
GROUP 14

ENGINE COOLING

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GENERAL INFORMATION

M2140000100702

The cooling system is a water-cooled pressurized, forced circulation type which offers the following features.

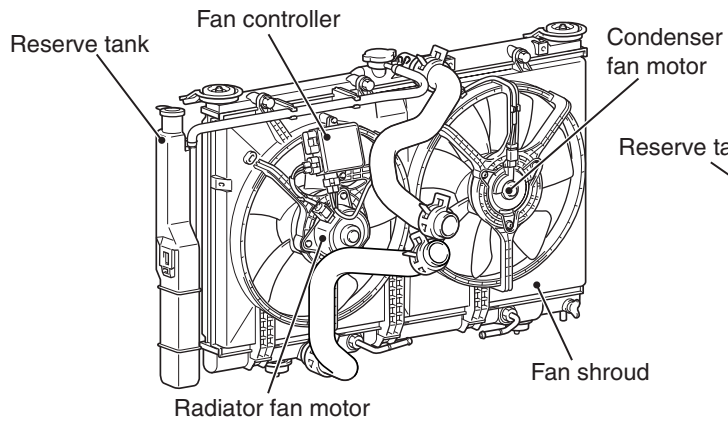
- To stabilize engine coolant temperature, the thermostat is located at the coolant inlet port from the radiator.
- To improve engine cooling performance and save weight, a plastic tank and aluminium radiator fins are used.
- The speed of the fan motor is controlled by a fan controller. The engine-ECU <M/T> or engine-A/T-ECU <A/T> detects driving conditions and controls the controller so that the fan operating noise is minimized and fuel efficiency is improved.

SPECIFICATIONS

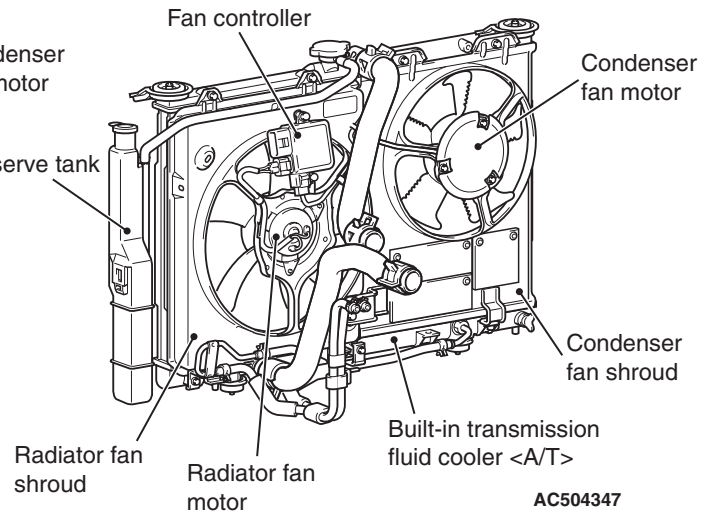
Item				Specification
Cooling method				Water-cooled pressurized, forced circulation with electrical fan
Water pump	Type			Centrifugal impeller
	Drive method			Drive belt
Thermostat	Type			Wax pellet with jiggle valve
	Valve open temperature °C			82
Radiator	Type			Pressurized corrugate type
	Core size mm	Width × Height × Thickness	4G63-Non-turbo, 4G69	691.5 × 425 × 16
			4G63-Turbo	691.3 × 425 × 27
	Performance kJ/h		4G63-Non-turbo	194,000
			4G63-Turbo	237,600
			4G69	208,800
Built-in transmission fluid cooler <4G69-A/T>	Performance kJ/h			5,700

CONSTRUCTION DIAGRAM

<4G63-Non-turbo>



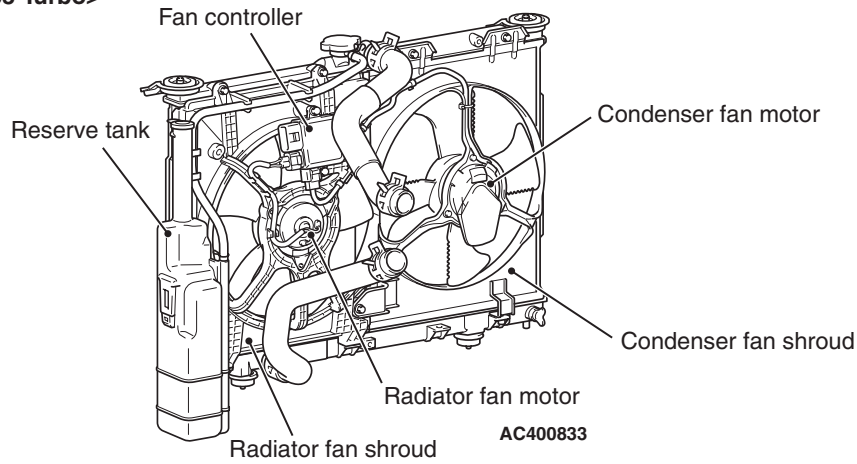
<4G69>



AC301115

AC504347

<4G63-Turbo>



AC400833

AC605187AB

NOTES