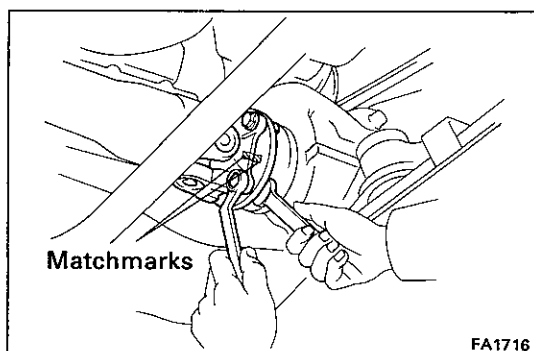
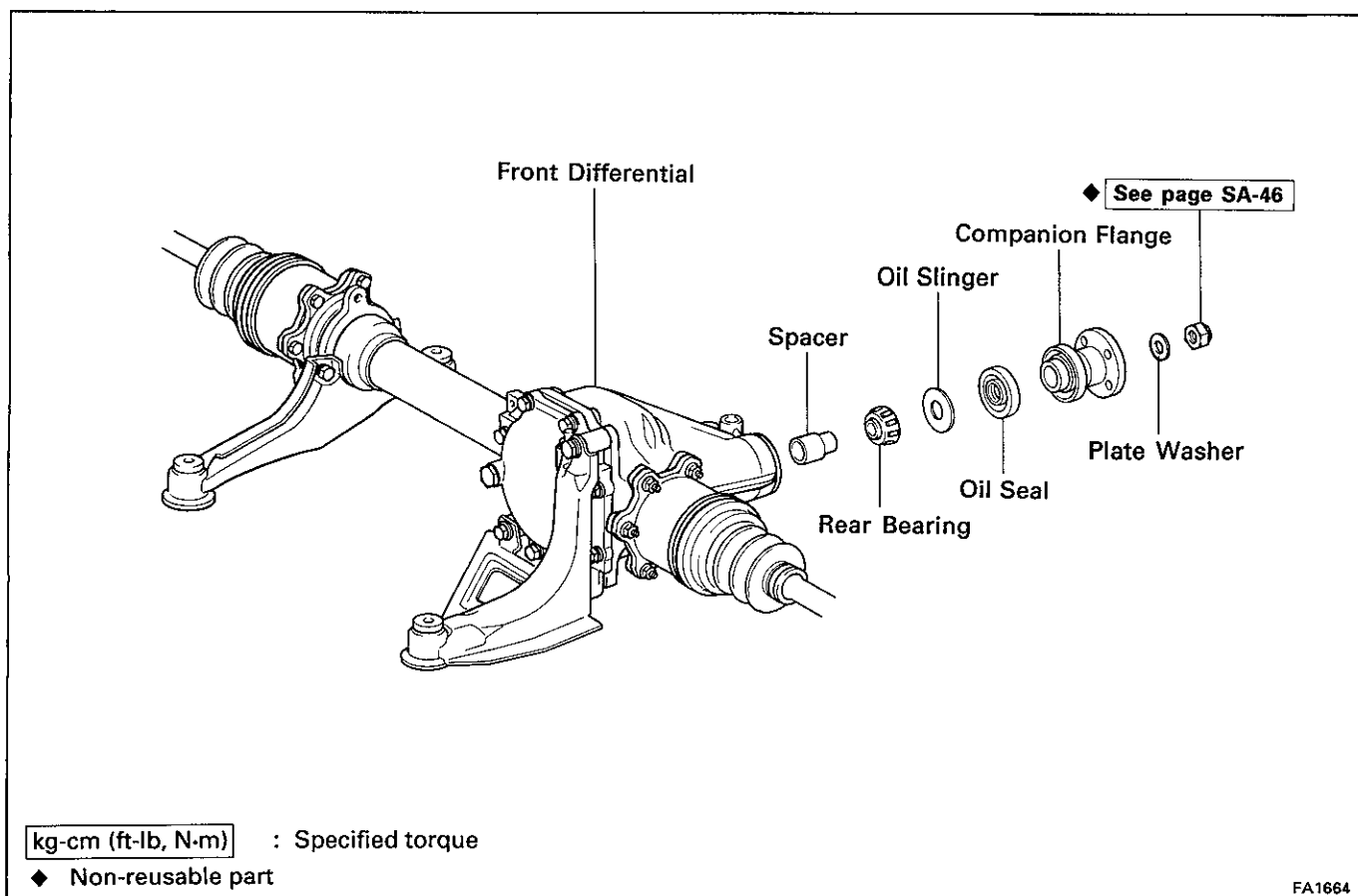


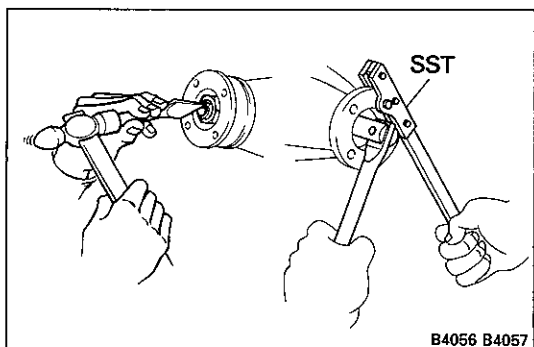
## FRONT DIFFERENTIAL / 4WD

### On-Vehicle Replacement of Rear Oil Seal

#### COMPONENTS



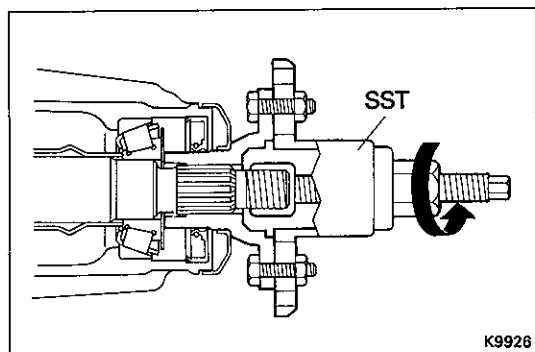
#### 1. DISCONNECT FRONT PROPELLER SHAFT (See page PR-3)



#### 2. REMOVE COMPANION FLANGE

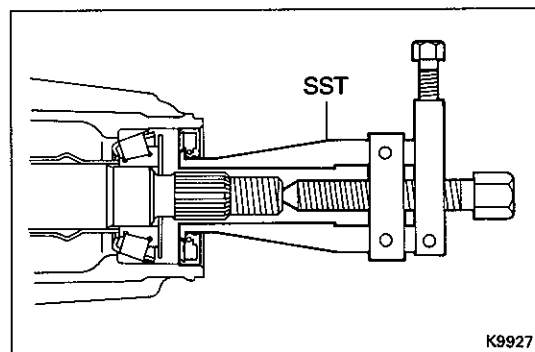
- Using a chisel and hammer, loosen the staked part of nut.
- Using SST, to hold the flange, remove the nut and plate washer.

SST 09330-00021



(c) Using SST, remove the companion flange.

SST 09557-22022 (09557-22030)

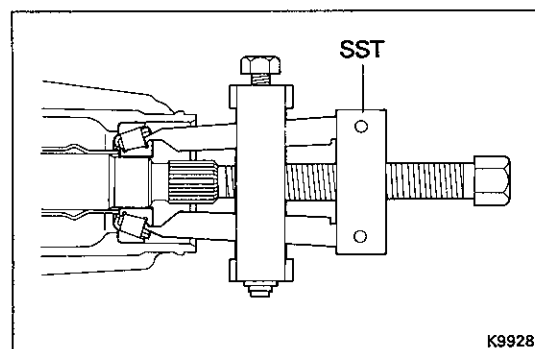


### 3. REMOVE OIL SEAL AND OIL SLINGER

(a) Using SST, remove the oil seal.

SST 09308-10010

(b) Remove the oil slinger.

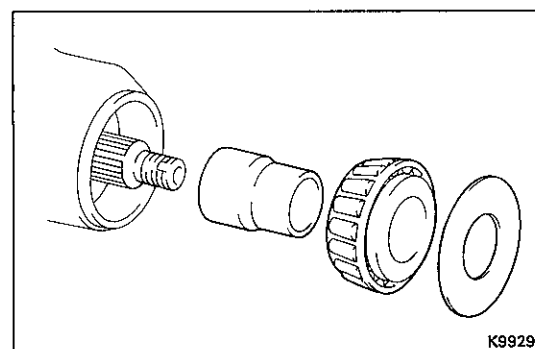


### 4. REMOVE REAR BEARING AND BEARING SPACER

(a) Using SST, remove the rear bearing from the drive pinion.

SST 09556-22010

(b) Remove the bearing spacer.

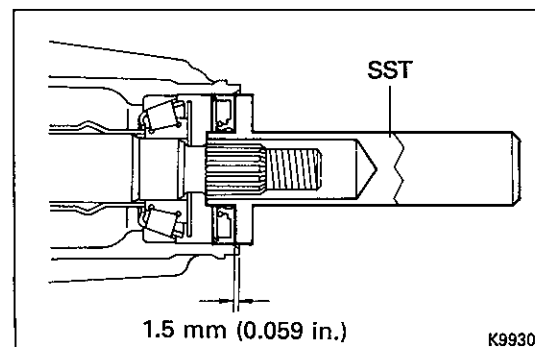


### 5. INSTALL BEARING SPACER, REAR BEARING AND OIL SLINGER

(a) Install a new bearing spacer.

(b) Install the rear bearing.

(c) Install the oil slinger.



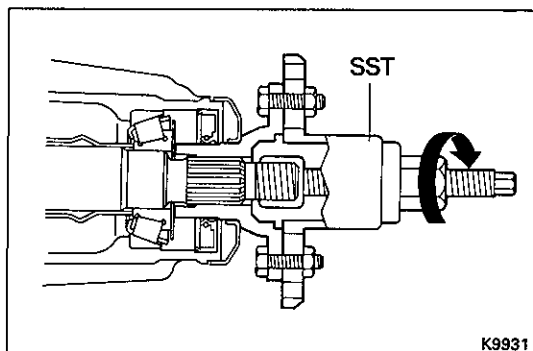
### 6. INSTALL OIL SEAL

(a) Using SST and a hammer, install 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.

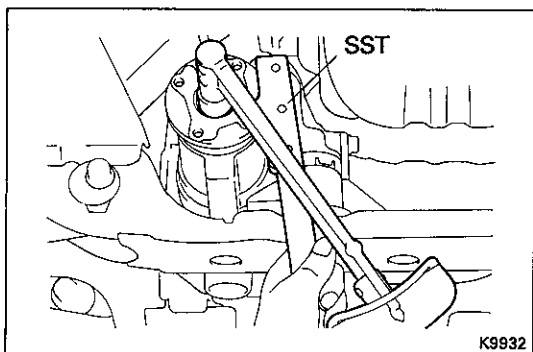


## 7. INSTALL COMPANION FLANGE

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

SST 09557-22022 (09557-22030)

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

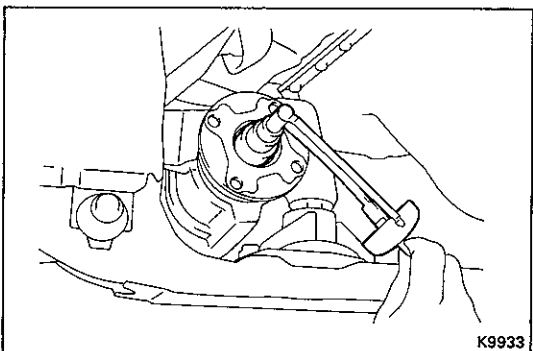


- (c) Apply light coat of gear oil on the threads of a new companion flange nut.

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

SST 09330-00021

**Torque: 1,100 kg-cm (80 ft-lb, 108 N-m)**



## 8. ADJUST DRIVE PINION PRELOAD

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

**Preload (starting):**

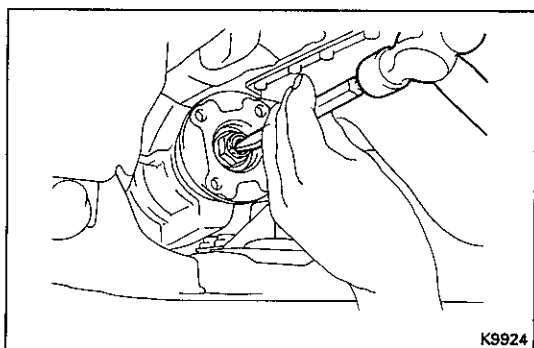
**6 – 10 kg-cm (5.2 – 8.7 in.-lb, 0.6 – 1.0 N-m)**

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

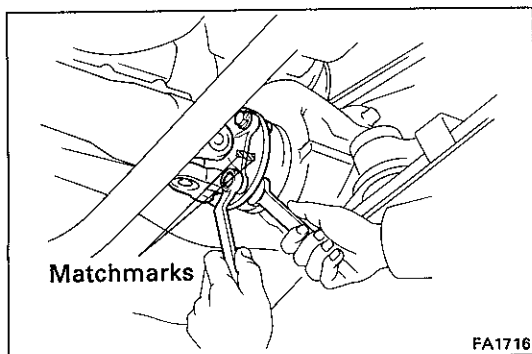
If the preload is less than specification, retighten the nut 130 kg-cm (9 ft-lb, 13 N-m) a little at a time until the specified preload is reached.

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.

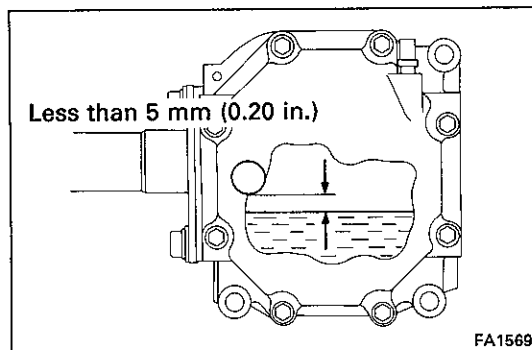
**Maximum torque: 2,400 kg-cm (174 ft-lb, 235 N-m)**



## 9. STAKE DRIVE PINION NUT



- 10. CONNECT FRONT PROPELLER SHAFT TO COMPANION FLANGE**  
(See page PR-4)



- 11. CHECK DIFFERENTIAL OIL LEVEL**

Fill with hypoid gear oil if necessary.

**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:** 1.6 liters (1.7 US qts, 1.4 Imp. qts)