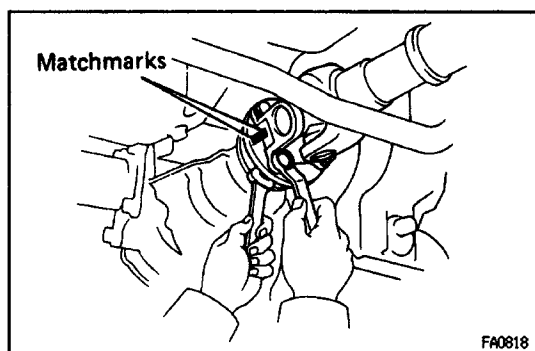
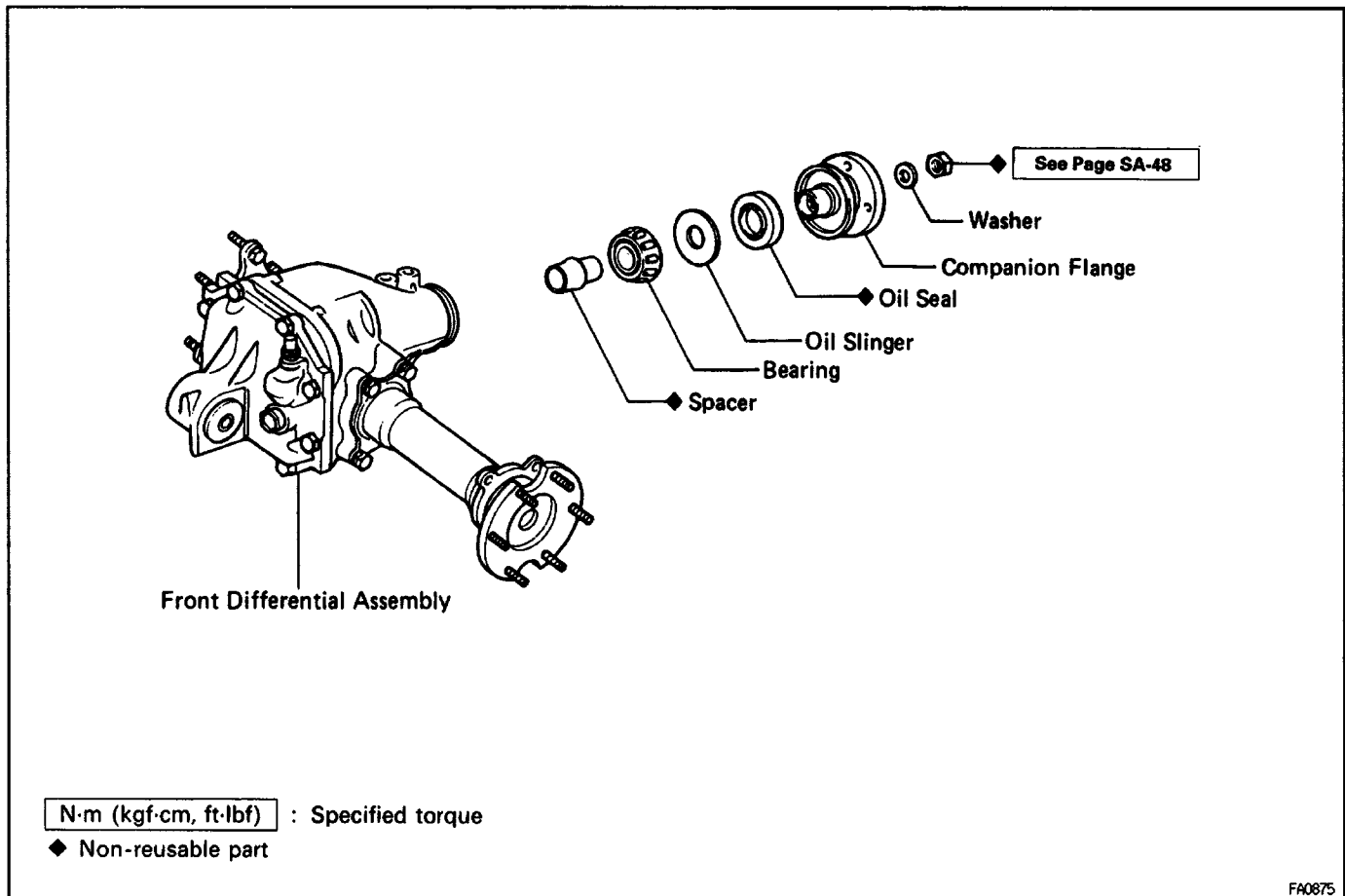


ON-VEHICLE REPAIR COMPONENTS

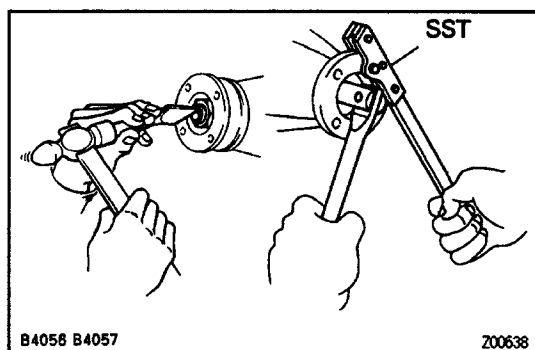


REAR OIL SEAL REPLACEMENT

1. DRAIN DIFFERENTIAL OIL

2. DISCONNECT FRONT PROPELLER SHAFT

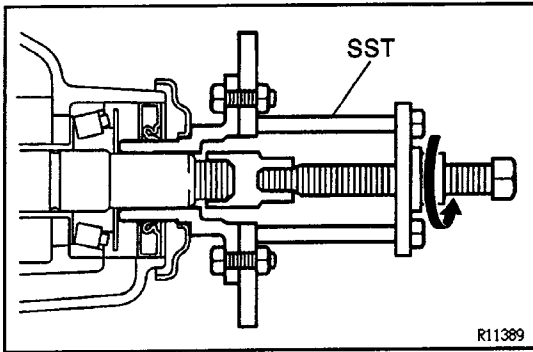
- Place matchmarks on the flanges.
- Remove the 4 nuts, washers and bolts, disconnect the front propeller shaft.



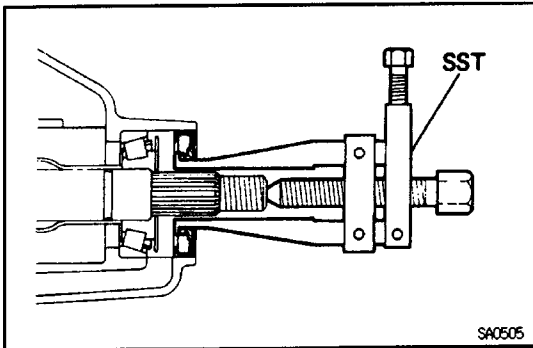
3. REMOVE COMPANION FLANGE

- Using a chisel and hammer, loosen the staked part of the nut.
- Using SST to hold the flange, remove the nut and washer.

SST 09330-00021

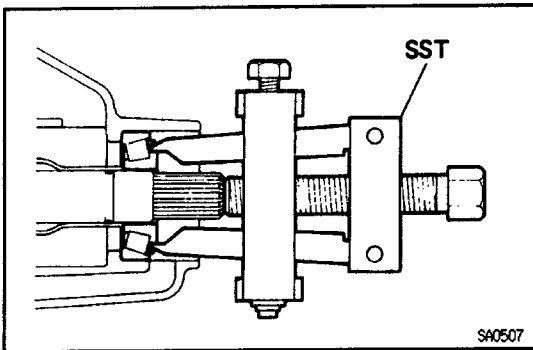


- (c) Using SST, remove the companion flange.
SST 09950-30010



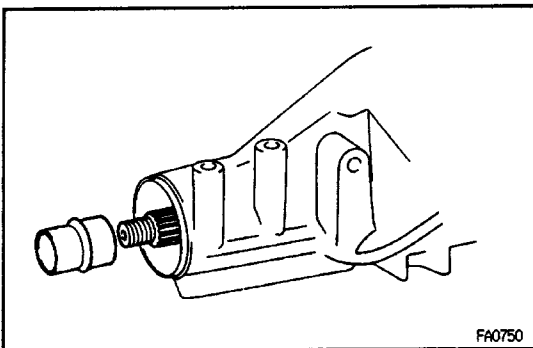
4. REMOVE OIL SEAL AND OIL SLINGER

- (a) Using SST, remove the oil seal.
SST 09308-10010
(b) Remove the oil slinger.



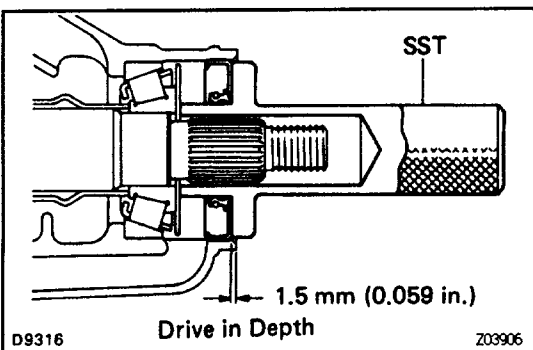
5. REMOVE REAR BEARING AND BEARING SPACER

- (a) Using SST, remove the rear bearing from the drive pinion.
SST 09556 - 22010
(b) Remove the bearing spacer.



6. INSTALL BEARING SPACER, REAR BEARING AND OIL SLINGER

- (a) Install a new bearing spacer on the drive pinion.
(b) Install the rear bearing on the drive pinion.
(c) Install the oil slinger.



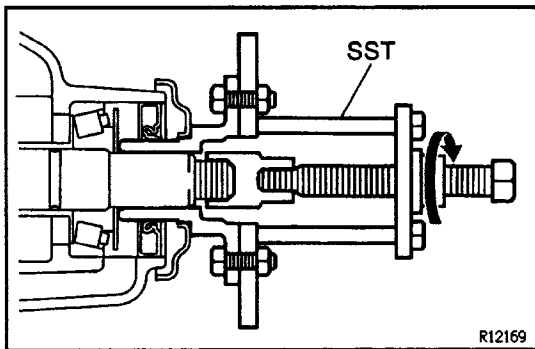
7. INSTALL OIL SEAL

- (a) Using SST, drive a new oil seal.
SST 09554-30011

Oil seal drive in depth:

1.5 mm (0.059 in.)

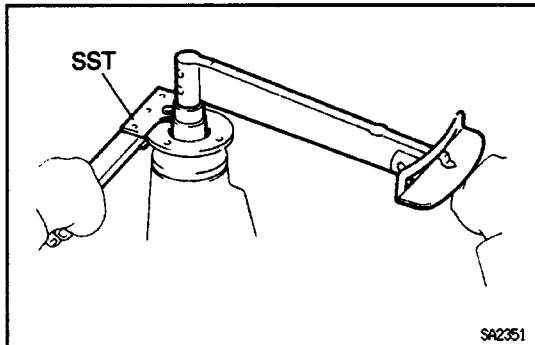
- (b) Apply MP grease to the oil seal lip.



8. INSTALL COMPANION FLANGE

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

SST 09950 - 30010

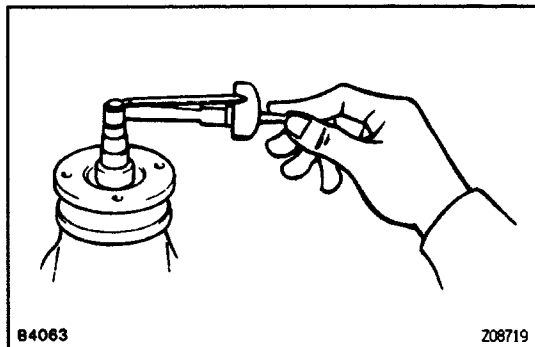


- (b) Coat the threads of a new nut with MP grease.

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

SST 09330-00021

Torque: 120 N-m (1,225 kgf-cm, 89 ft-lbf)



9. 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):

1.2 - 1.9 N-m (12 - 19 kgf-cm, 10.4 - 16.5 in.-lbf)

Reused bearing preload (at starting):

0.6 - 1.0 N-m (6 - 10 kgf-cm, 5.2 - 8.7 in.-lbf)

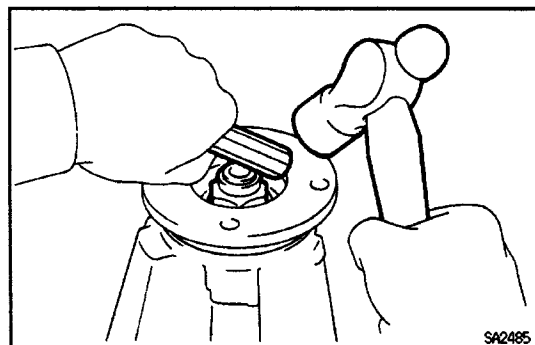
If the preload is greater than specification, replace the bearing spacer.

If the preload is less than specification, retighten the nut a little at a time with a torque of 13 N-m (130 kgf/cm, 9 ft-lbf) until the specified preload is reached.

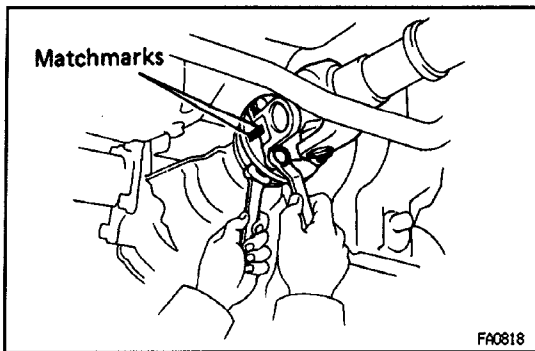
Maximum torque:

223 N-m (2,275 kgf-cm, 165 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.



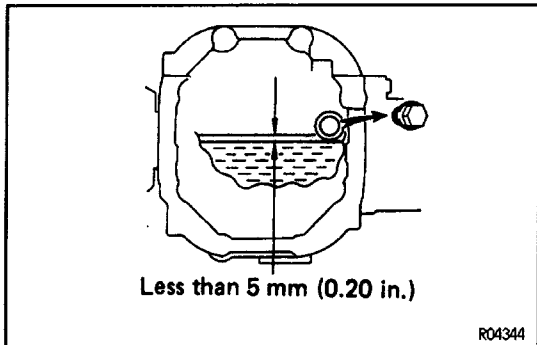
10. STAKE DRIVE PINION NUT



11. CONNECT FRONT PROPELLER SHAFT

- (a) Align the matchmarks and connect the propeller shaft to the companion flange with the 4 bolts, washers and nuts.
- (b) Torque the bolts.

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



12. FILL DIFFERENTIAL WITH GEAR OIL

w/ A. D. D.:

Oil type:

Hypoid gear oil API GL-5

Recommended oil viscosity:

SAE 75W-90

Capacity:

1.86 liters (1.97 US qts, 1.64 Imp. qts)

w/o A.D.D.:

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:

1.60 liters (1.69 US qts, 1.41 Imp. qts)