# FRONT DIFFERENTIAL CARRIER OIL SEAL

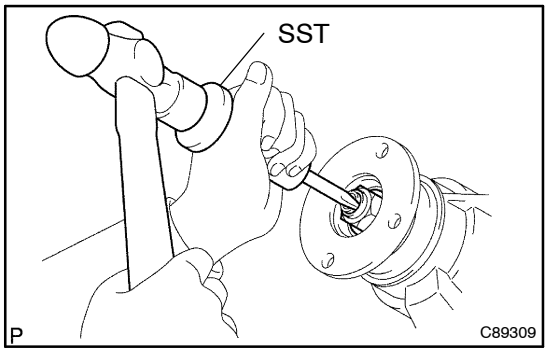
29069–02

## REPLACEMENT

HINT:

COMPONENTS : See page 29–11

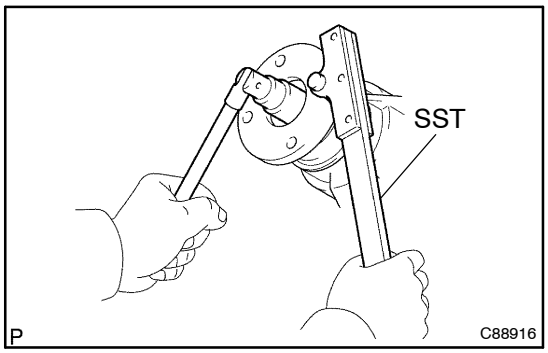
1. **REMOVE ENGINE UNDER COVER SUB–ASSY NO.1**
2. **REMOVE ENGINE UNDER COVER ASSY REAR**
3. **REMOVE PROPELLER SHAFT ASSY FRONT (See page 30–4)**




4. **REMOVE FRONT DRIVE PINION COMPANION FLANGE FRONT NUT**

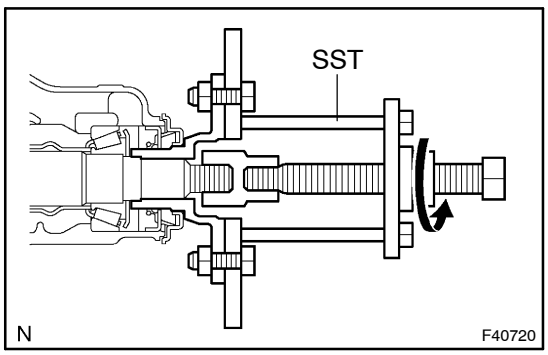
(a) Using SST and a hammer, loosen the staked part of the nut.

SST 09930–00010




(b) Using SST to hold the front drive pinion companion flange, remove the nut.

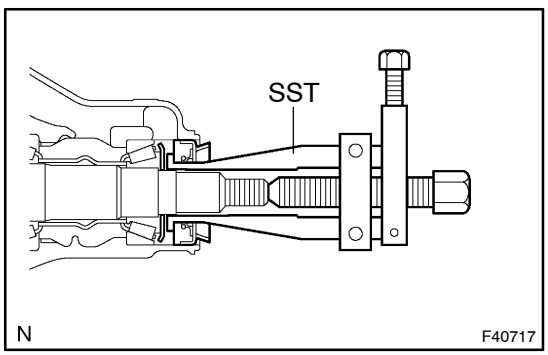
SST 09330–00021 (09330–00030)




5. **REMOVE FRONT DRIVE PINION COMPANION FLANGE SUB–ASSYFRONT**

(a) Using SST, remove the front drive pinion companion flange sub–assy.

SST 09950–30012 (09951–03010, 09953–03010, 09954–03010, 09955–03030, 09956–03020)

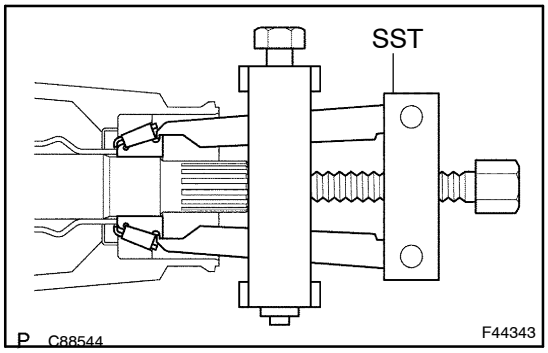



6. **REMOVE FRONT DIFFERENTIAL CARRIER OIL SEAL**

(a) Using SST, remove the front differential carrier oil seal.

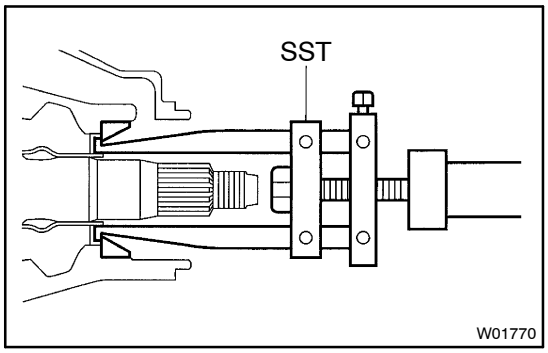
SST 09308–10010

**7. REMOVE FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER**




**8. REMOVE FRONT DRIVE PINION REAR TAPERED ROLLER BEARING**

(a) Using SST, remove front drive pinion rear tapered roller bearing (inner).
SST 09556–22010

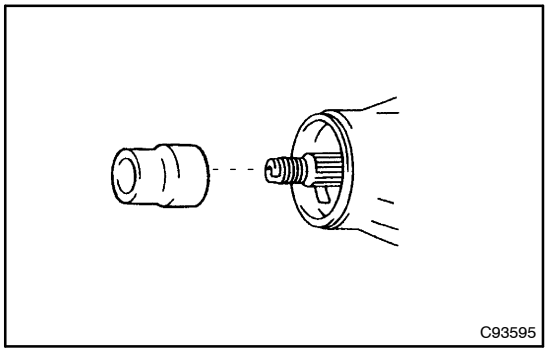



(b) Using SST, remove front drive pinion tapered roller bearing (outer).
SST 09308–00010

**9. REMOVE FRONT DIFFERENTIAL OIL STORAGE RING**

(a) Using a screwdriver and a hammer, remove the oil storage ring.

**10. REMOVE FRONT DIFFERENTIAL DRIVE PINION BEARING SPACER**

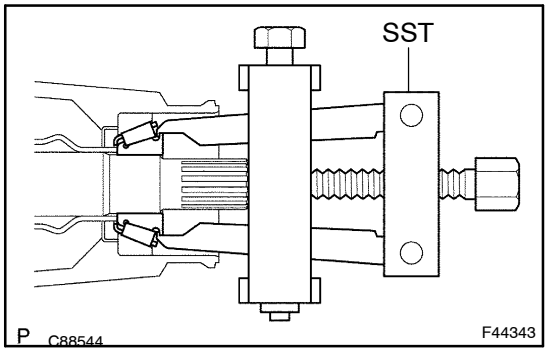



**11. INSTALL FRONT DIFFERENTIAL DRIVE PINION BEARING SPACER**

(a) Install a new rear differential drive pinion bearing spacer.

**12. INSTALL FRONT DIFFERENTIAL OIL STORAGE RING**

(a) Using a brass bar and a hammer, install the oil storage ring.

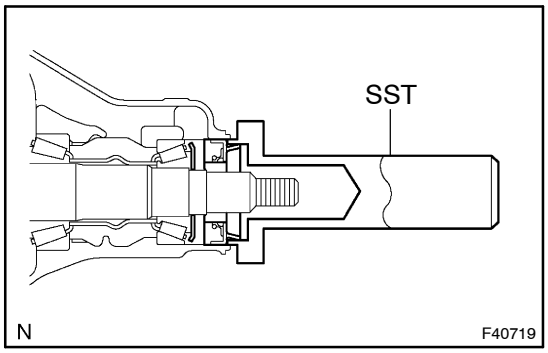



**13. INSTALL FRONT DRIVE PINION REAR TAPERED ROLLER BEARING**

(a) Using SST and a hammer, install the front drive pinion tapered roller bearing (outer).
SST 09316–60011 (09316–00011)

(b) Install the front drive pinion tapered roller bearing (inner).

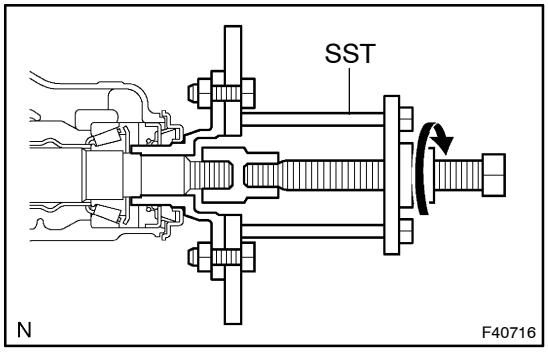
**14. INSTALL FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER**




**15. INSTALL FRONT DIFFERENTIAL CARRIER OIL SEAL**

(a) Using SST and a hammer, install a new differential carrier oil seal.
SST 09554–22010
**Oil seal drive in depth:**
**4.35 ± 0.45 mm (0.17 ± 0.018 in.)**

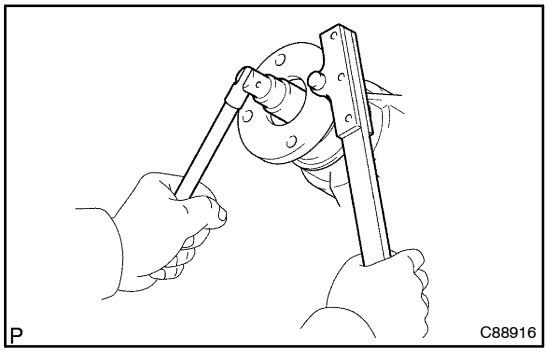
(b) Coat MP grease to the oil seal lip.



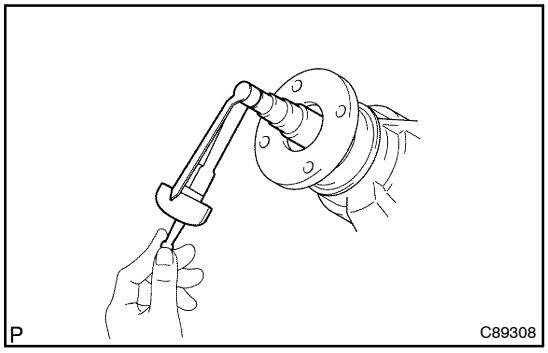

**16. INSTALL FRONT DRIVE PINION COMPANION FLANGE SUB–ASSYFRONT**

(a) Using SST, install the drive pinion companion flange sub–assy.
SST 09950–30012 (09951–03010, 09953–03010, 09954–03010, 09955–03030, 09956–03020),

(b) Coat the threads of a new nut with hypoid gear oil LSD.



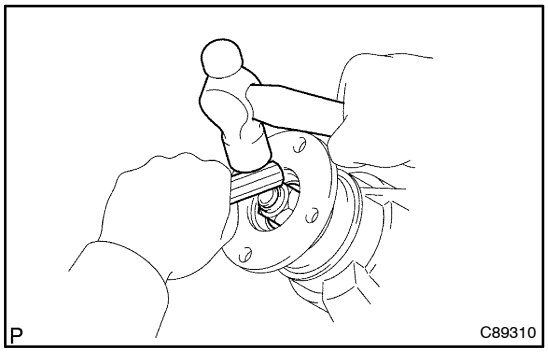

(c) Using SST, to hold the drive pinion companion flange, torque the nut.
SST 09330–00021 (09330–00030)
**Torque:**
**370 N·m (3,700 kgf·cm, 254 ft·lbf) or less**




**17. INSPECT DIFFERENTIAL DRIVE PINION PRELOAD**

(a) Using a torque wrench, measure the pleroad.

**New bearing:**
**0.98 – 1.57 N·m (10 – 16 kgf·cm, 8.7 – 14 in.·lbf)**
**Reused bearing:**
**0.49 – 0.78 N·m (5 – 8 kgf·cm, 4.3 – 6.9 in.·lbf)**




**18. INSTALL FRONT DRIVE PINION COMPANION FLANGE FRONT NUT**

(a) Using a chisel and hammer, stake the front drive pinion nut.

**19. INSTALL PROPELLER SHAFT ASSY FRONT (See page 30–4)**
**20. REFILL DIFFERENTIAL OIL (See page 29–3)**
**21. INSPECT AND ADJUST DIFFERENTIAL OIL (See page 29–3)**
**22. INSTALL ENGINE UNDER COVER ASSY REAR**
**Torque:29 N·m (296 kgf·cm, 21 ft·lbf)**
**23. INSTALL ENGINE UNDER COVER SUB–ASSY NO.1**
**Torque:29 N·m (296 kgf·cm, 21 ft·lbf)**