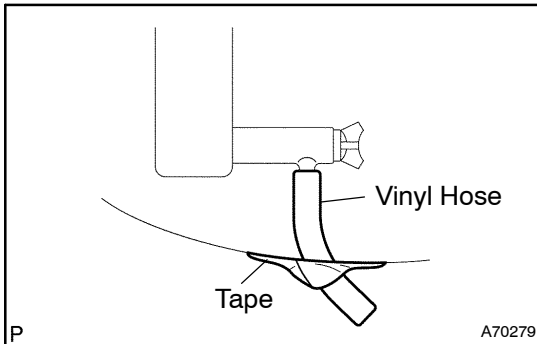


COOLANT (1GR-FE) REPLACEMENT

160RC-01

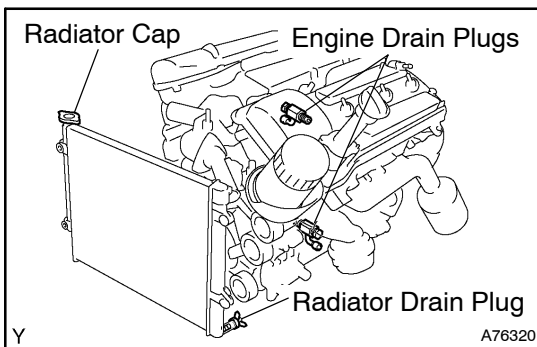


1. DRAIN ENGINE COOLANT

CAUTION:

To avoid the danger of being burned, do not remove the radiator cap while the engine and radiator are still hot as fluid and steam can be blown out under pressure.

- (a) Remove the service hole cover from the engine under cover.
- (b) Install a vinyl hose to the drain on the radiator side.
- (c) Fix the vinyl hose with tape.
- (d) Loosen the 3 drain plugs on the engine and radiator, then drain the coolant.
- (e) Remove the radiator cap.
- (f) Drain the coolant from the reservoir tank.
- (g) Put in the 3 drain plugs.
- Torque: 13 N·m (130 kgf·cm, 9 ft·lbf) for the engine**
- (h) Remove the vinyl hose from the radiator.



2. ADD ENGINE COOLANT

- (a) Slowly fill the system with engine coolant.
Capacity: 9.8 liters (10.4 US qts, 8.6 Imp. qts)

HINT:

- Use of improper coolants may damage the engine cooling system.
- Use "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.
- New Toyota vehicles are filled with Toyota Super Long Life Coolant (color is pink, premixed ethylene-glycol concentration is approximately 50% and freezing temperature is -35°C (-31°F)). 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 the coolant.

NOTICE:

Do not use plain water alone.

- (b) Install the radiator cap.
- (c) Bleed the cooling system.
 - (1) Start the engine, then open the heater water valve.
 - (2) Maintain the engine speed at 2,000 to 2,500 rpm to warm up the engine.
- (d) Stop the engine, then wait until the engine coolant cools down.
- (e) Add coolant into the reservoir until the coolant level is "FULL".

3. CHECK FOR ENGINE COOLANT LEAKS

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