

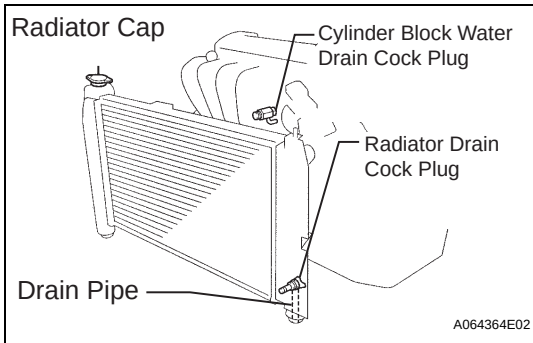
# COOLANT

## ON-VEHICLE INSPECTION

### 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.



- Loosen the radiator drain cock plug and cylinder block water drain cock plug, then drain the coolant.
- Remove the radiator cap from the radiator.
- Close the radiator drain cock plug.
- Tighten the cylinder block water drain cock plug.

**Torque: 12.7 N\*m (129 kgf\*cm, 9 ft.\*lbf)**

### 2. ADD ENGINE COOLANT

- Slowly fill the cooling system with coolant (Procedure "A").

#### Capacity:

**6.5 liters (6.9 US qts, 5.7 Imp. qts)**

#### NOTICE:

**Do not use plain water alone.**

#### 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).
  - Toyota Super Long Life Coolant is premixed with 50% coolant and 50% deionized water. This coolant provides protection down to about -35°C (-31°F).
- Check the coolant level inside the radiator by squeeze the inlet and outlet radiator hoses several times by hand. If the coolant level goes down, add the coolant (Procedure "B").
  - Install the radiator cap securely (Procedure "C").
  - Fill the radiator reserve tank with coolant (Procedure "D").
  - Warm up the engine (Procedure "E").
- #### NOTICE:
- Warm up the engine until the fan starts running with the A/C, heater and defroster all turned off.**
- Squeeze the inlet and outlet radiator hoses several times by hand while warming up the engine (Procedure "F").
  - Stop the engine and wait until the coolant cools down (Procedure "G").

- (h) Remove the radiator cap and check the coolant level inside the radiator (Procedure "H").
- (i) If the coolant level is below the full level, perform the procedure "A" through "H" and repeat the operation until the coolant level remains of full.
- (j) Recheck the coolant level inside the radiator reservoir tank. If it is below the full level, add coolant.

**3. INSPECT FOR OIL LEAK (See page [CO-1](#))**