

3. Engine Coolant

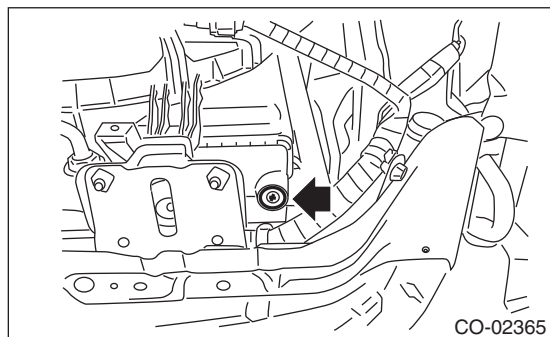
A: REPLACEMENT

1. DRAINING OF ENGINE COOLANT

- 1) Set the vehicle on a lift.
- 2) Lift up the vehicle.
- 3) Remove the under cover.
- 4) Remove the drain plug to drain engine coolant into container.

NOTE:

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



- 5) Install the drain plug.
- 6) Install the under cover.

2. FILLING OF ENGINE COOLANT

- 1) Pour cooling system conditioner through the filler neck.

Cooling system protective agent:

Refer to "SPECIFICATION" for the cooling system protective agent. <Ref. to CO(H4DOTC)-2, SPECIFICATION, General Description.>

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

Recommended engine coolant:

Refer to "SPECIFICATION" for the recommended engine coolant. <Ref. to CO(H4DOTC)-2, SPECIFICATION, General Description.>

Coolant level:

Refer to "SPECIFICATION" for the coolant level. <Ref. to CO(H4DOTC)-2, SPECIFICATION, General Description.>

Concentration of coolant:

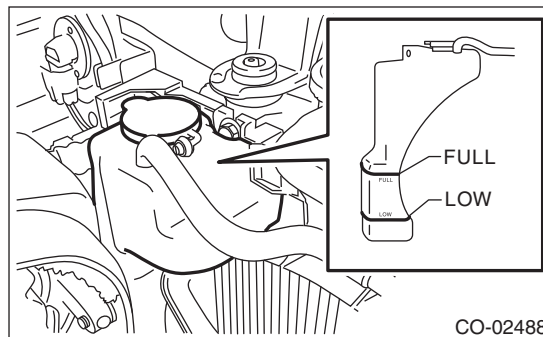
Refer to "ADJUSTMENT" for the concentration of the coolant. <Ref. to CO(H4DOTC)-14, ADJUSTMENT, Engine Coolant.>

CAUTION:

Do not confuse the cap of coolant filler tank and cap of radiator.

NOTE:

- When pouring the engine coolant, the radiator side cap must not be removed.
 - The SUBARU Super Coolant containing anti-freeze and anti-rust agents is especially made for SUBARU engine, which has an aluminum cylinder block. Always use SUBARU Super Coolant, since other coolant may cause corrosion.
- 3) Fill engine coolant into the reservoir tank up to "FULL" level.



Engine Coolant

COOLING

4) Close the coolant filler tank cap, and start the engine. Race 5 to 6 times at 3,000 rpm or less, then stop the engine. (Complete this operation within 40 seconds.)

5) Wait for one minute after the engine stops, then open the coolant filler tank cap. If the engine coolant level drops, add engine coolant into the coolant filler tank up to the filler neck position.

6) Perform the procedures 4) and 5) again.

7) Install the coolant filler tank cap and reservoir tank cap properly.

8) Start the engine and operate the heater at maximum hot position and the blower speed setting to "LO".

9) Run the engine at 2,000 rpm or less until radiator fan starts and stops.

NOTE:

Be careful with the engine coolant temperature gauge to prevent overheating.

10) Stop the engine and wait until the engine coolant temperature lowers to 30°C (86°F) or less.

11) Open the coolant filler tank cap. If the engine coolant level drops, add engine coolant into the coolant filler tank up to the filler neck position and the reservoir tank to "FULL" level.

12) Install the coolant filler tank cap and reservoir tank cap properly.

13) Set the heater setting to maximum hot position and the blower speed setting to "LO" and start the engine. Perform racing at 3,000 rpm or less. If the flowing sound is heard from heater core, repeat the procedures from step 9) again.

B: ADJUSTMENT

1. PROCEDURE TO ADJUST THE CONCENTRATION OF THE SUBARU SUPER COOLANT

CAUTION:

SUBARU Super Coolant concentration must be used from 50 to 60 % to assure the best performance of the anti-freeze and anti-rust agents.

To adjust the concentration of SUBARU Super Coolant according to temperature, find the proper SUBARU Super Coolant concentration from the table and adjust SUBARU Super Coolant (concentrated type) to the concentration with water for dilution.

RELATIONSHIP OF SUBARU SUPER COOLANT CONCENTRATION AND FREEZING TEMPERATURE			
Concentration of SUBARU Super Coolant	50%	55%	60%
Freezing temperature	-36°C (-33°F)	-41°C (-42°F)	-50°C (-58°F)

Recommended Engine Coolant and Water for Dilution:

Refer to "SPECIFICATION" for the recommended engine coolant and water for dilution. <Ref. to CO(H4DOTC)-2, SPECIFICATION, General Description.>