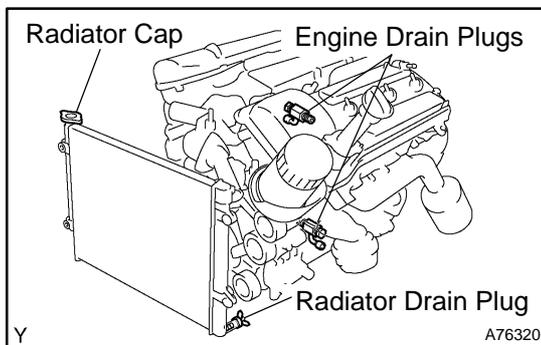
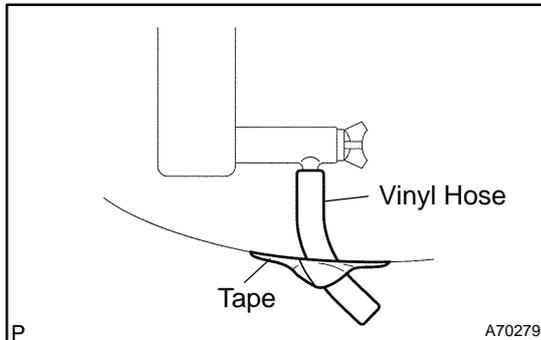


COOLANT (1GR-FE) REPLACEMENT

160F0-03



1. DRAIN ENGINE COOLANT

CAUTION:

The hot engine coolant and steam will blow out from the radiator by thermal expansion themselves. To avoid a danger of scalding yourself, do not remove the radiator cap while the engine and radiator are still hot.

- (a) Remove the service hole cover of the engine under cover.
- (b) Install a vinyl hose to the drain on the radiator side.
- (c) Fix the vinyl hose with tape.
- (d) Remove the radiator cap.
- (e) Loosen the 3 drain plugs on the engine and radiator, and drain the coolant.
- (f) Drain the coolant from the reservoir tank.
- (g) Close the 3 drain plugs.
- (h) Remove the vinyl hose from the radiator.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf) for engine

2. ADD ENGINE COOLANT

- (a) Fill the radiator with engine coolant carefully.
 - (1) Using a high grade ethylene-glycol base coolant. When mixing ethylene-glycol with water, read a manufacturer's instruction carefully.

Grade:

"TOYOTA LONG LIFE Antifreeze Coolant" or equivalent

- (2) Using the coolant which includes more than 50 % ethylene-glycol (but not more than 70 %) is recommended.

NOTICE:

- Do not use an alcohol type coolant.
 - The coolant should be mixed with demineralized water or distilled water.
- Capacity: 9.8 liters (10.4 US qts, 8.6 Imp. qts)**
- (b) Install the radiator cap.
 - (c) Fill the reservoir tank with the coolant until it reaches to the FULL line.
 - (d) Bleed the cooling system.
 - (1) Start the engine, and open the heater water valve.
 - (2) Sustain the engine speed at 2,000 - 2,500 rpm, and warm up the engine.
 - (e) Stop the engine, and wait until the engine coolant cools down.
 - (f) Remove the radiator cap again, and so check the coolant level inside the radiator.

HINT:

- Refill the radiator with the coolant if the coolant level is low.
- Refill the radiator reservoir with the coolant if it is lower than the FULL line.

3. CHECK FOR ENGINE COOLANT LEAKS (See page 16-1)