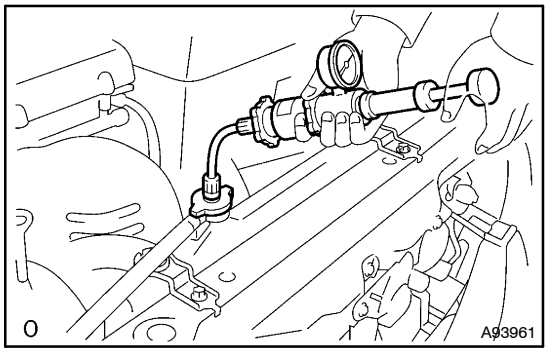
COOLING SYSTEM (3MZ–FE)

16095–02

ON–VEHICLE INSPECTION



1. INSPECT COOLING SYSTEM FOR LEAKS

(a) Remove the radiator cap.

CAUTION:

Do not remove the radiator cap while the engine and radiator are still hot. Pressurized, hot engine coolant and steam may be released and cause serious burns.

(b) Fill the radiator with coolant and attach a radiator cap tester.

(c) Warm up the engine.

(d) Using a radiator cap tester, increase the pressure inside the radiator to 118 kPa (1.2 kgf/cm^2, 17.1 psi), and check that the pressure does not drop.

If the pressure drops, check the hoses, radiator or water pump for leaks. If no external leaks are found, check the heater core, cylinder block and head.

2. CHECK ENGINE COOLANT LEVEL AT RESERVOIR

(a) The engine coolant level should be between the ”LOW” and ”FULL” lines when the engine is cold.

If low, check for leaks and add ”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 up to the ”FULL” line. Never use water as a substitute for engine coolant.

3. CHECK ENGINE COOLANT QUALITY

(a) Remove the radiator cap.

CAUTION:

Do not remove the radiator cap while the engine and radiator are still hot. Pressurized, hot engine coolant and steam may be released and cause serious burns.

(b) Check if excessive deposits of rust or scales are present around the radiator cap and radiator filler hole. Also, the coolant should be free from oil.

HINT:

If excessively dirty, replace the coolant.

(c) Reinstall the radiator cap.