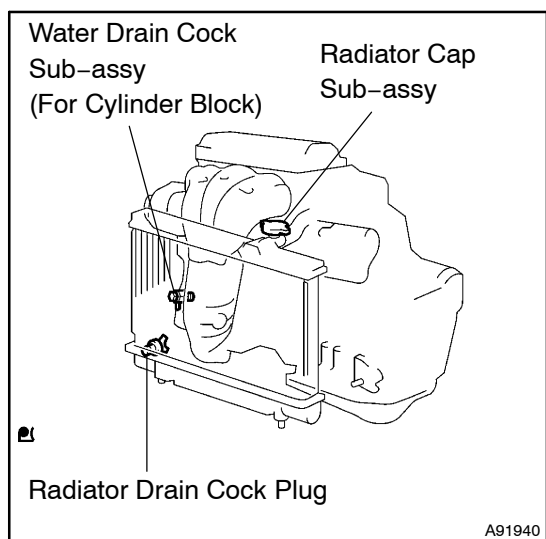


ENGINE COOLANT (2AZ-FE)

REPLACEMENT

1600V-15



1. DRAIN ENGINE COOLANT

CAUTION:

To avoid the danger of being burned, do not remove the radiator cap while the engine and radiator are still hot. Thermal expansion will cause hot engine coolant and steam to blow out from the radiator.

- (a) Remove the radiator cap.
- (b) Loosen the radiator drain cock plug and water drain cock sub-assembly (for cylinder block), then drain the engine coolant.
- (c) Drain the engine coolant in the radiator reservoir tank.

2. ADD ENGINE COOLANT

- (a) Tighten the water drain cock sub-assembly (for cylinder block).

Torque: 13 N·m (133 kgf·cm, 9.6 ft·lbf)

- (b) Tighten the radiator drain cock plug, then pour coolant into radiator until it overflows.

Capacity: 6.8 liters (7.2 US qts, 6.0 Imp. qts)

HINT:

- Press the radiator inlet and outlet hoses several times by hand.
- If the coolant level goes down, add coolant.
- Improper coolants may damage the engine cooling system.
- Use only "Toyota Super Long Life Coolant" or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology (coolant with long-life hybrid organic acid technology consists of the combination of low phosphates and organic acids).
- New Toyota vehicles are filled with Toyota Super Long Life Coolant. When replacing the coolant, Toyota Super Long Life Coolant is recommended.
- Observe the coolant level inside the radiator by pressing the inlet and outlet radiator hoses several times by hand. If the coolant level goes down, add coolant.

NOTICE:

Do not use plain water alone.

- (c) Tighten the radiator cap.
- (d) Pour coolant into the reservoir tank until it reaches the full level line.
- (e) Warm up the engine until the thermostat valve begins to open.

HINT:

Press the radiator inlet and outlet hoses several times by hand while warming up the engine.

- (f) Stop the engine, then wait until the coolant temperature cools down.

CAUTION:

If the engine or radiator is hot, do not remove the radiator cap.

- (g) Remove the radiator cap to check the coolant level.
- (h) If the level goes down, perform the procedures from (d) through (f) again.
- (i) If the level does not go down, add coolant to adjust the reservoir tank coolant level.

3. CHECK FOR ENGINE COOLANT LEAKS

- (a) Fill the radiator with coolant, then attach a radiator cap tester.
- (b) Pump it to 118 kPa (1.2 kgf/cm², 17.1 psi), and check for leakage.