

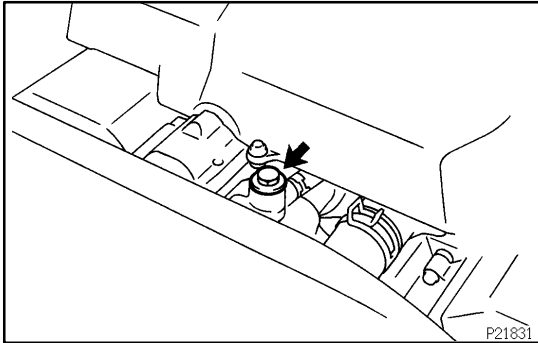
## REPLACEMENT

### 1. DRAIN ENGINE COOLANT

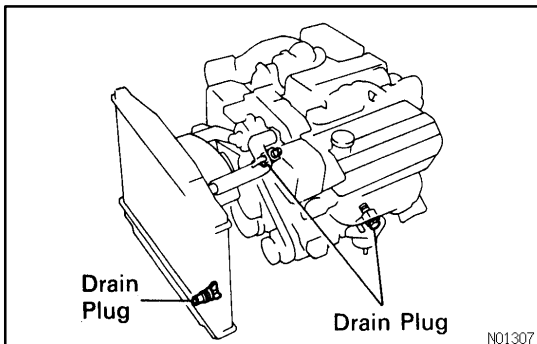
- (a) Remove the radiator cap from the reservoir tank.

#### 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) Remove the water filler plug from the water inlet housing.



- (c) Remove the 3 drain plugs on the engine and radiator, and drain the coolant.

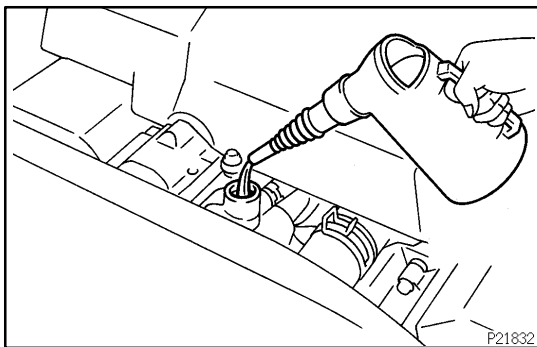
- (d) Close the 3 drain plugs.

#### Torque:

**24.5 N·m (250 kgf·cm, 18 ft·lbf)**

**for LH side (w/ Oil cooler)**

**12.7 N·m (130 kgf·cm, 9 ft·lbf) for others**



### 2. FILL WITH ENGINE COOLANT

- (a) Slowly fill coolant to the water inlet housing until it is full.
- Use a good brand of ethylene–glycol base coolant and mix it according to the manufacturer's direction.

#### Grade:

**"TOYOTA Antifreeze Long Life Coolant" or equivalent**

- Using coolant which includes more than 50 % ethylene–glycol (but not more than 70 %) is recommended.

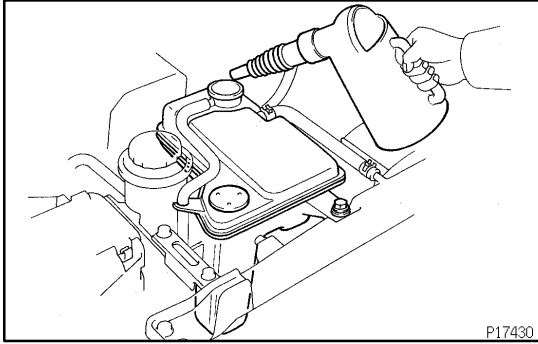
#### NOTICE:

- Do not use a alcohol type coolant.
- The coolant should be mixed with demineralized water or distilled water.

**Capacity: 10.9 liters (11.5 US qts, 9.6 Imp. qts)**

- (b) Install the water filler plug to the water inlet housing.

**Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)**



- (c) Slowly pour coolant into the reservoir tank until it is "FULL".
  - (d) Install the radiator cap.
  - (e) Bleed the cooling system.
    - (1) Start the engine, and open the heater water valve.
    - (2) Maintain the engine speed at 2,000 – 2,500 rpm, and warm up the engine.
  - (f) Refill coolant into the reservoir until it is "FULL".
- 3. CHECK ENGINE COOLANT FOR LEAKS**