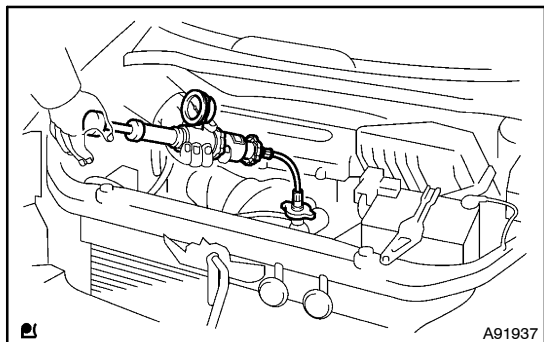


## COOLING SYSTEM (2AZ-FE)

### ON-VEHICLE INSPECTION

160VO-01



#### 1. INSPECT COOLING SYSTEM FOR LEAKS

##### CAUTION:

To avoid the danger of being burned, do not remove the radiator cap while the engine and radiator are still hot. Thermal expansion will cause hot engine coolant and steam to blow out from the radiator.

- Fill the radiator with coolant, then attach a radiator cap tester.
- Warm up the engine.
- Pump it to 118 kPa (1.2 kgf/cm<sup>2</sup>, 17.1 psi), then check that the pressure does not drop.

If the pressure drops, check the hoses, radiator and water pump for leaks. If there are no signs or traces of external coolant leaks, check the heater core, cylinder block and head.

#### 2. CHECK ENGINE COOLANT LEVEL AT RESERVOIR

- The engine coolant should be between the "LOW" and "FULL" lines when the engine is cold.

##### HINT:

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.

#### 3. CHECK ENGINE COOLANT QUALITY

- Remove the radiator cap.

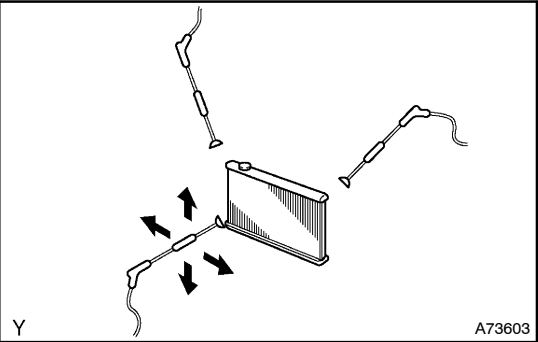
##### CAUTION:

To avoid the danger of being burned, do not remove the radiator cap while the engine and radiator are still hot. Thermal expansion will cause hot engine coolant and steam to blow out from the radiator.

- Check around the radiator cap and radiator filler hole for any excessive deposits of rust or scale. The coolant should be free from oil.

If excessively dirty, replace the coolant.

- Reinstall the radiator cap.



4. INSPECT FIN BLOCKAGE

- (a) If the fins are clogged, wash them with water or a steam cleaner, then dry them with compressed air.

NOTICE:

- If the distance between the steam cleaner and core is too close, there is a possibility of damaging the fins, so keep the following injection distance.

Injection Pressure kPa (kgf/cm <sup>2</sup> , psi)	Injection Distance mm (in.)
2,942 to 4,903 (30 to 50, 427 to 711)	300 (11.811)
4,903 to 7,845 (50 to 80, 711 to 1,138)	500 (19.685)

- If the fins are bent, straighten them with a screwdriver or pliers.
- Be careful not to expose the electronic components to water.