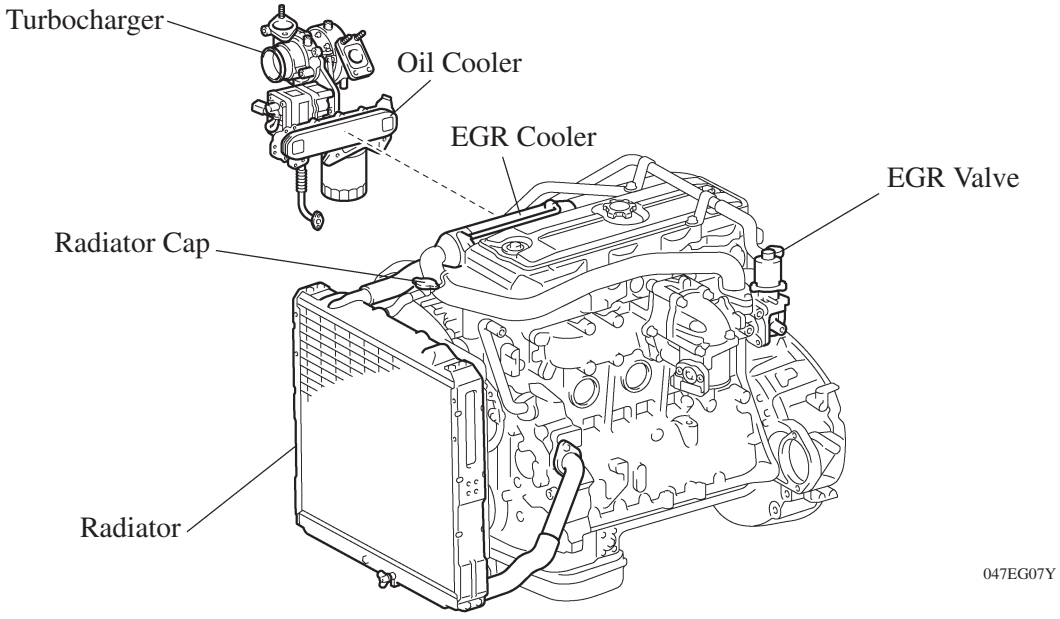
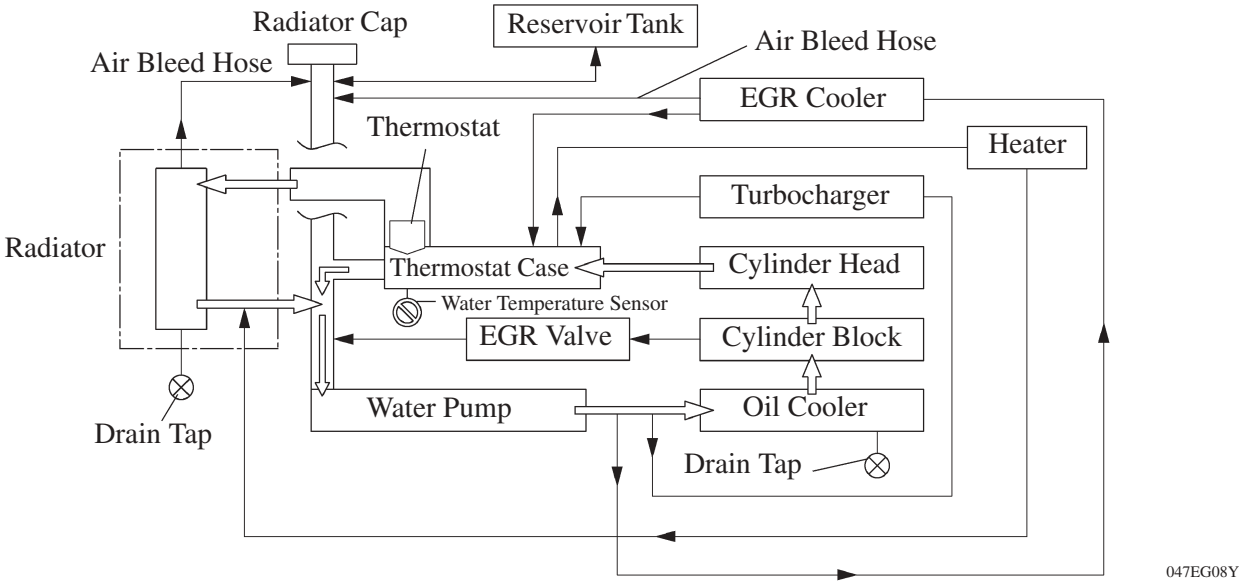
6. Cooling System

General

An inlet thermostat type, water-cooled, pressurized circulation cooling system that uses a thermostat with a bypass valve at the water inlet is used.

- The valve opening temperature of the thermostat is set to 82°C.
- The water pump is mounted in front of the cylinder block and is driven by the V-belt.
- A radiator with an aluminum core is used for weight reduction and high recyclability. An air bleed hose has been provided between the radiator tank and the radiator cap to facilitate the bleeding of air from the cooling circuit.
- The outer diameter of the cooling fan and the width of the cooling fan blades have been designed to be large to achieve high cooling performance. Also, the size of the cooling fan clutch has been designed to be large to achieve high transmission torque performance to the cooling fan clutch.
- The system also circulates coolant through the turbocharger and the oil cooler in order to cool them.
- The TOYOTA genuine SLLC (Super Long Life Coolant) is used.





▶ Specifications ◀

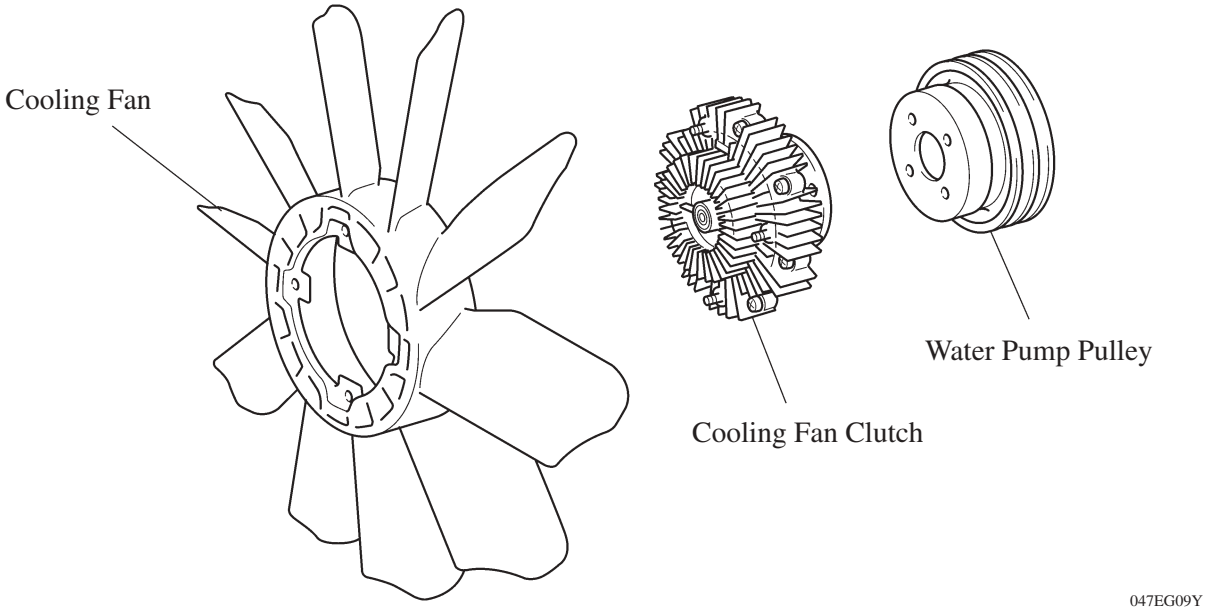
Capacity	Without Heater	13 Liters (13.74 US qts, 11.44 Imp.qts)
	With Front Heater	13.2 Liters (13.95 US qts, 11.62 Imp.qts)
	With Front and Rear Heaters	14.1 Liters (14.90 US qts, 12.41 Imp.qts)
Type		TOYOTA Genuine SLLC or following*
Color		Pink
Maintenance Interval	First Time	160,000 km (100,000 miles)
	Subsequent	Every 80,000 km (50,000 miles)

SLLC is pre-mixed (50% coolant and 50% deionized water). Therefore, no dilution is needed when SLLC in the vehicle is added or replaced.

*: 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 hybrid organic acid technology consists of the combination of low phosphates and organic acids)

Cooling Fan

The outer diameter of the cooling fan and the width of the cooling fan blades have been increased to improve cooling performance. Also, the size of the cooling fan clutch has been enlarged to achieve high transmission torque performance to the cooling fan.

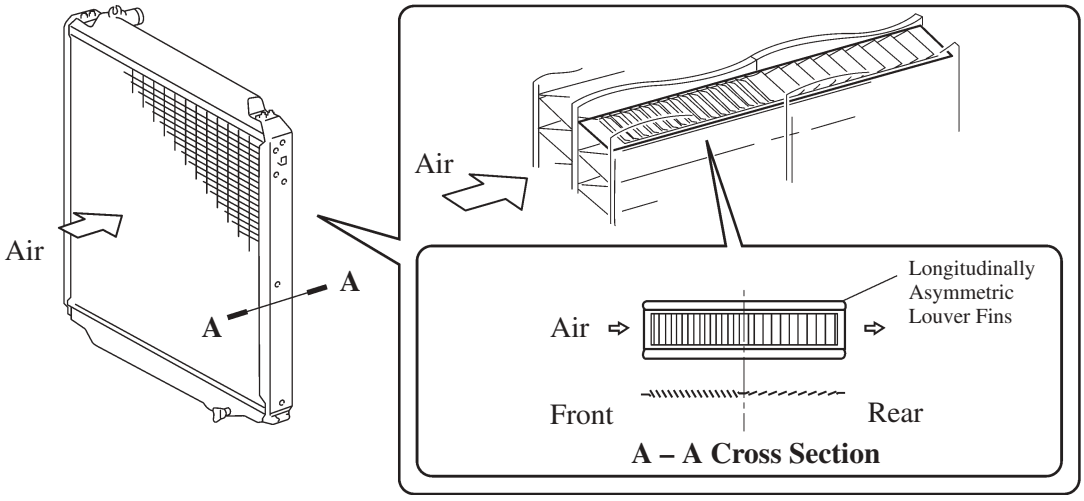


▶ Specifications ◀

Model		New Coaster	Previous Coaster
Engine Type		N04C-TQ	15B-FTE
Fan Diameter	mm (in.)	450 (17.72)	430 (16.9)
Number of Blades		10	7
Blade Width	mm (in.)	60.1 (2.4)	57 (2.2)
Cooling Fan Clutch Diameter	mm (in.)	168 (6.6)	168 (6.6)

Radiator

- Longitudinally asymmetric louver fins are used in the radiator core. This achieves the large heat dissipation surface area of the tubes and high bond strength between the tubes and the fins, and ensures a high amount of heat dissipation.
- A radiator with an aluminum core is used for weight reduction and high recyclability.



047EG10Y

▶ Specifications ◀

Core Dimension	Width	583.2 mm (23.0 in.)
	Height	490 mm (19.3 in.)
	Depth	48 mm (1.9 in.)
Fin Pitch		4.0 mm (0.16 in.)