CO0T8–01

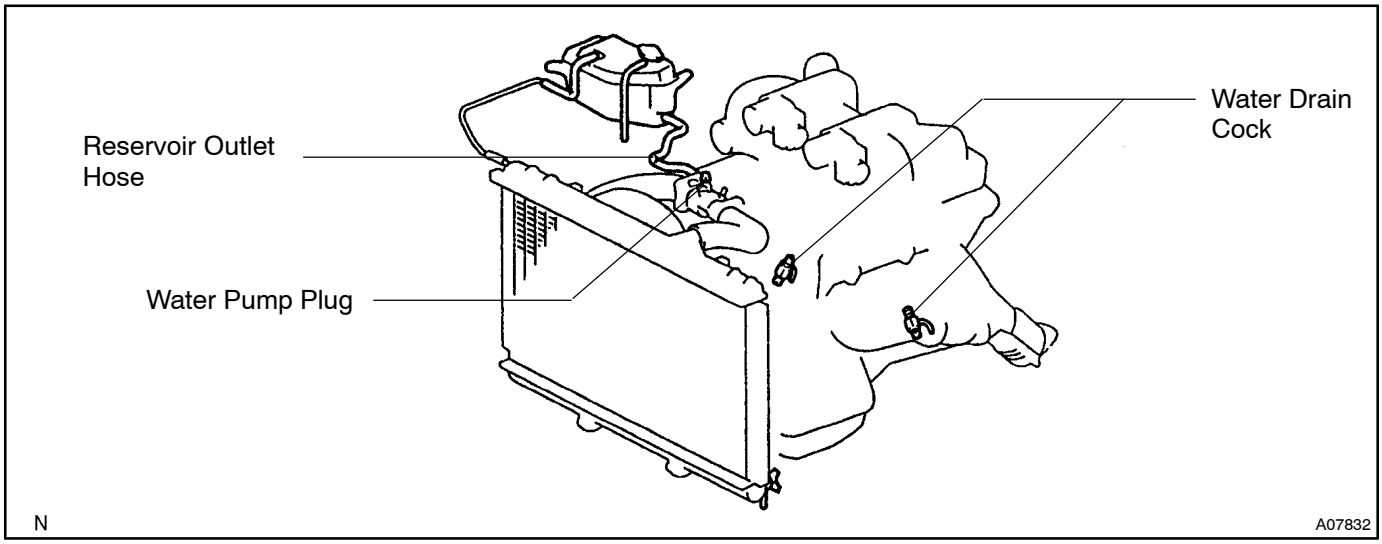
# REPLACEMENT

**1. DRAIN ENGINE COOLANT**

(a) Remove the radiator cap.

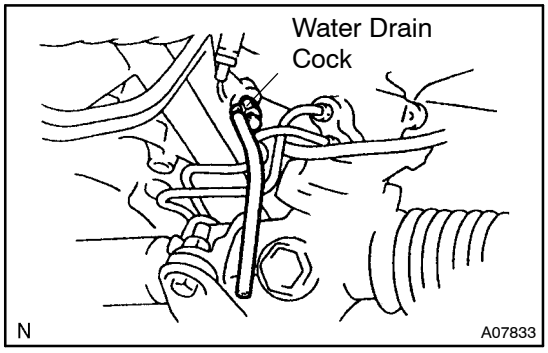
**CAUTION:**

**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.**




(b) Disconnect the reservoir outlet hose and drain the coolant from reservoir.

(c) Loosen the radiator drain plug and drain the coolant.




(d) Loosen the 2 engine drain plugs and drain the coolant.

HINT:

To prevent the coolant from spraying over the cylinder block, connect the rubber hose (inside diameter 6 – 8 mm) in the market to the union pipe under the drain plug.

(e) Close the drain plugs.

**Torque:**

**Engine drain plug 13 N·m (130 kgf·cm, 9 ft·lbf)**

(f) Connect the reservoir outlet hose.

**2. FILL ENGINE COOLANT**

HINT:

- Use of improper coolants may damage engine cooling system.
- Use ”Toyota Long life Coolant” or equivalent and mix it with plan water according to the manufacturer’s directions.
- Using of 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).**

(a) Remove the plug from the water pump, and slowly fill the system with the coolant.
(b) Fill the reservoir with the coolant.
(c) Start the engine, and bleed the cooling system.
(d) Refill the reservoir with coolant until it reaches the ”FULL” line.
(e) Install the reservoir cap.

**3. CHECK ENGINE COOLANT FOR LEAKS**

**4. CHECK ENGINE COOLANT SPECIFIC GRAVITY CORRECTLY**