

# COOLANT

## ON-VEHICLE INSPECTION

### CAUTION:

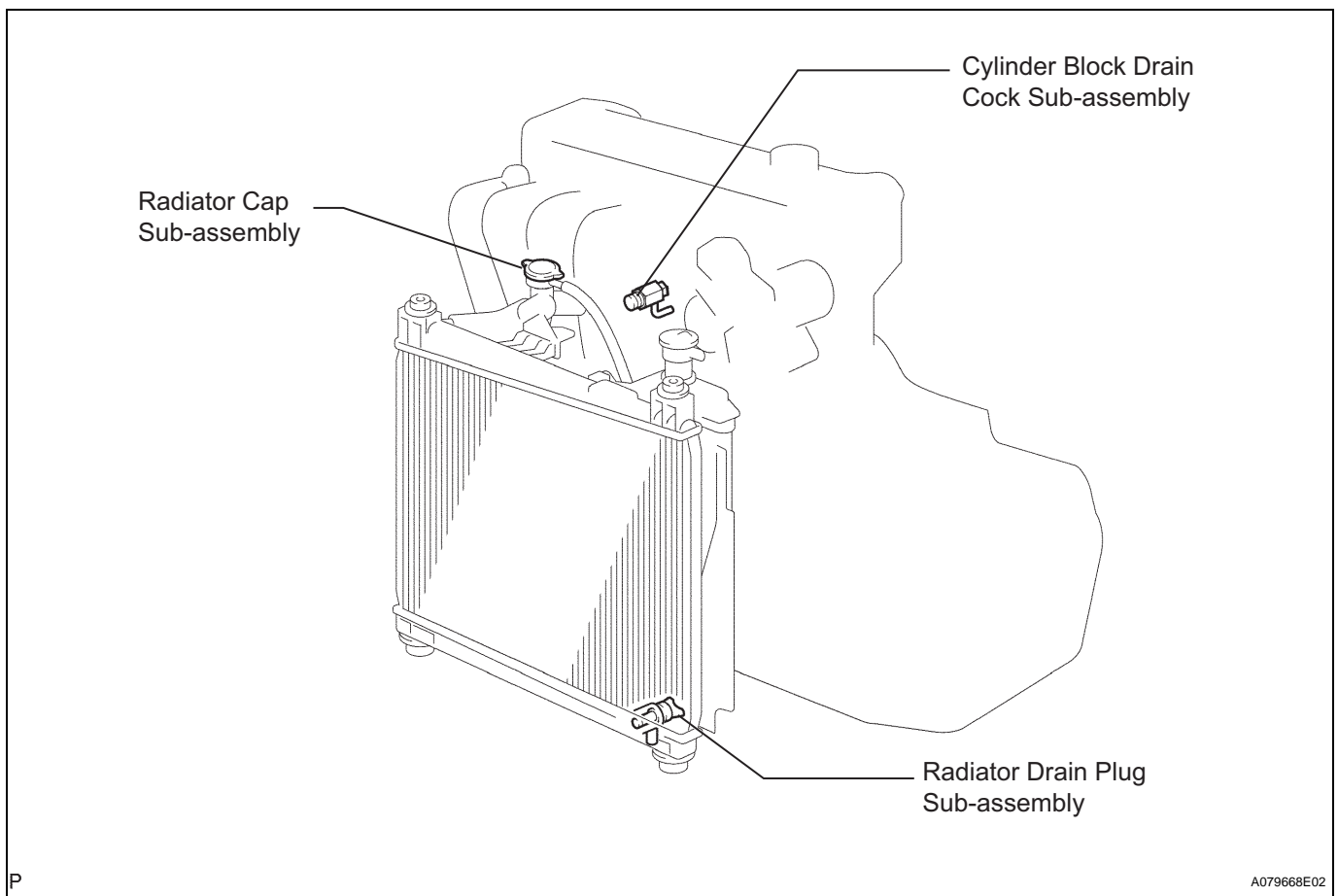
Do not remove the radiator cap while the engine and radiator are still hot. Pressurized, hot engine coolant and steam may be released and cause serious burns.

### 1. DRAIN ENGINE COOLANT

- (a) Loosen the radiator drain plug.
- (b) Remove the radiator cap and drain the coolant.
- (c) Loosen the cylinder block drain cock.

#### HINT:

Dispose of the coolant according to the regulations in your area.


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### 2. ADD ENGINE COOLANT

- (a) Tighten all the plugs and fill the radiator with TOYOTA Super Long Life Coolant (SLLC).  
**Torque: 13 N\*m (129 kgf\*cm, 9.4 ft.\*lbf)**  
**Standard capacity**

Item	Specified Condition
M/T	4.4 liters (4.6 US qts, 3.9 Imp. qts)
A/T	4.3 liters (4.5 US qts, 3.8 Imp. qts)

- (b) Fill the radiator reservoir with TOYOTA Super Long Life Coolant (SLLC) to the full line.

**HINT:**

- The use of improper coolant may damage the engine cooling system.
- Only 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 (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.

**NOTICE:**

**Never use water as a substitute for engine coolant.**

- (c) Check 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 coolant.
- (d) Install the radiator cap securely.
- (e) Slowly pour coolant into the radiator reservoir until it reaches the full line.
- (f) Warm up the engine until the cooling fan operates.
- (1) Set the air conditioning as follows while warming up the engine.

Manual air conditioning system	Automatic air conditioning system
Fan speed - Any setting except OFF Temperature - Toward WARM Air conditioning switch - OFF	Fan speed - Any setting except OFF Temperature - To the highest temperature Air conditioning switch - OFF

- (2) Maintain the engine speed at 2,000 to 2,500 rpm and warm up the engine until the cooling fan operates.
- (g) Press the inlet and outlet radiator hoses several times by hand while warming up the engine.
- NOTICE:**
- When pressing the radiator hoses:**
- **Wear protective gloves.**
  - **Be careful as the radiator hoses are hot.**
  - **Keep your hands away from the radiator fan.**
- (h) Stop the engine and wait until the coolant cools down.
- (i) Remove the radiator cap and check the coolant level inside the radiator.
- (j) Check the coolant level in the radiator reservoir.  
If the coolant level is low, add SLLC to the reservoir full line.

**3. CHECK FOR ENGINE COOLANT LEAKS**

- (a) Fill the radiator with engine coolant and attach a radiator cap tester.
- (b) Pump the tester to 137 kPa (1.4 kgf/cm<sup>2</sup>, 19.9 psi) and check for leakage.