TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL (1KZ–TE)

1410X–01

REPLACEMENT

1. REMOVE ENGINE UNDER COVER SUB–ASSY NO.1

(a) Remove the 4 bolts and engine under cover.

2. DRAIN ENGINE COOLANT (See page 16–34)

3. REMOVE RADIATOR SUPPORT SEAL UPPER

4. REMOVE RADIATOR HOSE NO.1

5. REMOVE V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1 (W/ AIR CONDITIONING) (See page 14–128)

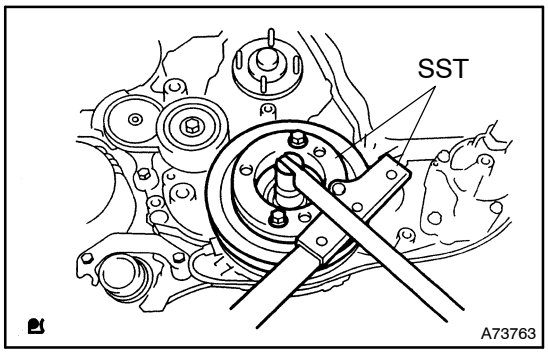
6. REMOVE FAN AND GENERATOR V BELT (See page 14–128)

7. REMOVE FLUID COUPLING ASSY

(a) Remove the 4 pulley nuts, the fan, fluid coupling and fan pulley.

8. REMOVE FAN SHROUD

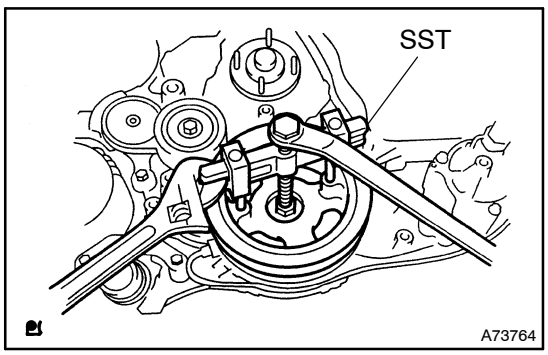
(a) Remove the 3 bolts and fan shroud.



9. REMOVE CRANKSHAFT PULLEY

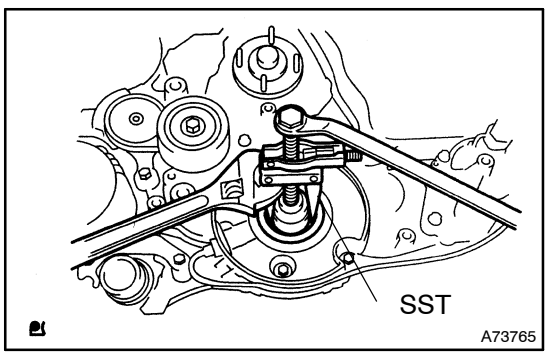
(a) Using SST, loosen the pulley bolt.

SST 09213–58013, 09330–00021



(b) Using SST, remove the crankshaft pulley.

SST 09950–50013 (09951–05010, 09952–05010, 09953–05020, 09954–05021)



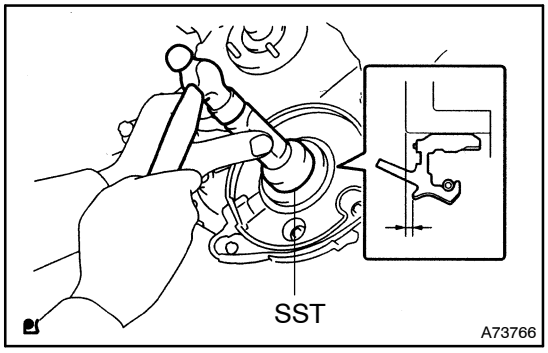
10. REMOVE TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL

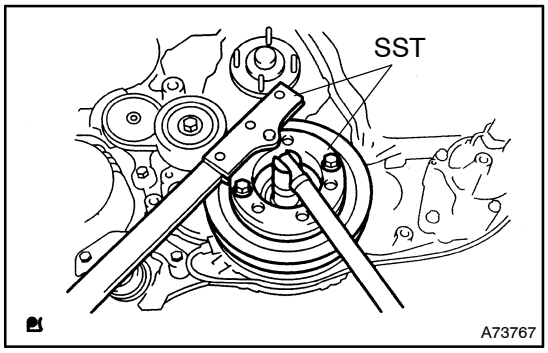
(a) Using SST, remove the oil seal.

SST 09308–10010, 09950–50013 (09957–04010), 09950–60010 (09951–00350)

HINT:

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





11. INSTALL TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL

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

NOTICE:

Keep the lip off foreign materials.

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

SST 09223–46011

NOTICE:

Wipe off extra grease on the crankshaft.

12. INSTALL CRANKSHAFT PULLEY

(a) Align the pulley set key with the key groove of the pulley.

(b) Using SST, install the pulley bolt.

SST 09213–58013, 09330–00021

Torque: 365 N·m (3,725 kgf·cm, 125 ft·lbf)

13. INSTALL FAN SHROUD

(a) Install the fan shroud with 3 bolts.

Torque: 5 N·m (51 kgf·cm, 44 in.·lbf)

14. INSTALL FLUID COUPLING ASSY

(a) Install the fan pulley and fluid coupling with 4 bolts.

Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)

15. INSTALL FAN AND GENERATOR V BELT (See page 14–128)

16. INSTALL V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1 (W/ AIR CONDITIONER) (See page 14–128)

17. INSTALL RADIATOR HOSE NO.1

18. INSTALL RADIATOR SUPPORT SEAL UPPER

19. ADD ENGINE COOLANT (See page 16–34)

20. CHECK FOR ENGINE COOLANT LEAKS (See page 16–34)

21. CHECK FOR ENGINE OIL LEAKS

22. INSTALL ENGINE UNDER COVER SUB–ASSY NO.1

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

Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)