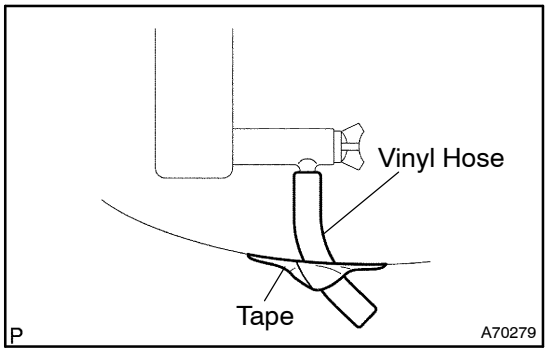
ENGINE COOLANT (3RZ–FE)

REPLACEMENT

160HL–02

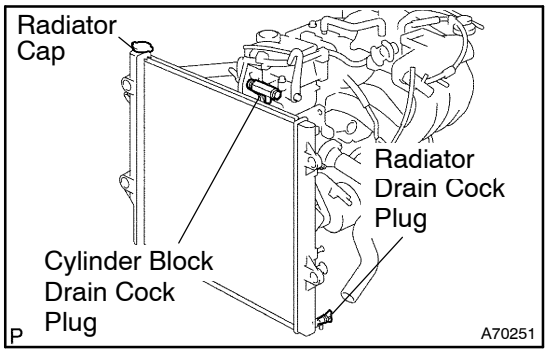


1. DRAIN ENGINE COOLANT

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 blow out under pressure.

(a) Remove the service hole cover of the engine under cover.
(b) Insert the vinyl hose into the service hole on the radiator.
(c) Fix the vinyl hose with tape.



(d) Remove the radiator cap.
(e) Loosen the radiator drain cock plug and cylinder block drain cock plug, and drain the engine coolant.
(f) Close the radiator drain cock plug.
(g) Close the cylinder block drain cock plug.
Torque: 13 N·m (129 kgf·cm, 9 ft·lbf)

2. ADD ENGINE COOLANT

(a) Close the radiator drain cock plug, and pour engine coolant into radiator until it overflows.
Capacity:

A/T	7.1 liters (7.5 US gts, 6.2 Imp. gts)
M/T	7.3 liters (7.7 US gts, 6.4 Imp. gts)

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).**

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 manufacture'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)) to ethylene–glycol is recommended but not more than 70 %.
- Press the radiator inlet and outlet hose several times with hard.
- If the engine coolant gets lower, pour engine coolant.

(b) Reinstall the radiator cap.
(c) Pour engine coolant into the reservoir tank until it reaches full line.
(d) Warm up the engine until the thermostat valve begins to open.

HINT:

Press the radiator inlet and outlet hose several times with hard during the warming up.

(e) Stop the engine and wait until the engine coolant temp. gets cold. Then remove the radiator cap to check the engine coolant level.
- If the level gets lower, perform the procedures above again.
- If the level dows not gets lower, adjust the reservoir tank engine coolant level.

3. CHECK FOR ENGINE COOLANT LEAKS (See page 16–1)