GENERATOR ASSY (1KD–FTV)

190I1–01

REPLACEMENT

1. DISCONNECT BATTERY NEGATIVE TERMINAL

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

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

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.

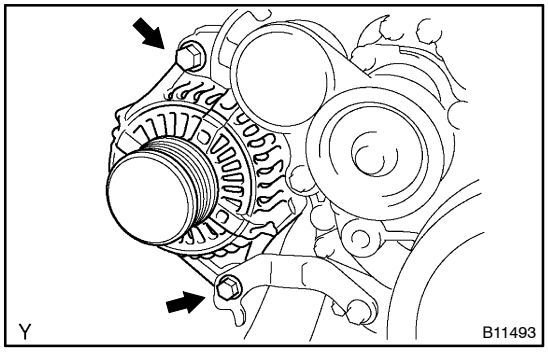
10. REMOVE FAN SHROUD

(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 GENERATOR ASSY

(a) Disconnect the connector from the generator assy.

(b) Remove the nut, and remove the terminal B.

(c) Remove the 2 bolts and generator assy.

13. INSTALL GENERATOR ASSY

(a) Install the generator assy with the 2 bolts.

Torque:
62 N·m (632 kgf·cm, 46 ft·lbf) (M10)
21 N·m (214 kgf·cm, 16 ft·lbf) (M8)

(b) Install the terminal B with the nut.

Torque: 9.8 N·m (100 kgf·cm, 7 ft·lbf)

(c) Connect the connector to the generator assy.

14. INSTALL FAN PULLEY

15. 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 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. (AT TRANSMISSION)

16. INSTALL FAN AND GENERATOR V BELT (See page 14–189)

17. INSTALL RADIATOR HOSE NO.1

18. INSTALL RADIATOR RESERVE TANK ASSY

(a) Install the radiator reserve tank with the 3 bolts.
Torque: 5 N·m (51 kgf·cm, 44 in.·lbf)
(b) Install the radiator reserve tank hose.

19. INSTALL WIRE HARNESS (W/ COLD AREA)

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

20. INSTALL RADIATOR SUPPORT SEAL UPPER

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

21. INSTALL INTERCOOLER PROTECTOR

(a) Install the intercooler protector with the 5 bolts.
Torque: 6.0 N·m (61 kgf·cm, 53 in.·lbf)

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

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

24. 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)

25. CONNECT BATTERY NEGATIVE TERMINAL