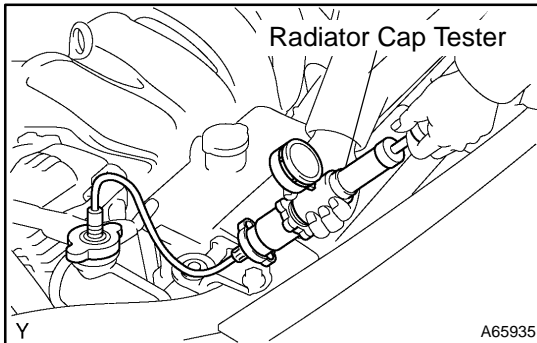


## COOLING SYSTEM (April, 2003)

### ON-VEHICLE INSPECTION

160NX-02



#### 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, as fluid and steam can be blown out under pressure.

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

##### HINT:

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

- The engine coolant level should be between the "LOW" and "FULL" line.

##### HINT:

If low, check for leaks and add "Toyota Long Life Coolant" or equivalent up to the "FULL" line.

#### 3. CHECK ENGINE COOLANT QUALITY

- Remove the radiator cap.

##### CAUTION:

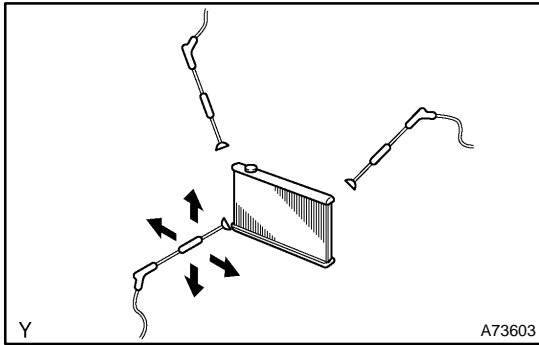
To avoid the danger of being burned, do not remove the radiator cap while the engine and radiator are still hot, as fluid and steam can be blown out under pressure.

- Check if there is any excessive deposits of rust or scale around the radiator cap and radiator filler hole; the coolant should be free from oil.

##### HINT:

If excessively dirty, replace the coolant.

- Reinstall the radiator cap.



#### 4. INSPECT FINS BLOCKAGE

- (a) If fins are clogged, wash them with water or a steam cleaner and dry 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 Pressures 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 pour water directly onto electronic components.**