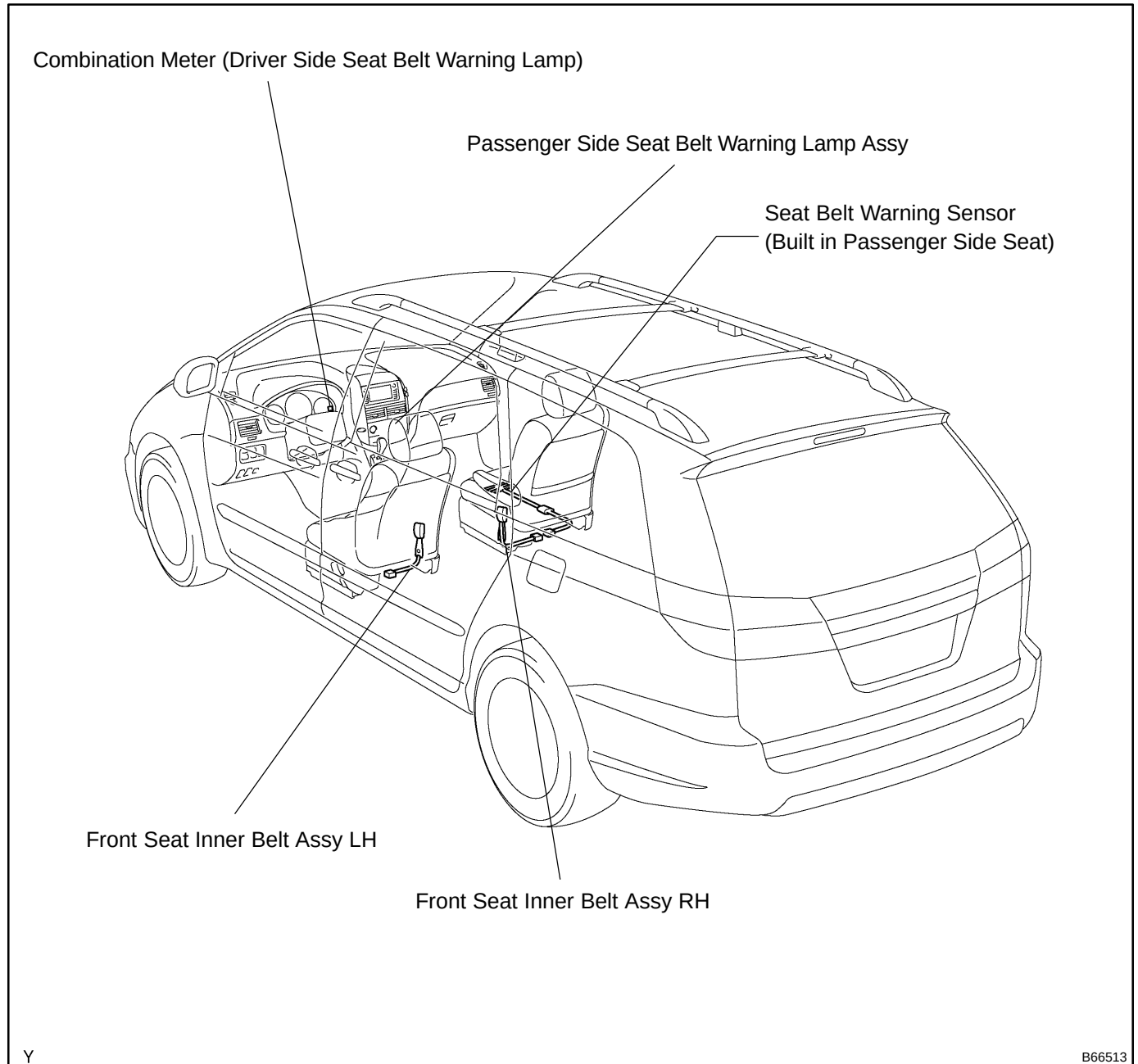
Standard:

Terminal No.	Specified Condition
1 - 2	1,330 Ω

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

SEAT BELT WARNING SYSTEM LOCATION

610AU-02



FRONT SEAT BELT

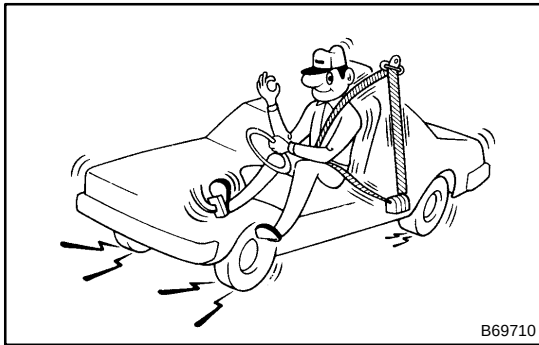
PRECAUTION

610DP-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 (IN SAFE AREA)

- (a) Fasten the front seat belts.
- (b) Drive the car at 16 km/h (10 mph) and slam on the brakes. Check 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 following static check. Also whenever installing a new belt assembly, verify the proper operation before installation.

PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See Page
Driver side seat belt warning lamp does not light up	1. Fuse 2. Combination meter 3. Airbag sensor assy center 4. Front seat inner belt assy LH 5. Wire harness	 71-20 60-56 61-3 
Passenger side seat belt warning lamp does not light up	1. Fuse 2. Passenger side seat belt warning lamp assy 3. Front seat inner belt assy RH 4. Wire harness	 61-3 61-3 

REPLACEMENT

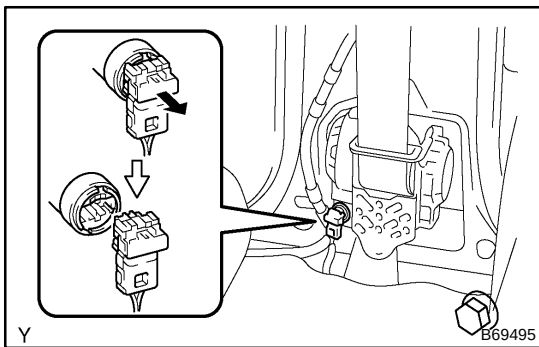
HINT:

- The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.
 - On the LH side, use the same procedures as on the RH side.
1. **DISCONNECT BATTERY NEGATIVE TERMINAL**
 2. **REMOVE FRONT SEAT ASSEMBLY RH (See page 72-12 , 72-22)**
 3. **REMOVE FRONT SEAT INNER BELT ASSY RH**
 - (a) Remove the nut and inner belt.
 4. **REMOVE FRONT DOOR SCUFF PLATE RH (See page 76-27)**
 5. **REMOVE REAR DOOR SCUFF PLATE RH (See page 76-27)**
 6. **REMOVE FRONT DOOR WEATHERSTRIP RH (See page 76-27)**
 7. **REMOVE REAR DOOR WEATHERSTRIP RH (See page 76-27)**
 8. **REMOVE CENTER PILLAR GARNISH LOWER RH (See page 76-27)**
 9. **REMOVE CENTER PILLAR GARNISH UPPER RH (See page 76-27)**

10. REMOVE FRONT SEAT OUTER BELT ASSY RH

NOTICE:

- Removal operation concerning the seat belt with the 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 the outer belt assy.
- (a) Remove the nut and the front seat outer belt on the shoulder anchor side.



- (b) Disconnect the pretensioner connector, as shown in the illustration.
- (c) Remove the 2 bolts and outer belt.

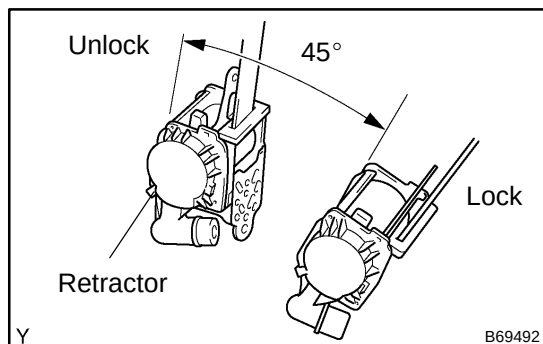
11. REMOVE FRONT SHOULDER BELT ANCHOR ADJUSTER ASSY

- (a) Remove the bolt and anchor adjuster.

12. INSTALL FRONT SHOULDER BELT ANCHOR ADJUSTER ASSY

- (a) Install the anchor adjuster with the bolt.

Torque: 42 N·m (430 kgf·cm, 31 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 does not lock within 15° of tilt in all directions but that the belt locks with over 45° of tilt, when gently moving the retractor.

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

- (b) Install the retractor with the 2 bolts.
Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)
- (c) Install the shoulder anchor with the nut.
Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)
- (d) Install the center pillar garnish upper RH
(See page 76-27).
- (e) Install the center pillar garnish lower RH
(See page 76-27).
- (f) Install the floor anchor with the bolt.
Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)
- (g) Install the floor anchor cover.
- (h) Check the ELR lock.

NOTICE:

The check should be performed with the assembly installed.

- (1) Check that the belt locks when pulling out the belt quickly when the belt is installed.

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

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

NOTICE:

The 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 operation is not as specified, replace the belt assy.

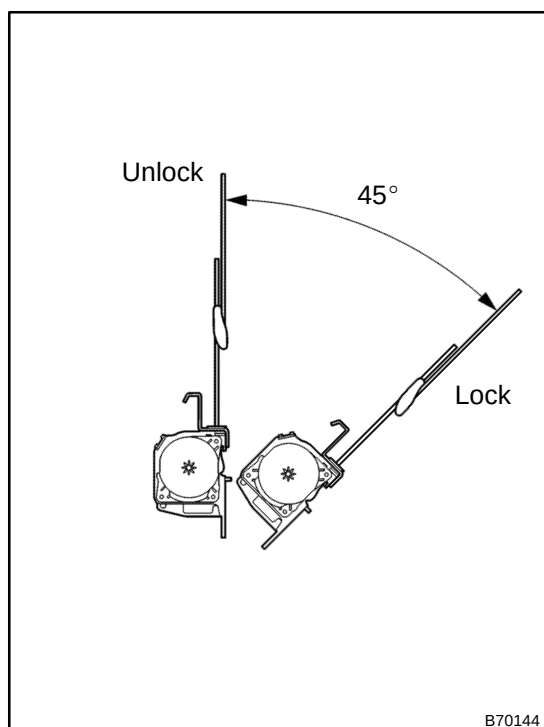
14. INSTALL FRONT SEAT INNER BELT ASSY RH

- (a) Install the inner belt with the nut.
Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)

REPLACEMENT

HINT:

- The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.
 - On the LH side, use the same procedures as for the RH side.
1. **REMOVE REAR DOOR SCUFF PLATE RH (See page 76-27)**
 2. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH**
 3. **REMOVE REAR DOOR WEATHERSTRIP RH (See page 76-27)**
 4. **REMOVE BACK DOOR WEATHERSTRIP**
 5. **REMOVE BACK DOOR SCUFF PLATE (See page 76-27)**
 6. **REMOVE QUARTER TRIM PANEL ASSY FRONT RH (See page 76-27)**
 7. **REMOVE RR WINDOW SIDE GARNISH ASSY RH (See page 76-27)**
 8. **REMOVE REAR NO.1 SEAT BELT ASSY OUTER RH (7- PASSENGER)**
 - (a) Remove the rear seatback board RH (See page 72-44).
 - (b) Remove the rear seat shoulder belt cover (See page 72-44).
 - (c) Remove the bolt, nut and seat belt.
 9. **REMOVE REAR SEAT 3 POINT TYPE BELT ASSY OUTER (8- PASSENGER)**
 - (a) Remove the nut and disconnect the belt on the shoulder anchor side.
 10. **REMOVE REAR NO. 1 SEAT BELT ASSY OUTER CTR (8- PASSENGER)**
 - (a) Remove the rear seatback board CTR (See page 72-44).
 - (b) Remove the rear seat shoulder belt cover (See page 72-44).
 - (c) Remove the bolt, nut and seat belt.
 11. **REMOVE REAR SEAT 3 POINT TYPE BELT ASSY INNER**
 - (a) Remove the bolt and belt.
 12. **REMOVE REAR SEAT LAP TYPE BELT ASSY CENTER (8- PASSENGER)**
 - (a) Remove the bolt and belt.
 13. **INSTALL REAR SEAT 3 POINT TYPE BELT ASSY INNER**
 - (a) Install the bolt and belt.
- Torque: 43 N·m (438 kgf·cm, 31 ft·lbf)**



14. **INSTALL REAR SEAT 3 POINT TYPE BELT ASSY OUTER (8- PASSENGER)**

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 does not lock within 15° of tilt in all directions but that the belt locks with over 45° of tilt, when gently moving the retractor.

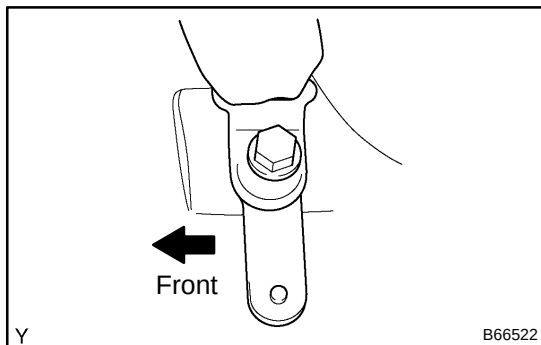
If operation is not as specified, replace the belt assy.

- (b) Install the belt with the bolt on the retractor side.

Torque:

8.5 N·m (87 kgf·cm, 75 in·lbf) for upper bolt
42 N·m (430 kgf·cm, 31 ft·lbf) for lower bolt

- (c) Install the quarter trim panel front RH (See page 76-27).



(d) Install the belt on the floor anchor side with the bolt.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)

(e) Check the ELR lock.

NOTICE:

The check should be performed with the assembly installed.

- (1) Check that the belt locks when pulling out the belt quickly when the belt is installed.

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

(f) Check the fastening function of the child restraint system.

NOTICE:

The check should be performed with the assembly installed.

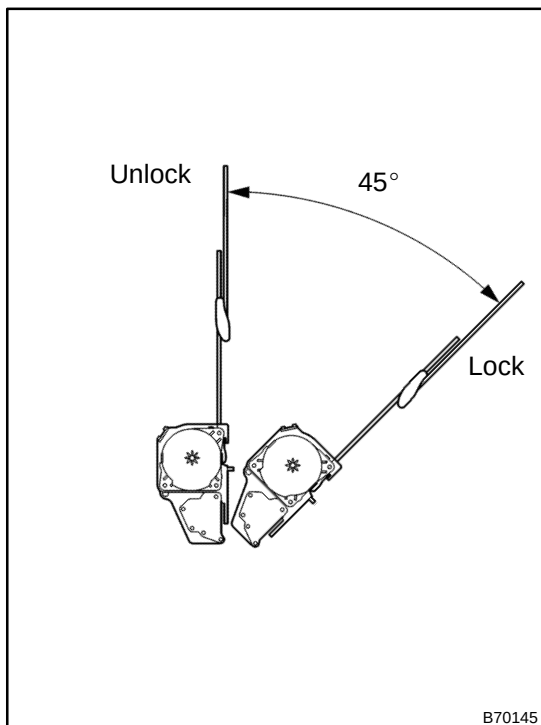
- (1) Check that the belt cannot be pulled out any more but can be rewound after the belt is fully pulled out.
- (2) Check that the belt can be pulled out and rewound after the belt is fully rewound.

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

15. INSTALL REAR SEAT 3 POINT TYPE BELT ASSY INNER (7- PASSENGER)

(a) Install the seat belt inner with the bolt.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)



16. INSTALL REAR NO.1 SEAT BELT ASSY OUTER RH (7- PASSENGER)

(a) Install the belt with the bolt and nut.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)

(b) Install the rear seat shoulder belt cover

(See page [72-44](#)).

(c) Install the rear seatback board RH

(See page [72-44](#)).

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

- (1) Check the belt does not lock within 15° of tilt in all directions but that the belt locks with over 45° of tilt, when gently moving the retractor.

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

(e) Install the belt assy with the bolt.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)

(f) Check the ELR lock.

NOTICE:

The check should be performed with the assembly installed.

- (1) Check that the belt locks when pulling out the belt quickly when the belt is installed.

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

(g) Check the fastening function of the child restraint system.

NOTICE:

The check should be performed with the assembly installed.

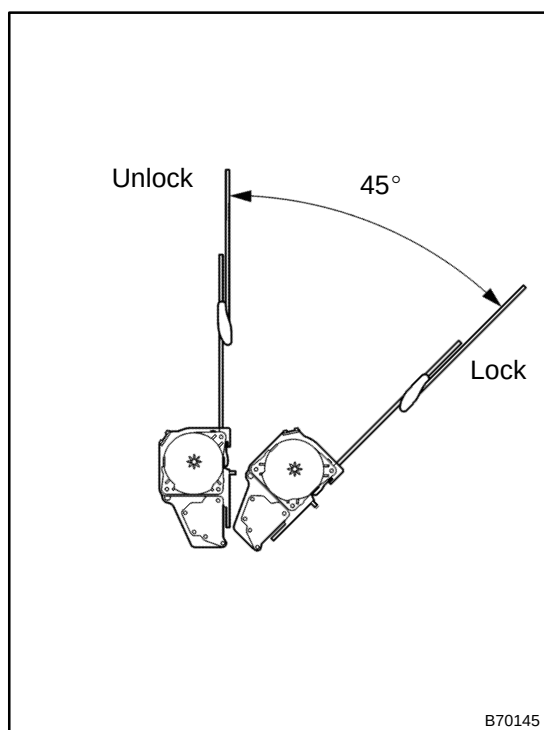
- (1) Check that the belt cannot be pulled out any more but can be rewound after the belt is fully pulled out.
- (2) Check that the belt can be pulled out and rewound after the belt is fully rewound.

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

17. INSTALL REAR SEAT LAP TYPE BELT ASSY CENTER (8- PASSENGER)

- (a) Install the belt with the bolt.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)



18. INSTALL REAR NO. 1 SEAT BELT ASSY OUTER CTR (8- PASSENGER)

- (a) Install the belt with the bolt and nut.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)

- (b) Install the rear seat shoulder belt cover (See page 72-44).
- (c) Install the rear seatback board CTR (See page 72-44).
- (d) Check the degree of tilt when the belt begins to lock the ELR.
 - (1) Check that the belt does not lock within 15° of tilt in all directions but that the belt locks with over 45° of tilt, when gently moving the retractor.

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

- (e) Install the belt with the bolt.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)

- (f) Check the ELR lock.

NOTICE:

The check should be performed with the assembly installed.

- (1) Check that the belt locks when pulling out the belt quickly when the belt is installed.

HINT:

The seat belt does not lock when the pull-out amount of the belt is 955 mm (37.60 in.) or less.

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

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

NOTICE:

The check should be performed with the assembly installed.

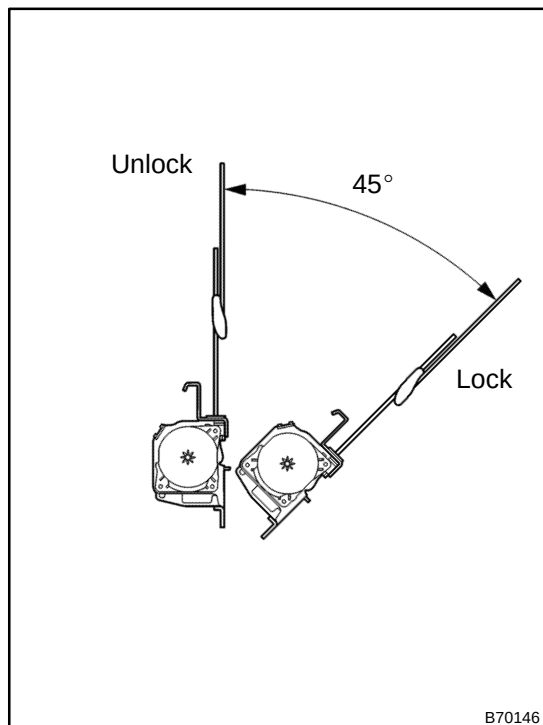
- (1) Check that the belt cannot be pulled out any more but can be rewound after it is fully pulled out.
- (2) Check that the belt can be pulled out and rewound after the belt is fully rewound.

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

REPLACEMENT

HINT:

- The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.
 - On the LH side, use the same procedures as for the RH side.
1. **REMOVE REAR DOOR SCUFF PLATE RH (See page 76-27)**
 2. **REMOVE REAR DOOR WEATHERSTRIP RH (See page 76-27)**
 3. **REMOVE BACK DOOR WEATHERSTRIP**
 4. **REMOVE BACK DOOR SCUFF PLATE (See page 76-27)**
 5. **REMOVE QUARTER TRIM PANEL ASSY FRONT RH (See page 76-27)**
 6. **REMOVE ROOF HEADLINING GARNISH REAR (See page 76-27)**
 7. **REMOVE RR WINDOW SIDE GARNISH ASSY NO.2 RH (See page 76-27)**
 8. **REMOVE REAR NO.2 SEAT BELT ASSY OUTER RH**
 - (a) Remove the bolt and seat belt on the shoulder anchor side.
 - (b) Remove the bolt on the retractor side and thoroughly remove the seat belt.
 9. **REMOVE REAR NO.2 SEAT BELT ASSY 3 POINT TYPE (8- PASSENGER)**
 - (a) Remove the 2 bolts, 2 nuts and seat belt.
 10. **REMOVE REAR SEAT 3 POINT TYPE BELT ASSY INNER**
 - (a) Remove the bolt and belt.
 11. **REMOVE REAR NO.2 SEAT LAP BELT ASSY CENTER W/INNER LH (8- PASSENGER)**
 - (a) Remove the bolt and lap belt.
 12. **INSTALL REAR SEAT 3 POINT TYPE BELT ASSY INNER**
 - (a) Install the belt with the bolt.
- Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)**



13. INSTALL REAR NO.2 SEAT BELT ASSY OUTER RH 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 does not lock within 15° of tilt in all directions but that the belt locks with over 45° of tilt, when gently moving the retractor.

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

- (b) Install the belt with the bolt on the retractor side.

Torque:

8.5 N·m (87 kgf·cm, 75 in·lbf) for upper bolt

42 N·m (430 kgf·cm, 31 ft·lbf) for lower bolt

- (c) Install the belt with the bolt on the shoulder anchor side.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)

- (d) Install the belt on the floor anchor side with the bolt.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)

NOTICE:

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

- (e) Check the ELR lock.

NOTICE:

The check should be performed with the assembly installed.

- (1) Check that the belt locks when pulling out the belt quickly when the belt is installed.

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

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

NOTICE:

The 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 operation is not as specified, replace the belt assy.

14. INSTALL REAR NO.2 SEAT LAP BELT ASSY CENTER WINNER LH (8- PASSENGER)

- (a) Install the lap belt with the bolt.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf)

15. INSTALL REAR NO.2 SEAT BELT ASSY 3 POINT TYPE

- (a) Install the seat belt with the 3 bolts and 2 nuts.

Torque: 42 N·m (430 kgf·cm, 31 ft·lbf) for bolt

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

- (1) Check that the belt does not lock within 15° of tilt in all directions but that the belt locks with over 45° of tilt, when gently moving the retractor.

If operation is not as specified, replace the seat belt assy.

- (c) Check the ELR lock.

NOTICE:

The check should be performed with the assembly installed.

- (1) Check that the belt locks when pulling out the belt quickly when the belt is installed.

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

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

NOTICE:

The 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 operation is not as specified, replace the belt assy.

