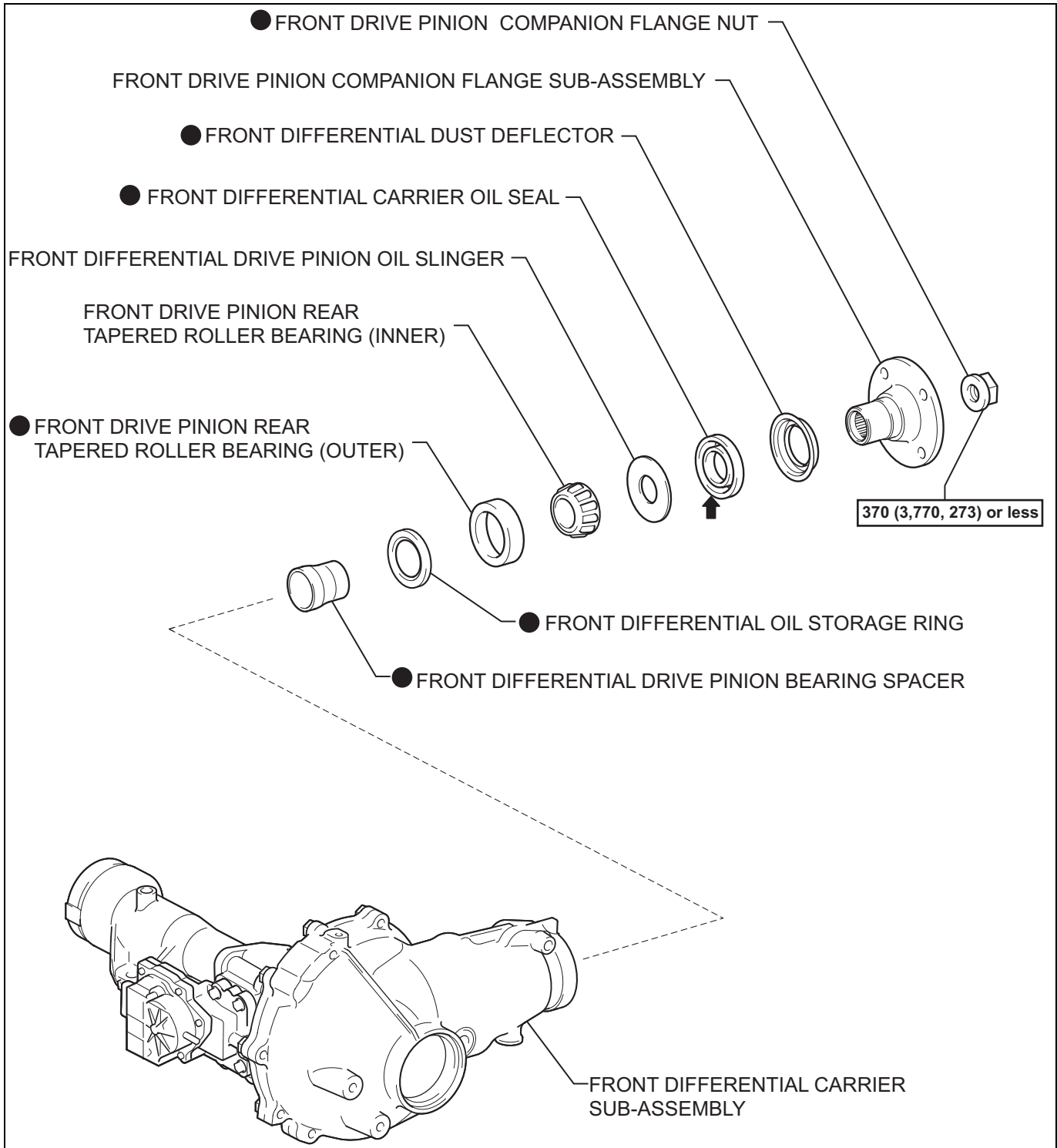


# FRONT DIFFERENTIAL CARRIER OIL SEAL

## COMPONENTS



N\*m (kgf\*cm, ft.\*lbf) : Specified torque

● Non-reusable part    ← MP grease

DF

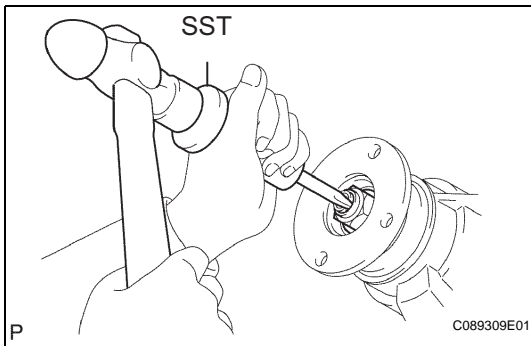
P

COURTESY of



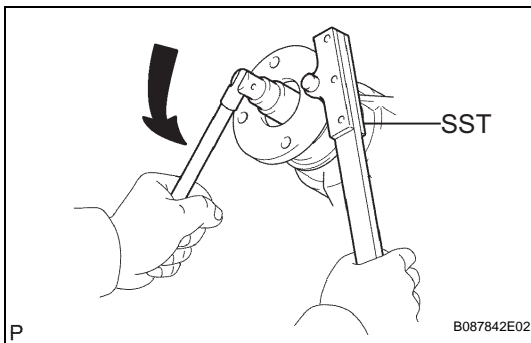
## REMOVAL

1. REMOVE NO. 1 ENGINE UNDER COVER (See page [EM-6](#))
2. REMOVE REAR ENGINE UNDER COVER ASSEMBLY
  - (a) Remove the 4 bolts, then remove the rear engine under cover.
3. REMOVE FRONT PROPELLER SHAFT ASSEMBLY (See page [PR-2](#))
4. REMOVE FRONT DRIVE PINION COMPANION FLANGE NUT



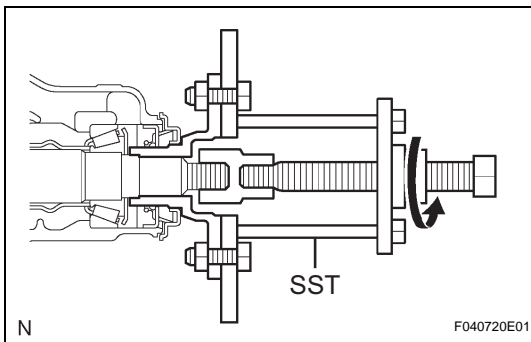
- (a) Using SST and a hammer, loosen the staked part of the nut.

**SST 09930-00010**



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

**SST 09330-00021 (09330-00030)**



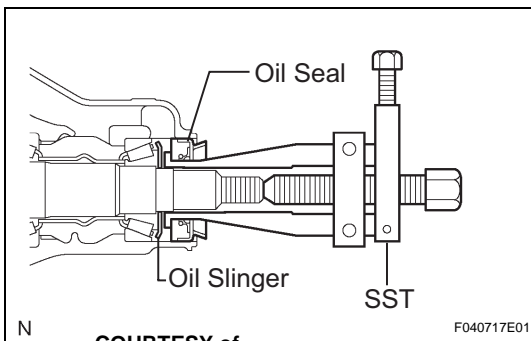
5. REMOVE FRONT DRIVE PINION COMPANION FLANGE SUB-ASSEMBLY

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

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

**NOTICE:**

Before using SST (center bolt), apply hypoid gear oil to its threads and tip.



6. REMOVE FRONT DIFFERENTIAL CARRIER OIL SEAL

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

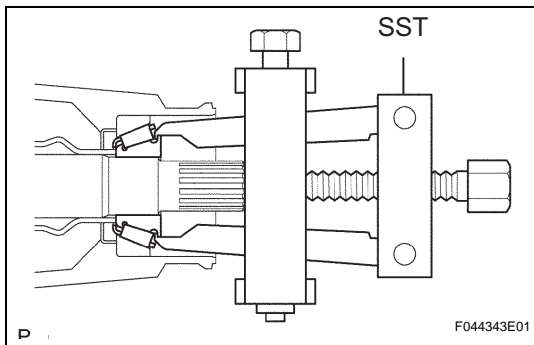
**SST 09308-10010**

7. REMOVE FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER

COURTESY of

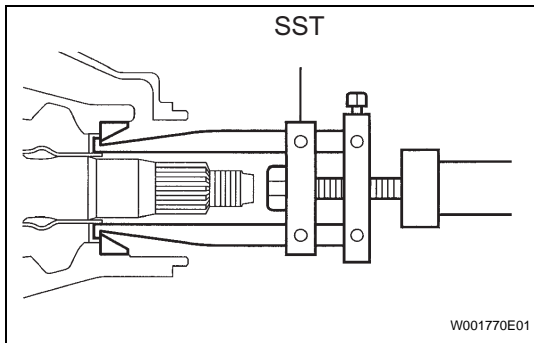


DF



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

- (a) Using SST, remove the roller bearing (inner).  
SST 09556-22010

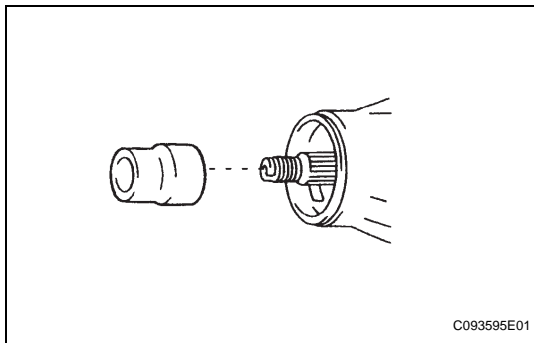


- (b) Using SST, tap out the roller bearing (outer).  
SST 09308-00010

### 9. REMOVE FRONT DIFFERENTIAL OIL STORAGE RING

- (a) Using a screwdriver and hammer, tap out the oil storage ring.

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



## INSTALLATION

### 1. INSTALL FRONT DIFFERENTIAL DRIVE PINION BEARING SPACER

- (a) Install a new bearing spacer.  
HINT:  
Install the spacer in the correct direction.

### 2. INSTALL FRONT DIFFERENTIAL OIL STORAGE RING

- (a) Using a brass bar and hammer, tap in a new oil storage ring.

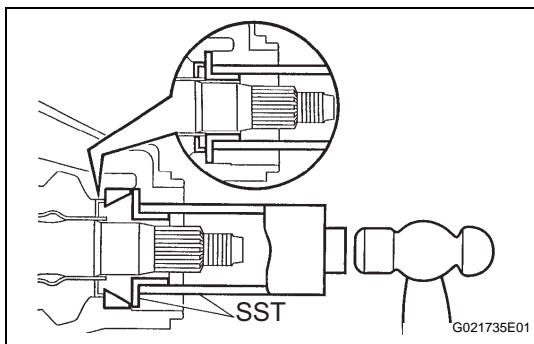
#### NOTICE:

Be careful not to damage the oil storage ring.

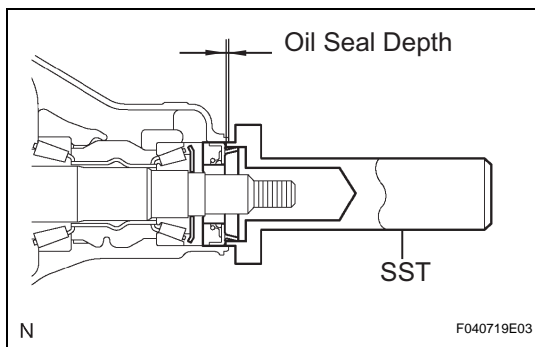
### 3. INSTALL FRONT DRIVE PINION REAR TAPERED ROLLER BEARING

- (a) Using SST and a hammer, install the roller bearing (outer).  
SST 09316-60011 (09316-00011, 09316-00021)  
(b) Install the roller bearing (inner).

### 4. INSTALL FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER



DF

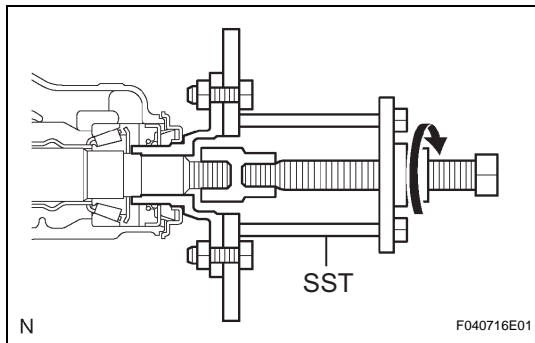
**5. INSTALL FRONT DIFFERENTIAL CARRIER OIL SEAL**

- (a) Apply MP grease to the lip of a new oil seal.
- (b) Using SST and a hammer, tap in the oil seal.

**SST 09554-22010**

**Oil seal depth:**

**3.9 to 4.8 mm (0.152 to 0.188in.)**

**6. INSTALL FRONT DRIVE PINION COMPANION FLANGE SUB-ASSEMBLY**

- (a) Using SST, instal the companion flange.  
**SST 09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03030, 09956-03020)**

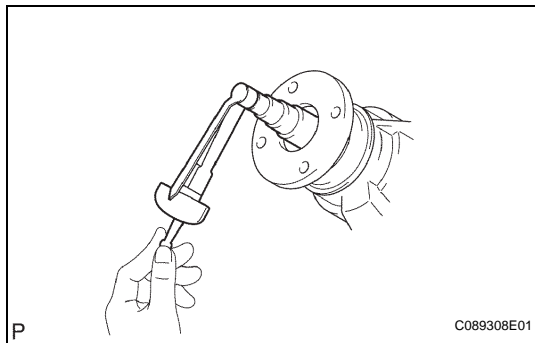
**NOTICE:**

**Before using SST (center bolt), apply hypoid gear oil to its threads and tip.**

- (b) Using SST to hold the companion flange, install the nut.

**SST 09330-00021 (09330-00030)**

**Torque: 370 N\*m (3,770 kgf\*cm, 273 ft.\*lbf) or less**

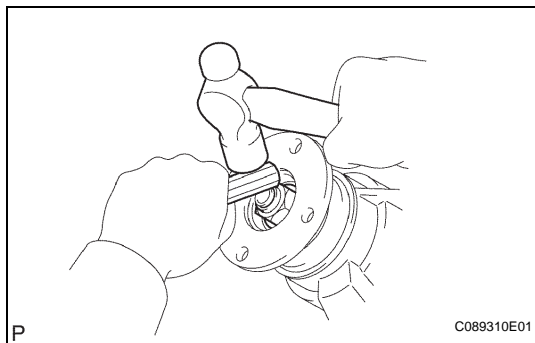
**7. INSPECT DIFFERENTIAL DRIVE PINION PRELOAD**

- (a) Using a torque wrench, measure the preload.

**Preload (at starting)**

Item	Specified Condition
New bearing	0.98 to 1.57 N*m (10 to 16 kgf*cm, 8.7 to 13.9 in.*lbf)
Used bearing	0.49 to 0.78 N*m (5 to 8 kgf*cm, 4.3 to 6.9 in.*lbf)

If the result is not as specified, adjust the preload.

**8. STAKE FRONT DRIVE PINION COMPANION FLANGE NUT**

- (a) Using a chisel and hammer, stake the nut.

**9. INSTALL FRONT PROPELLER SHAFT ASSEMBLY (See page PR-6)****10. ADD DIFFERENTIAL OIL (See page DF-3)****11. CHECK FOR DIFFERENTIAL OIL LEAKAGE****12. INSTALL REAR ENGINE UNDER COVER ASSEMBLY**

- (a) Install the rear engine under cover with the 4 bolts.

**Torque: 29 N\*m (296 kgf\*cm, 21 ft.\*lbf)**

**13. INSTALL NO. 1 ENGINE UNDER COVER (See page EM-7)**

COURTESY of

