

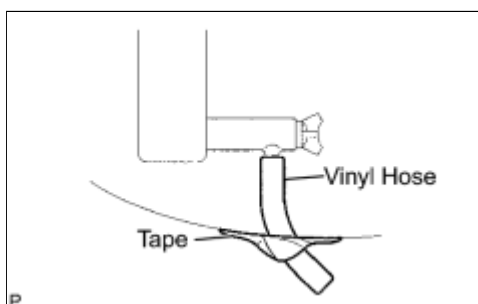
Last Modified: 4-26-2007		1.6 A
Service Category: Engine/Hybrid System	Section: Cooling	
Model Year: 2007	Model: 4Runner	Doc ID: RM0000017DS009X
Title: 1GR-FE COOLING: COOLANT: REPLACEMENT (2007 4Runner)		

REPLACEMENT

1. DRAIN ENGINE COOLANT

CAUTION:

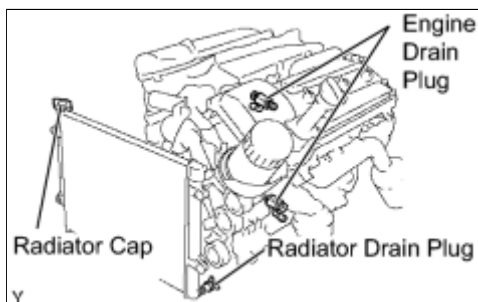
To avoid the danger of being burned, do not remove the radiator cap while the engine and radiator are still hot. Thermal expansion will cause hot engine coolant and steam to blow out from the radiator.



- (a) Remove the service hole cover from the engine under cover.

- (b) Install a vinyl hose onto the drain on the radiator side.

- (c) Fix the vinyl hose with tape.



- (d) Loosen the 3 drain plugs on the engine and radiator, and drain the coolant.

- (e) Remove the radiator cap.

- (f) Drain the coolant from the reservoir tank.

- (g) Tighten the 3 drain plugs.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

- (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 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 a combination of low phosphates and organic acids).
- 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 substitute plain water for engine coolant.

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

3. INSPECT ENGINE COOLANT LEAK

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

