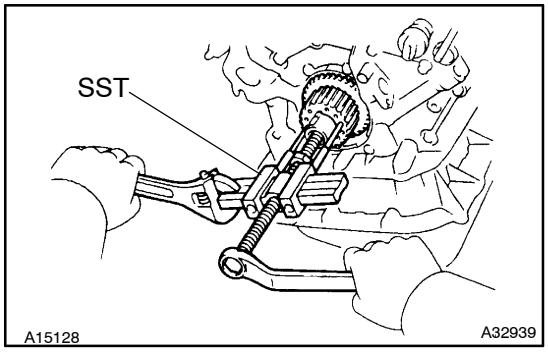
OIL PUMP SEAL (3MZ–FE)

141RS–01

REPLACEMENT

1. REMOVE FR WIPER ARM LH (See page 66–7)
2. REMOVE FR WIPER ARM RH (See page 66–7)
3. REMOVE COWL TOP VENTILATOR LOUVER SUB–ASSY (See page 66–7)
4. REMOVE WINDSHIELD WIPER LINK ASSY (See page 66–7)
5. REMOVE COWL PANEL SUB–ASSY
6. REMOVE FRONT WHEEL RH
7. REMOVE ENGINE UNDER COVER NO.1
8. REMOVE FRONT FENDER APRON SEAL RH
9. REMOVE V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1 (See page 14–5)
10. REMOVE VANE PUMP V BELT (See page 14–5)
11. REMOVE ENGINE MOVING CONTROL ROD (See page 14–24)
12. REMOVE ENGINE MOUNTING STAY NO.2 RH (See page 14–24)
13. REMOVE GENERATOR BRACKET NO.2
14. REMOVE CRANKSHAFT PULLEY (See page 14–49)
15. REMOVE TIMING BELT NO.1 COVER
16. REMOVE TIMING BELT NO.2 COVER (See page 14–49)
17. REMOVE ENGINE MOUNTING BRACKET RH
18. REMOVE TIMING BELT GUIDE NO.2
19. REMOVE TIMING BELT (See page 14–49)

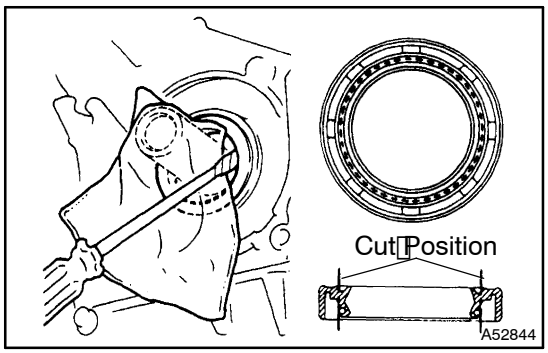


20. REMOVE CRANKSHAFT TIMING PULLEY

(a) Remove the bolt and timing belt plate.
(b) Install the pulley bolt to the crankshaft.
(c) Using SST, remove the crankshaft timing pulley.
SST 09950–50013 (09951–05010, 09952–05010, 09953–05020, 09954–05011)

NOTICE:

- **Do not scratch the sensor part of the crankshaft timing pulley.**
- **Before using SST, apply lubricating oil to the threads and tip of the center bolt 150.**



21. REMOVE OIL PUMP SEAL

(a) Using a knife, cut through the oil seal lip.
(b) Using a screwdriver with its tip wrapped in tape, pry out the oil seal.

NOTICE:

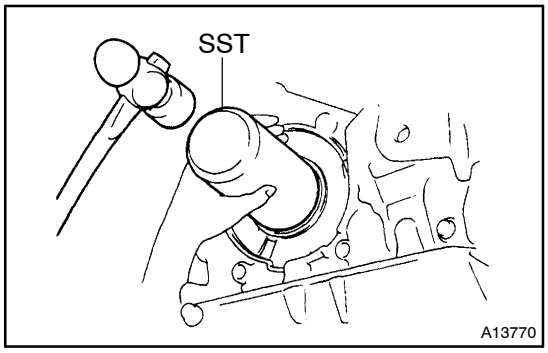
After the removal, check the crankshaft for damage. If it is damaged, smooth the surface with 400–grit sandpaper.

22. INSTALL OIL PUMP SEAL

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

NOTICE:

Keep the lip free of foreign matter.

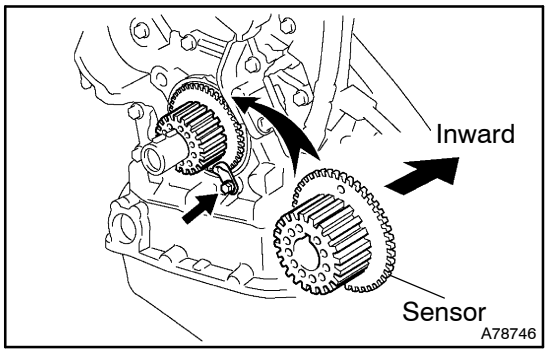


(b) Using SST and a hammer, tap in the oil seal until its surface is flush with the oil pump edge.

SST 09223–00010

NOTICE:

- **Be careful not to tap the oil seal at an angle.**
- **Wipe off any extra grease on the crankshaft.**



23. INSTALL CRANKSHAFT TIMING PULLEY

(a) Align the keyway of the timing pulley with the key located on the crankshaft and slide the timing pulley into place.

NOTICE:

Do not scratch the sensor area of the crankshaft timing pulley.

(b) Install the timing belt plate with the bolt.

Torque: 8.0 N·m (82 kgf·cm, 71 in.·lbf)

24. INSPECT TIMING BELT (See page 14–49)
25. INSTALL TIMING BELT (See page 14–49)
26. INSTALL TIMING BELT TENSIONER ASSY (See page 14–49)
27. INSTALL TIMING BELT GUIDE NO.2 (See page 14–49)
28. INSTALL ENGINE MOUNTING BRACKET RH
Torque: 28 N·m (286 kgf·cm, 21 ft·lbf)
29. INSTALL TIMING BELT NO.2 COVER (See page 14–49)
30. INSTALL TIMING BELT NO.1 COVER (See page 14–49)
31. INSTALL CRANKSHAFT PULLEY (See page 14–49)
32. INSTALL GENERATOR BRACKET NO.2
Torque: 28 N·m (286 kgf·cm, 21 ft·lbf)
33. INSTALL ENGINE MOUNTING STAY NO.2 RH (See page 14–24)
34. INSTALL ENGINE MOVING CONTROL ROD (See page 14–24)
35. INSTALL VANE PUMP V BELT (See page 14–5)
36. INSTALL V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1 (See page 14–5)
37. INSPECT V BELT (See page 14–1)
38. INSTALL COWL PANEL SUB–ASSY
39. INSTALL WINDSHIELD WIPER LINK ASSY (See page 66–7)
40. INSTALL COWL TOP VENTILATOR LOUVER SUB–ASSY (See page 66–7)
41. INSTALL FR WIPER ARM LH (See page 66–7)
42. INSTALL FR WIPER ARM RH (See page 66–7)
43. INSTALL FRONT WHEEL RH
44. CHECK FOR ENGINE OIL LEAKS