SEAT BELT PRETENSIONER

BO0KM-01

REMOVAL

NOTICE:

- **If the wiring connector of the supplemental restraint system is disconnected with the ignition switch at ON or ACC, diagnostic trouble codes will be recorded.**
- **Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.**

1. Regular Cab:

REMOVE THESE PARTS:

(a) Front door scuff plate
(b) Front door opening trim
(c) Front seat outer belt anchor bolts
(d) Quarter trim lower

2. Extra Cab:

REMOVE THESE PARTS:

(a) Front door scuff plate
(b) Front door opening trim
(c) Back panel upper garnish
(d) Back panel lower garnish
(e) Back panel trim
(f) Coat hook
(g) Front seat outer belt anchor bolts
(h) Rear seat outer belt anchor bolts
(i) Hole cover
(j) Quarter trim

3. Double Cab:

REMOVE THESE PARTS:

(a) Front door scuff plate
(b) Rear door scuff plate
(c) Center pillar lower garnish

4. REMOVE FRONT SEAT OUTER BELT

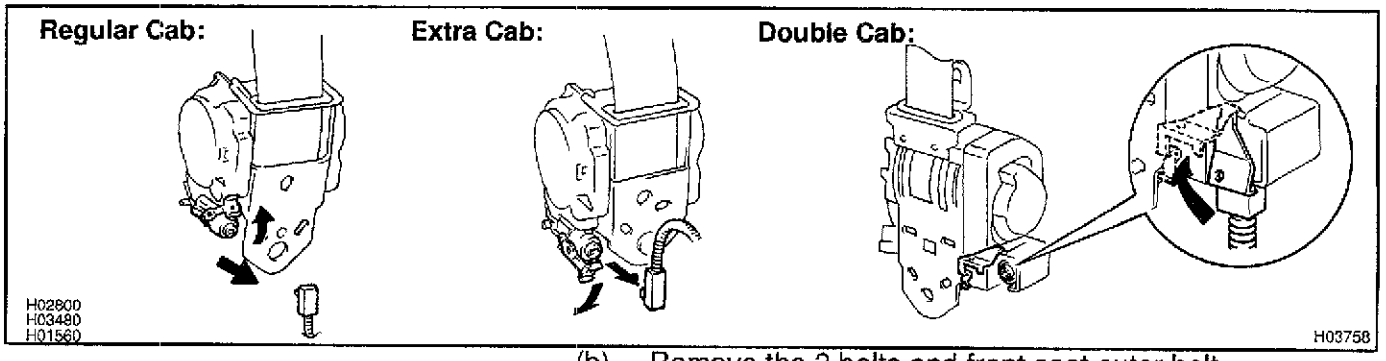
CAUTION:

Never disassemble the front seat outer belt.

NOTICE:

When removing the front outer seat belt, take care not to pull the seat belt pretensioner wire harness.

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



(b) Remove the 2 bolts and front seat outer belt.

BO3KN-01

INSPECTION

1. PRETENSIONER IS NOT ACTIVATED

(a) Perform a diagnostic system check.
(See page DI–109)

(b) Perform a visual check which includes the following items with the front seat outer belt removed from the vehicle.

- Double Cab
  Check for cuts and cracks in, or marked discoloration of the center pillar lower garnish.
- Regular and Extra Cab:
  Check for cuts and cracks in, or marked discoloration of the quarter trim.
- Check for cuts and cracks in wire harness, and for chipping in connectors.
- Check for deformation of the center pillar or quarter pillar.

CAUTION:
For removal and installation of the front seat outer belt, see page BO–134 and BO–143.
Be sure to follow the correct procedure.

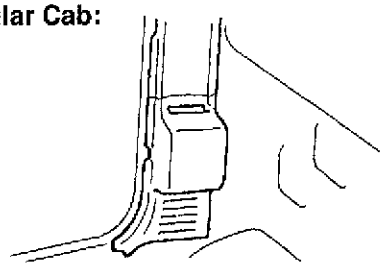
2. PRETENSIONER IS ACTIVATED

(a) Perform a diagnostic system check.
(See page DI–109)

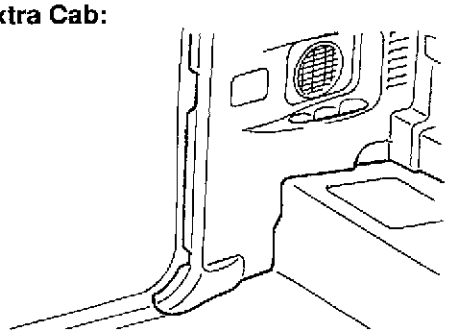
(b) Perform a visual check which includes the following items with the front seat outer belt removed from the vehicle.

- Check for damage on the connector and wire harness.
- Double Cab:
  Check for deformation of the center pillar lower garnish.
- Regular and Extra Cab:
  Check for deformation of the quarter pillar garnish.

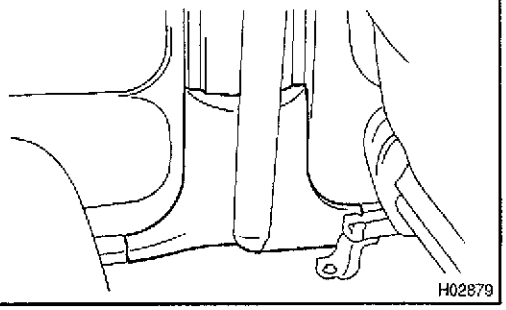
Regular Cab:



Extra Cab:



Double Cab:



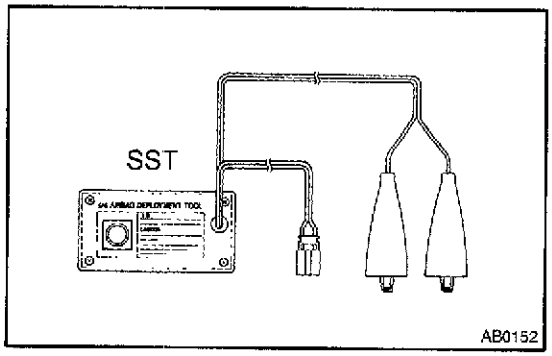
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BO0KO-01

DISPOSAL

HINT:

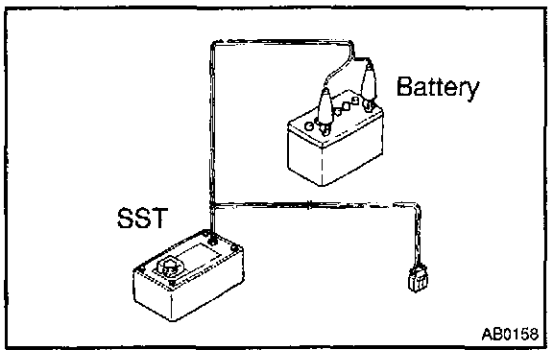
When scrapping vehicles equipped with a supplemental restraint system or disposing of a front seat outer belt (with seat belt pretensioner) always first activate the seat belt pretensioner in accordance with the procedure described below. If any abnormality occurs with the seat belt pretensioner operation, contact the SERVICE DEPT. of the DISTRIBUTOR. when disposing of a front seat outer belt (with seat belt pretensioner) activated in a collision, follow the same procedure given under "When scrapping vehicle, step 1–(d) dispose of front seat outer belt (with seat belt pretensioner)".



CAUTION:

- **Never dispose of front seat outer belt which has an inactivated 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 the seat belt pretensioner, always use the specified SST. (SRS Airbag Deployment Tool) Perform the operation in a place away from electrical noise.**

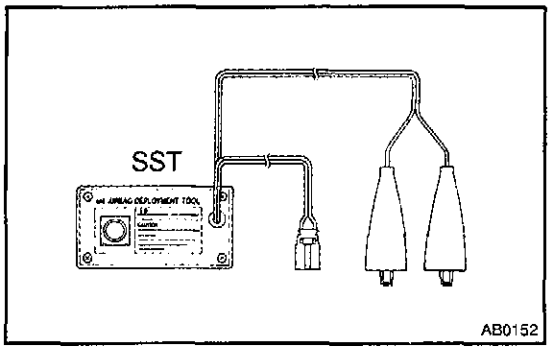
  SST 09082–00700, 09082–00740
- **When activating a front seat outer belt (with seat belt pretensioner), perform the operation from at least 10 m (33 ft) away from the front seat outer belt.**
- **Use gloves and safety glasses when handling a front seat outer belt with operated pretensioner.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water, etc. to a front seat outer belt with operated pretensioner.**



1. SEAT BELT PRETENSIONER ACTIVATION WHEN SCRAPPING VEHICLE

HINT:

Have a battery ready as the power source to deploy the airbag.

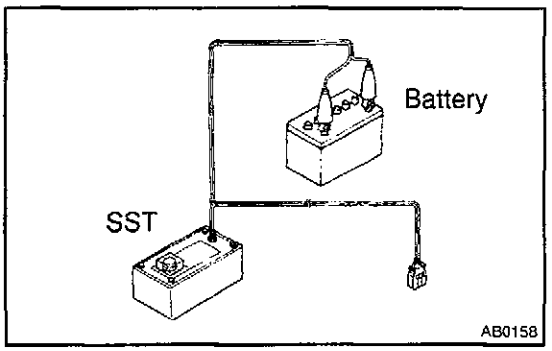


(a) Check functioning of SST.

CAUTION:

When activating the seat belt pretensioner, always use the specified SST: SRS Airbag Deployment Tool.

SST 09082–00700, 09082–00740

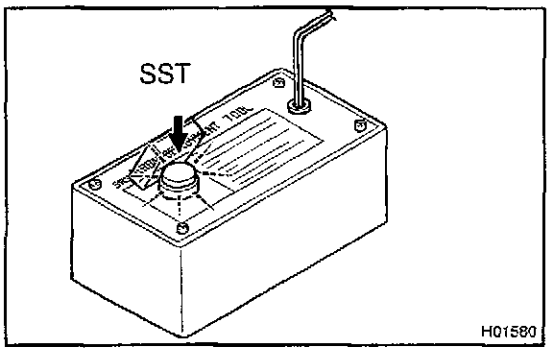


(1) Connect the SST to battery.

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 with the seat belt pretensioner.



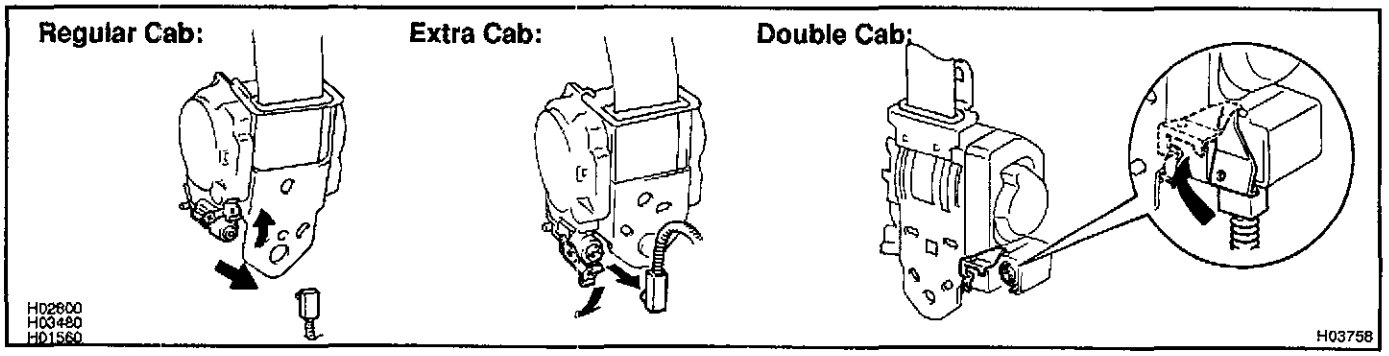
(2) Check functioning of SST.

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

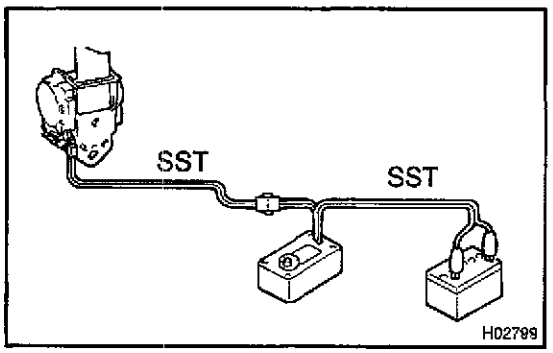
CAUTION:

If the LED lights up when the activation switch is not being pressed, SST malfunction is probable, so definitely do not use the SST.

(b) Install the SST.
(1) Remove the front door scuff plate.
(2) Remove the center pillar lower garnish.
(3) Disconnect the pretensioner connector as shown in the illustration.

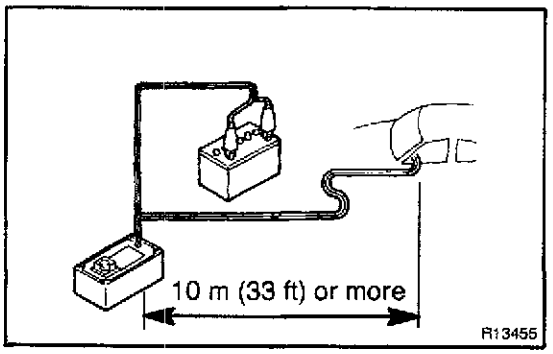


(4) Buckle the front seat belt and check that there is no looseness and slack in the front seat inner belt and front seat outer belt.
SST 09082–00700, 09082–00740



(5) Connect the 2 SST each other, then connect them to the seat belt pretensioner.
SST 09082–00700, 09082–00740

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



(6) Move the SST to at least 10 m (33 ft) from the front of the vehicle.
(7) Close all the doors and windows of the vehicle.

NOTICE:
Take care not to damage the SST wire harness.
(8) Connect the SST red clip to the battery positive (+) terminal and the black clip to the negative (–) terminal.

(c) 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 activates simultaneously as the LED of the SST activation switch lights up.

(d) Dispose of front seat outer belt (with seat belt pretensioner).

CAUTION:

- **The front seat outer belt is very hot when the seat belt pretensioner is activated, so leave it alone for at least 30 minutes after deployment.**
- **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.**

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

2. ACTIVATION WHEN DISPOSING OF FRONT SEAT OUTER BELT ONLY

NOTICE:

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

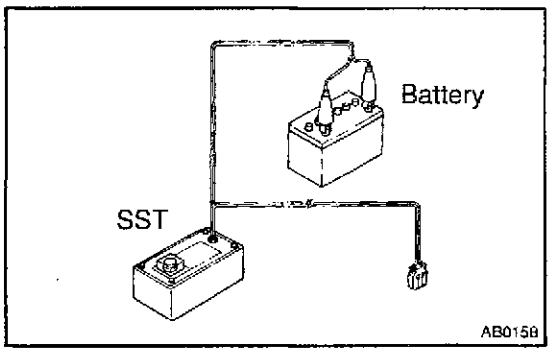
HINT:

Have a battery ready as the power source when activate the seat belt pretensioner.

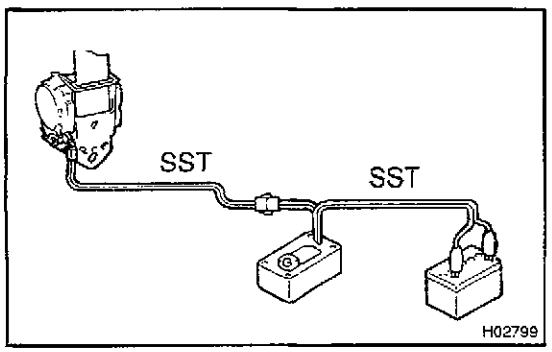
(a) Remove the front seat outer belt.
(See page BO–134)

HINT:

Cut the belt near the seat belt retractor.



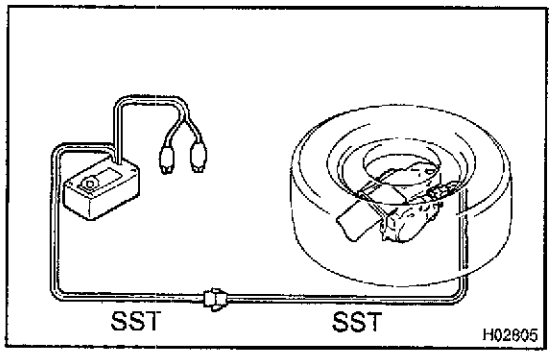
(b) Check functioning of SST.
(See page DI–109)
SST 09082–00700



(c) Install the SST.
(1) Connect the 2 SST each other, then connect them to the seat belt pretensioner.
SST 09082–00700, 09082–00740

NOTICE:

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



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

NOTICE:

Place the front seat outer belt shown in the illustration.

(3) Move the SST to 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.

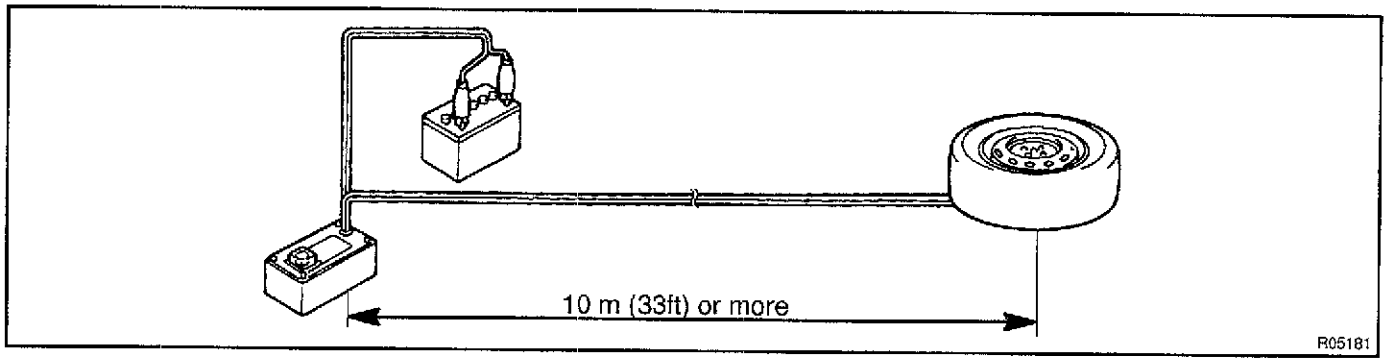
(1) Connect the SST red clip to the battery positive (+) terminal and black clip to the battery negative (–) terminal.

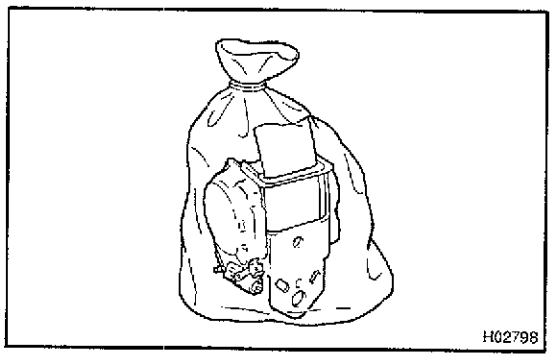
(2) Check that no one is within 10 m (33 ft) area around the disc wheel.

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

HINT:

The seat belt pretensioner operates simultaneously as the LED of the SST activation switch lights up.





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

CAUTION:

- **The front seat 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.

BO0KP-01

REPLACEMENT

REPLACE REQUIREMENTS

In the following cases, replace the seat belt pretensioner.

- If the seat belt pretensioner has been activated.
- If the seat belt pretensioner has been found to be faulty in troubleshooting.
- If the front seat outer belt has been found to be faulty during the check in items 1–(b) or 2–(b).
- If the front seat outer belt has been dropped.

CAUTION:

For removal and installation of the seat belt pretensioner, see page BO–134 and BO–143.

Be sure to follow the correct procedure.

B0IKO-01

INSTALLATION

NOTICE:

Never use seat belt pretensioner from another vehicle. When replacing parts, replace them with new parts.

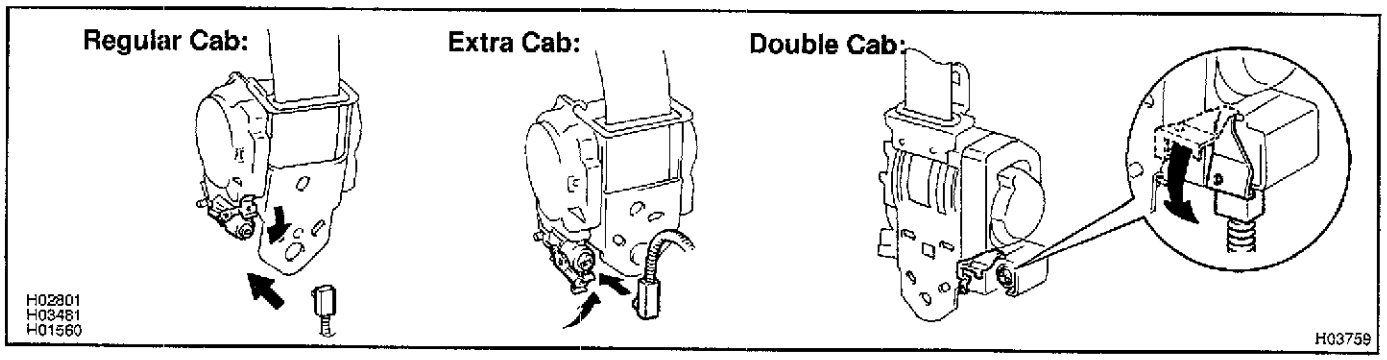
1. INSTALL FRONT SEAT OUTER BELT

(a) Install the front seat belt parts by following the reverse order of removal and torque the following bolts.
Front seat outer belt retractor
Torque:
Upper bolt: 8.5 N·m (85 kgf·cm, 73 in.·lbf)
Lower bolt: 43 N·m (440 kgf·cm, 32 ft·lbf)

NOTICE:

- **Make sure that the front seat outer belt is installed to the specified torque.**
- **If the front seat outer belt has been dropped, or there are cracks, dents or other defects in the case or connector, replace the front seat outer belt with a new one.**
- **When installing the front seat outer belt, take care that the wiring does not interfere with other parts and is not pinched between other parts.**

(b) Connect the pretensioner connector as shown in the illustration.



2. Regular Cab:
INSTALL THESE PARTS:

(a) Quarter trim lower
(b) Front seat outer belt anchor bolts
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)
(c) w/ Full Covered Quarter Trim:
back panel upper garnish
(d) Front door opening trim
(e) Front door scuff plate

3. Extra Cab:

INSTALL THESE PARTS:

(a) Quarter trim
(b) Hole cover
(c) Rear seat outer belt anchor bolts
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)
(d) Front seat outer belt anchor bolts
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)
(e) coat hook
(f) Back panel trim
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)
(g) Back panel lower garnish
(h) Back panel upper garnish
(i) Front door opening trim
(j) Front door scuff plate

4. Double Cab:

INSTALL THESE PARTS:

(a) Center pillar lower garnish
(b) Rear door scuff plate
(c) Front door scuff plate
(d) Front seat outer belt anchor bolts
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)