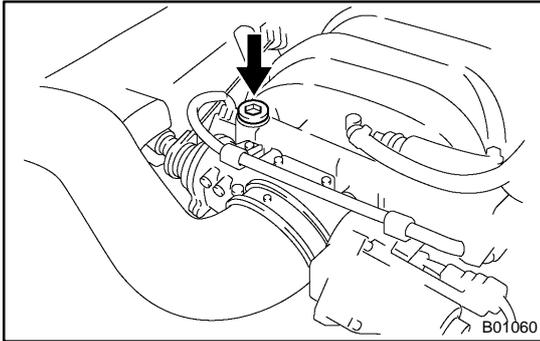# REPLACEMENT

CO07D–02

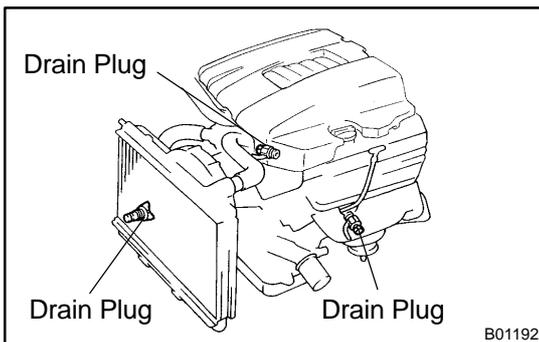1. **REMOVE V–BANK COVER**
2. **DRAIN ENGINE COOLANT**
(a)   Remove the radiator cap from the radiator reservoir.

CAUTION:

To avoid the danger of being burned, do not remove the radiator cap while the engine and radiator are still hot, as fluid and steam can be blown out under pressure.

B01060

(b)   Remove the water filler plug from the throttle body.

Drain Plug

Drain Plug   Drain Plug

B01192

(c)   Remove the 3 drain plugs on the engine and radiator, and drain the coolant.
(d)   Close the 3 drain plugs.
Torque: 12.7 N·m (130 kgf·cm, 9 ft·lbf) for engine drain plug

3. **REFILL WITH ENGINE COOLANT**
(a)   Slowly fill coolant to the throttle body until it is full.
- Use of improper coolants may damage engine cooling system.
- Use "Toyota Long Life Coolant" or equivalent and mix it with plain water according to the manufacturer's directions.
- Use of the coolant which includes more than 50% (freezing protection down to –35°C (–31°F)) or 60% (freezing protection down to –50°C (–58°F)) of ethylene–glycol is recommended, but not more than 70%.
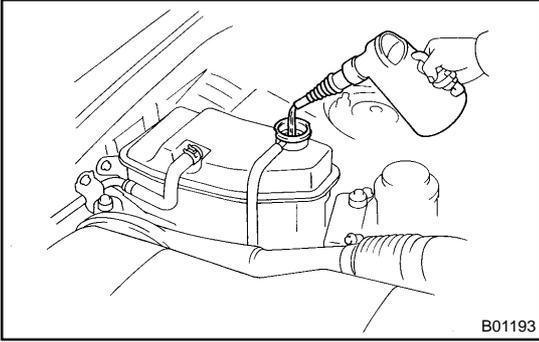
NOTICE:
- **Do not use an alcohol type coolant or plain water alone.**
- **The coolant should be mixed with plain water (preferably demineralized water or distilled water).**
Capacity (w/ Heater):
11.0 liters (11.6 US qts, 9.7 Imp. qts)
(b)   Install the water filler plug to the throttle body.
Torque: 45 N·m (459 kgf·cm, 33 ft·lbf)

(c) Slowly pour coolant into the radiator reservoir until it is "FULL".

(d) Install the radiator cap.

(e) Bleed the cooling system.
- Start the engine, and open the heater water valve.
- Maintain the engine speed at 2,000 – 2,500 rpm, and warm up the engine.

(f) Stop the engine, and wait until the engine coolant cools down.

(g) Refill coolant into the reservoir until it is "FULL".

4. CHECK ENGINE COOLANT FOR LEAKS

5. CHECK ENGINE COOLANT SPECIFIC GRAVITY CORRECTLY

6. REINSTALL V–BANK COVER