ENGINE REAR OIL SEAL (5L–E)

1411G–01

REPLACEMENT

1. REMOVE ENGINE UNDER COVER SUB–ASSY NO.1
2. REMOVE ENGINE UNDER COVER ASSY REAR
3. DRAIN ENGINE COOLANT (See page 16–18)
4. REMOVE RADIATOR SUPPORT SEAL UPPER
5. REMOVE RADIATOR HOSE NO.1
6. REMOVE VANE PUMP V BELT (See page 14–77)
7. REMOVE V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1 (W/ AIR CONDITIONING) (See page 14–77)
8. REMOVE FAN AND GENERATOR V BELT (W/O AIR CONDITIONING) (See page 14–77)

HINT:

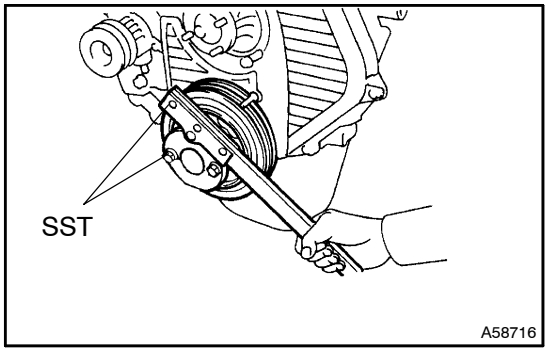
Loosen the 4 fan pulley nuts.

9. REMOVE FAN AND GENERATOR V BELT (W/ AIR CONDITIONING) (See page 14–77)

HINT:

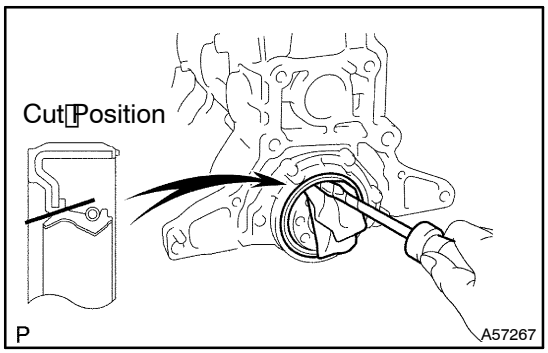
Loosen the 4 fan pulley nuts.

10. REMOVE FLUID COUPLING ASSY (See page 14–99)
11. REMOVE FAN SHROUD
12. REMOVE VANE PUMP DRIVE PULLEY (W/O AIR CONDITIONING) (See page 14–99)
13. REMOVE VANE PUMP DRIVE PULLEY (W/ AIR CONDITIONING) (See page 14–99)
14. REMOVE MANUAL TRANSMISSION UNIT ASSY (See page 41–4)
15. REMOVE CLUTCH COVER ASSY (See page 42–15)
16. REMOVE CLUTCH DISC ASSY (See page 42–15)



17. REMOVE FLYWHEEL SUB–ASSY
(a) Fix the crankshaft with SST, then remove the 8 bolts and flywheel.
SST 09213–54015 (91651–60855), 09330–00021

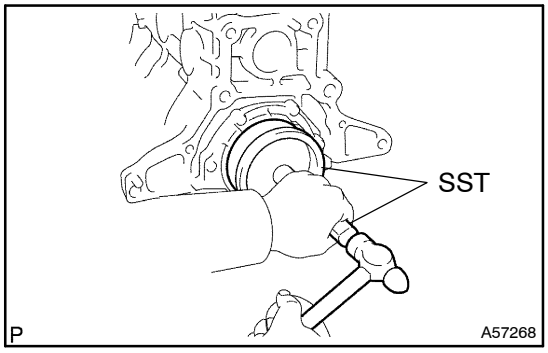
18. REMOVE REAR END PLATE
19. REMOVE FLYWHEEL HOUSING DUST SEAL



20. REMOVE ENGINE REAR OIL SEAL
(a) Using a knife, cut off the oil seal lip.
(b) Using a screwdriver, 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).



21. INSTALL ENGINE REAR OIL SEAL

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

NOTICE:

Keep the lip off of foreign materials.

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

SST 09223–15030, 09950–70010 (09951–07100)

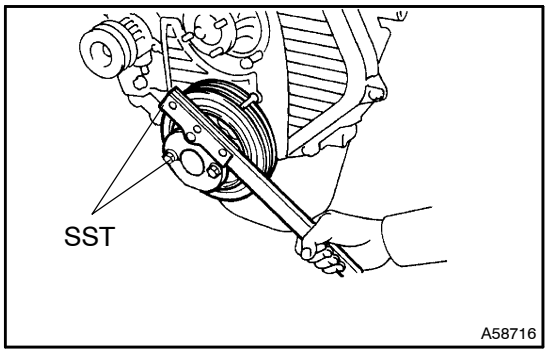
NOTICE:

Wipe off extra grease on the crankshaft.

22. INSTALL FLYWHEEL HOUSING DUST SEAL

23. INSTALL REAR END PLATE

Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)



24. INSTALL FLYWHEEL SUB–ASSY

(a) Using SST, hold the crankshaft.

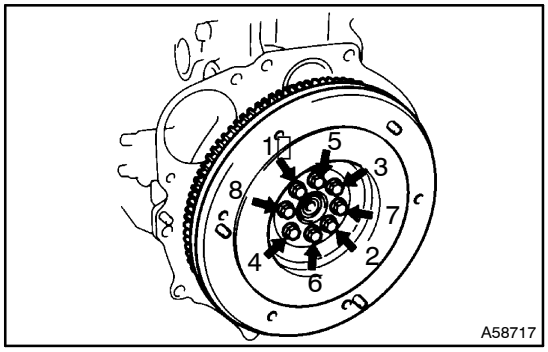
SST 09213–54015 (91651–60855), 09330–00021

(b) Clean the bolts and bolt holes.

(c) Apply adhesive to 2 or 3 threads of the bolts.

Adhesive: Part No. 08833–00070, THREE BOND 1324 or equivalent

(d) Install the flywheel on the crankshaft.



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

Torque: 123 N·m (1,250 kgf·cm, 90 ft·lbf)

NOTICE:

Do not start the engine within an hour after installing.

25. INSTALL CLUTCH DISC ASSY (See page 42–15)

26. INSTALL CLUTCH COVER ASSY (See page 42–15)

27. INSTALL MANUAL TRANSMISSION UNIT ASSY (See page 41–4)

28. INSTALL VANE PUMP DRIVE PULLEY (W/O AIR CONDITIONING) (See page 14–99)

29. INSTALL VANE PUMP DRIVE PULLEY (W/ AIR CONDITIONING) (See page 14–99)

30. INSTALL FAN SHROUD (See page 16–20)

31. TEMPORARILY TIGHTEN FLUID COUPLING ASSY (See page 14–99)

32. INSTALL FAN AND GENERATOR V BELT (W/O AIR CONDITIONING) (See page 14–77)

33. INSTALL FAN AND GENERATOR V BELT (W/ AIR CONDITIONING) (See page 14–77)

34. TIGHTEN FLUID COUPLING ASSY (See page 14–99)

35. INSTALL V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1 (W/ AIR CONDITIONING) (See page 14–77)

36. INSTALL VANE PUMP V BELT (See page 14–77)

37. ADD ENGINE COOLANT (See page 16–18)

38. CHECK FOR ENGINE COOLANT LEAKS (See page 16–18)

39. INSTALL ENGINE UNDER COVER ASSY REAR (See page 14–91)
40. INSTALL ENGINE UNDER COVER SUB–ASSY NO.1 (See page 14–91)