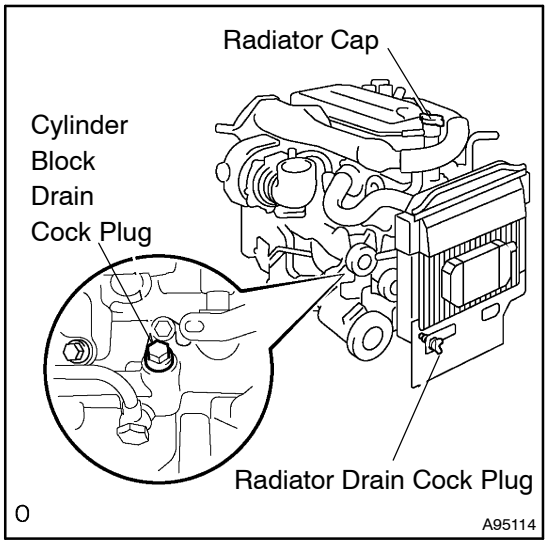
COOLANT (N04C–TF)

REPLACEMENT

160WZ–01



1. DRAIN ENGINE COOLANT

(a) Remove the radiator cap.

CAUTION:

Do not remove the radiator cap while the engine and radiator are still hot. Pressurized, hot engine coolant and steam may be released and cause serious burns.

(b) Drain engine coolant by loosening the radiator drain cock plug and the engine's cylinder block drain cock plug.

HINT:

Engine coolant inside the radiator is drained from the drain hole located on the bottom of the engine under cover.

(c) Tighten the cylinder block drain cock plug.
Torque: 27 N·m (275 kgf·cm, 20 ft·lbf)

2. ADD ENGINE COOLANT

(a) Tighten the radiator drain plug.

(b) Add engine coolant into the radiator until it overflows.
Capacity: 14.4 liters (15.2 US qts, 13.3 Imp. qts)

HINT:

- Use of improper coolants may damage the engine cooling system.
- Only use "TOYOTA Super Long Life Coolant" or similar high quality ethylene glycol based non–silicate, non–amine, non–nitrite, non–borate coolant with long–life hybrid organic acid technology. (Coolant with long–life hybrid organic acid technology consists of a 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 amount inside the radiator by pressing the inlet and outlet radiator hoses several times by hand. If the coolant amount goes down, add coolant.

(c) Install the radiator cap.

(d) Bleed the cooling system.
  (1) Start the engine, and open the heater water valve.
  (2) Maintain the engine speed at 2,000 to 2,500 rpm and warm up the engine.

(e) Stop the engine and wait until the engine coolant cools down.

(f) Refill coolant into the reservoir up to the "FULL" line.

NOTICE:

Do not use plain water alone.

(g) Pour coolant into the radiator reservoir tank until the coolant reaches the "FULL" line.

(h) Install the radiator cap.

(i) Warm up the engine.

HINT:

As the engine warms up, press the inlet and outlet radiator hoses several times by hand.

(j) Stop the engine and wait until the coolant cools down to the room temperature.

(k) Remove the radiator cap and check the coolant amount inside the radiator.

(l) If the coolant amount is below the ”FULL” line, repeat steps (c) to (g) until the coolant amount stays the same from steps (c) to (g).

(m) Install the radiator cap and then check the radiator reservoir tank coolant amount. If it is below the ”FULL” line, add coolant.

3. CHECK FOR ENGINE COOLANT LEAKS

(a) Fill the radiator with coolant and attach a radiator cap tester.

(b) Increase the pressure inside the radiator to 137 kPa (1.4 kgf/cm^2, 20.3 psi) and check for leakage.