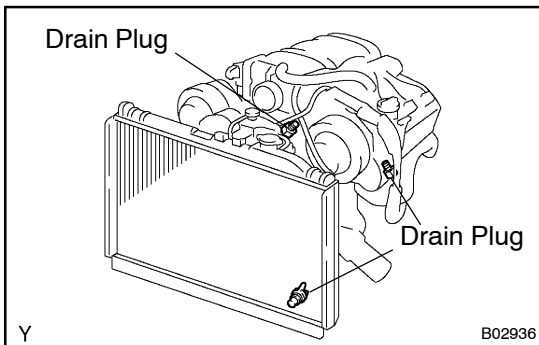


ENGINE COOLANT REPLACEMENT

1604F-01

1. REMOVE AIR CLEANER INLET NO.1

2. REMOVE ENGINE UNDER COVER



3. DRAIN ENGINE COOLANT

- (a) Remove the radiator cap.
- (b) Loosen the radiator drain plug, 2 drain plug of the cylinder blocks and drain the engine coolant.
- (c) Tighten the 3 drain plugs.

Torque: 24.5 N·m (250 kgf·cm, 18 ft·lbf) for drain plug of cylinder block

4. ADD ENGINE COOLANT

- (a) Mix engine coolant with plain water according to the manufacturer's direction.
- (b) Tighten the radiator drain plug and add the engine coolant into the radiator until it overflows.
Coolant: TOYOTA Long Life Coolant or equivalent
- (c) Press the radiator hoses several times by hand.
- (d) In case of that the engine coolant level of the radiator becomes lower, add some engine coolant.
- (e) Install the radiator cap.
- (f) Add engine coolant to FULL line of the reservoir tank.
- (g) Bleed the cooling system.
 - (1) Start the engine, and open the water valve.
 - (2) Maintain the engine speed at 2,000–2,500 rpm, and warm up the engine.
- (h) Stop the engine, and wait until the engine coolant cools down.
- (i) Refill the radiator reservoir with coolant until reaches the FUEL line.

Engine coolant capacity:

Engine type	Capacity
w/ oil cooler	10.1 liters (10.7 US qts, 8.9 Imp. qts)
w/o oil cooler	9.9 liters (10.5 US qts, 8.9 Imp. qts)

5. CHECK ENGINE COOLANT LEAK

6. INSTALL AIR CLEANER INLET NO.1

7. INSTALL ENGINE UNDER COVER