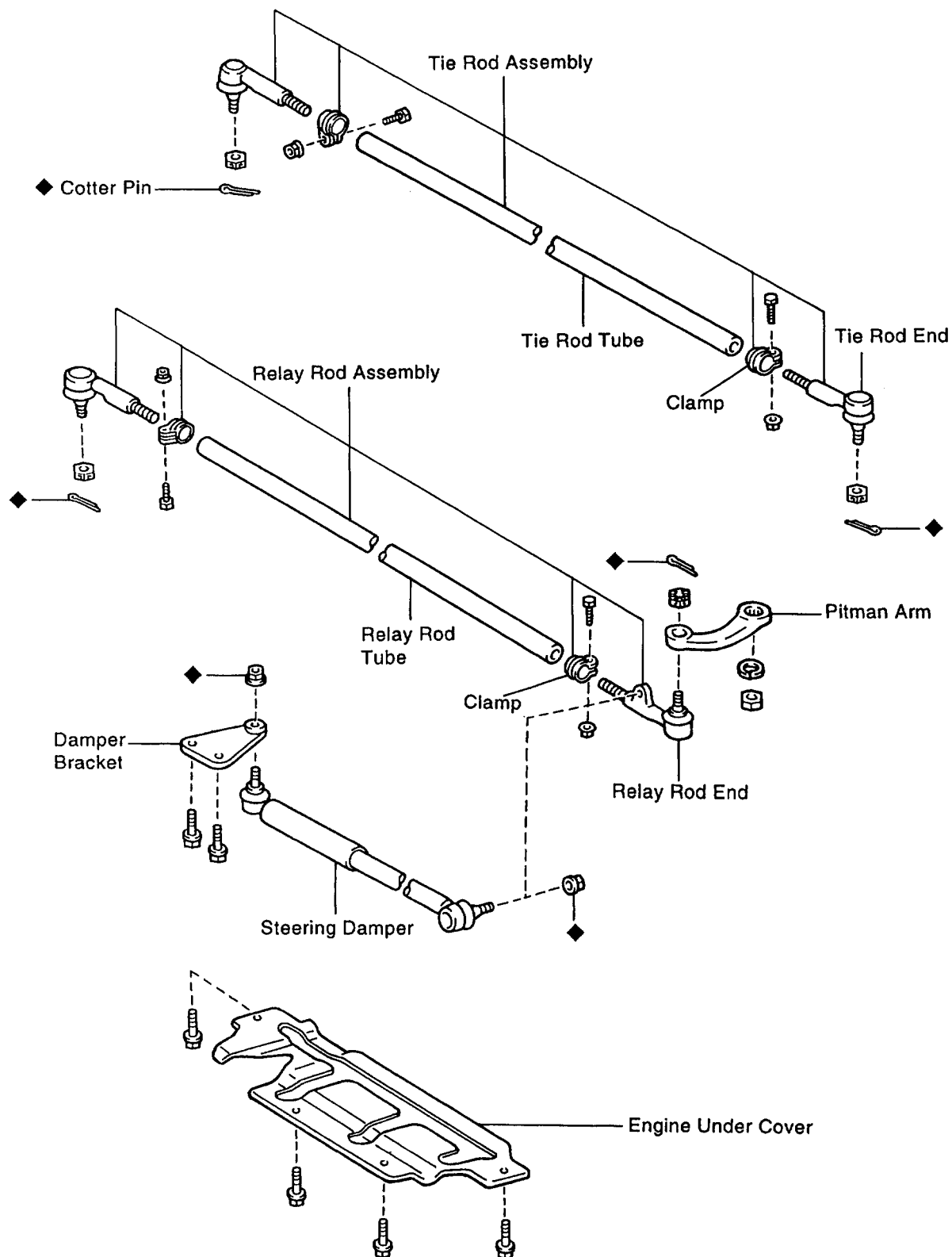
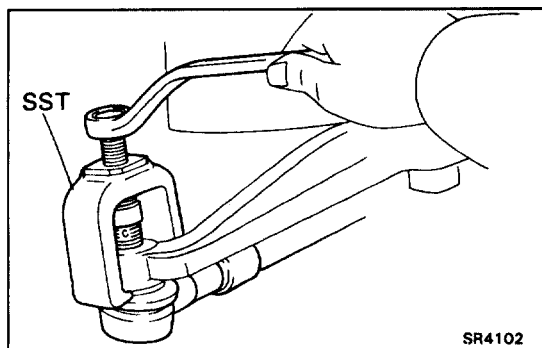


STEERING LINKAGE COMPONENTS



◆ Non-reusable part



STEERING LINKAGE REMOVAL

NOTICE: When using a vise, do not overtighten it.

1. REMOVE ENGINE UNDER COVER

Remove the 4 bolts.

2. REMOVE PITMAN ARM

(a) Remove the cotter pin and nut.

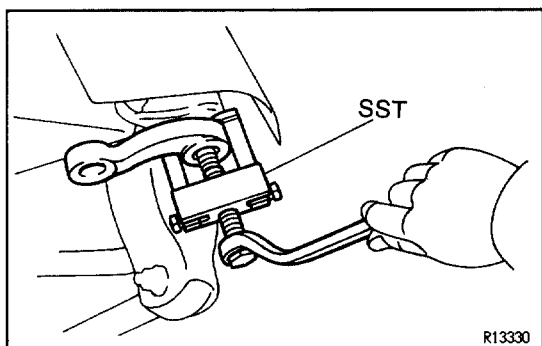
(b) Using SST, disconnect the pitman arm from the relay rod assembly.

SST 09611-22012

(c) Remove the pitman arm set nut and spring washer.

(d) Using SST, disconnect the pitman arm from the PS gear assembly.

SST 09628-62011

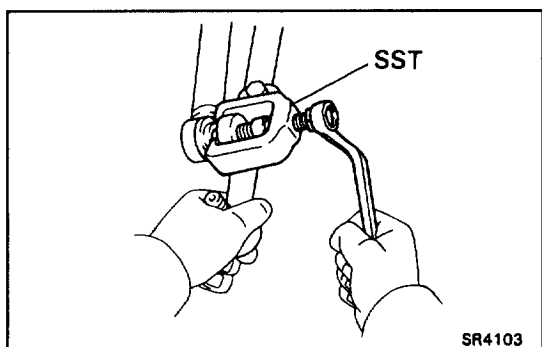


3. REMOVE STEERING DAMPER WITH STEERING DAMPER BRACKET

(a) Remove the nut and 2 damper bracket set bolts.

(b) Using SST, disconnect the damper with damper bracket from the relay rod assembly.

SST 09611-22012



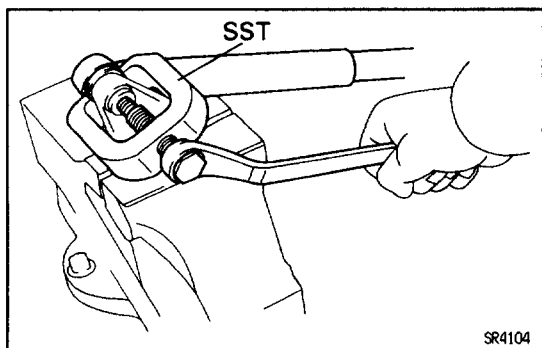
4. REMOVE STEERING DAMPER

(a) Secure the damper bracket in a vise.

(b) Remove the nut.

(c) Using SST, remove the damper from the damper bracket.

SST 09610-55012

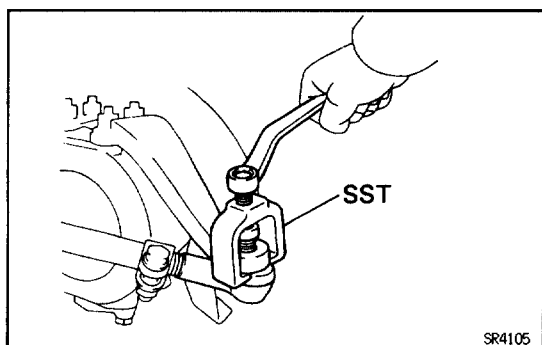


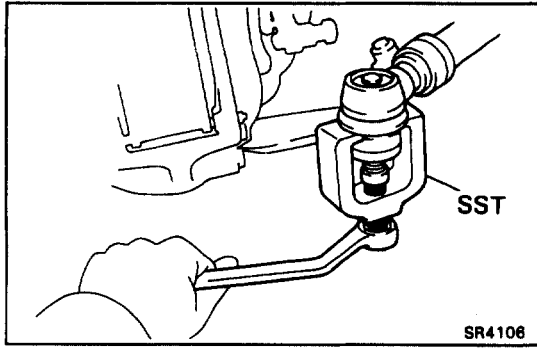
5. REMOVE RELAY ROD ASSEMBLY

(a) Remove the cotter pin and nut.

(b) Using SST, disconnect the relay rod assembly from the knuckle arm.

SST 09611-22012





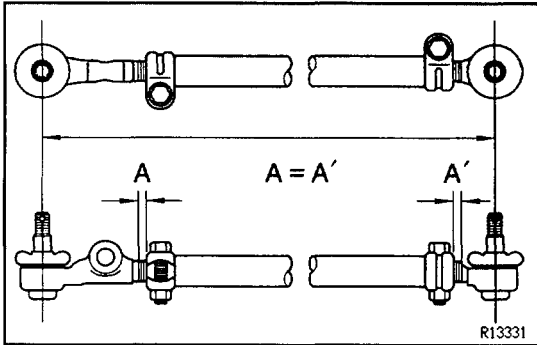
6. REMOVE TIE ROD ASSEMBLY

- (a) Remove the cotter pin and nut.
- (b) Using SST, disconnect the tie rod assembly from the knuckle arm.

SST 09611-22012

7. REMOVE TIE ROD END AND RELAY ROD END

Loosen the tie rod end or relay rod end clamp and remove the tie rod end or relay rod end.



STEERING LINKAGE INSTALLATION

HINT: When connecting the ball stud to the arm or rod, remove the grease on the joint surfaces.

1. INSTALL TIE ROD END AND RELAY ROD END

- (a) Turn the tie rod ends or relay rod ends equal amounts into the rod tube. Tie rods should be approximately 1,207 mm (47.51 in.). Relay rods should be approximately 1,085 mm (42.72 in.).
- (b) The remaining length of threads on both tie rod ends or relay rod ends should be equal.
- (c) Temporarily tighten the tie rod end or relay rod end clamps.

2. INSTALL TIE ROD ASSEMBLY

- (a) Connect the tie rod assembly to the knuckle arm.
- (b) Torque the nut.

Torque: 91 N·m (925 kgf·cm, 67 ft·lbf)

- (c) Install a new cotter pin.
- (d) Torque the clamp bolt and nut.

Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)

3. INSTALL RELAY ROD ASSEMBLY

- (a) Connect the relay rod assembly to the knuckle arm.
- (b) Torque the nut.

Torque: 91 N·m (925 kgf·cm, 67 ft·lbf)

- (c) Install a new cotter pin.
- (d) Torque the clamp bolt and nut.

Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)

4. INSTALL STEERING DAMPER

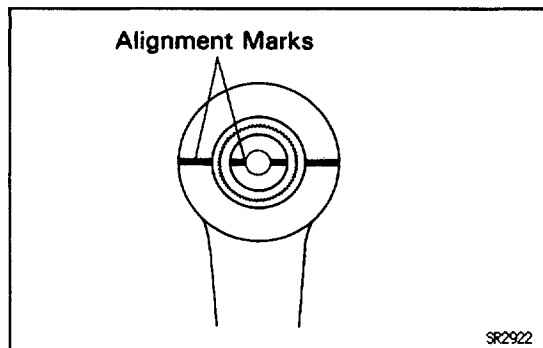
- (a) Secure the damper bracket in a vise.
- (b) Connect the damper to the damper bracket.
- (c) Torque the nut.

Torque: 74 N·m (750 kgf·cm, 54 ft·lbf)

5. INSTALL STEERING DAMPER WITH STEERING DAMPER BRACKET

- (a) Connect the damper with damper bracket to the relay rod assembly.
- (b) Torque the nut and 2 damper bracket set bolts.

Torque: 74 N·m (750 kgf·cm, 54 ft·lbf)

**6. INSTALL PITMAN ARM**

- (a) Align the alignment marks on the pitman arm and the cross shaft, and install the spring washer and set nut.

Torque: 177 N·m (1,800 kgf·cm, 130 ft·lbf)

- (b) Connect the pitman arm to the relay rod assembly.
(c) Torque the nut.

Torque: 91 N·m (925 kgf·cm, 67 ft·lbf)

- (d) Install a new cotter pin.

7. INSTALL ENGINE UNDER COVER

Tighten the 4 bolts.

8. CHECK FRONT WHEEL ALIGNMENT

(See page [SA-4](#))