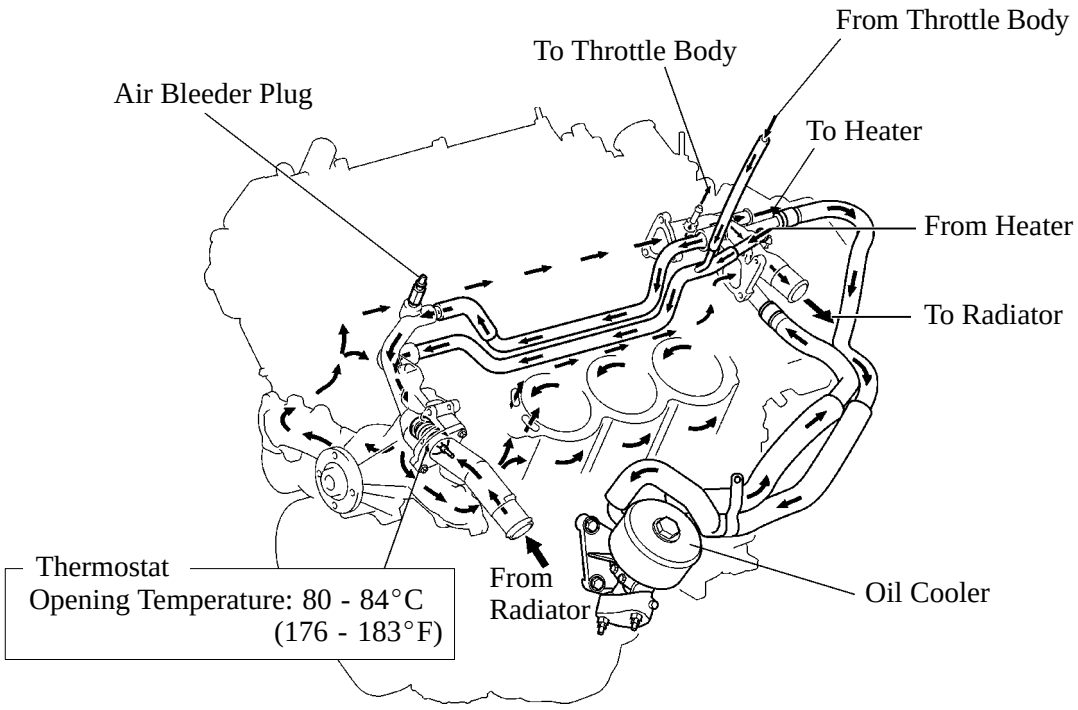
■COOLING SYSTEM

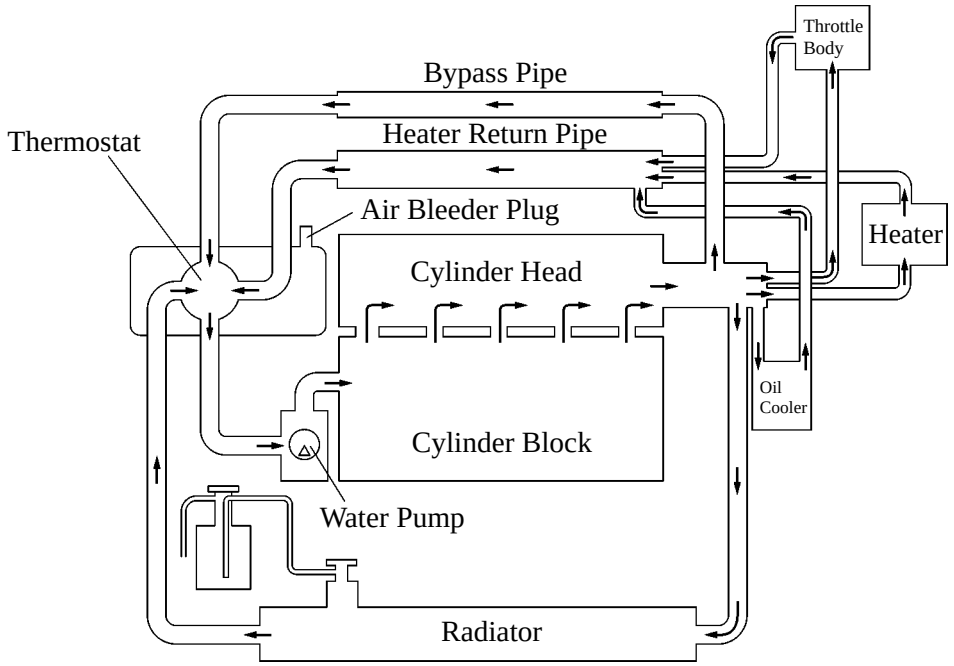
1. General

- The cooling system is a pressurized forced circulation system with open air type reserve tank.
- A thermostat with a bypass valve is located on the water inlet housing to maintain suitable temperature distribution in the cooling system.
- A cooling fan control system in which the ECM optimally controls cooling fan speed is used. For details, see page 81.
- An air bleeder plug is provided on the water inlet assembly to improve the efficiency of changing the engine coolant. For details, refer to the 2007 Sienna Repair Manual (Pub. No. RM0530U).
- The engine coolant uses TOYOTA genuine SLLC (Super Long Life Coolant).



0270EG31C

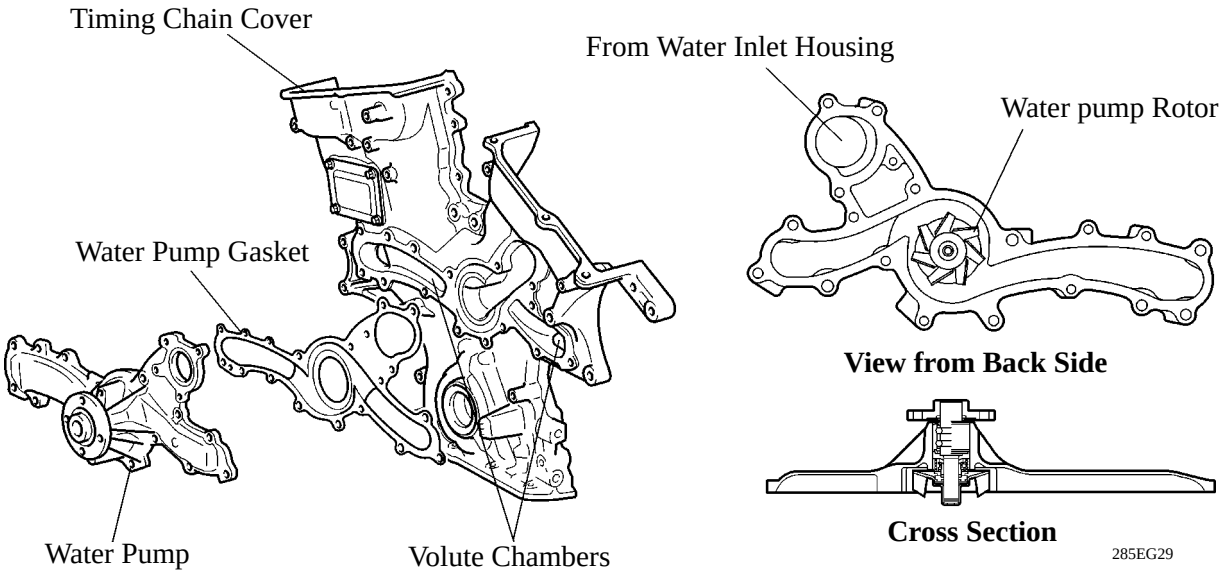
▶ System Diagram ◀



0270EG29C

2. Water Pump

- The water pump has two volute chambers, and circulates coolant uniformly to the left and right banks of the cylinder block.
- A rust-resistant water pump rotor made of stainless steel is used.



3. Engine Coolant

TOYOTA genuine SLLC (Super Long Life Coolant) is used. Maintenance interval is as shown in the table below:

Type		TOYOTA Genuine SLLC or the Following*
Maintenance Intervals	First Time	100,000 miles (160,000 km)
	Subsequent	Every 50,000 miles (80,000 km)
Color		Pink

*: Similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology. (Coolant with long-life hybrid organic acid technology consists of the combination of low phosphates and organic acids.)

- SLLC is pre-mixed (50 % coolant and 50 % deionized water for U.S.A. or 55 % coolant and 45 % deionized water for Canada), so no dilution is needed when adding or replacing SLLC in the vehicle.