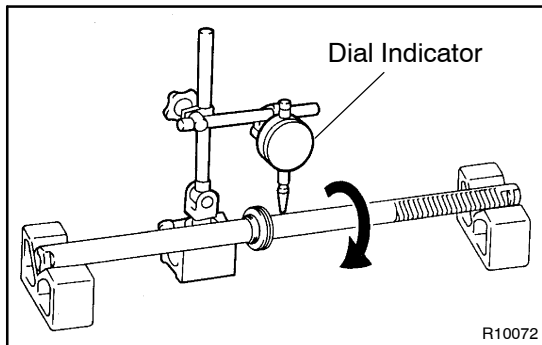




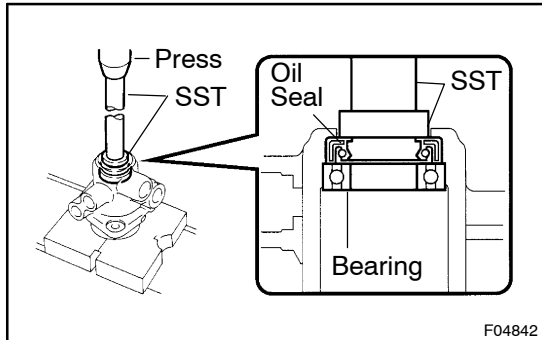
INSPECTION

1. INSPECT STEERING RACK

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

Maximum runout: 0.30 mm (0.0118 in.)

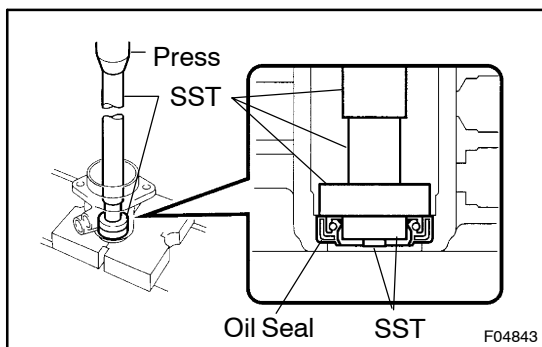
- (b) Check the back surface for wear and damage.



2. IF NECESSARY, REPLACE OIL SEAL AND BEARING

- (a) Using SST, press out the oil seal and bearing from the control valve housing.

SST 09950-60010 (09951-00260),
09950-70010 (09951-07150)



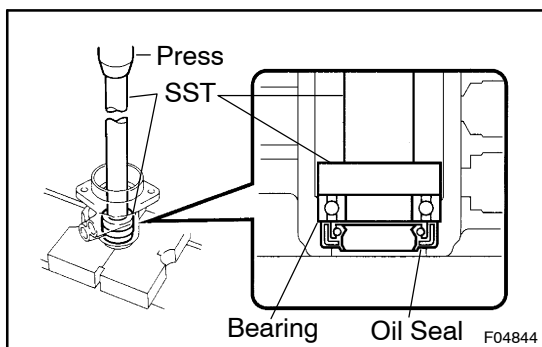
- (b) Coat a new oil seal lip with power steering fluid.

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

SST 09950-60010 (09951-00180, 09951-00330,
09952-06010), 09950-70010 (09951-07150)

NOTICE:

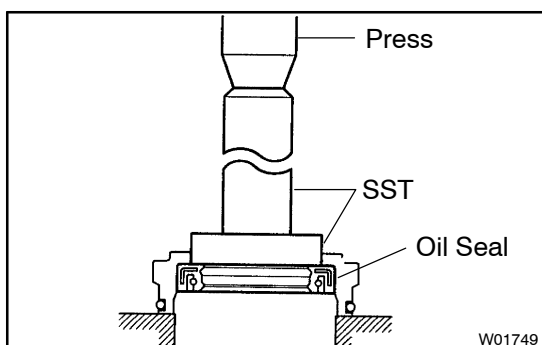
Make sure to install the oil seal facing the correct direction.



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

- (e) Using SST, press in the bearing.

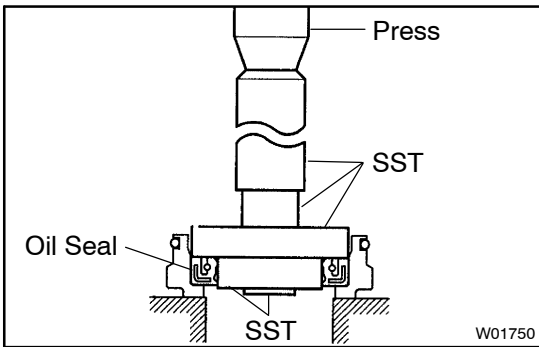
SST 09950-60010 (09951-00330),
09950-70010 (09951-07150)



3. IF NECESSARY, REPLACE OIL SEAL

- (a) Using SST, press out the oil seal from the bearing guide nut.

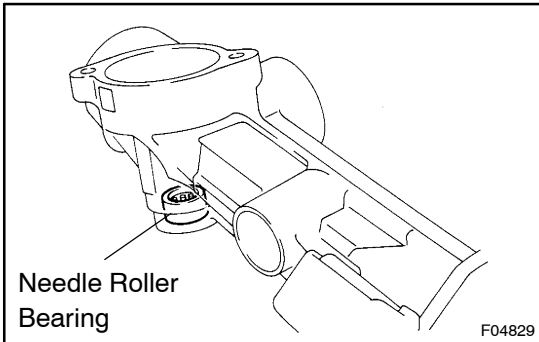
SST 09950-60010 (09951-00320),
09950-70010 (09951-07100)



- (b) Coat a new oil seal lip with power steering fluid.
- (c) Using SST, press in the oil seal.
SST 09950-60010 (09951-00280, 09951-00360, 09952-06010), 09950-70010 (09951-07100)

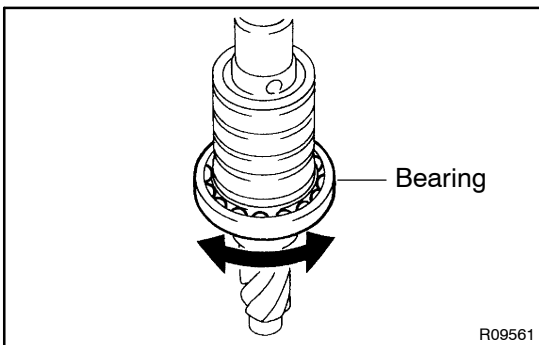
NOTICE:

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



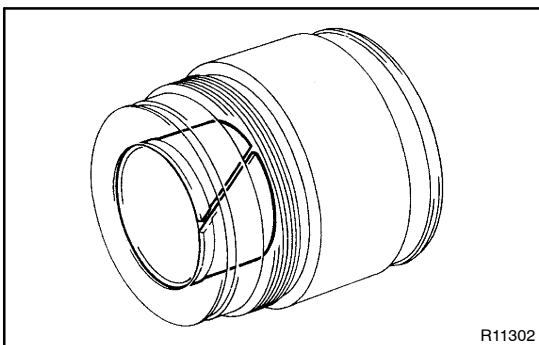
4. INSPECT BEARING

- (a) Check the needle roller bearing of the rack housing for pit-marks or damage.
If faulty, replace the rack housing.
- (b) Coat the inside of the bearing with molybdenum disulfide lithium base grease.



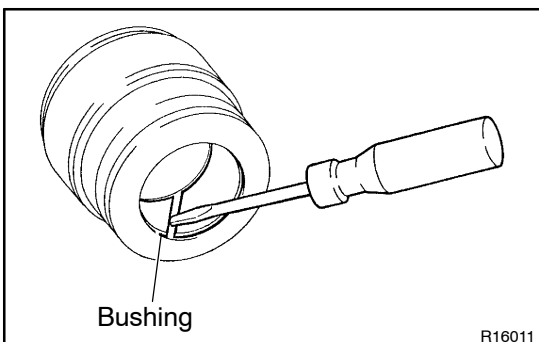
5. INSPECT BEARING

- (a) Check the bearing rotation condition and check for abnormal noise.
If the bearing is worn or damaged, replace the control valve assembly.
- (b) Coat the bearing with molybdenum disulfide lithium base grease.



6. INSPECT BUSHING

- (a) Check the inside of the bushing of the cylinder end stopper for cracks.
If faulty, replace the bushing.
- (b) Apply molybdenum disulfide lithium base grease to the inside of the bushing.



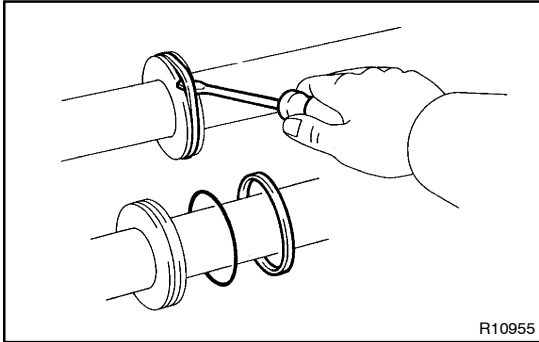
7. IF NECESSARY, REPLACE BUSHING

- (a) Using a screwdriver, remove the bushing from the cylinder end stopper.

NOTICE:

Be careful not to damage the cylinder end stopper.

- (b) Coat the inside of a new bushing with molybdenum disulfide lithium base grease.
- (c) Install the bushing.



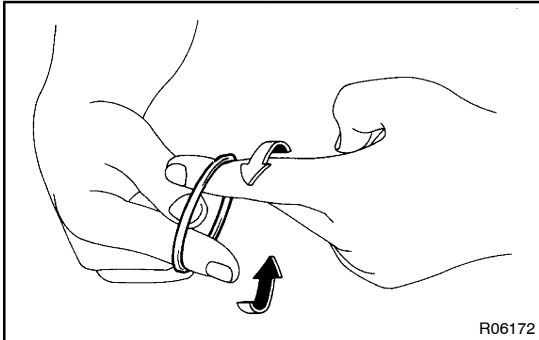
8. IF NECESSARY, REPLACE TEFLON RING AND O-RING

- (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 ring.

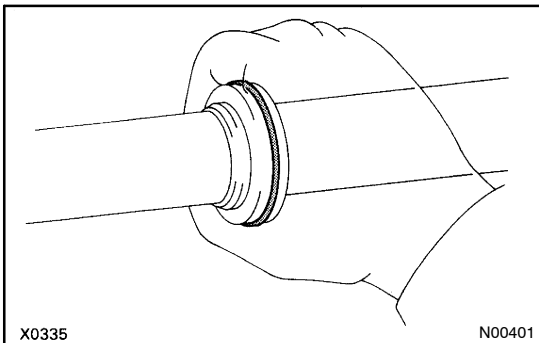
- (b) Coat a new O-ring with power steering fluid and install it.



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

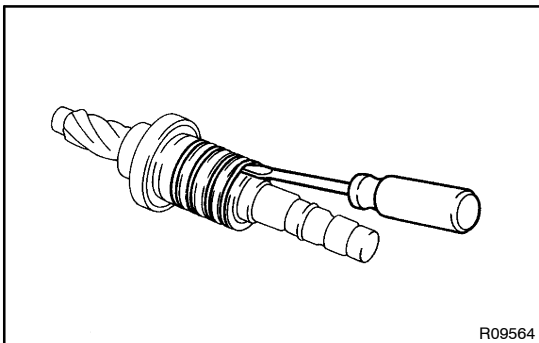
NOTICE:

Be careful not to overexpand the ring.



- (d) Coat the ring with power steering fluid.

- (e) Install the ring to the rack, and settle it down with your fingers.



9. IF NECESSARY, REPLACE 4 TEFLON RINGS

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

NOTICE:

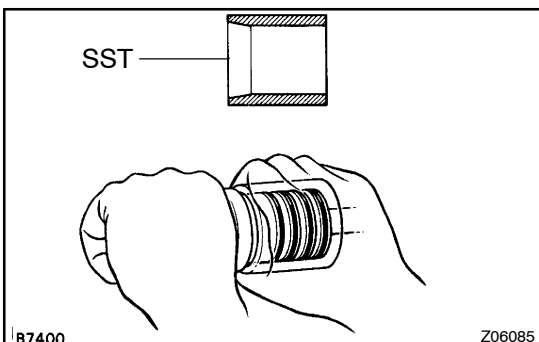
Be careful not to damage the grooves for the ring.

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

NOTICE:

Be careful not to overexpand the ring.

- (c) Coat the rings with power steering fluid.



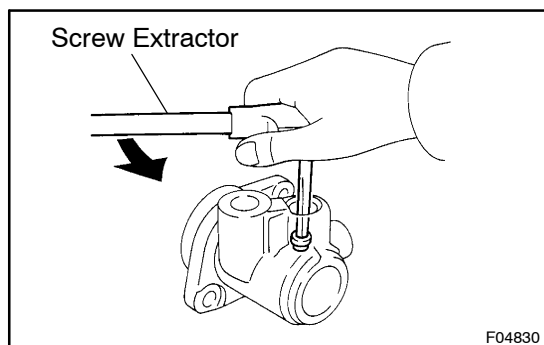
- (d) Install the rings to the control valve assembly, and settle them down with your fingers.

- (e) Carefully slide the tapered end of SST over the rings until the ring fits to the valve assembly.

SST 09631-20081

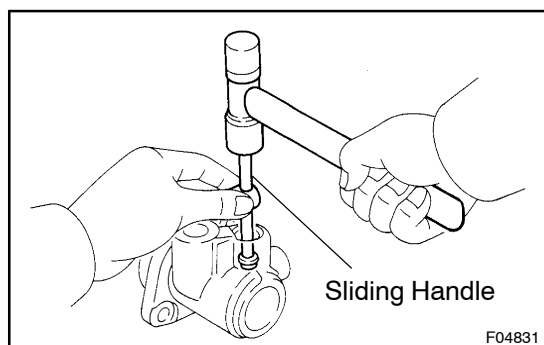
NOTICE:

Be careful not to damage the rings.



10. IF NECESSARY, REPLACE UNION SEAT

- (a) Using a screw extractor, remove the seat from the control valve housing.



- (b) Using plastic hammer and sliding handle, lightly tap in a new seat.

NOTICE:

Before installing the union seat, remove dust sticking to the control valve housing.