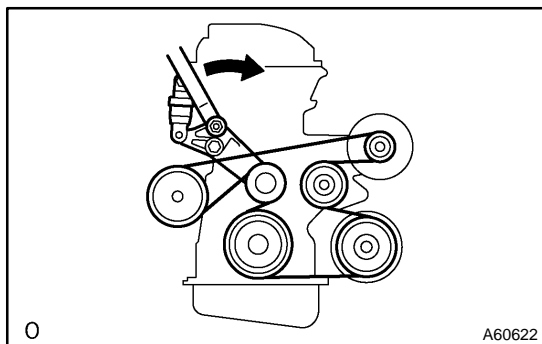


TIMING GEAR COVER OIL SEAL (1ZZ-FE)

1400M-02

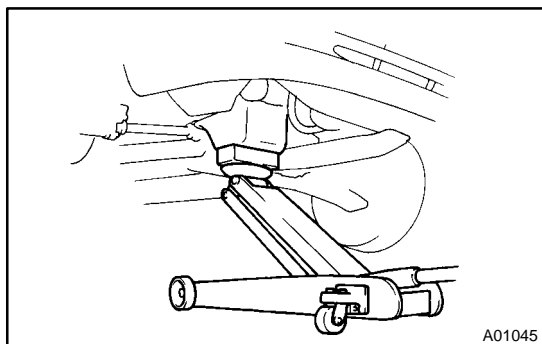
REPLACEMENT

1. REMOVE ENGINE UNDER COVER RH
2. REMOVE FRONT WHEEL RH



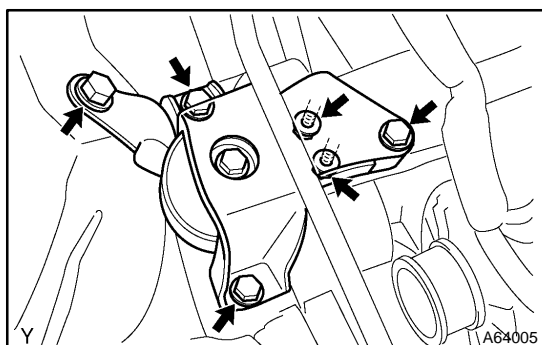
3. REMOVE FAN AND GENERATOR V BELT

- (a) Turn the V-ribbed belt tensioner slowly clockwise and loosen it. Then, remove the fan and generator V belt and put back the V-ribbed belt tensioner little by little and fix it quietly.



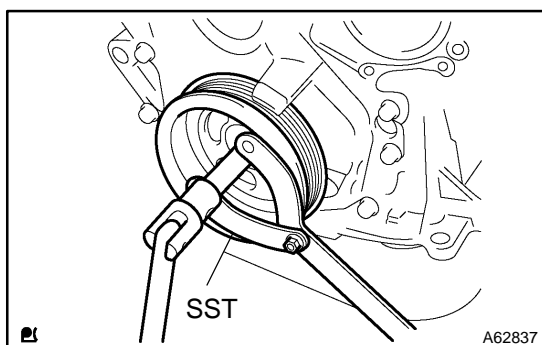
4. REMOVE ENGINE MOUNTING INSULATOR SUB-ASSY RH

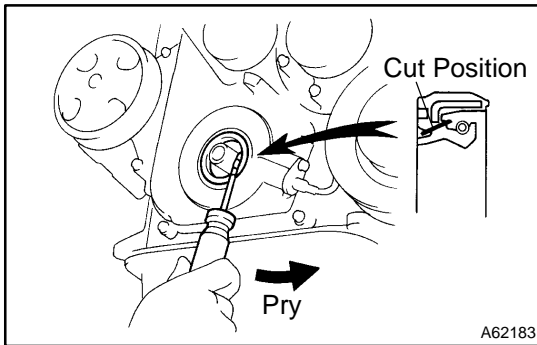
- (a) Remove the the PS oil pump reservoir and put it aside.
- (b) Place a wooden block between the jack and engine, and set the jack. Then, remove the 4 bolts, the 2 nuts and engine mounting insulator RH.



5. REMOVE CRANKSHAFT PULLEY

- (a) Using SST, remove the crankshaft pulley bolt.
SST 09960-10010 (09962-01000, 09963-01000)
- (b) Remove the crankshaft pulley from the crankshaft.

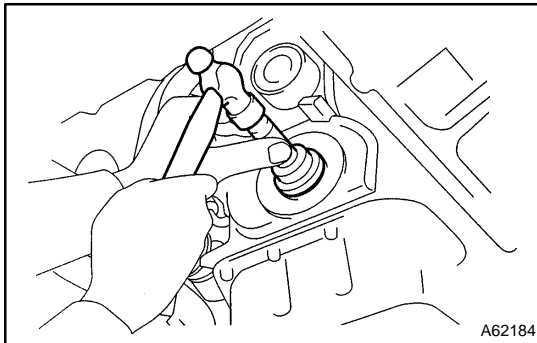


**6. REMOVE TIMING GEAR COVER OIL SEAL**

- (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).

**7. INSTALL TIMING GEAR COVER OIL SEAL**

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

NOTICE:

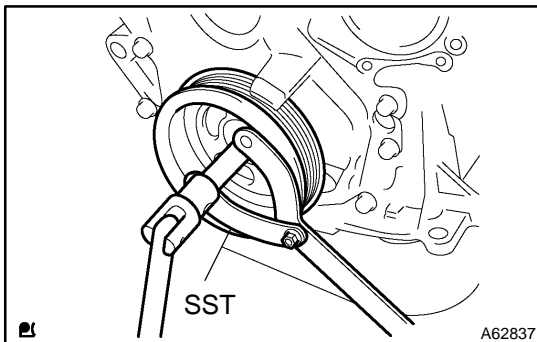
Keep the lip off foreign materials.

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

SST 09223-22010

NOTICE:

Wipe off extra grease on the crankshaft.

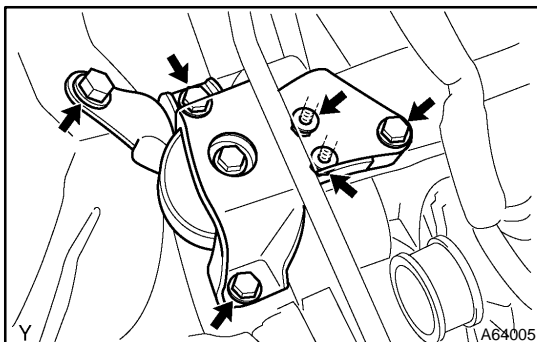
**8. INSTALL CRANKSHAFT PULLEY**

- (a) Align the pulley set key with the key groove of the pulley, and slide on the pulley.

- (b) Using SST, install the crankshaft pulley bolt.

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

Torque: 138 N·m (1,407 kgf·cm, 102 ft·lbf)

**9. INSTALL ENGINE MOUNTING INSULATOR SUB-ASSY RH**

- (a) Install the engine mounting insulator RH with the 4 bolts and 2 nuts.

Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)

10. INSTALL FRONT WHEEL RH

Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

11. CHECK ENGINE OIL LEAK