TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL (5L–E)

1411F–01

REPLACEMENT

1. **REMOVE ENGINE UNDER COVER SUB–ASSY NO.1**
2. **DRAIN ENGINE COOLANT (See page 16–18)**
3. **REMOVE AIR CLEANER ASSY (See page 14–91)**
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.

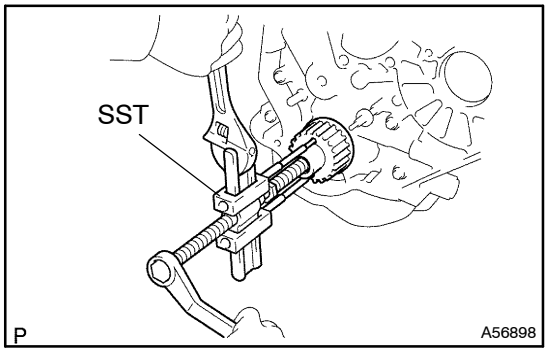
9. **REMOVE FAN AND GENERATOR V BELT (W/ AIR CONDITIONING) (See page 14–77)**

HINT:

Loosen the 4 fan pulley nuts.

10. **REMOVE FLUID COUPLING ASSY (See page 14–99)**
11. **REMOVE FAN SHROUD**
12. **REMOVE IDLE PULLEY BRACKET (W/ AIR CONDITIONING)**
13. **SEPARATE COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING) (See page 14–91)**
14. **REMOVE COMPRESSOR MOUNTING BRACKET NO.1 (W/ AIR CONDITIONING)**
15. **REMOVE VANE PUMP DRIVE PULLEY (W/O AIR CONDITIONING) (See page 14–99)**
16. **REMOVE VANE PUMP DRIVE PULLEY (W/ AIR CONDITIONING) (See page 14–99)**
17. **REMOVE CRANKSHAFT PULLEY (See page 14–99)**

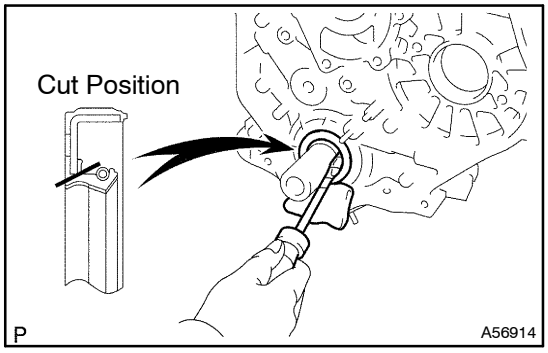
    SST 09213–54015 (91651–60855), 09330–00021, 09950–50013 (09951–05010, 09952–05010, 09953–05010, 09953–05020, 09954–05030)
18. **REMOVE RADIATOR HOSE HOSE CLAMP**
19. **REMOVE TIMING CHAIN OR BELT COVER SUB–ASSY (See page 14–99)**
20. **REMOVE TIMING BELT GUIDE**
21. **SET NO. 1 CYLINDER TO TDC/COMPRESSION (See page 14–99)**
22. **REMOVE TIMING BELT (See page 14–99)**



23. **REMOVE CRANKSHAFT TIMING PULLEY**

If the pulley cannot be remove by screwdriver, use SST, remove the timing pulley.

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



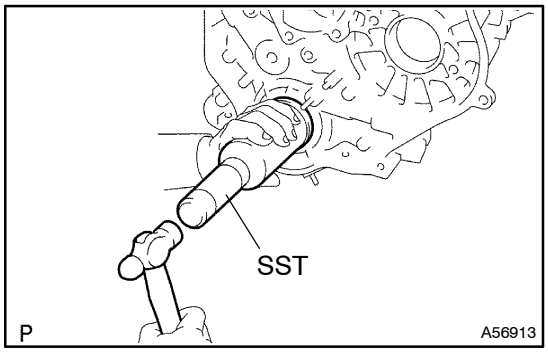
24. REMOVE TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL

(a) Using a knife, cut off the oil seal lip.

(b) Using a screwdriver, pry out the oil seal.

NOTICE:

Be careful not to damage the crankshaft. Tape the screwdriver tip.

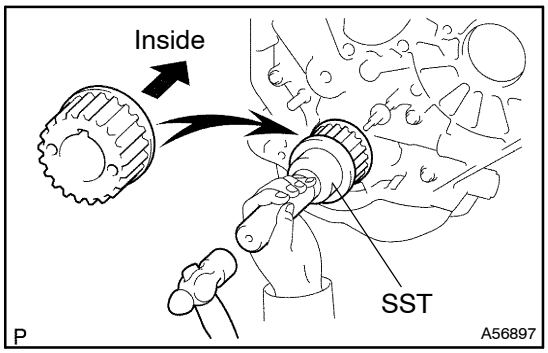


25. INSTALL TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL

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

(b) Using SST and a hammer, tap in the oil seal to the depth of 0.5 mm (0.020 in.) from the oil pump case edge.

SST 09214–60010



26. INSTALL CRANKSHAFT TIMING PULLEY

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

(b) Using SST and a hammer, tap in the timing pulley, facing the flange side inward.

SST 09223–46011

27. INSPECT TIMING BELT (See page 14–99)

28. INSPECT TIMING BELT IDLER SUB–ASSY NO.1 (See page 14–99)

29. INSPECT IDLER TENSION SPRING (See page 14–99)

30. INSPECT WATER PUMP ASSY (See page 14–99)

31. SET NO. 1 CYLINDER TO TDC/COMPRESSION (See page 14–99)

32. INSTALL TIMING BELT (See page 14–99)

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

33. CHECK VALVE TIMING (See page 14–99)

34. INSTALL TIMING BELT GUIDE (See page 14–99)

35. INSTALL TIMING CHAIN OR BELT COVER SUB–ASSY (See page 14–99)

36. INSTALL RADIATOR HOSE HOSE CLAMP (See page 14–99)

37. INSTALL CRANKSHAFT PULLEY (See page 14–99)

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

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

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

40. INSTALL COMPRESSOR MOUNTING BRACKET NO.1 (W/ AIR CONDITIONING) (See page 14–91)

41. INSTALL COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING) (See page 14–91)

42. INSTALL IDLE PULLEY BRACKET (W/ AIR CONDITIONING) (See page 14–91)

43. INSTALL FAN SHROUD (See page 16–20)
44. TEMPORARILY TIGHTEN FLUID COUPLING ASSY (See page 14–99)
45. INSTALL FAN AND GENERATOR V BELT (W/O AIR CONDITIONING) (See page 14–77)
46. INSTALL FAN AND GENERATOR V BELT (W/ AIR CONDITIONING) (See page 14–77)
47. TIGHTEN FLUID COUPLING ASSY (See page 14–99)
48. INSTALL V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1 (W/ AIR CONDITIONING) (See page 14–91)
49. INSTALL VANE PUMP V BELT (See page 14–91)
50. INSTALL AIR CLEANER ASSY (See page 14–91)
51. ADD ENGINE COOLANT (See page 16–18)
52. CHECK FOR ENGINE COOLANT LEAKS (See page 16–18)
53. INSTALL ENGINE UNDER COVER SUB–ASSY NO.1 (See page 14–91)