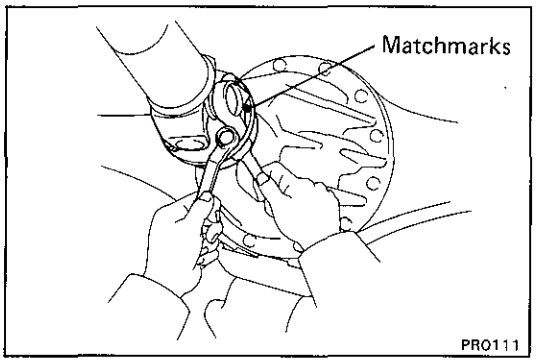
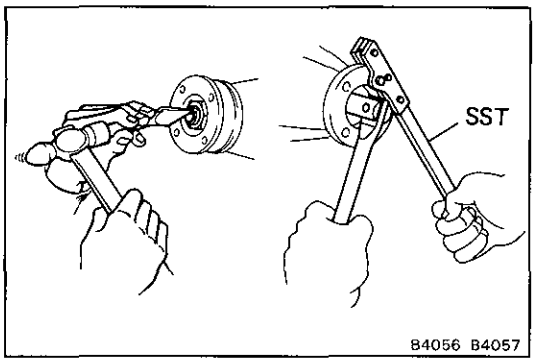
REAR DIFFERENTIAL / 9.5 INCH TYPE

On-Vehicle Replacement of Front Oil Seal

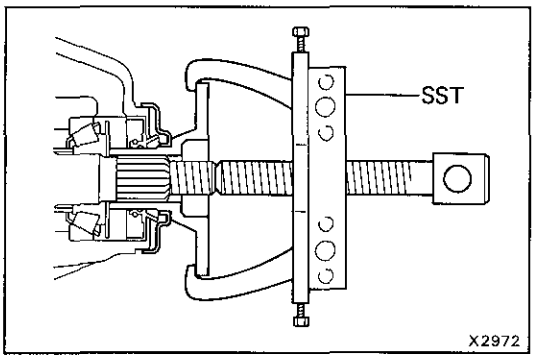


1. **DISCONNECT REAR PROPELLER SHAFT**
   (a) Place matchmarks on the flanges.
   (b) Remove the four bolts and nuts.



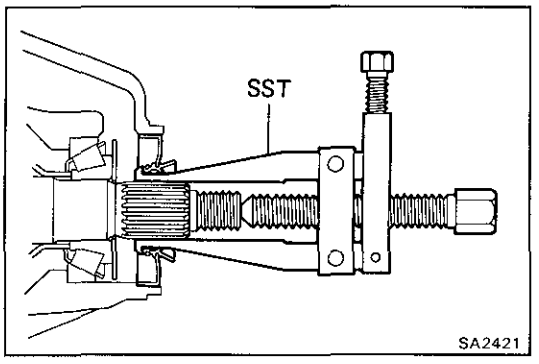
2. **REMOVE COMPANION FLANGE**
   (a) Using a hammer and chisel, loosen the staked part of the nut.
   (b) Using SST to hold the flange, remove the nut and plate washer.

   SST 09330-00021



   (c) Using SST, remove the companion flange.

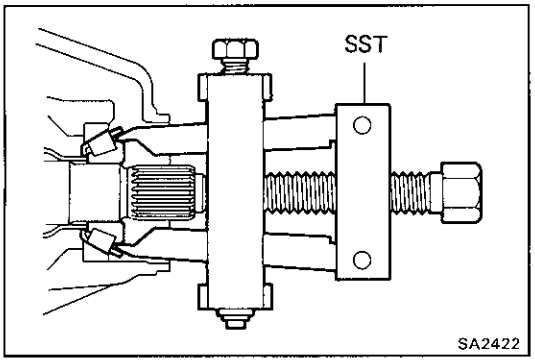
   SST 09950-20017



3. **REMOVE OIL SEAL AND OIL SLINGER**
   (a) Using SST, remove the oil seal.

   SST 09308-10010

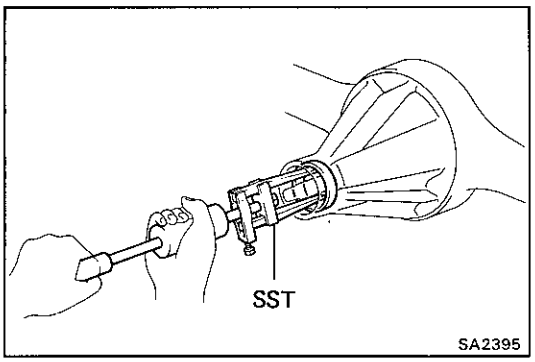
   (b) Remove the oil slinger.



4. REMOVE FRONT BEARING

Using SST, remove the front bearing.

SST 09556-22010



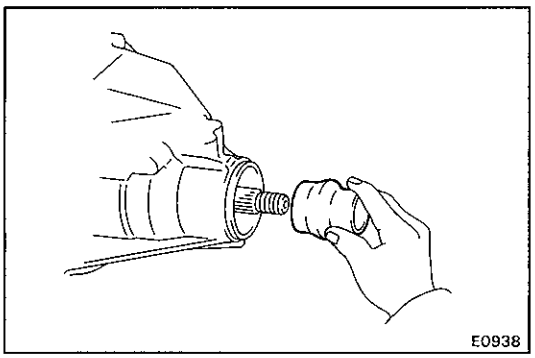
5. REMOVE BEARING OUTER RACE

Using SST, remove the bearing outer race.

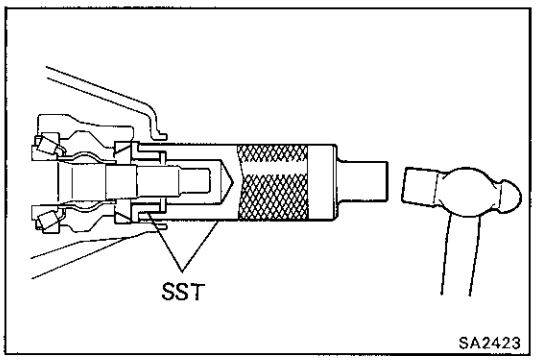
SST 09308-00010

NOTICE: Do not scratch the taper surface of the outer race.

6. REMOVE BEARING SPACER



7. INSTALL NEW BEARING SPACER

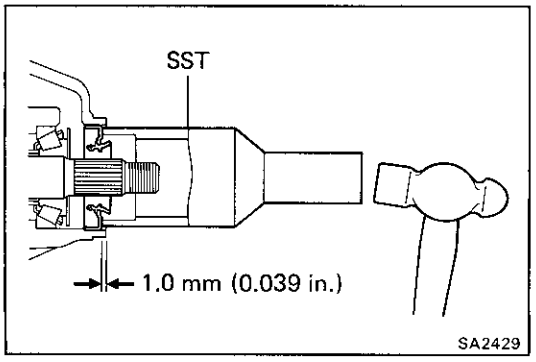


8. INSTALL BEARING OUTER RACE

Using SST, drive in the bearing outer race.

SST 09316-60010 (09316-00010, 09316-00020)

9. INSTALL FRONT BEARING



10. INSTALL OIL SLINGER AND NEW OIL SEAL

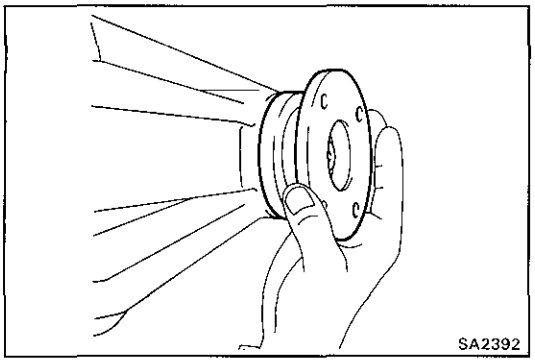
(a) Install the oil slinger facing as shown.

(b) Using SST, drive in a new oil seal as shown.

SST 09214-76011

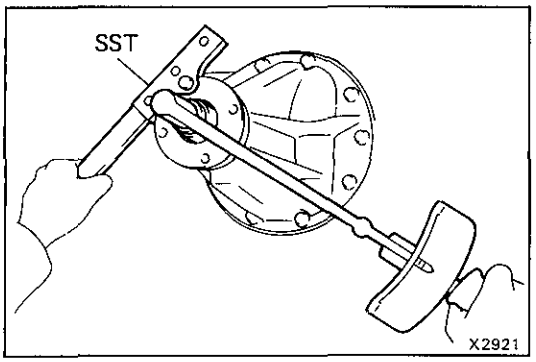
Oil seal drive in depth: 1.0 mm. (0.039 in.)

(c) Coat the lip of the oil seal with MP grease.



11. INSTALL COMPANION FLANGE

(a) Install the companion flange and plate washer.

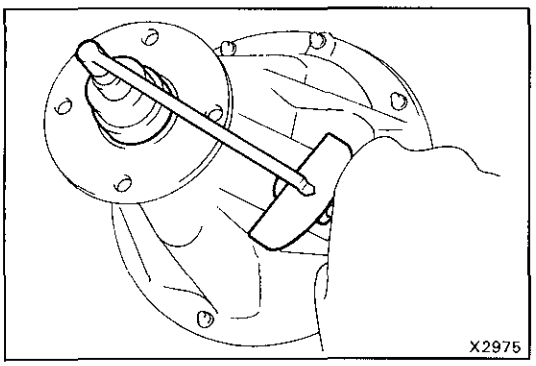


(b) Apply a light coat of gear oil on the threads of a new companion flange nut.

(c) Using SST to hold the flange, torque the nut.

SST 09330-00021

Torque: 2,500 kg-cm (181 ft-lb, 245 N·m)



12. CHECK DRIVE PINION PRELOAD

Using a torque meter, measure the preload of the backlash between the drive pinion and ring gear.

Preload (at starting):

New bearing

13 — 20 kg-cm

(11.3 — 17.4 in.-lb, 1.3 — 2.0 N·m)

Reused bearing

7 — 10 kg-cm

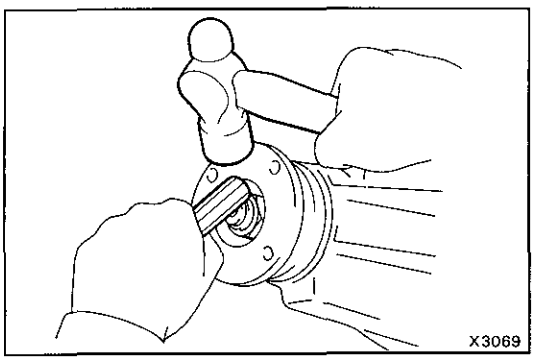
(6.1 — 8.7 in.-lb, 0.7 — 1.0 N·m)

- If preload is greater than specification, replace the bearing spacer.
- If preload is less than specification, retighten the nut 130 kg-cm (9 ft-lb, 13 N·m) at a time until the specified preload is reached.

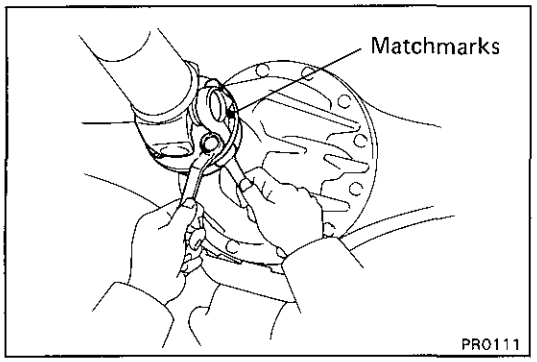
If the maximum torque is exceeded while retightening the nut, replace the bearing spacer and repeat the preload procedure. Do not back off the pinion nut to reduce the preload.

Maximum torque: 4,500 kg-cm (325 ft-lb, 441 N·m)

If everything is normal, coat the threads with gear oil, then repeat the above operation.



13. STRIKE DRIVE PINION NUT

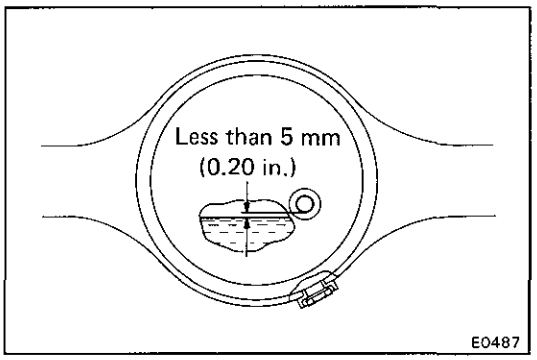


14. CONNECT REAR PROPELLER SHAFT

(a) Align matchmarks on the flanges and connect the flanges with four bolts, spring washers and nuts.

(b) Torque the bolts and nuts.

Torque: 900 kg-cm (65 ft-lb, 88 N·m)



15. CHECK DIFFERENTIAL OIL LEVEL

Fill with hypoid gear oil if necessary.

Oil type: w/o LSD API GL-5
w/ LSD API GL-5 for LSD

Recommended oil viscosity:
Above −18°C (0°F) SAE 90
Below −18°C (0°F) SAE 80W or 80W-90

***Capacity:* 2.5 *liters* (2.6 US qts, 2.2 Imp. qts)**