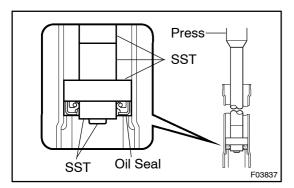
SR0U0-01



REASSEMBLY

NOTICE:

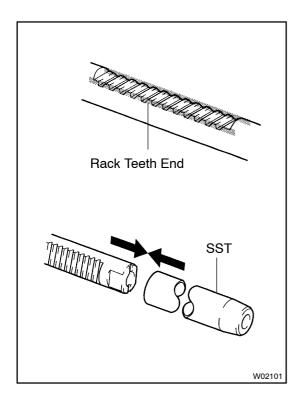
When using a vise, do not overtighten it.

- I. COAT PARTS INDICATED BY ARROWS WITH POWER STEERING FLUID OR MOLYBDENUM DISULFIDE LITHIUM BASE GREASE (See page SR-32)
- 2. INSTALL OIL SEAL
- (a) Coat a new oil seal lip with power steering fluid.
- (b) Using SST, press in the oil seal.

SST 09950-60010 (09951-00240, 09951-00430, 09952-06010), 09950-70010 (09951-07360)

NOTICE:

- Make sure that the oil seal is installed facing in the correct direction.
- Take care that the oil seal does not get reversed as you install it.



3. INSTALL STEERING RACK

(a) Install SST to the steering rack.

SST 09631-20102

HINT:

If necessary, scrape the burrs off the rack teeth end and burnish.

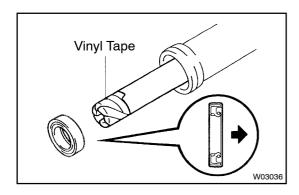
- (b) Coat SST with power steering fluid.
- (c) Install the steering rack into the rack housing.

NOTICE:

Be careful not to damage the oil seal lip.

(d) Remove the SST.

SST 09631-20102

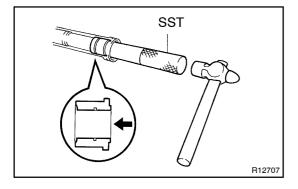


4. INSTALL OIL SEAL AND SPACER

- (a) Coat a new oil seal lip with power steering fluid.
- (b) To prevent oil seal lip damage, wind vinyl tape on the steering rack end, and apply power steering fluid.
- (c) Install the oil seal by pushing it into the rack housing without tilting.

NOTICE:

- Make sure that the oil seal is installed facing in the correct direction.
- Be careful not to damage the oil seal lip.
- (d) Install the spacer.

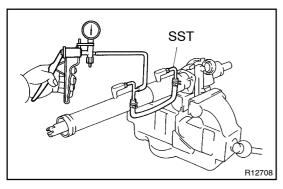


5. INSTALL CYLINDER END STOPPER

(a) Using SST and a hammer, drive in the cylinder end stopper.

SST 09612-22011

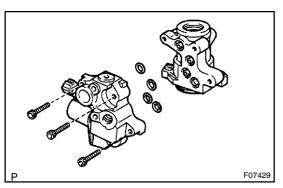
(b) Using snap ring pliers, install the snap ring.



6. AIR TIGHTNESS TEST

- (a) Install SST to the rack housing. SST 09631-12071
- (b) Apply 53 kPa (400 mmHg, 15.75 in.Hg) of vacuum for about 30 seconds.
- (c) Check that there is no change in the vacuum.

If there is change in the vacuum, check the installation of the oil seals.



7. INSTALL PRESSURE CONTROL VALVE

- (a) Coat 4 new O-rings with power steering fluid and install them to the control valve housing.
- (b) Using hexagon wrench (6 mm), install the pressure control valve with the 3 bolts.

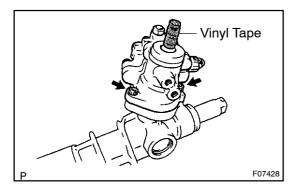
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

8. INSTALL CONTROL VALVE ASSEMBLY

- (a) Coat the teflon rings of the control valve assembly with power steering fluid.
- (b) To prevent oil seal lip damage, wind vinyl tape on the serrated part of the control valve shaft.
- (c) Install the control valve assembly into the control valve housing.

NOTICE:

Be careful not to damage the teflon rings and oil seal.



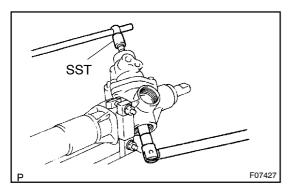
9. INSTALL CONTROL VALVE HOUSING

- (a) Coat a new O-ring with power steering fluid and install it to the control valve housing.
- (b) Using a hexagon wrench (6 mm), install the control valve housing with the 2 bolts.

Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

- 10. INSTALL DUST COVER
- 11. INSTALL BEARING AND SPACER

Install the spacer and a new bearing to the rack housing.



12. INSTALL SELF-LOCKING NUT

Using SST, stop the control valve shaft rotating and install a new self-locking nut.

SST 09616-00010

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

- 13. INSTALL RACK HOUSING CAP
- (a) Apply sealant to 2 or 3 threads of the rack housing cap. **Sealant:**

Part No. 08833-00080, THREE BOND 1344,

LOCTITE 242 or equivalent

(b) Install the rack housing cap.

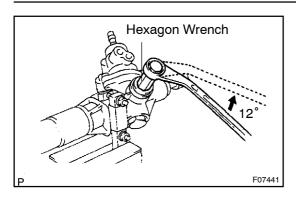
Torque: 69 N·m (700 kgf·cm, 51 ft·lbf)

- 14. INSTALL RACK GUIDE SUB-ASSEMBLY, RACK GUIDE SPRING AND RACK GUIDE SPRING CAP
- (a) Install the rack guide sub-assembly and rack guide spring.
- (b) Apply sealant to 2 or 3 threads of the rack guide spring cap.

Sealant:

Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

(c) Temporarily install the rack guide spring cap.

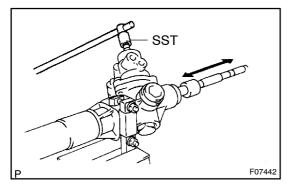


15. ADJUST TOTAL PRELOAD

- (a) To prevent the steering rack teeth from damaging the oil seal lip, temporarily install the RH and LH rack ends.
- (b) Using a hexagon wrench (24 mm), torque the rack guide spring cap.

Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

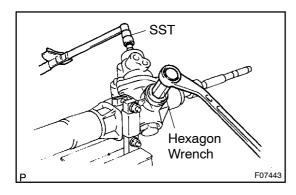
(c) Using a hexagon wrench (24 mm), return the rack guide spring cap 12°.



(d) Using SST, turn the control valve shaft right and left 1 or 2 times.

SST 09616-00010

(e) Using a hexagon wrench (24 mm), loosen the rack guide spring cap until the rack guide spring is not functioning.



(f) Using SST, a torque wrench and hexagon wrench (24 mm), tighten the rack guide spring cap until the preload is within specification.

SST 09616-00010

Preload (turning):

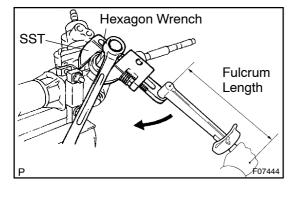
0.6 - 2.0 N·m (6 - 20 kgf·cm, 5.2 - 17.4 in.·lbf)

- 16. INSTALL RACK GUIDE SPRING CAP LOCK NUT
- (a) Apply sealant to 2 or 3 threads of the rack guide spring cap lock nut.

Sealant:

Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

(b) Temporarily install the rack guide spring cap lock nut.



(c) Using a hexagon wrench (24 mm), hold the rack guide spring cap and using SST, torque the rack guide spring cap lock nut.

SST 09922-10010

Torque: 50 N·m (513 kgf·cm, 37 ft·lbf)

NOTICE:

Use SST 09922–10010 in the direction shown in the illustration.

CENTURY (RM676E)

HINT:

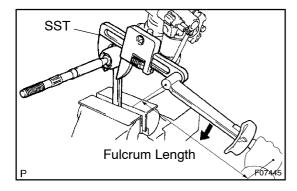
Use a torque wrench with a fulcrum length of 345 mm (13.58 in.).

(d) Recheck the total preload.

Preload (turning):

0.6 - 2.0 N·m (6 - 20 kgf·cm, 5.2 - 17.4 in.·lbf)

(e) Remove the RH and LH rack ends.



17. INSTALL RH AND LH CLAW WASHERS AND RACK ENDS

(a) Install a new claw washer, and temporarily install the rack end.

HINT:

Align the claws of the washer with the steering rack grooves.

(b) Using a wrench, hold the steering rack steadily and using SST, torque the rack end.

SST 09922-10010

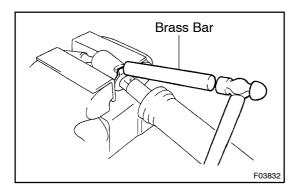
Torque: 77 N·m (782 kgf·cm, 57 ft·lbf)

NOTICE:

Use SST 09922-10010 in the direction shown in the illustration.

HINT:

Use a torque wrench with a fulcrum length of 380 mm (14.96 in.).

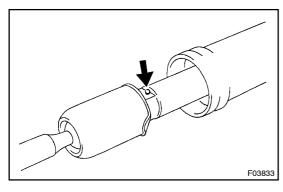


(c) Using a brass bar and hammer, stake the washer.

NOTICE:

Avoid any impact on the steering rack.

(d) Employ the same manner described above to the other side.



18. INSTALL RH AND LH RACK BOOTS, CLAMPS AND CLIPS

(a) Ensure that the steering rack hole is not clogged with grease.

HINT:

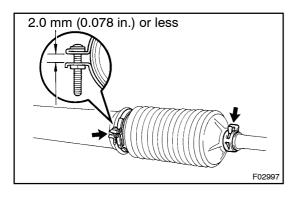
If the hole is clogged, the pressure inside the boot will change after it is assembled and the steering wheel is turned.

(b) Install the boot, clip, clamp and screw.

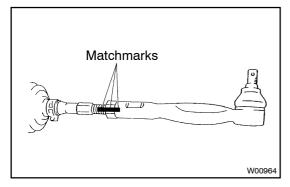
NOTICE:

Be careful not to damage or twist the boot.

CENTURY (RM676E)



- (c) Tighten the clamp with the screw as shown in the illustra-
- (d) Employ the same manner described above to the other side.

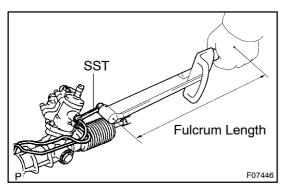


19. INSTALL RH AND LH TIE ROD ENDS AND LOCK NUTS

- (a) Screw the lock nut and tie rod end onto the rack end until the matchmarks are aligned.
- (b) After adjusting toe-in, torque the nut (See page SA-5).

Torque: 56 N·m (570 kgf·cm, 41 ft·lbf)

(c) Employ the same manner described above to the other side.



20. INSTALL 2 TURN PRESSURE TUBES

(a) Using SST, install the 2 turn pressure tubes. SST 09633-00020

Torque: 20 N·m (203 kgf·cm, 15 ft·lbf)

HINT:

- Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).
- This torque value is effective in case that SST is parallel to a torque wrench.
- (b) Install the tube clamp.