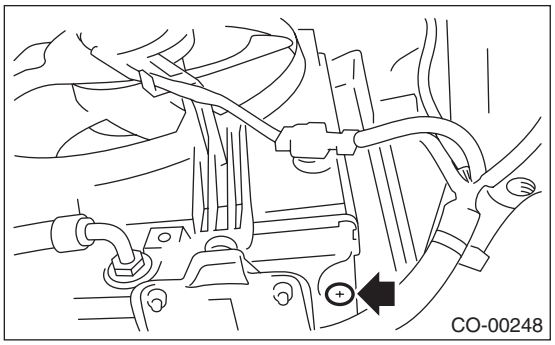
10.Engine Coolant

A: REPLACEMENT

WARNING:
The radiator is of the pressurized type. Do not attempt to open the radiator cap immediately after the engine has been stopped.
1) Lift up the vehicle.
2) Remove the under cover.
3) Place a container under radiator drain pipe.
4) Remove the radiator drain cock to drain engine coolant into container.



5) For quick draining, open the radiator cap.

NOTE:
Be careful not to spill coolant on the floor.
6) Drain the coolant from reservoir tank.
7) Tighten the radiator drain cock securely after draining coolant.
8) Pour cooling system conditioner through the filler neck.

Cooling system protective agent:
Cooling system conditioner (Part number: SOA345001)
9) Fill engine coolant into the reservoir tank up to "FULL" level.

Recommended engine coolant:
Refer to "RM" section. <Ref. to RM-4, COOLANT, RECOMMENDED MATERIALS, Recommended Materials.>

Coolant capacity (Fill up to "FULL" level):
Approx. 7.6 ℓ (8.0 US qt, 6.7 Imp qt)

NOTE:
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.
10) Close the radiator 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.)
11) Wait for one minute after the engine stops, then open the radiator cap. If the engine coolant level drops, add engine coolant into radiator up to the filler neck position.
12) Perform the procedures 10) and 11) again.
13) Install the radiator cap and reservoir tank cap properly.
14) Start the engine and operate the heater at maximum hot position and the blower speed setting to "LO".
15) 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.
• If the radiator hose becomes harden by engine coolant pressure at this time, air purge seems to be mostly completed.
16) Stop the engine and wait until the engine coolant temperature lowers to 30°C (86°F) or less.
17) Open the radiator 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.
18) Install the radiator cap and reservoir tank cap properly.
19) 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 10) again.

CAUTION:
If engine coolant adheres to the exhaust pipe, wipe it off completely.

B: ADJUSTMENT

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

CAUTION:
Use the SUBARU Super Coolant with a 50 — 60% concentration in order to obtain maximum anti-freeze and anti-rust performance.
To adjust the concentration of SUBARU Super Coolant according to temperature, find the proper SUBARU Super Coolant concentration in the table, and add diluting water to the SUBARU Super Coolant (undiluted type) until it reaches the proper dilution.

Relationship of SUBARU SUPER COOLANT concentration and freezing temperature			
SUBARU Super Coolant concentration	50%	55%	60%
Freezing temp.	–36°C (–33°F)	–41°C (–42°F)	–50°C (–58°F)

Recommended engine coolant and diluting water:
For the recommended engine coolant and dilution water, refer to "RM" section. <Ref. to RM-4, COOLANT, RECOMMENDED MATERIALS, Recommended Materials.>