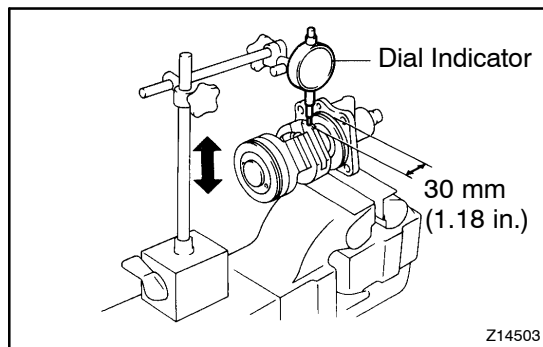




INSPECTION

NOTICE:

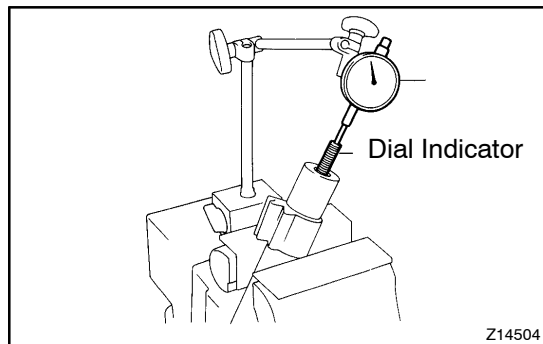
When using a vise, do not overtighten it.

1. INSPECT BALL CLEARANCE

Using a dial indicator, check the ball clearance. Move the worm gear up and down.

Maximum clearance:

0.15 mm (0.0059 in.)

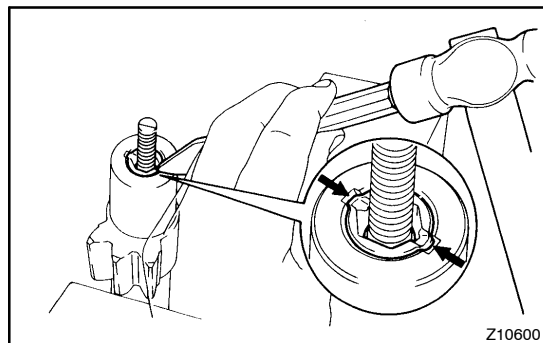


2. INSPECT CROSS SHAFT ADJUSTING SCREW THRUST CLEARANCE

Using a dial indicator, measure the thrust clearance.

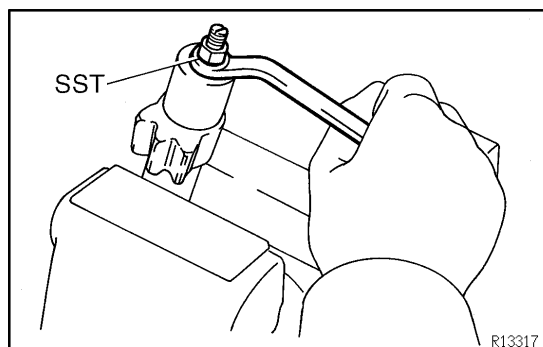
Standard clearance:

0.03 - 0.05 mm (0.0012 - 0.0020 in.)



3. IF NECESSARY, ADJUST CROSS SHAFT ADJUSTING SCREW THRUST CLEARANCE

(a) Using a chisel and hammer, unstage the No.1 lock nut.



(b) Using SST, remove the No.1 lock nut.

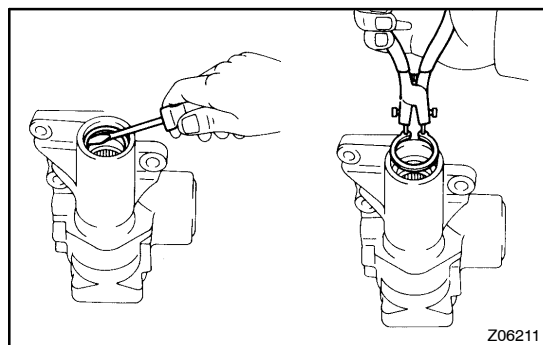
SST 09630-00014 (09631-00051)

(c) Using a screwdriver, adjust the adjusting screw for correct thrust clearance.

(d) Using the SST, tighten a new lock nut.

SST 09630-00014 (09631-00051)

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

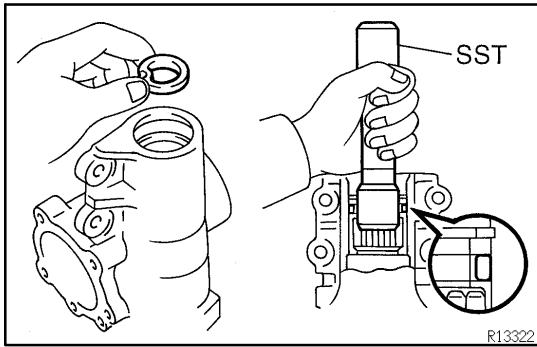


4. IF NECESSARY, REPLACE OIL SEAL, METAL SPACER AND TEFLON RING

(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.

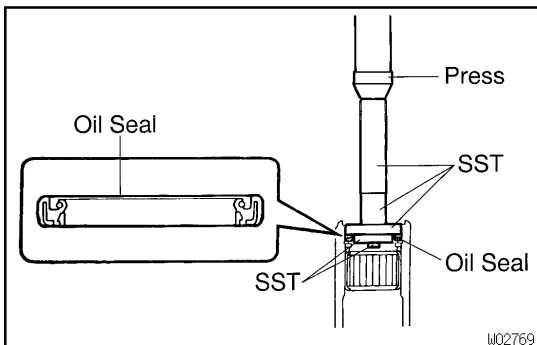
(c) Remove the metal spacer, teflon ring and O-ring from the gear housing.



- (d) Coat a new O-ring and metal spacer with power steering fluid and install them.
- (e) Using snap ring pliers, install a new snap ring.
- (f) Coat a new teflon ring with power steering fluid.
- (g) Form a teflon ring into a heart shape and install it with hand.
- (h) Using SST, form the teflon ring.
SST 09630-00014 (09631-00121)

NOTICE:

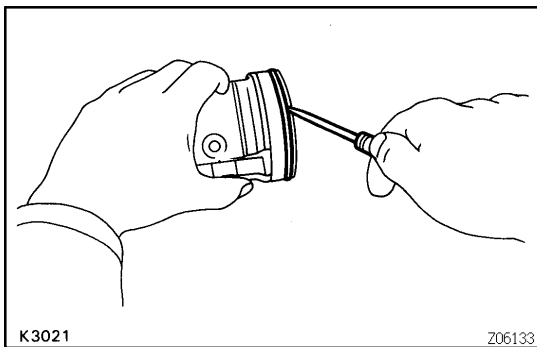
The teflon ring must be squeezed before inserting the cross shaft or damage will result.



- (i) Coat a new oil seal with power steering fluid.
- (j) Using SST, press in the oil seal to the gear housing.
SST 09950-60010 (09951-00360, 09951-00410, 09952-06010) 09950-70010 (09951-07200)

NOTICE:

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



5. IF NECESSARY, REPLACE TEFLON RING AND O-RING

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

NOTICE:

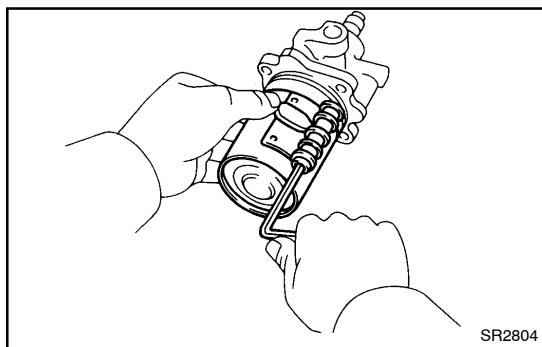
Be careful not to damage the worm gear valve body assembly.

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

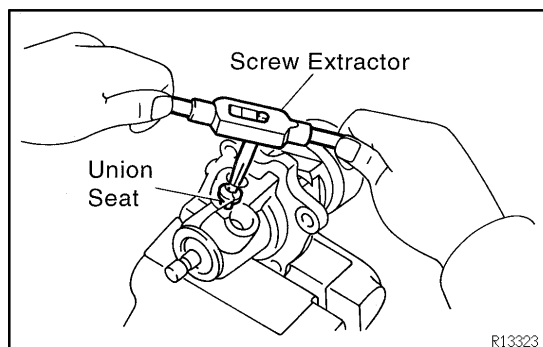
NOTICE:

Be careful not to overexpand the teflon ring.

- (d) Install the teflon ring.

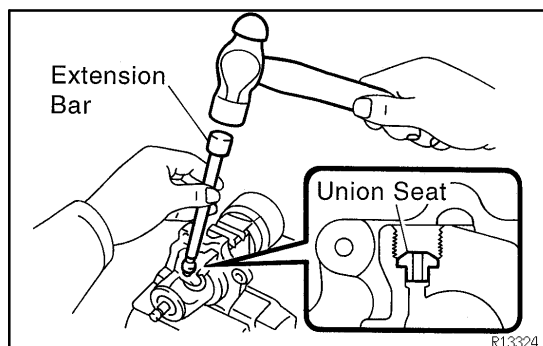


- (e) Coat the teflon ring with power steering fluid and snug it down with piston ring compressor for 5 – 7 minutes.



6. IF NECESSARY, REPLACE UNION SEATS

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



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

NOTICE:

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