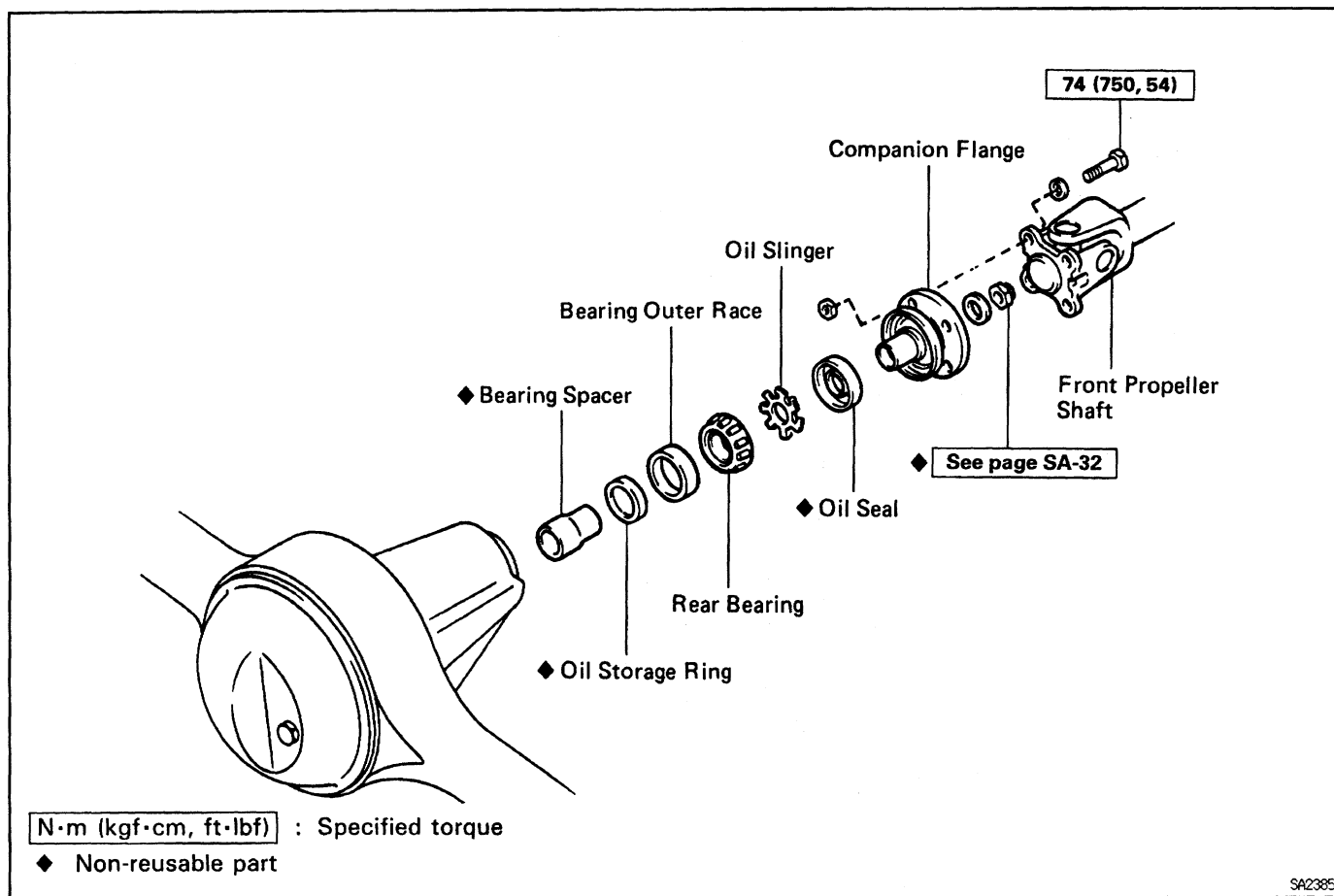
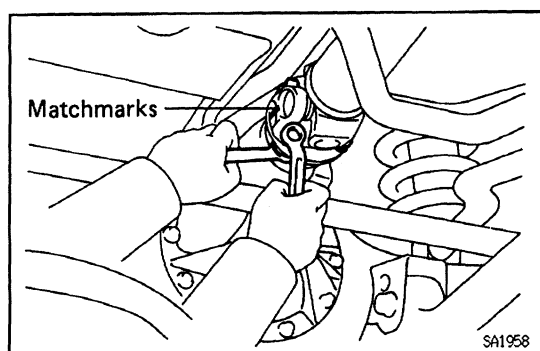


ON-VEHICLE REPAIR COMPONENTS

SA078-01



SA2385

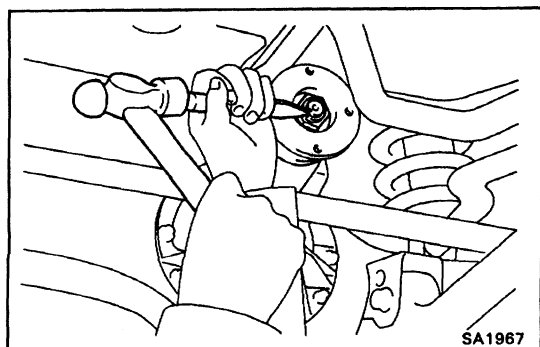


REAR OIL SEAL REPLACEMENT

1. DISCONNECT FRONT PROPELLER SHAFT

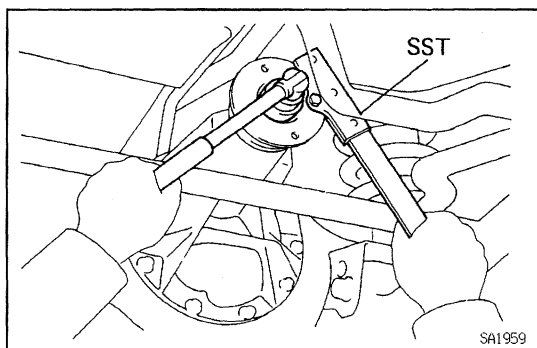
- Place matchmarks on the flanges.
- Remove the 4 bolts and nuts.
- Disconnect the front propeller shaft.

SA077-02



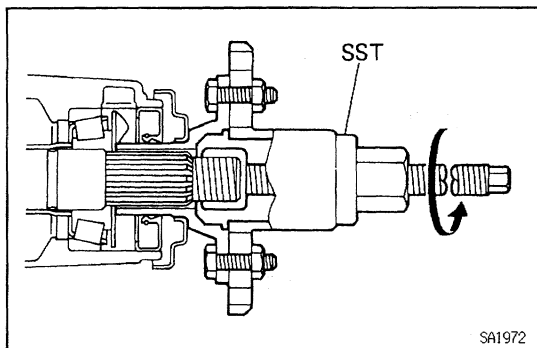
2. REMOVE COMPANION FLANGE

- Using a chisel and hammer, loosen the staked part of the nut.



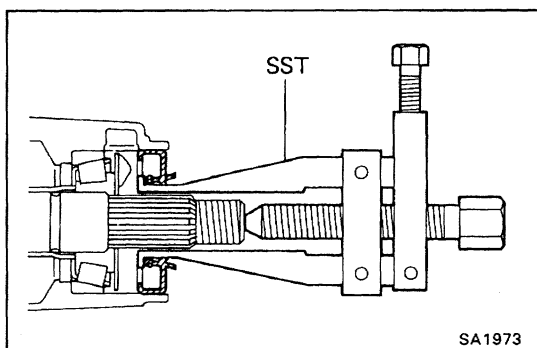
- (b) Using SST to hold the flange, remove the nut and washer.

SST 09330-00021



- (c) Using SST, remove the companion flange.

SST 09557-22022 (09557-22050)

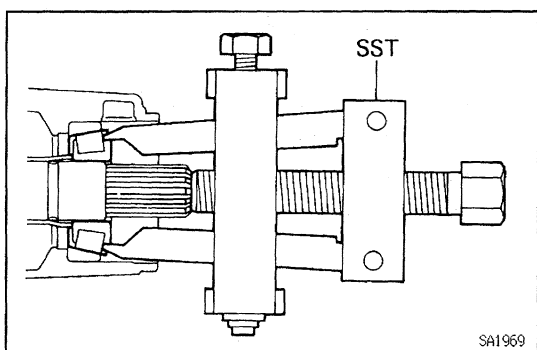


3. REMOVE OIL SEAL AND OIL SLINGER

- (a) Using SST, remove the oil seal.

SST 09308-10010

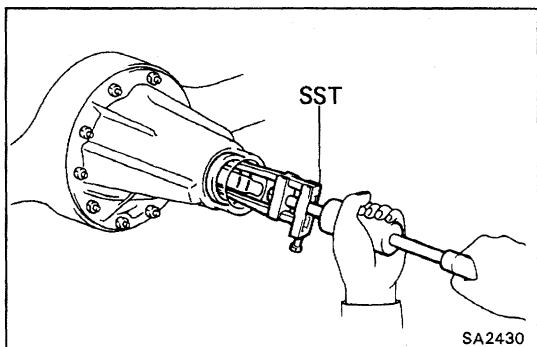
- (b) Remove the oil slinger.



4. REMOVE REAR BEARING

Using SST, remove the rear bearing from the drive pinion.

SST 09556 - 22010

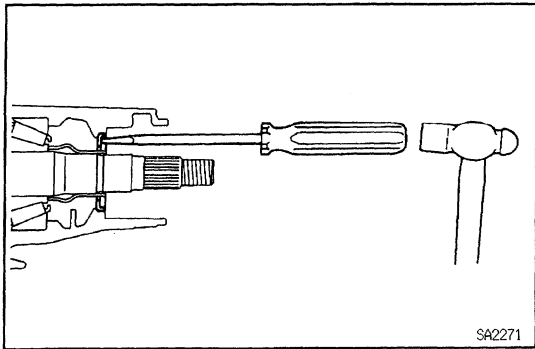


5. REMOVE BEARING OUTER RACE

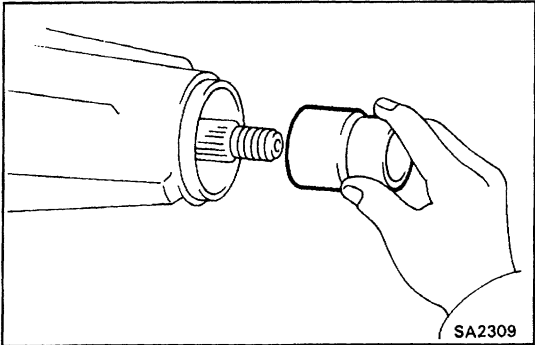
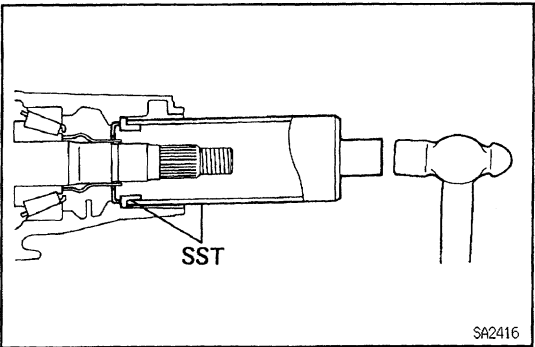
Using SST, remove the bearing outer race.

SST 09308 - 00010

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

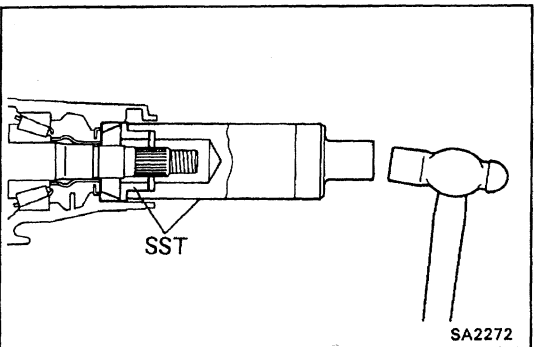
**6. REMOVE OIL SEAL STORAGE RING**

Using a screwdriver, bend the oil storage ring and drive it out.

7. REMOVE BEARING SPACER**8. INSTALL NEW BEARING SPACER****9. INSTALL NEW OIL STRAGE RING**

Using SST, drive in a new oil strage ring.

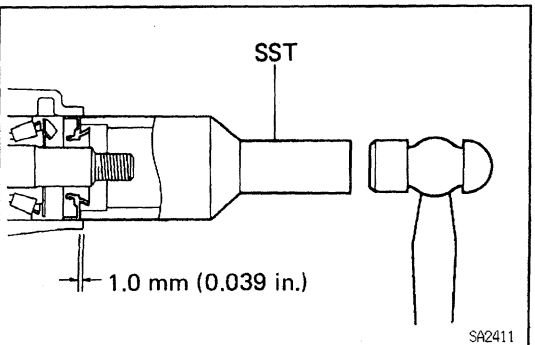
SST 09316-60010 (09316-00010, 09316-00020)

**10. INSTALL REAR BEARING**

(a) Using SST, drive in a bearing outer race.

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

(b) Install the rear bearing.

**11. INSTALL OIL SLINGER AND NEW OIL SEAL**

(a) Install the oil slinger facing as shown.

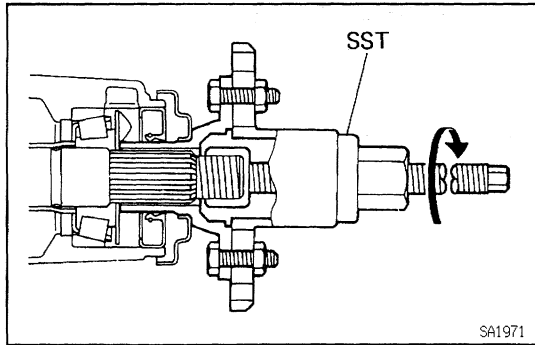
(b) Using SST, drive in the new oil seal as shown.

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.

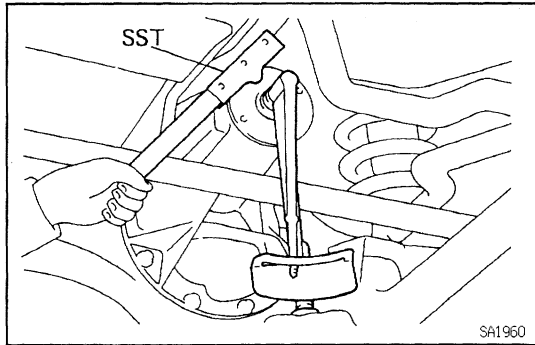


12. INSTALL COMPANION FLANGE

(a) Using SST, install the companion flange on the drive pinion.

SST 09557-22022 (09557-22050)

(b) Place the plate washer on the companion flange.

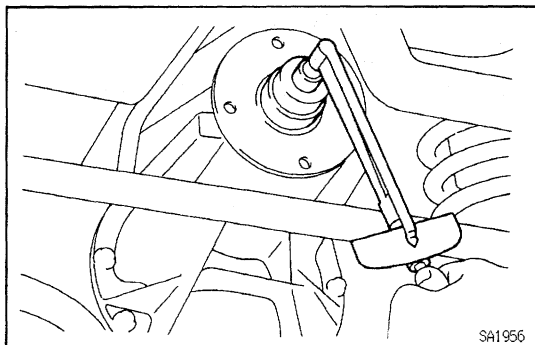


(c) Apply light coat of gear oil on threads of a new companion flange nut.

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

SST 09330-00021

Torque: 196 N-m (2,000 kgf-cm, 145 ft-lbf)



13. ADJUST DRIVE PINION PRELOAD

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

New bearing preload (at starting):

0.9–1.6 N-m (10–16 kgf-cm, 8.7–13.9 in-lbf)

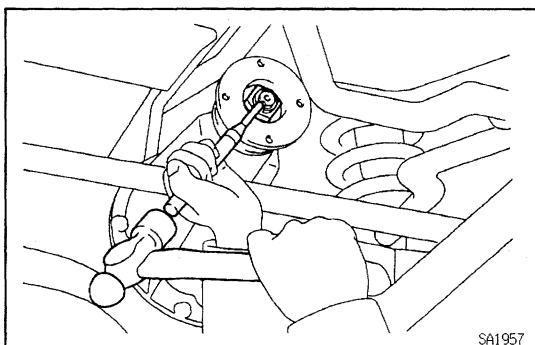
Reused bearing preload (at starting):

0.5–0.8 N-m (5–8 kgf-cm, 4.3–6.9 in-lbf)

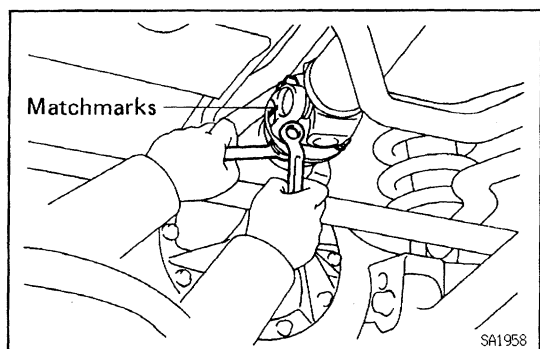
- If the preload is greater than specification, replace the bearing spacer.
- If the preload is less than specification, retighten the nut 13 N-m (130 kgf-cm, 9 ft-lbf) a little at a time until the specified preload is reached.

Maximum torque: 343 N-m (3,500 kgf-cm, 253 ft-lbf)

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.



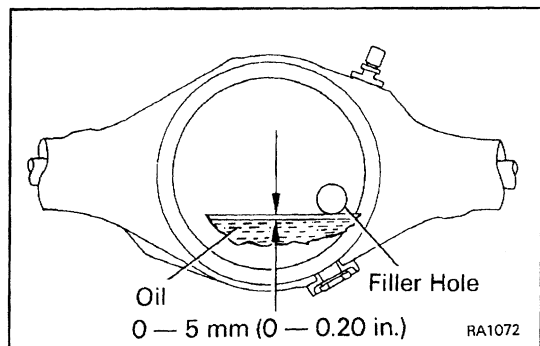
14. STAKE DRIVE PINION NUT

**15. CONNECT FRONT PROPELLER SHAFT**

(a) Align the matchmarks and connect the propeller shaft to the companion flange with the 4 bolts spring washers and nuts.

(b) Torque the bolts and nuts.

Torque: 74 N-m (750 kgf-cm, 54 ft-lbf)

**16. FILL DIFFERENTIAL WITH GEAR OIL**

Oil type:

Hypoid gear oil API GL-5

Recommended oil viscosity:

Above -18°C (0°F) SAE 90

Below -18°C (0°F) SAE 80W or 80W - 90

Capacity:

w/o Differential lock

2.8 liters (2.9 US qts, 2.5 Imp. qts)

w/ Differential lock

2.65 liters (2.8 US qts, 2.3 Imp. qts)