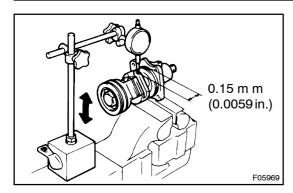
SR0QG-01



INSPECTION

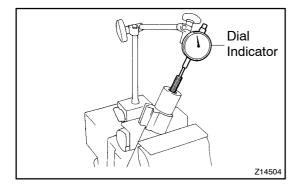
NOTICE:

When using a vise, do not overtighten it.

1. INSPECT BALL CLEARANCE

Using a dial indicator, check the ball clearance. Move the power piston nut up and down.

Maximum clearance: 0. 15 mm (0.0059 in.)



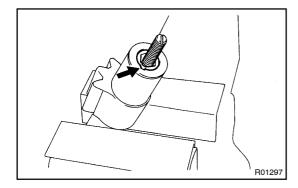
2. INSPECT SECTOR SHAFT ADJUSTING SCREW THRUST CLEARANCE

Using a dial indicator, measure the thrust clearance.

Standard clearance:

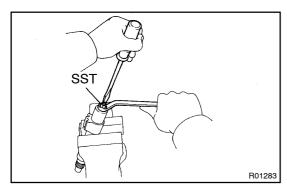
 $0.03 - 0.05 \, \text{mm} \, (0.00 \, 12 - 0.0020 \, \text{in.})$

Maximum clearance: 0.05 mm (0.0020 in.)

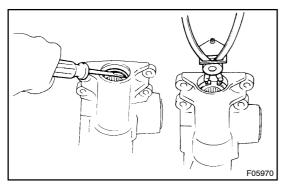


3. IF NECESSARY, ADJUST SECTOR SHAFT ADJUST-ING SCREW THRUST CLEARANCE

(a) Using a chisel and hammer, unstake the lock nut.

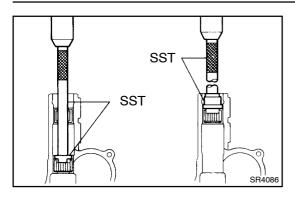


- (b) Using SST, remove the lock nut. SST 09630 -00014 (0963 1-00051)
- (c) Using a screwdriver, adjust the adjusting screw for the correct thrust clearance.
- (d) Tighten a new lock nut.
- (e) Stake the lock nut.



4. IF NECESSARY, REPLACE 2 NEEDLE ROLLER BEARINGS

- (a) Using a screwdriver, pry out the oil seal from the gear housing.
- (b) Using snap ring pliers, remove the snap ring from the gear housing.
- (c) Remove the spacer, teflon ring and O -ring from the gear housing.



(d) Using SST, press out the upper bearing from the gear housing.

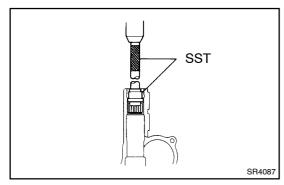
SST 09630 -00014 (0963 1-00071),

09950-70010 (0995 1-07360)

(e) Using SST, press out the lower bearing from the gear housing.

SST09630 -00014 (0963 1-00091),

09950-70010 (0995 1-07200)



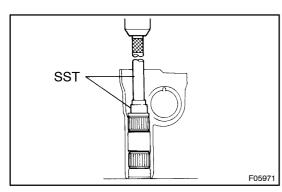
(f) Coat a new bearing with molybdenum disulfide lithium base grease.

(g) Using SST, press in the lower bearing. SST 09630 -00014 (0963 1-00091),

09950-70010 (0995 1-07200)

HINT:

Install the lower bearing so that it is positioned 23. 1 mm (0.909 in.) away from the gear housing inner end surface.

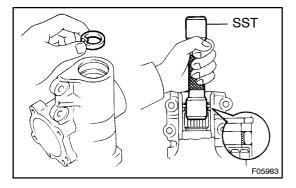


- (h) Coat a new bearing with molybdenum disulfide lithium base grease.
- (i) Using SST, press in the upper bearing. SST 09630 -00014 (0963 1-00091), 09950-70010 (0995 1-07360)

HINT:

The bearing's top end should be installed so that it aligns with the gear housing end surface.

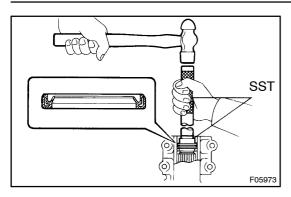
- (j) Coat a new O -ring and spacer with power steering fluid and install them to the gear housing.
- (k) Using snap ring pliers, install a new snap ring.



- (I) Form a new teflon ring into a heart shape and install it by hand.
- (m) Using SST, install the teflon ring. SST 09630 -00014 (0963 1-00121)

NOTICE:

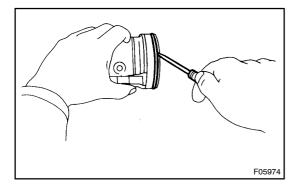
The teflon ring must be squeezed before inserting the sector shaft or damage will result.



- (n) Coat a new oil seal lip with power steering fluid.
- (o) Using SST, drive the oil seal into the gear housing. SST 09630 -00014 (0963 1-00091), 09950-70010 (0995 1-07200)

NOTICE:

Make sure to install the oil seal facing the correct direction.



5. IF NECESSARY, REPLACETEFLON RING AND 2 O RINGS

(a) Using a screwdriver, remove the teflon ring and 2 O -rings from the worm gear valve body assembly.

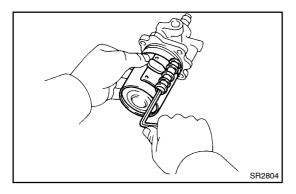
NOTICE:

Be careful not to damage the worm gear valve body assembly.

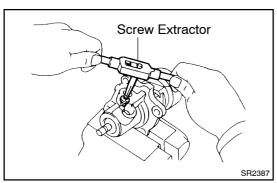
- (b) Coat 2 new O -rings with power steering fluid and install them.
- (c) Expand a new teflon ring with your fingers.

NOTICE:

Be careful not to overexpand the teflon ring.

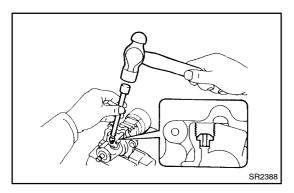


- (d) Install the teflon ring.
- (e) Coat the teflon ring with power steering fluid and settle it down with a piston ring compressor for 5 7 minutes.



6. IF NECESSARY, REPLACE 2 UNION SEATS

(a) Using a screw extractor, remove the 2 union seats from the worm gear valve body assembly.



(b) Using a hammer and an extension bar, tap in 2 new union seats.

NOTICE:

Before installing the union seat, remove dust sticking to the worm gear valve body assembly.