STEERING LINKAGE (4WD and PRERUNNER)

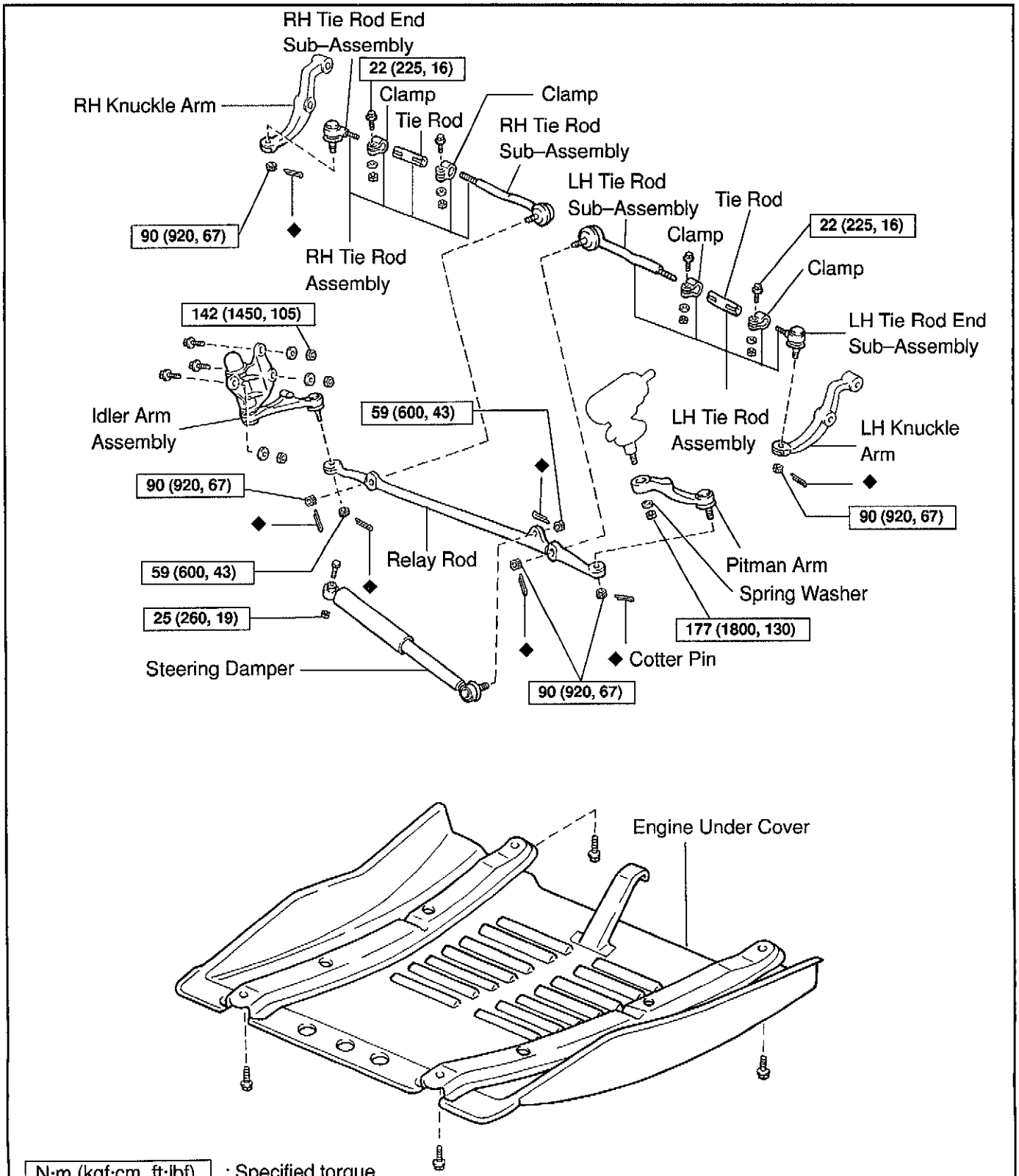
COMPONENTS

SR0B9-01

HINT:

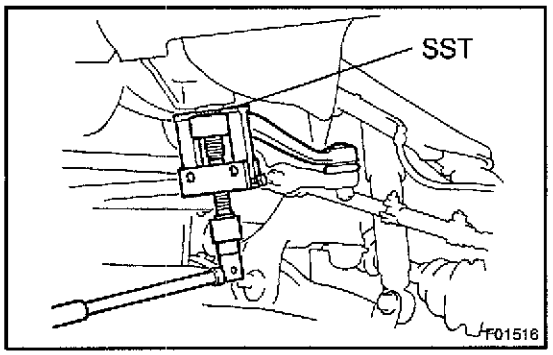
Prerunner is the model described below.

RZN193L – PRMDK, LN191L – PRMDS



SR0B1-01

REMOVAL



1. REMOVE ENGINE UNDER COVER

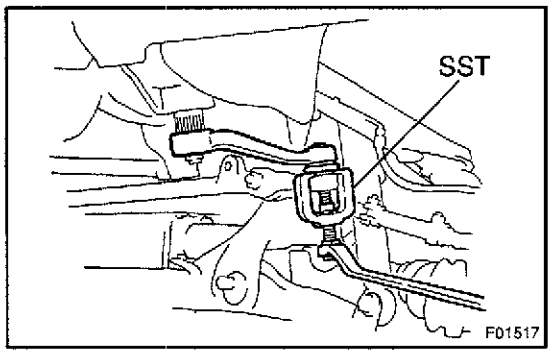
Remove the 4 bolts.

2. REMOVE PITMAN ARM

(a) Remove the nut and spring washer.

(b) Using SST, disconnect the pitman arm from the sector shaft.

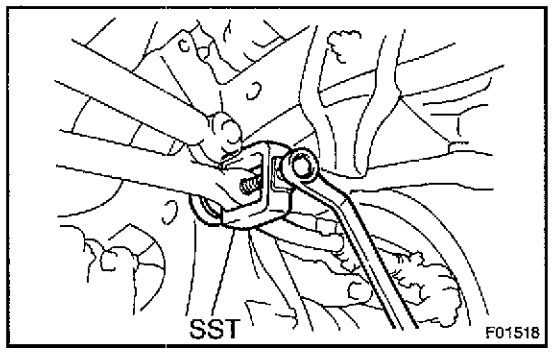
SST 09628–62011



(c) Remove the cotter pin and nut.

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

SST 09611–22012

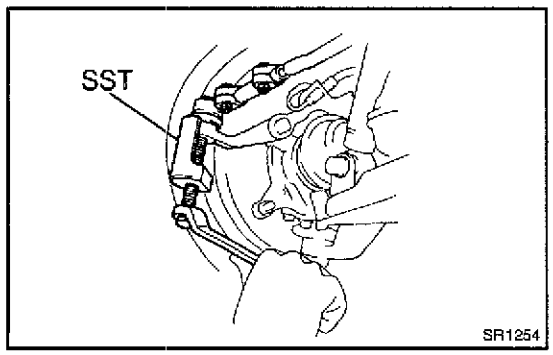


3. REMOVE LH AND RH TIE ROD ASSEMBLIES

(a) Remove the cotter pin and nut.

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

SST 09611–22012



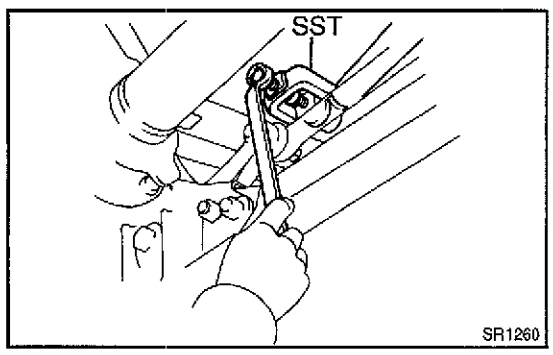
(c) Remove the cotter pin and nut.

(d) Using SST, disconnect the tie rod assembly from the knuckle arm.

SST 09610–20012

4. REMOVE RH AND LH TIE ROD SUB–ASSEMBLIES, TIE ROD END SUB–ASSEMBLIES, TIE RODS AND 2 CLAMPS

Remove the 2 bolts, washers and nuts.



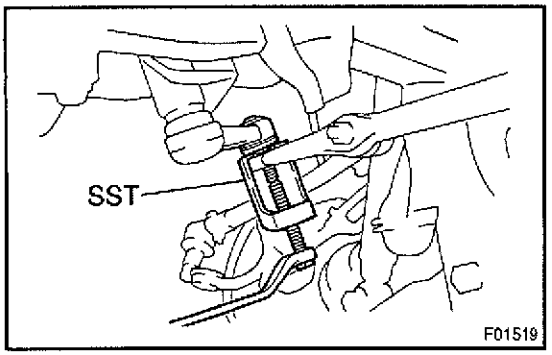
5. REMOVE STEERING DAMPER

(a) Remove the cotter pin and nut.

(b) Using SST, disconnect the steering damper from the relay rod.

SST 09611–22012

(c) Remove the bolt and nut.



6. REMOVE IDLER ARM ASSEMBLY

(a) Remove the cotter pin and nut.

(b) Using SST, disconnect the idler arm from the relay rod.
SST 09610–20012

(c) Remove the 3 bolts, washers and nuts.

SR0032-01

INSTALLATION

HINT:

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

1. **INSTALL IDLER ARM ASSEMBLY**

(a) Install the 3 bolts, washers and nuts.
Torque: 142 N·m (1,450 kgf·cm, 105 ft·lbf)

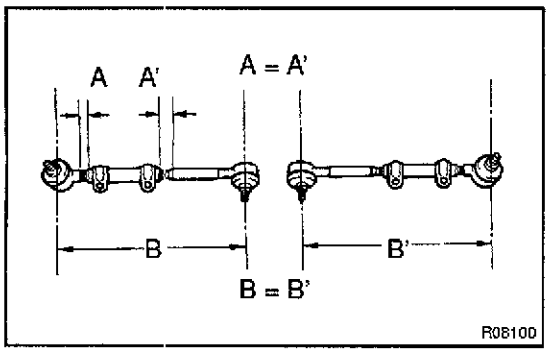
(b) Connect the idler arm to the relay rod.

(c) Install the nut and a new cotter pin.
Torque: 59 N·m (600 kgf·cm, 43 ft·lbf)

2. **INSTALL STEERING DAMPER**

(a) Torque the bolt and nut.
Torque: 25 N·m (260 kgf·cm, 19 ft·lbf)

(b) Install the nut and a new cotter pin.
Torque: 59 N·m (600 kgf·cm, 43 ft·lbf)

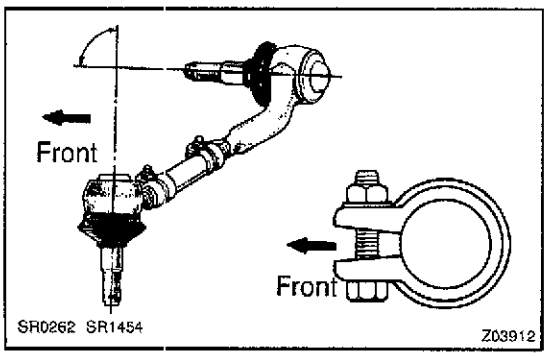


3. **INSTALL RH AND LH TIE ROD SUB–ASSEMBLIES, TIE ROD END SUB–ASSEMBLIES, TIE RODS AND 2 CLAMPS**

(a) Screw the tie rod end sub–assembly and tie rod sub–assembly into the tie rod.

HINT:

The tie rod assembly length should be approximately 329.2 mm (12.961 in.), and the remaining length of threads on both RH and LH tie rod assemblies should be equal.



(b) Turn the tie rod end sub–assembly so that they cross at about 90 degrees.

(c) After adjusting toe–in, torque the bolt.
(See page SA–6)
Torque: 22 N·m (225 kgf·cm, 16 ft·lbf)

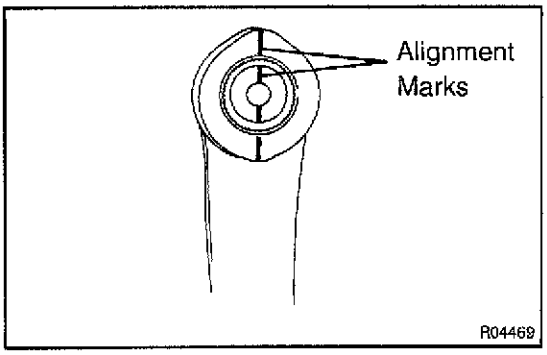
4. **INSTALL RH AND LH TIE ROD ASSEMBLIES**

(a) Connect the tie rod assembly to the knuckle arm.

(b) Install the nut and a new cotter pin.
Torque: 90 N·m (920 kgf·cm, 67 ft·lbf)

(c) Connect the tie rod assembly to the relay rod.

(d) Install the nut and a new cotter pin.
Torque: 90 N·m (920 kgf·cm, 67 ft·lbf)



5. INSTALL PITMAN ARM

(a) Align the alignment marks on the pitman arm and the cross shaft.

(b) Install the spring washer and nut.
Torque: 177 N·m (1,800 kgf·cm, 130 ft·lbf)

(c) Connect the pitman arm to the relay rod.

(d) Install the nut and a new cotter pin.
Torque: 90 N·m (920 kgf·cm, 67 ft·lbf)

6. INSTALL ENGINE UNDER COVER

Tighten the 4 bolts.

7. CHECK FRONT WHEEL ALIGNMENT
(See page SA–12)