

# ENGINE REAR OIL SEAL (1ZZ-FE)

1400N-02

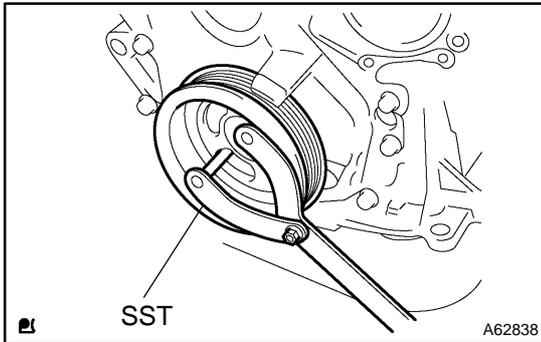
## REPLACEMENT

1. REMOVE MANUAL TRANSAXLE ASSY (M/T TRANSAXLE) (See page 41-17)
2. REMOVE AUTOMATIC TRANSAXLE ASSY (A/T TRANSAXLE, 2WD DRIVE TYPE)  
(See page 40-12)
3. REMOVE AUTOMATIC TRANSAXLE ASSY (A/T TRANSAXLE, 4WD DRIVE TYPE)  
(See page 40-36)

### HINT:

Remove and install the transaxle assembly after removing the engine assy W/ transaxle.

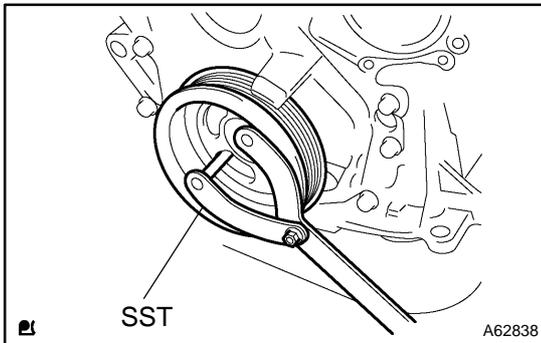
4. REMOVE CLUTCH COVER ASSY (M/T TRANSAXLE) (See page 42-18)
5. REMOVE CLUTCH DISC ASSY (M/T TRANSAXLE) (See page 42-18)



### 6. REMOVE FLYWHEEL SUB-ASSY (M/T TRANSAXLE)

- (a) Fix the crankshaft with SST, then remove the 8 bolts and flywheel.

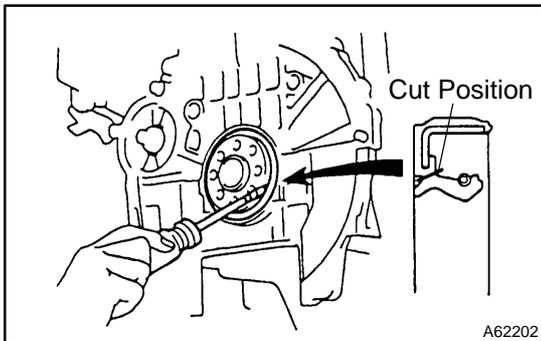
SST 09960-10010 (09962-01000, 09963-01000)



### 7. REMOVE DRIVE PLATE & RING GEAR SUB-ASSY (A/T TRANSAXLE)

- (a) Fix the crankshaft with SST, then remove the 8 bolts and drive plate & ring gear.

SST 09960-10010 (09962-01000, 09963-01000)

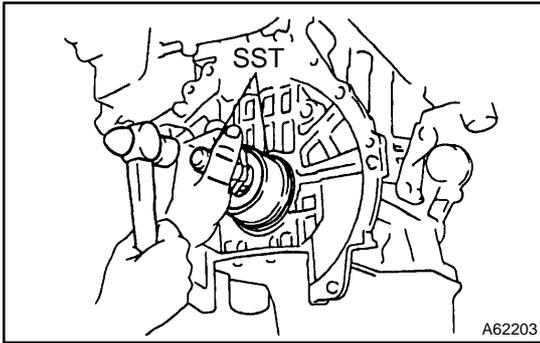


### 8. REMOVE ENGINE REAR OIL SEAL

- (a) Using a knife, cut off the oil seal lip.
- (b) Using a screwdriver with taping its tip, pry out the oil seal.

#### NOTICE:

After the removal, check if the crankshaft is not damaged. If there is, mend it with a sandpaper (#400).



**9. INSTALL ENGINE REAR OIL SEAL**

- (a) Apply MP grease to a new oil seal lip.

**NOTICE:**

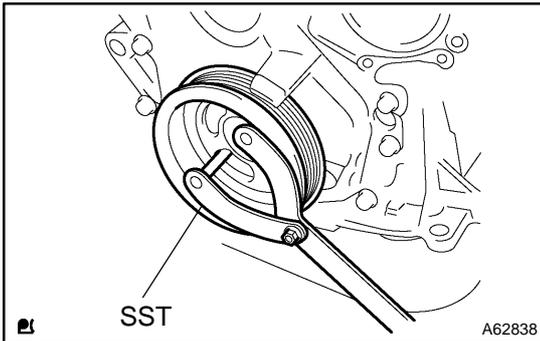
**Keep the lip off foreign materials.**

- (b) Using SST, tap in the oil seal until its surface is flush with the rear oil seal retainer edge.

SST 09223-15020, 09950-70010 (09951-07100)

**NOTICE:**

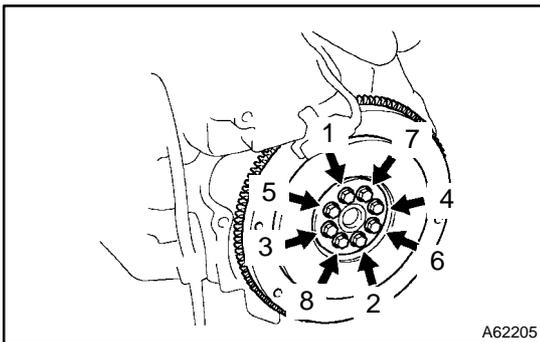
**Wipe off extra grease on the crankshaft.**



**10. INSTALL FLYWHEEL SUB-ASSY (M/T TRANSAXLE)**

- (a) Fix the crankshaft with SST.

SST 09960-10010 (09962-01000, 09963-01000)



- (b) Clean the bolt and bolt hole.

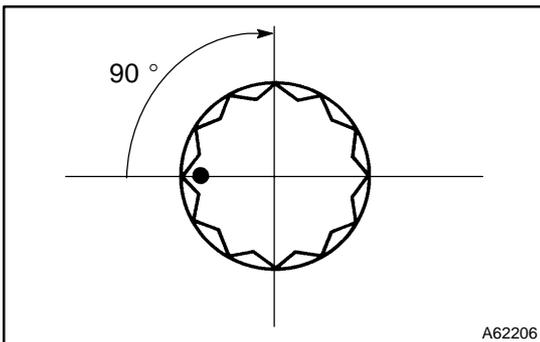
- (c) Apply adhesive to the bolts.

**Adhesive:**

**Part No. 09330-00070, THREE BOND or equivalent.**

- (d) Install and uniformly tighten the 8 bolts, in several passes, in the sequence shown.

**Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)**



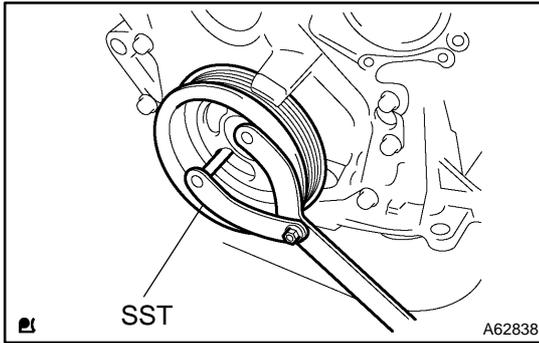
- (e) Mark the bolts with paint.

- (f) Retighten the bolts by an additional 90°.

- (g) Check that the point marked bolts are moved at 90° angle.

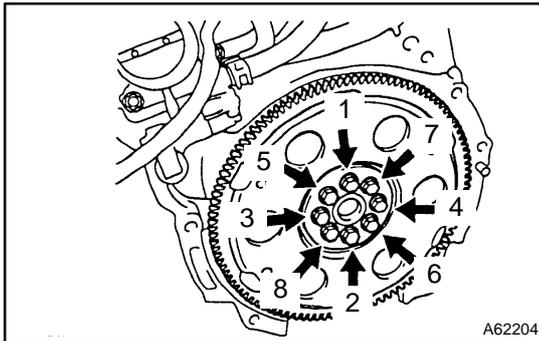
**11. INSTALL CLUTCH DISC ASSY (M/T TRANSAXLE) (See page 42-18)**

**12. INSTALL CLUTCH COVER ASSY (M/T TRANSAXLE) (See page 42-18)**



### 13. INSTALL DRIVE PLATE & RING GEAR SUB-ASSY (A/T TRANSAXLE)

- (a) Fix the crankshaft with SST.  
SST 09960-10010 (09962-01000, 09963-01000)



- (b) Clean the bolt and bolt hole.  
(c) Apply adhesive to the bolts.

**Adhesive:**

**Part No. 09330-00070, THREE BOND or equivalent.**

- (d) Install and uniformly tighten the 8 bolts, in several passes, in the sequence shown.  
(e) Fix the crankshaft with SST.  
**Torque: 88 N·m (897 kgf·cm, 65 ft·lbf)**

14. **INSTALL MANUAL TRANSAXLE ASSY (M/T TRANSAXLE)** (See page 41-17)  
15. **INSTALL AUTOMATIC TRANSAXLE ASSY (A/T TRANSAXLE, 2WD DRIVE TYPE)**  
(See page 40-12)  
16. **INSTALL AUTOMATIC TRANSAXLE ASSY (A/T TRANSAXLE, 4WD DRIVE TYPE)**  
(See page 40-36)