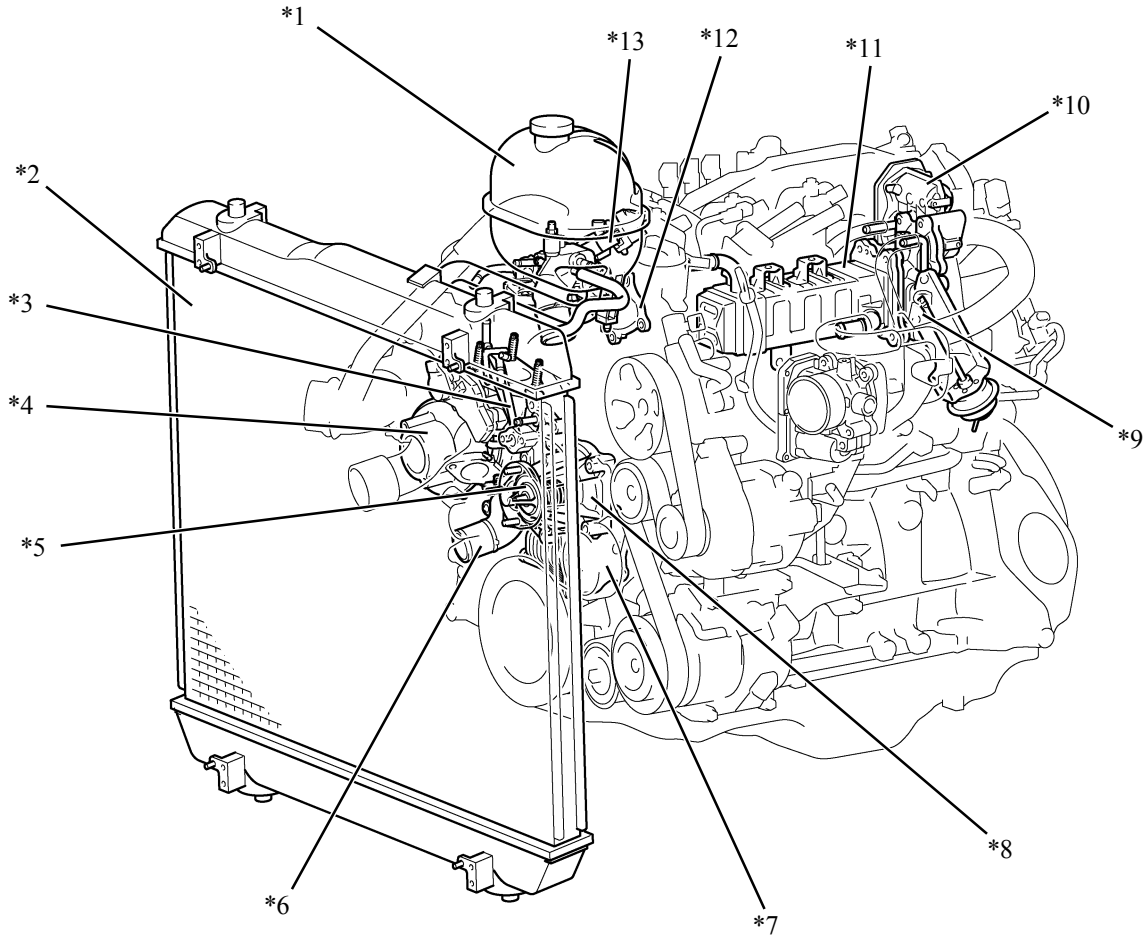
1GD-FTV COOLING

■ GENERAL

1. Outline

- The cooling system uses a pressurized forced circulation system with a pressurized radiator reserve tank assembly.
- The pressurized reservoir tank assembly is used to prevent the engine coolant from deteriorating upon contact with external air.
- A thermostat with a bypass valve is located on the water inlet housing to maintain suitable temperature distribution in the cooling system.
- An aluminum radiator core is used for weight reduction.
- A water-cooled type engine oil cooler is used.
- Toyota Genuine Super Long Life Coolant (SLLC) is used.



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Text in Illustration

*1	Radiator Reserve Tank Assembly	*2	Radiator Assembly
*3	Turbo Water Pipe Sub-assembly	*4	Turbocharger Sub-assembly
*5	Thermostat	*6	Water Inlet
*7	Oil Cooler Assembly	*8	Water Pump Assembly
*9	No. 2 EGR Valve Assembly	*10	Electric EGR Control Valve Assembly
*11	No. 1 EGR Cooler	*12	Water Outlet
*13	No. 1 Injector Holder	-	-

2. Specification

1) Engine Coolant

Engine Coolant Type		Toyota Genuine Super Long Life Coolant (SLLC) or similar high quality ethylene glycol based nonsilicate, 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.
Maintenance Intervals	First Time	160000 km (100000 miles)
	Sub Sequent	Every 80000 km (50000 miles)
Color		Pink

SLLC is pre-mixed (50% coolant and 50% deionized water).

2) Thermostat

Thermostat Opening Temperature	80°C to 84°C (176°F to 183°F)