

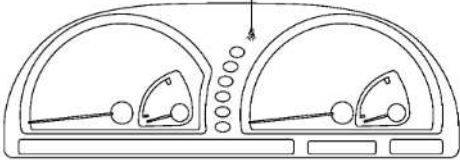
SEAT BELT WARNING SYSTEM (From July, 2003)

LOCATION

610GF-01

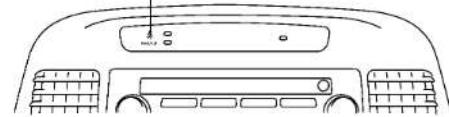
Combination Meter

Driver Side Seat Belt Warning Lamp



Clock

Passenger Side Seat Belt Warning Lamp



Instrument Panel J/B

- IG1 Relay
- GAUGE1 Fuse
- AM1 Fuse

Airbag Sensor Assy

Front Seat Inner Belt LH

Occupant Classification ECU

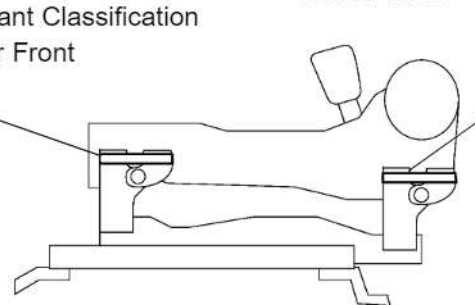
Front Seat Inner Belt RH

Passenger Seat



Occupant Classification Sensor Front

Occupant Classification Sensor Rear



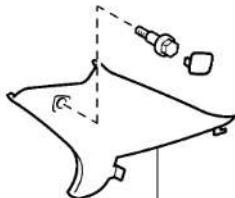
H

B74564

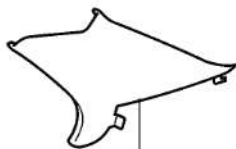
REAR SEAT BELT COMPONENTS

61056-03

w/ Curtain Shield Airbag



Roof Side Garnish Inner LH



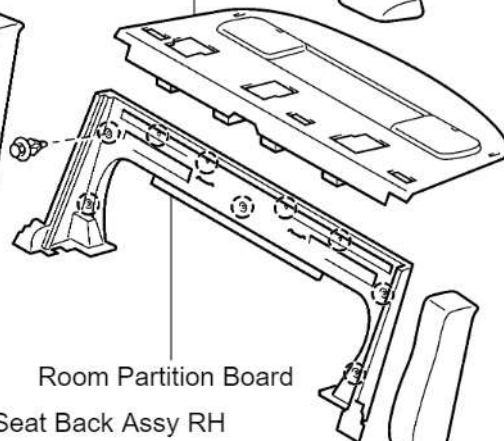
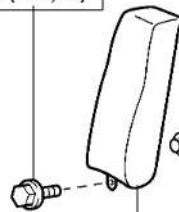
Roof Side Garnish Inner LH

Rear Seat Shoulder Belt Cover RH

TMMK Made:

18 (183,13)

Center Stop Lamp Assy
Package Tray Trim Panel Assy



Room Partition Board

Rear Side Seat Back Assy RH

18 (183,13)

Rear Side Seat Back Assy LH

Rear Seat 3 Point Type
Belt Assy Outer

42 (420, 31)

Center Stop Lamp Assy

Rear Seat Shoulder
Belt Cover LH

42 (420, 31)

42 (420, 31)

42 (420, 31)

Rear Seat Inner
w/ Center Belt Assy RH

42 (420, 31)

Rear Seat Inner w/ Center Belt Assy LH

Package Tray Trim
Panel AssyChild Restraint Seat
Tether Anchor Cover

Rear Seat Cushion Assy

o N·m (kgf·cm ft·lbf) : Specified torque

B74557

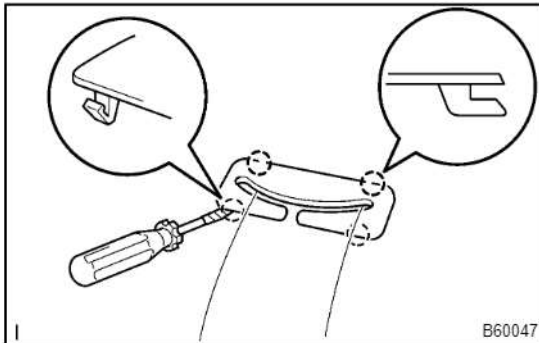
REAR SEAT BELT (TMC MADE)

REPLACEMENT

81057-04

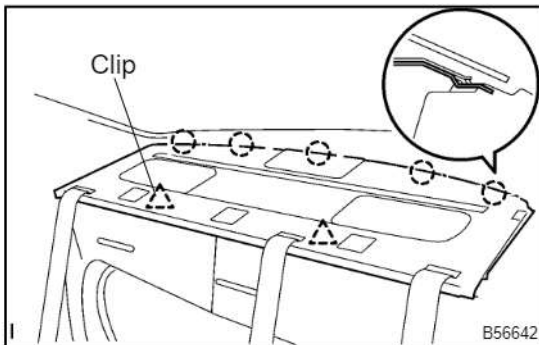
HINT:

- 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 RH side, use the same procedures as on the LH side.
1. **REMOVE REAR SEAT CUSHION ASSY** (See page 72-32)
 2. **REMOVE ROOF SIDE GARNISH INNER RH**(See page 76-22)
 3. **REMOVE ROOF SIDE GARNISH INNER LH**(See page 76-22)
 4. **REMOVE CENTER STOP LAMP ASSY** (See page 65-22)



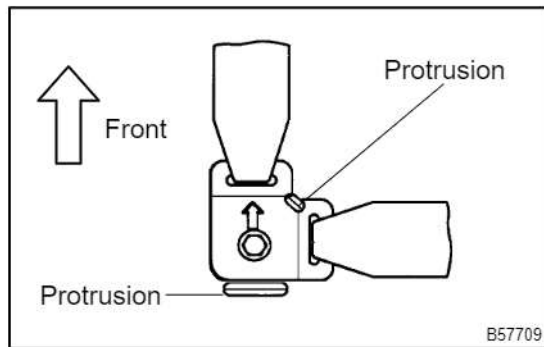
5. **REMOVE REAR SEAT SHOULDER BELT COVER RH**
 - (a) Using a screwdriver, disengage the claws in the front side.
- HINT:
Tape the screwdriver tip before use.
- (b) Pull out the shoulder belt cover to the front side to disengage the claws.
 - (c) Pull out the shoulder belt from the slit to remove the shoulder belt cover.

6. **REMOVE REAR SIDE SEAT BACK ASSY RH** (See page 72-32)
7. **REMOVE REAR SIDE SEAT BACK ASSY LH** (See page 72-32)



8. **REMOVE PACKAGE TRAY TRIM PANEL ASSY**
 - (a) Remove the 3 bolts and floor anchor of the seat belt.
 - (b) Disengage the clips and claws and pull out the belt to remove the package tray trim.

9. **REMOVE REAR SEAT 3 POINT TYPE BELT ASSY OUTER**
 - (a) Remove the bolt in the retractor, and disengage the claws of the stopper to remove the rear seat belt assembly outer.
10. **REMOVE REAR SEAT INNER W/CENTER BELT ASSY RH**
 - (a) Remove the bolt, and disengage the claws of the stopper to remove the rear seat inner with center belt assembly RH.
11. **REMOVE REAR SEAT INNER W/CENTER BELT ASSY LH**
 - (a) Remove the bolt in the retractor, and remove the rear seat inner with center belt assembly LH.



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

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

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

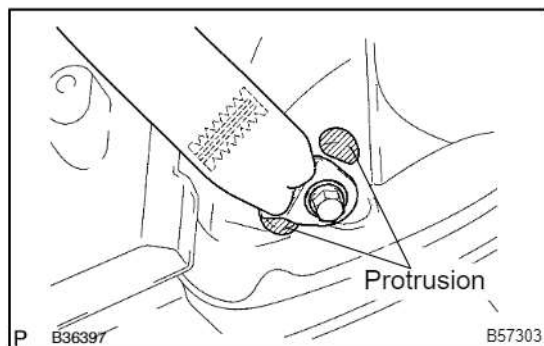
NOTICE:

Take care for the anchor not to run onto the protrusion part of the floor panel.

13. INSTALL REAR SEAT 3 POINT TYPE BELT ASSY OUTER

- (a) Install the retractor with the bolt.

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



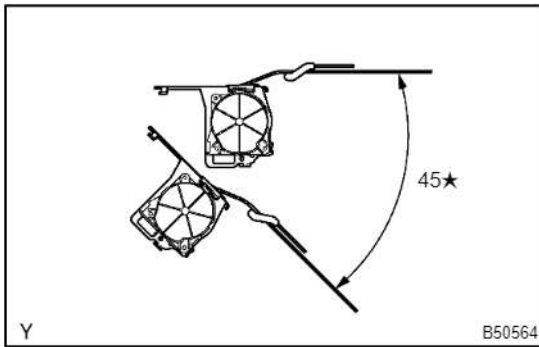
- (b) Install the anchor of the rear seat 3 point type belt assembly outer RH with the bolt.

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

NOTICE:

Take care for the anchor not to run onto the protrusion part of the floor panel.

- (c) Check the degree of tilt when the belt begins to lock the ELR.
- (1) Check the degree in the same way as the rear seat inner with center belt assembly RH.
- (d) Check the ELR lock.
- (1) Check that the belt will lock when pulling out the belt quickly with the belt installed.
- (e) Check the fastening function for child restraint system.
- (1) Check the function in the same way as the rear seat inner with center belt assembly RH.



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

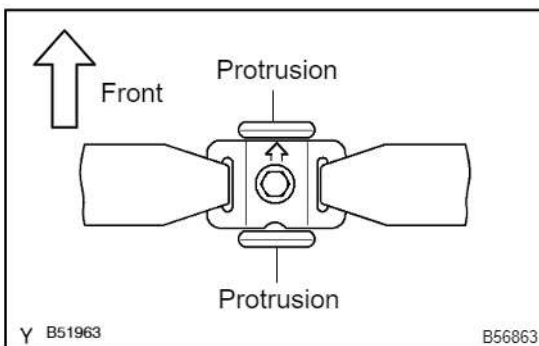
- (a) Check the degree of tilt when the belt begins to lock the ELR.
 - (1) Check the belt will not lock within 15 degrees of tilt in all the direction but the belt will lock over 45 degrees of tilt when moving the installed retractor gently.
- (b) Install the retractor with the bolt.

Torque: 42 N·m (420 kgf·cm, 31 ft·lbf)
- (c) Check the ELR lock.
 - (1) Check that the belt will lock when pulling out the belt quickly with the belt installed.
- (d) Check the fastening function for child restraint system.

NOTICE:

Check should be done 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.



- (e) Install the floor anchor with the bolt, directing an arrow mark on the plate to the vehicle's front direction.

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

NOTICE:

Take care for the anchor not to run onto the protrusion part of the floor panel.

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

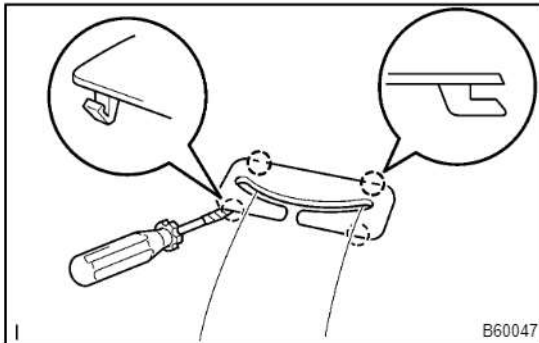
REAR SEAT BELT (TMMK MADE)

REPLACEMENT

61058-04

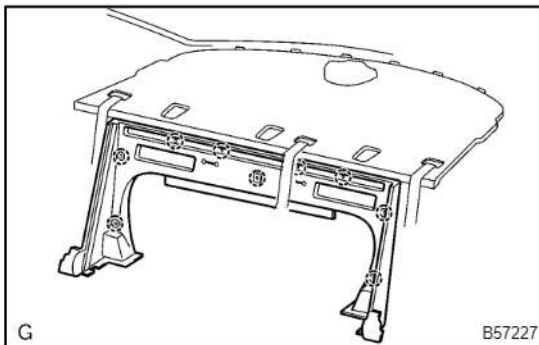
HINT:

- 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 RH side, use the same procedures as on the LH side.
1. **REMOVE REAR SEAT CUSHION ASSY** (See page 72-32)
 2. **REMOVE ROOF SIDE GARNISH INNER RH** (See page 76-22)
 3. **REMOVE ROOF SIDE GARNISH INNER LH** (See page 76-22)
 4. **REMOVE CENTER STOP LAMP ASSY** (See page 65-22)

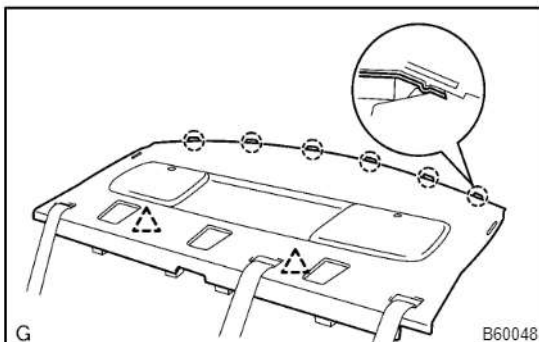


5. **REMOVE REAR SEAT SHOULDER BELT COVER RH**
 - (a) Using a screwdriver, disengage the claws in the front side.
- HINT:
- Tape the screwdriver tip before use.
 - (b) Pull out the shoulder belt cover to the front side to disengage the claws.
 - (c) Pull out the shoulder belt from the slit to remove the shoulder belt cover.

6. **REMOVE REAR SIDE SEAT BACK ASSY RH** (See page 72-32)
7. **REMOVE REAR SIDE SEAT BACK ASSY LH** (See page 72-32)



8. **REMOVE ROOM PARTITION BOARD ASSY**
 - (a) Remove the 9 clips and room partition board.



9. **REMOVE PACKAGE TRAY TRIM PANEL ASSY**
 - (a) Remove the 3 bolts and floor anchor of the seat belt.
 - (b) Disengage the clips and claws and pull out the belt to remove the package tray trim.

10. REMOVE REAR SEAT 3 POINT TYPE BELT ASSY OUTER

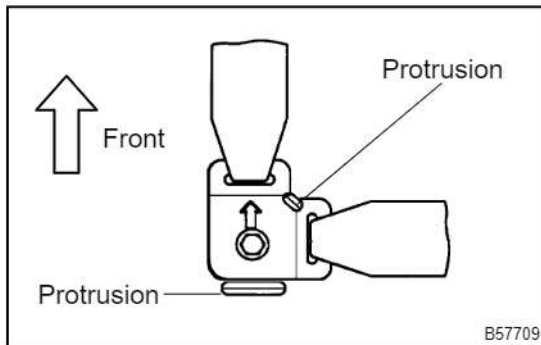
- (a) Remove the bolt in the retractor, and disengage the claws of the stopper to remove the rear seat belt assembly outer.

11. REMOVE REAR SEAT INNER W/CENTER BELT ASSY RH

- (a) Remove the bolt, and disengage the claws of the stopper to remove the rear seat inner with center belt assembly RH.

12. REMOVE REAR SEAT INNER W/CENTER BELT ASSY LH

- (a) Remove the bolt in the retractor, and remove the rear seat inner with center belt assembly LH.

**13. INSTALL REAR SEAT INNER W/CENTER BELT ASSY RH**

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

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

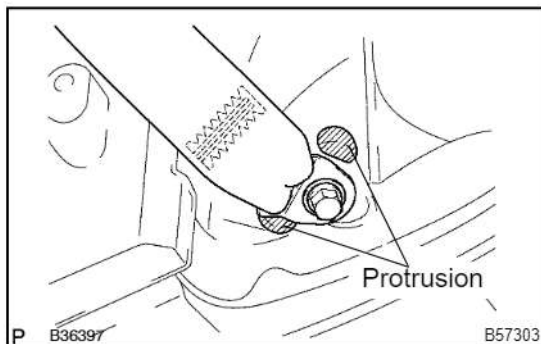
NOTICE:

Take care for the anchor not to run onto the protrusion part of the floor panel.

14. INSTALL REAR SEAT 3 POINT TYPE BELT ASSY OUTER

- (a) Install the retractor with the bolt.

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



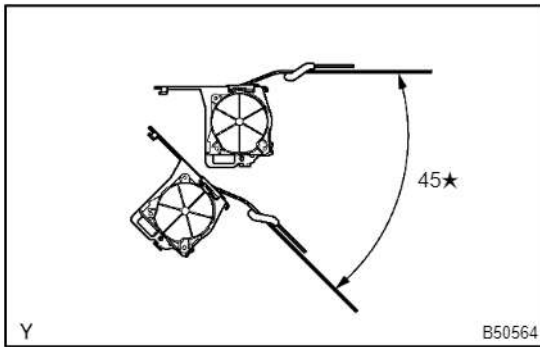
- (b) Install the anchor of the rear seat 3 point type belt assembly outer RH with the bolt.

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

NOTICE:

Take care for the anchor not to run onto the protrusion part of the floor panel.

- (c) Check the degree of tilt when the belt begins to lock the ELR.
- (1) Check in the same way as the rear seat inner with center belt assembly RH.
- (d) Check the ELR lock.
- (1) Check the degree that the belt will lock when pulling out the belt quickly with the belt installed.
- (e) Check the fastening function for child restraint system.
- (1) Check the function in the same way as the rear seat inner with center belt assembly RH.



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

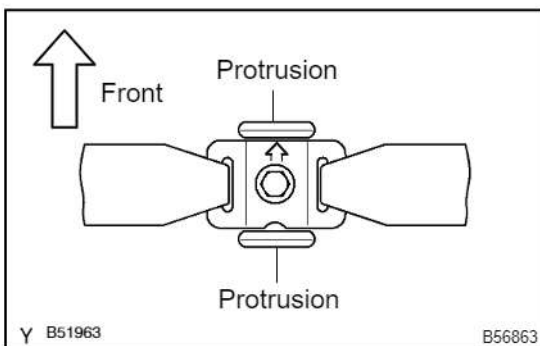
- (a) Check the degree of tilt when the belt begins to lock the ELR.
 - (1) Check the belt will not lock within 15 degrees of tilt in all the direction but the belt will lock over 45 degrees of tilt when moving the installed retractor gently.
- (b) Install the retractor with the bolt.

Torque: 42 N·m (420 kgf·cm, 31 ft·lbf)
- (c) Check the ELR lock.
 - (1) Check that the belt will lock when pulling out the belt quickly with the belt installed.
- (d) Check the fastening function for child restraint system.

NOTICE:

Check should be done 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.



- (e) Install the floor anchor with the bolt, directing an arrow mark on the plate to the vehicle's front direction.

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

NOTICE:

Take care for the anchor not to run onto the protrusion part of the floor panel.

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

PROBLEM SYMPTOMS TABLE

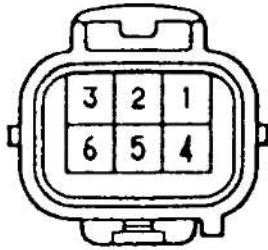
Symptom	Suspected Area	See Page
Driver side seat belt warning light does not blink, or it does not go off after the seat belt is fastened when the ignition switch is on.	1. IG1 relay 2. AM1 fuse 3. GAUGE1 fuse 4. Front seat inner belt assy LH 5. Combination meter 6. Wire harness	61-1 61-1 61-1 61-3 05-2021 –
Passenger side seat belt warning light does not blink with the front passenger's seat occupied, or it does not go off after the seat belt is fastened when the ignition switch is on.	1. IG1 relay 2. AM1 fuse 3. GAUGE1 fuse 4. Clock 5. Front seat inner belt assy RH 6. Occupant classification ECU 7. Occupant classification sensor 8. Airbag sensor assy 9. Wire harness	61-1 61-1 61-1 05-2023 05-1478 05-1478 05-1478 05-1478 –

NOTICE:

The front seat inner belt RH can not be inspected. When the front seat inner belt seems to be malfunctioning, using the hand-held tester to check the DTC.

INSPECTION

TMMK made



B75448

1. TMMK made: INSPECT FRONT SEAT INNER BELT ASSY LH

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

Standard:

Tester Connection	Specified Condition
3 - 6	1 MΩ or higher

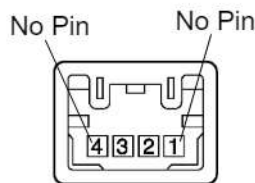
- (3) Release the seat belt.
- (4) Check the resistance between the terminals.

Standard:

Tester Connection	Specified Condition
3 - 6	Below 1 Ω

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

TMC made



B75863

2. TMC made: INSPECT FRONT SEAT INNER BELT ASSY LH

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

Standard:

Tester Connection	Specified Condition
2 - 3	1 MΩ or higher

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

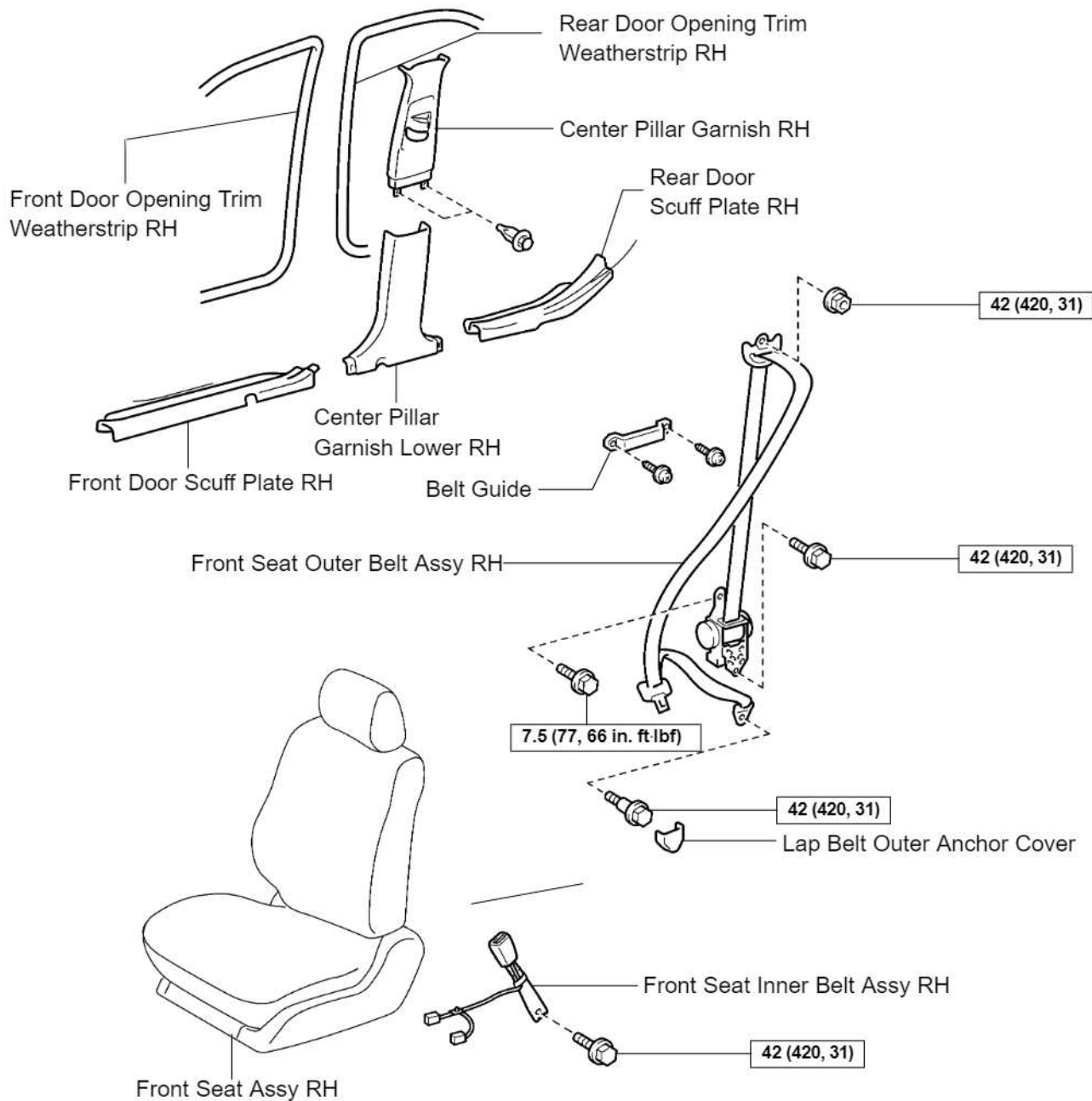
Standard:

Tester Connection	Specified Condition
2 - 3	Below 1 Ω

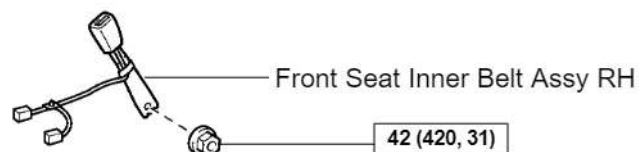
If the result is not as specified, replace the inner belt assy.

FRONT SEAT BELT COMPONENTS

81053-03



TMMK Made:



0 N·m (kgf·cm ft·lbf) : Specified torque

B74556

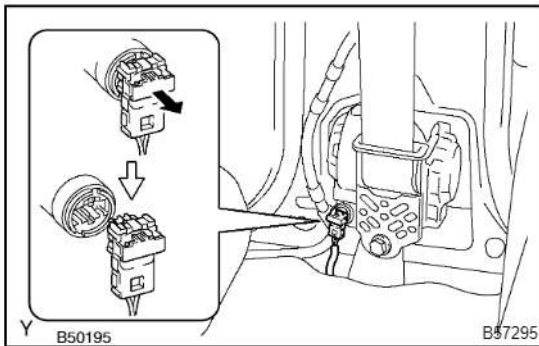
REPLACEMENT

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 RH side, use the same procedures as on the LH side.
1. **DISCONNECT BATTERY NEGATIVE TERMINAL**
 2. **REMOVE FRONT SEAT ASSY RH** (See page 72-23 or 72-15)
 3. **REMOVE FRONT DOOR SCUFF PLATE RH** (See page 76-22)
 4. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH** (See page 76-22)
 5. **REMOVE REAR DOOR SCUFF PLATE RH** (See page 76-22)
 6. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP RH** (See page 76-22)
 7. **REMOVE LAP BELT OUTER ANCHOR COVER** (See page 76-22)
 8. **REMOVE CENTER PILLAR GARNISH LOWER RH** (See page 76-22)
 9. **REMOVE CENTER PILLAR GARNISH UPPER RH** (See page 76-22)
 10. **REMOVE FRONT SEAT OUTER BELT ASSY RH**
 - (a) Remove the 2 screws and belt guide.
 - (b) Remove the nut and the shoulder anchor.

NOTICE:

When removing the seat belt pretensioner, operation must be started after 90 seconds have passed from the time the ignition switch is turned to the LOCK position and the negative (-) terminal cable is disconnected from the battery.



- (c) Disconnect the connector.
 - (1) Using a screwdriver, pull the locking button of the pretensioner connector to your side to release the lock.

HINT:

Tape the screwdriver tip before use.

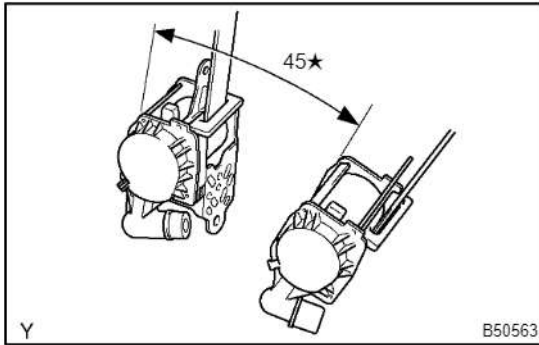
- (d) Remove the 2 bolts and the front seat outer belt assembly.

11. REMOVE FRONT SEAT INNER BELT ASSY RH

- (a) Disconnect the connector and clamp.
- (b) TMC made:
Remove the bolt and the front seat inner belt assembly.
- (c) TMMK made:
Remove the nut and the front seat inner belt assembly.

12. INSTALL FRONT SEAT INNER BELT ASSY RH

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

**13. INSTALL FRONT SEAT OUTER BELT ASSY RH**

- (a) Check the degree of tilt when beginning to lock the ELR.
(1) Make sure that the belt cannot be pulled out by over 45 degrees of tilt.

NOTICE:

Do not disassemble the retractor.

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

Torque:

7.5 N·m (80 kgf·cm, 66 in.·lbf) (Upper part of retractor)

42 N·m (420 kgf·cm, 31 ft·lbf) (Lower part of retractor)

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

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

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

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

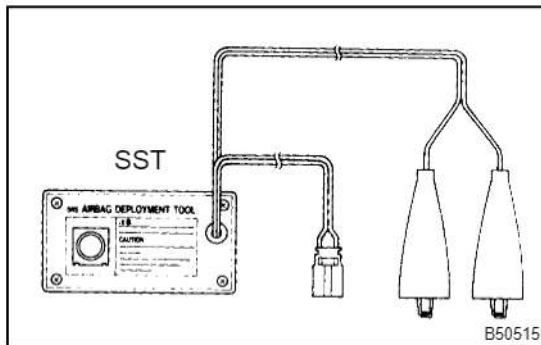
- (e) Check the ELR lock.

- (1) Check that the seat belt is locked when the seat belt is pulled out quickly with the seat belt installed in the vehicle.

DISPOSAL

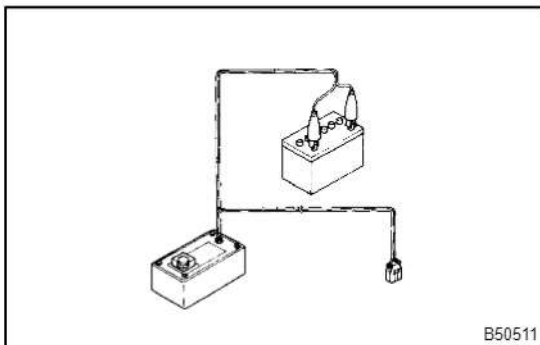
HINT:

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 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 procedures given in step 1-(d) in DISPOSAL.



CAUTION:

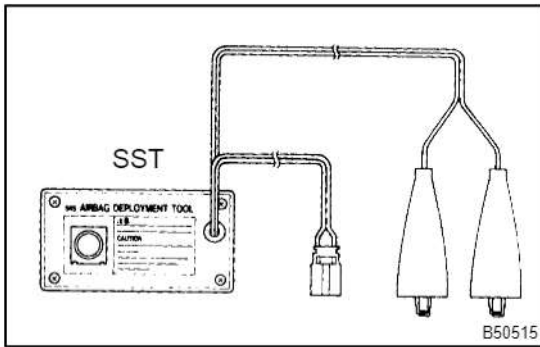
- Never dispose of front seat outer belt which has an in-activated pretensioner.
- The seat belt pretensioner produces a sizeable exploding sound when it activates, so perform operation out-of-door and where it will not create a nuisance to nearby residents.
- When activating a front seat outer belt (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 an activated pretensioner.
- Always wash your hands with water after completing operation.
- Do not apply water, etc. to a front seat outer belt with an activated pretensioner.
- When activating the seat belt pretensioner, always use the specified SST. (09062-00700, 09082-00770) (SRS Airbag Deployment Tool) Perform the operation in a place away from electrical noise.



1. DISPOSE OF FRONT SEAT OUTER BELT ASSY RH (WHEN SCRAPPING VEHICLE DEPLOYMENT METHOD)

HINT:

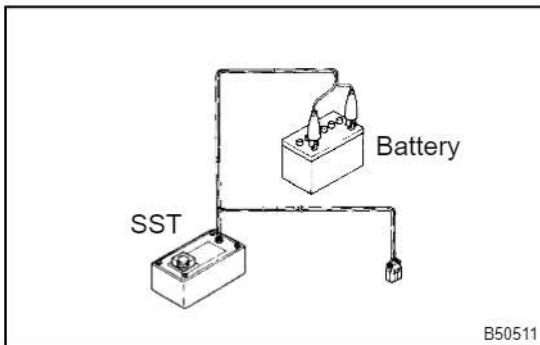
Check that the battery positive voltage is above 12 V.



(a) Check functioning of SST.

CAUTION:

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

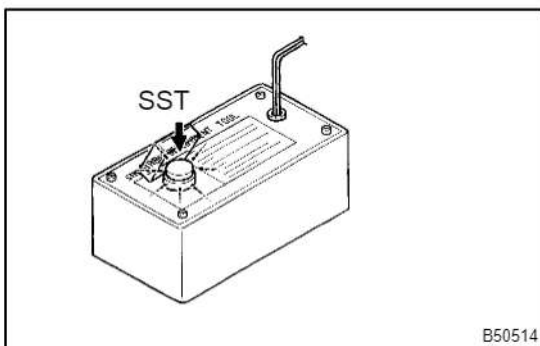


(1) Connect the SST to the battery.

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.

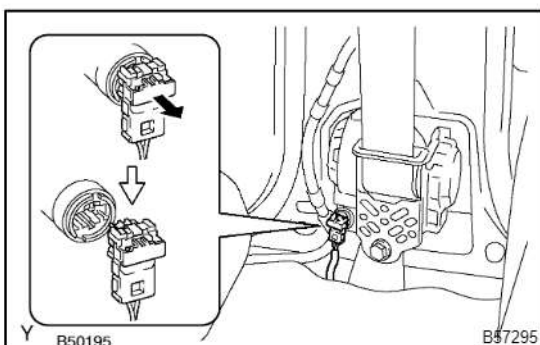
Press SST activation switch, and check that the LED of SST activation switch lights up.

CAUTION:

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

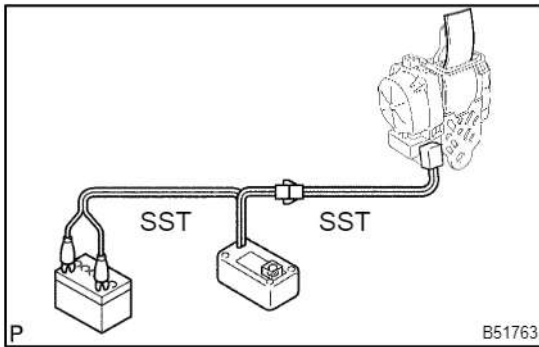
(b) Disconnect the pretensioner connector.

- (1) Remove the front door scuff plate RH (See page 76-22).
- (2) Remove the rear door scuff plate RH (See page 76-22).
- (3) Remove the front door opening trim weather strip RH (See page 76-22).
- (4) Remove the rear door opening trim weather strip RH (See page 76-22).
- (5) Remove the center pillar garnish lower RH (See page 76-22).
- (6) Remove the center pillar garnish upper RH (See page 76-22).



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

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

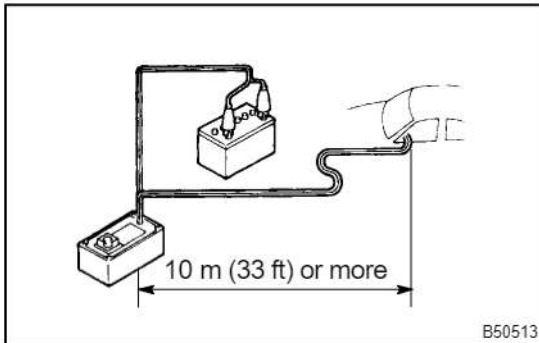


(c) Install SST.

- (1) Connect 2 SST, then connect them 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) Move SST at least 10 m (33 ft) away from the front of the vehicle.

- (3) Close all the doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

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

(d) 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 SST activation switch and activate the seat belt pretensioner.

HINT:

The seat belt pretensioner operates simultaneously with the LED of 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.

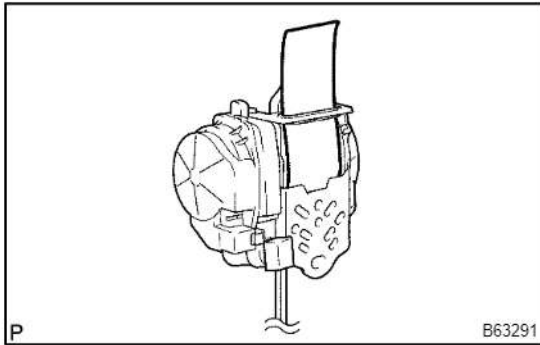
HINT:

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

2. DISPOSE OF FRONT SEAT OUTER BELT ASSY RH (WHEN DISPOSING OF AIRBAG ASSEMBLY DEPLOYMENT METHOD)

NOTICE:

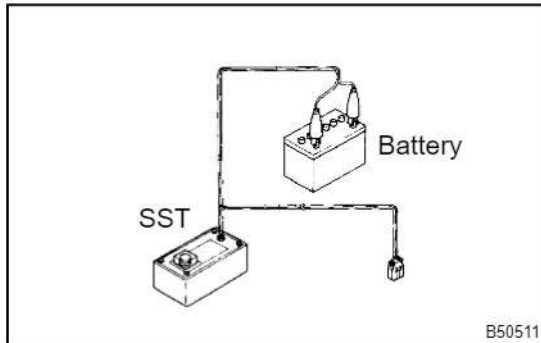
- When disposing of a front seat outer belt (with seat belt pretensioner) only, never use the customer's vehicle to activate the seat belt pretensioner.
- Be sure to follow the procedures given on the next page when activating the seat belt pretensioner.



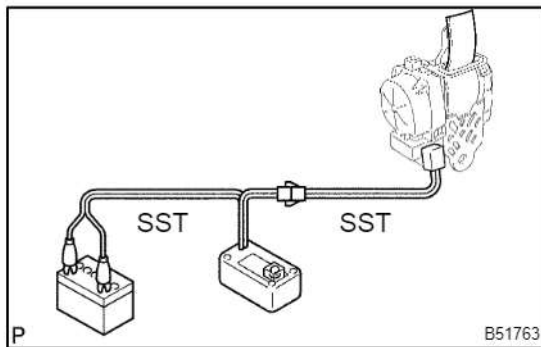
(a) Remove the front seat outer belt (See page 61-5).

HINT:

Cut the belt near the seat belt retractor.



(b) Check functioning of SST (See step 1-(a)).

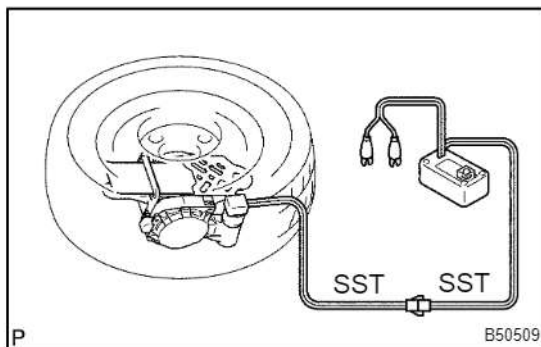


(c) Install SST.

(1) Connect 2 SST, then connect them 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 front seat outer belt on the ground and cover it with the disc wheel with tire.

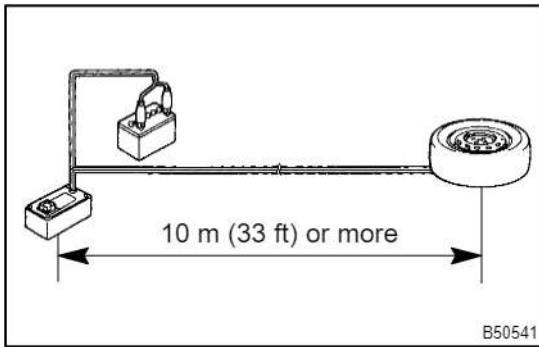
NOTICE:

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

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

NOTICE:

Take care not to damage SST wire harness.



- (d) Activate the seat belt pretensioner.
- (1) Connect 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 SST activation switch and activate the seat belt pretensioner.

HINT:

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



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