

COOLANT

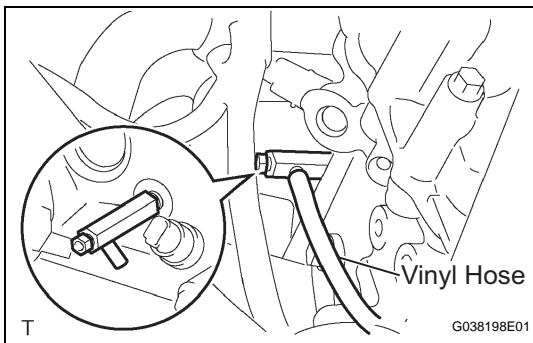
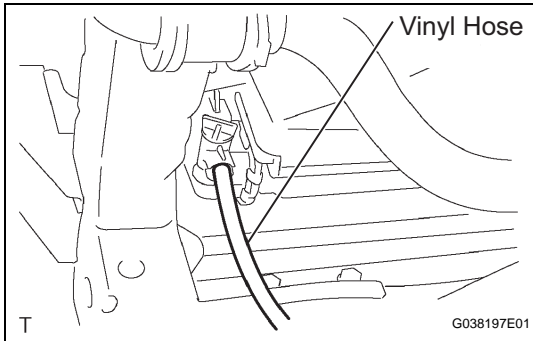
REPLACEMENT

1. DRAIN ENGINE COOLANT

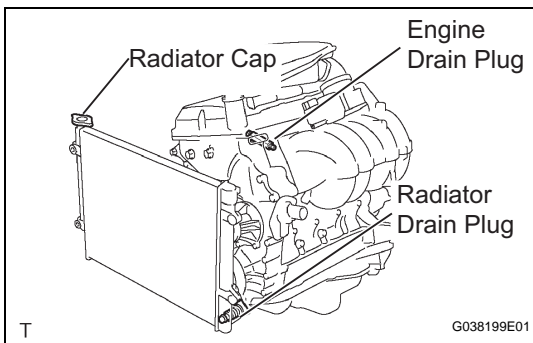
CAUTION:

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 4 bolts, then remove the engine under cover No. 1. (PRE RUNNER AND 4WD TYPE)
- (b) Install a vinyl hose onto the radiator side.



- (c) Install a vinyl hose onto the engine side.



- (d) Loosen the engine drain plug.
- (e) Loosen the radiator drain plug.
- (f) Remove the radiator cap and drain coolant.
- (g) Drain the coolant from the reservoir tank.

2. ADD ENGINE COOLANT

- (a) Tighten the engine drain plug.
Torque: 13 N*m (130 kgf*cm, 9 ft.*lbf)
- (b) Tighten the radiator drain plug.
- (c) Disconnect the 2 vinyl hoses.
- (d) Slowly fill the system with engine coolant.

Capacity:

M/T: 8.7 liters (9.2 US qts, 7.7 Imp. qts)

A/T: 8.6 liters (9.1 US qts, 7.6 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. When replacing the coolant, Toyota Super Long Life Coolant (color is pink, premixed ethylene glycol concentration is approximately 50 % and freezing temperature is -35°C (-31°F)) is recommended.

NOTICE:

Do not substitute plain water for engine coolant.

- (e) Check the coolant level inside the radiator by squeezing the inlet and outlet radiator hoses several times by hand. If the coolant level goes down, add coolant.
- (f) Install the radiator cap securely.
- (g) Slowly pour coolant into the radiator reservoir until it reaches the FULL line.
- (h) Warm up the engine until the cooling fan operates.
 - Set the air conditioning as follows while warming up the engine.

Item	Condition
Fan speed	Any setting except OFF
Temperature	Toward warm
Air condition switch	OFF

- (i) Squeeze the inlet and outlet radiator hoses several times by hand while warming up the engine.
- (j) Stop the engine and wait until the coolant cools down.
- (k) Remove the radiator cap and check the coolant level inside the radiator.
- (l) If the coolant level is below the full level, perform the steps from (d) through (k) and repeat the operation until the coolant level remains at the full level.
- (m) Check the coolant level inside the radiator reservoir tank again. If it is below the full level, add coolant.
- (n) Install the engine under cover No. 1 with the 4 bolts. (PRE RUNNER AND 4WD TYPE)
Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)

3. CHECK FOR ENGINE COOLANT LEAKAGE