

INSPECTION

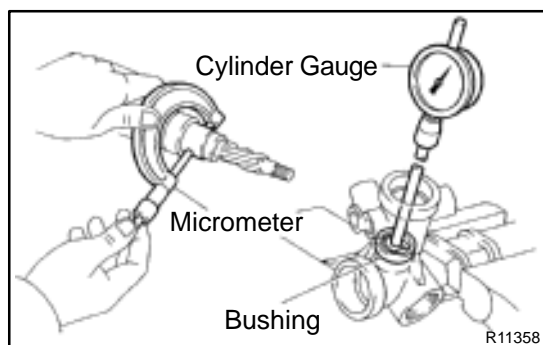
NOTICE:

When using a vise, do not overtighten it.

1. INSPECT STEERING RACK

Using a dial indicator, check the rack for runout and teeth wear and damage.

Maximum runout: 0.30 mm (0.0118 in.)



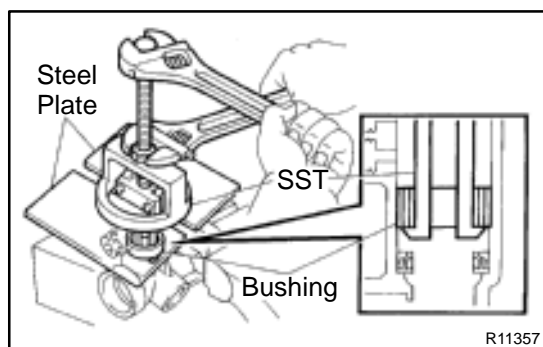
2. MEASURE OIL CLEARANCE BETWEEN CONTROL VALVE ASSEMBLY AND BUSHING

Using a micrometer and a cylinder gauge, measure the oil clearance.

Standard clearance:

0.050 – 0.083 mm (0.00197 – 0.00327 in.)

Maximum clearance: 0.125 mm (0.00492 in.)



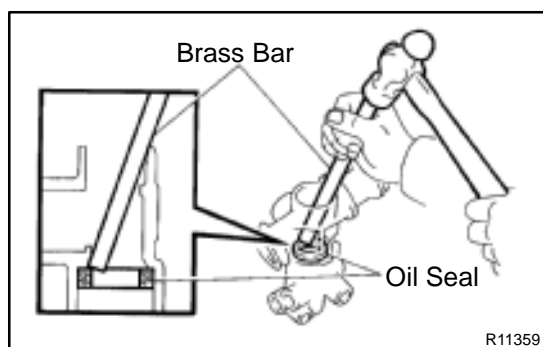
3. IF NECESSARY, REPLACE BUSHING AND OIL SEAL

- (a) Using SST and 2 steel plates, remove the bushing from the rack housing.

SST 09612-65014 (09612-01030)

NOTICE:

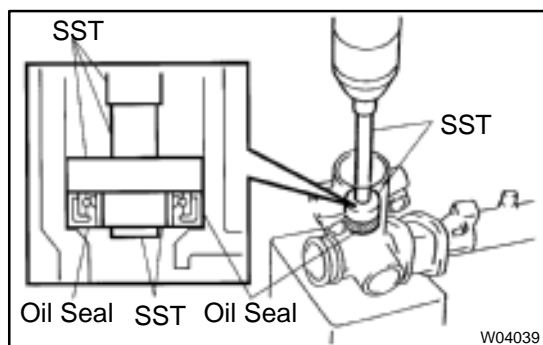
- As shown, from the opposite side of SST confirm that its claw is firmly caught on the bushing.
- Be careful not to damage the rack housing.



- (b) Using a brass bar and a hammer, remove the oil seal from the rack housing.

NOTICE:

Be careful not to damage the rack housing.



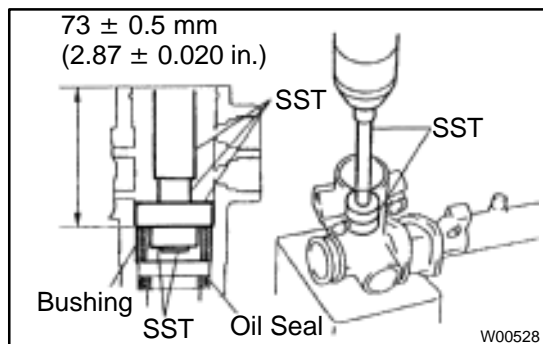
- (c) Coat a new oil seal lip with power steering fluid.

- (d) Using SST, press in the oil seal.

NOTICE:

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

SST 09950-60010 (09951-00230, 09951-00340, 09952-06010), 09950-70010, (09951-07150)

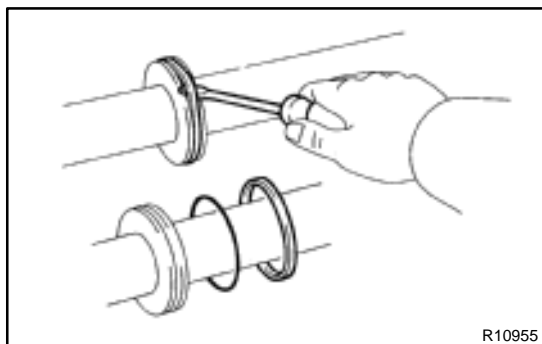


- (e) Using SST and a press, carefully press in a new bushing to a depth of 73 ± 0.5 mm (2.87 ± 0.020 in.).

SST 09950-60010 (09951-00240, 09951-00340, 09952-06010), 09950-70010, (09951-07150)

NOTICE:

If the bushing is pushed in too far, it will cause deformation of the rack housing. If it is not pushed in far enough, it will interfere with the control valve assembly. Therefore, always use a press and install the bushing to the proper depth. Then, install the control valve assembly and ensure that it rotates smoothly.



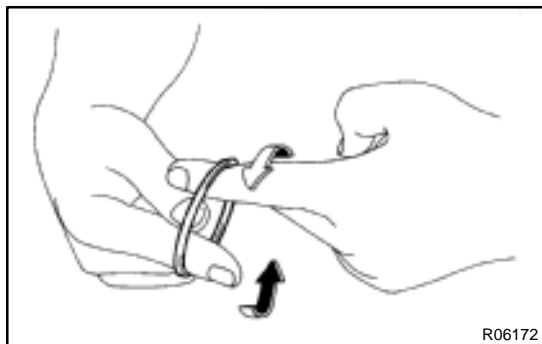
4. IF NECESSARY, REPLACE TEFLON RING AND O-RING

- (a) Using a screwdriver, remove the teflon ring and O-ring from the steering rack.

NOTICE:

Be careful not to damage the groove for the teflon ring.

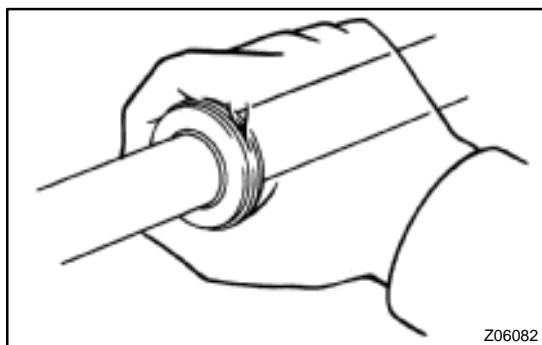
- (b) Coat a new O-ring with power steering fluid and install it.



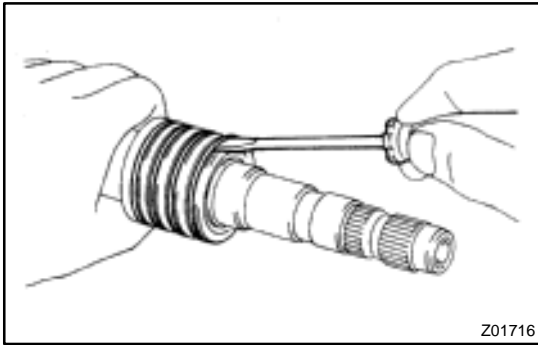
- (c) Expand a new teflon ring with your fingers.

NOTICE:

Be careful not to overexpand the ring.



- (d) Coat the ring with power steering fluid and install it to the steering rack, and settle it down with your fingers.

**5. IF NECESSARY, REPLACE TEFLON RINGS**

- (a) Using a screwdriver, remove the 4 rings from the control valve assembly.

NOTICE:

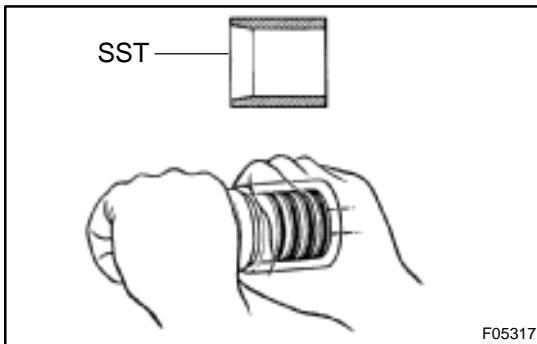
Be careful not to damage the grooves for the ring.

- (b) Expand 4 new teflon rings with your fingers.

NOTICE:

Be careful not to overexpand the ring.

- (c) Coat the rings with power steering fluid and install them to the control valve, and settle them down with your fingers.



- (d) Carefully slide the tapered end of SST over the rings until the rings fit to the control valve assembly.

SST 09631-20081

NOTICE:

Be careful not to damage the rings.