

## 3. Engine Coolant

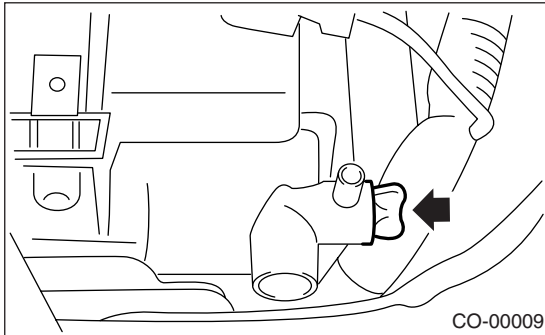
### A: REPLACEMENT

#### 1. DRAINING OF ENGINE COOLANT

- 1) Lift-up the vehicle.
- 2) Remove the under cover.
- 3) Remove the drain cock to drain engine coolant into container.

**NOTE:**

Remove the coolant filler tank cap so that engine coolant will drain faster.



- 4) Install the drain cock.

#### 2. FILLING OF ENGINE COOLANT

- 1) Fill cooling system conditioner from filling port.

**Cooling system protecting agent:**  
**COOLING SYSTEM CONDITIONER (Part No. SOA635071)**

- 2) Fill engine coolant into the coolant filler tank up to filler neck position.

**Coolant capacity (fill up to "FULL" level):**

**AT model**

**Approx. 7.6 ℓ (8.03 US qt, 6.69 Imp qt)**

**MT model**

**Approx. 7.7 ℓ (8.14 US qt, 6.78 Imp qt)**

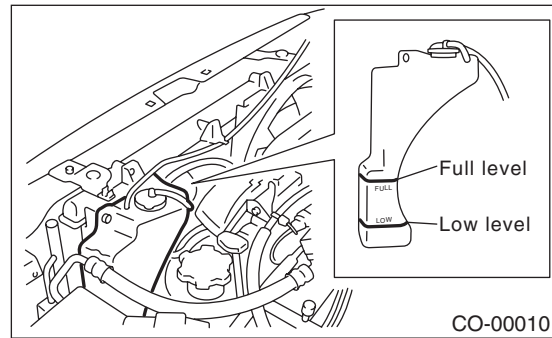
**CAUTION:**

**Do not mix up the coolant filler tank side cap with radiator side cap.**

**NOTE:**

- Do not remove the radiator side cap when filling engine coolant.
- The SUBARU Genuine Coolant containing anti-freeze and anti-rust agents is especially made for SUBARU engine, which has an aluminum crank-case. Always use SUBARU Genuine Coolant, since other coolant may cause corrosion.

- 3) Fill engine coolant into the reservoir tank up to Full level.



- 4) Warm-up the engine completely for more than 5 minutes at 2,000 to 3,000 rpm.
- 5) If the engine coolant level drops in coolant filler tank, add engine coolant to filler neck position.
- 6) If the engine coolant level drops from Full level of reservoir tank, add engine coolant to Full level.
- 7) Attach the coolant filler tank cap and reservoir tank cap properly.

# ENGINE COOLANT

## COOLING

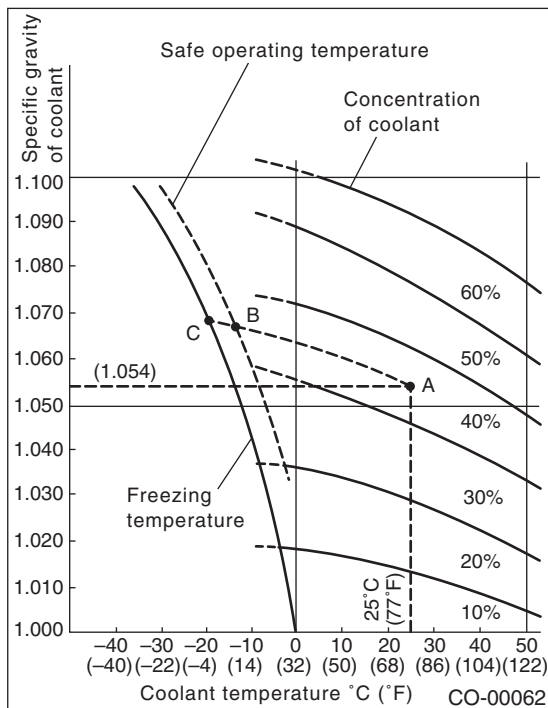
### B: INSPECTION

#### 1. RELATIONSHIP OF SUBARU COOLANT CONCENTRATION AND FREEZING TEMPERATURE

The concentration and safe operating temperature of the SUBARU coolant is shown in the diagram. Measuring the temperature and specific gravity of the coolant will provide this information.

[Example]

If the coolant temperature is 25°C (77°F) and its specific gravity is 1.054, the concentration is 45% (point A), the safe operating temperature is -14°C (7°F) (point B), and the freezing temperature is -20°C (-4°F) (point C).



#### 2. PROCEDURE TO ADJUST THE CONCENTRATION OF THE COOLANT

To adjust the concentration of the coolant according to temperature, find the proper fluid concentration in the above diagram and replace the necessary amount of coolant with an undiluted solution of SUBARU genuine coolant (concentration 50%).

The amount of coolant that should be replaced can be determined using the diagram.

[Example]

Assume that the coolant concentration must be increased from 25% to 40%. Find point A, where the 25% line of coolant concentration intersects with the 40% curve of the necessary coolant concentration, and read the scale on the vertical axis of the graph at height A. The quantity of coolant to be drained is 2.1 ℓ (2.2 US qt, 1.8 Imp qt). Drain 2.1 ℓ (2.2 US qt, 1.8 Imp qt) of coolant from the cooling system and add 2.1 ℓ (2.2 US qt, 1.8 Imp qt) of the undiluted solution of SUBARU coolant.

If a coolant concentration of 50% is needed, drain all the coolant and refill with the undiluted solution only.

