THERMOSTAT (1KD–FTV)

160HH–01

REPLACEMENT

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

(a) Remove the 4 bolts and engine under cover No. 1.

2. REMOVE ENGINE UNDER COVER ASSY REAR

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

3. DRAIN ENGINE COOLANT (See page 16–50)

4. REMOVE INTERCOOLER PROTECTOR (See page 13–30)

5. REMOVE RADIATOR SUPPORT SEAL UPPER

(a) Remove the 11 clips and radiator support seal upper.

6. REMOVE WIRE HARNESS (W/ COLD AREA)

(a) Remove the wire harness from the fan shroud.

7. REMOVE RADIATOR RESERVE TANK ASSY

(a) Remove the radiator reserve tank hose.

(b) Remove the 3 bolts and radiator reserve tank.

8. REMOVE RADIATOR HOSE NO.1

9. REMOVE FAN AND GENERATOR V BELT (See page 14–189)

HINT:

Loosen the 4 nuts for the fan w/fluid coupling assy in advance.

10. REMOVE FAN SHROUD

(a) Remove the oil cooler inlet hose and outlet hose from the hose clamp. (AT TRANSMISSION)

(b) Remove the 4 nuts for the fan w/fluid coupling assy as well as 2 bolts for the fan shroud.

(c) Remove the fan w/fluid coupling assy together with the fan shroud.

11. REMOVE FAN PULLEY

12. REMOVE COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING)

(a) Remove the connector 4 bolts, and remove the cooler compressor assy w/magnet clutch assy.

HINT:

It is not necessary that remove the hose from the cooler compressor assy when you remove that assembly. Also, for your work in the rest of the following removal process, you may put and hang the removeed assy with a rope to an appropriate location of the vehicle.

13. REMOVE GENERATOR ASSY (See page 19–40)

14. REMOVE OIL LEVEL GAGE GUIDE

(a) Remove the oil level gage first, and the oil level gage guide as well.

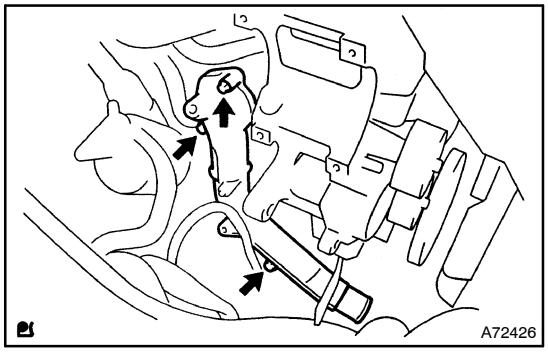
15. REMOVE RADIATOR HOSE NO.2

(a) Separate the radiator outlet from the water inlet.

16. REMOVE THERMOSTAT

(a) Remove the bolt, and remove the wire harness from the water inlet.

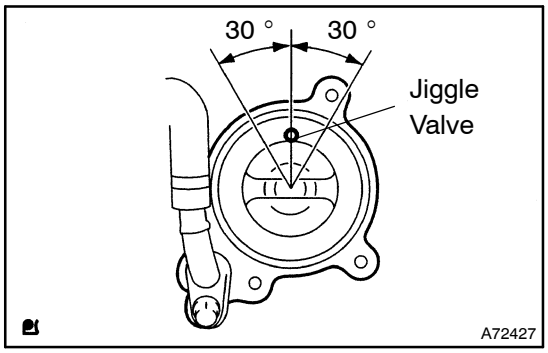
(b) Remove the bolt, and remove the oil cooler tube clamp from the water inlet.



(c) Remove the 3 bolts and water inlet.
(d) Remove the thermostat and gasket.

17. INSTALL THERMOSTAT

(a) Set a new gasket to the thermostat.



(b) Install the thermostat while bring the jiggle valve into its right position described in the illustration.
(c) Install the water inlet with the 3 bolts.
Torque: 13 N·m (133 kgf·cm, 9.6 ft·lbf)
(d) Install the oil cooler tube clamp with the bolt.
(AT TRANSMISSION)
Torque: 12 N·m (122 kgf·cm, 8.9 ft·lbf)
(e) Install the wire harness with the bolt.
Torque: 8.0 N·m (82 kgf·cm, 71 in.·lbf)

18. INSTALL RADIATOR HOSE NO.2
19. INSTALL OIL LEVEL GAGE GUIDE
(a) Set a new O–ring to the oil level gage guide.
(b) Install the oil level gage guide with the bolt.
Torque: 8.0 N·m (82 kgf·cm, 71 in.·lbf)
(c) Set the oil level gage to the gage guide.
20. INSTALL GENERATOR ASSY (See page 19–40)
21. INSTALL COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING)
(a) Install the cooler compressor assy w/magnet clutch assy with the 4 bolts.
Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)
22. INSTALL FAN PULLEY
23. INSTALL FAN SHROUD
(a) Temporarily place the fan shroud together with the fan w/fluid coupling assy to the correct location inside the engine room.
(b) Install the fan shroud to the radiator with the 2 bolts.
Torque: 5.0 N·m (51 kgf·cm, 44 in.·lbf)
(c) Install the fan w/fluid coupling assy to the water pump with the 4 nuts.
Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)
(d) Install the oil cooler inlet hose and outlet hose to the hose clamp. (A/T TRANSMISSION)
24. INSTALL FAN AND GENERATOR V BELT (See page 14–189)
25. INSTALL RADIATOR HOSE NO.1
26. INSTALL RADIATOR RESERVE TANK ASSY
(a) Install the radiator reserve tank with the 3 bolts.
Torque: 5.0 N·m (51 kgf·cm, 44 in.·lbf)
(b) Install the rediator reserve tank hose.

27. INSTALL WIRE HARNESS (W/ COLD AREA)

(a) Install the wire harness to the fan shroud.

28. INSTALL RADIATOR SUPPORT SEAL UPPER

(a) Install the radiator support seal upper with the 11 clips.

29. INSTALL INTERCOOLER PROTECTOR

(a) Install the intercooler protector with the 5 bolts.

Torque: 6.0 N·m (61 kgf·cm, 53 in.·lbf)

30. ADD ENGINE COOLANT (See page 16–50)

31. CHECK FOR ENGINE COOLANT LEAKS

32. INSTALL ENGINE UNDER COVER ASSY REAR

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

Torque: 29 N·m (296 kgf·cm, 21 ft·lbf)

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

(a) Install the engine under cover No. 1 with the 4 bolts.

Torque: 29 N·m (296 kgf·cm, 21 ft·lbf)