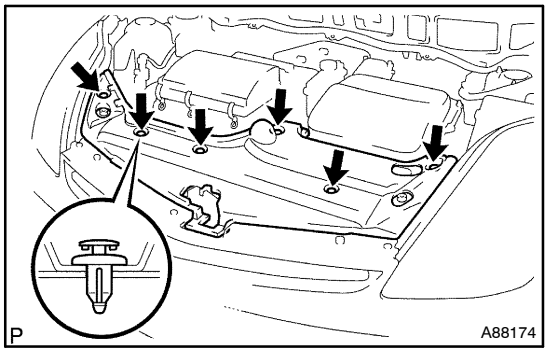
ENGINE COOLANT (1NZ–FXE)

REPLACEMENT

160TG–01



1. REMOVE RADIATOR SUPPORT OPENING COVER

(a) Remove the 6 clips and radiator support opening cover.

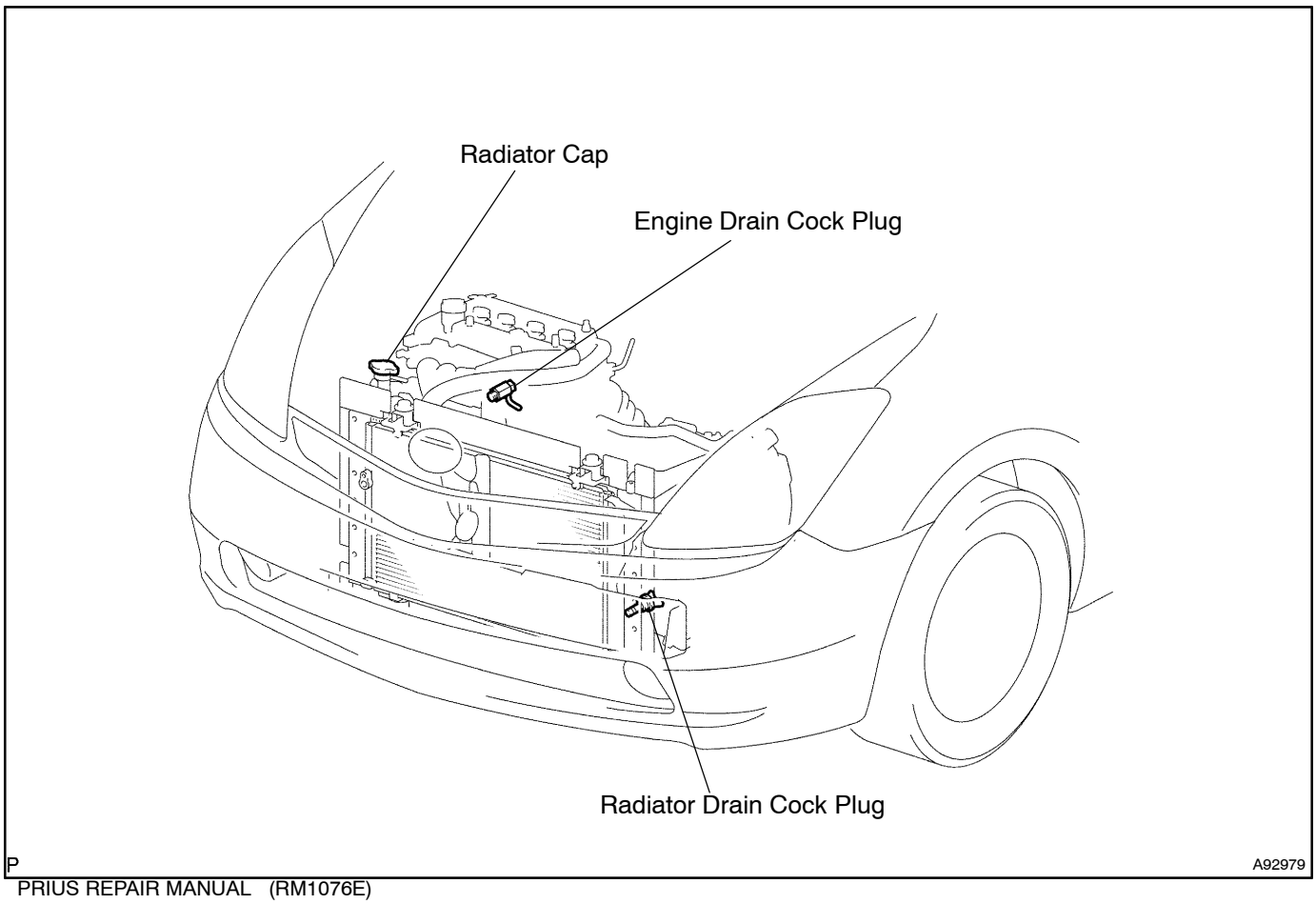
2. REMOVE ENGINE UNDER COVER LH

3. DRAIN ENGINE COOLANT

CAUTION:

If the engine or radiator is hot, do not remove the radiator cap.

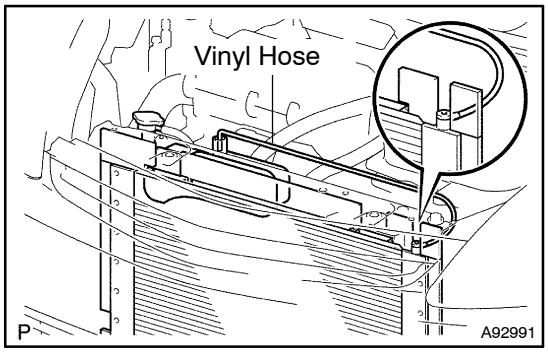
(a) Remove the radiator cap.
(b) Connect a vinyl hose to the drain cock of the radiator.
(c) Connect a vinyl hose to the drain cock of the engine.
(d) Loosen the drain cock plugs of the radiator and engine, then drain the coolant.
(e) Drain the coolant in the radiator reservoir tank.



4. ADD ENGINE COOLANT

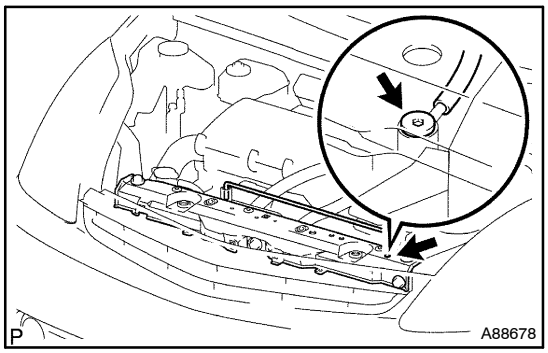
(a) Tighten the drain cock plug of the engine, then disconnect the vinyl hose.
Torque: 13 N·m (133 kgf·cm, 9.6 ft·lbf)

(b) Tighten the drain cock plug of the radiator, then disconnect the vinyl hose.



(c) Connect a vinyl hose to the bleeder plug of the radiator assembly and the radiator reservoir tank.

HINT:
Insert the vinyl hose to inside the radiator reservoir tank.



(d) Using a 6 mm socket hexagon wrench, loosen the radiator bleeder plug from the radiator support service hole.

(e) Fill the radiator with coolant up to the fill port.
Capacity:
RHD 5.3 liters (5.6 US qts, 4.7 lmp. qts)
LHD 5.5 liters (5.8 US qts, 4.8 lmp. qts)

HINT:

- Use of improper coolants may damage the engine cooling system.
- Only use ”Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non–silicate, non–amine, non–nitrite, and non–borate coolant with long–life hybrid organic acid technology.
- New Toyota vehicles are filled with Toyota Super Long Life Coolant. When replacing the coolant. Toyota Super Long Life Coolant is recommended.
- Observe the coolant level inside the radiator by pressing the inlet and outlet radiator hoses several times by hand. If the coolant level goes down, add the coolant.

CAUTION:
Do not use plain water alone.

HINT:
When filling coolant, press the radiator hose a few times. If the coolant level goes down, add more coolant.

(f) Using a 6 mm socket hexagon wrench, tighten the radiator bleeder plug.
Torque: 1.5 N·m (15 kgf·cm, 13 in.·lbf)

(g) Disconnect the vinyl hose between the bleeder plug of the radiator assembly and the radiator reservoir tank.

(h) Install the radiator cap.

(i) Fill the radiator reservoir tank with coolant to the full level.
(j) Set the vehicle to the "Inspection Mode–2WD Inspection" (see page 01–5).
(k) Warm up the engine until the thermostat is open.
(l) Stop the engine, then wait until the coolant gets cold. Remove the radiator cap and check the coolant level.

CAUTION:
If the engine or radiator is hot, do not remove the radiator cap.

HINT:
If the coolant level is lower, add coolant again. Warm up the engine, then check the coolant level.

(m) When the coolant level stops going down, add coolant to the radiator reservoir tank up to the full level.

5. CHECK FOR ENGINE COOLANT LEAKS (See page 16–2)
6. INSTALL ENGINE UNDER COVER LH
7. INSTALL RADIATOR SUPPORT OPENING COVER