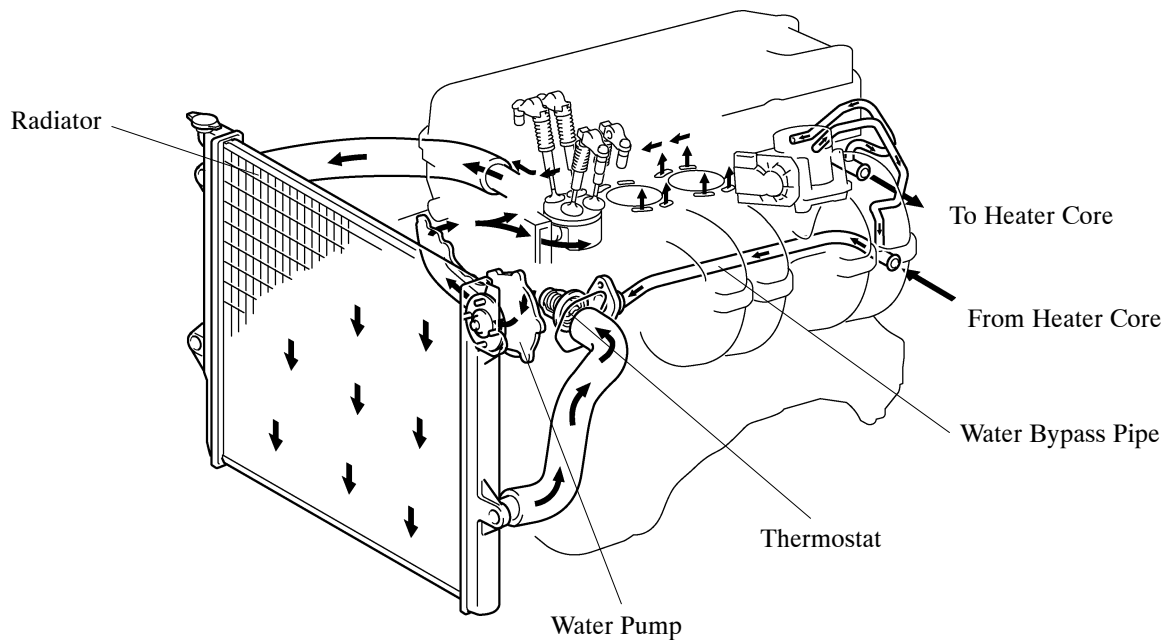


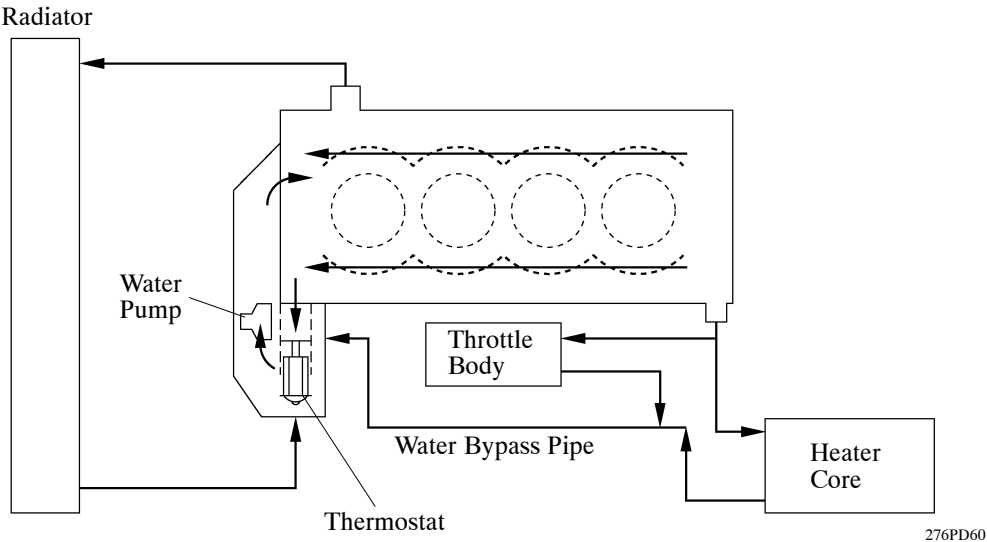
6. Cooling System

- The cooling system uses a pressurized forced circulation system with open air type reservoir tank.
- A thermostat with an air bypass valve is located on the water inlet housing to maintain suitable temperature distribution in the cooling system.
- A water pump swirl chamber and a thermostat housing have been placed in the timing chain cover to achieve a simpler construction and a compact engine.
- An aluminum radiator core is used for weight reduction.
- The water bypass pipe made of plastic is used for weight reduction.
- A 3-stage temperature-controlled coupling fan controls the fan speed in three stages to improve cooling performance and reduce cooling fan noise.
- The TOYOTA genuine Super Long Life Coolant (SLLC) has been adopted. As a result, the maintenance interval has been extended.



276PD09

► System Diagram ◀



► Specifications ◀

Engine Coolant	Type		TOYOTA Genuine Super Long Life Coolant or similar right 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 is a combination of low phosphates and organic acids.) Do not use plain water alone.	TOYOTA Genuine Long Life Coolant (LLC) or Equivalent
	Color		Pink	Red
	Capacity liters (US qts, Imp. qts)	MT	8.3 (8.8, 7.3)	←
		AT	8.1 (8.6, 7.2)	←
	Maintenance Intervals	First Time	160,000 km (100,000 mile)	Every 40,000 km (24,000 miles) or 24 months whichever comes first
		Subsequent	Every 80,000 km (50,000 mile)	
Thermostat	Opening Temperature °C (°F)		80 - 84 (176 - 183)	←

- SLLC is pre-mixed (50% coolant and 50% deionized water), so no dilution is needed when adding or replacing SLLC in the vehicle.
- If LLC is mixed with SLLC, the interval for LLC (every 40,000 km/24,000 miles or 24 months) should be used.