

GROUP 14

ENGINE COOLING

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GENERAL INFORMATION

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.

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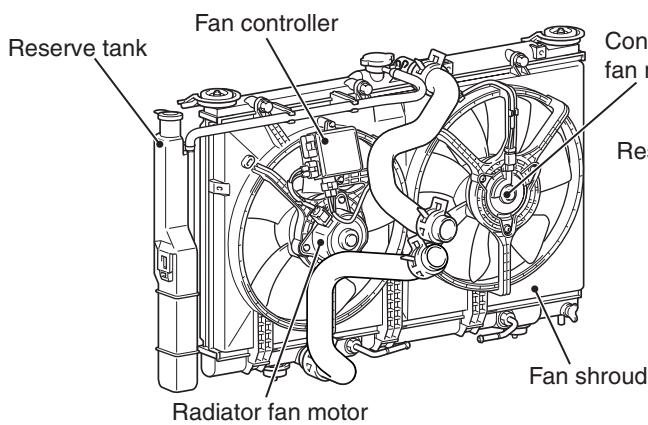
- The speed of the fan motor is controlled by a fan controller. The engine-ECU <M/T> or engine-A/T-ECU <A/T> detects driving conditions and controls the controller so that the fan operating noise is minimized and fuel efficiency is improved.

SPECIFICATIONS

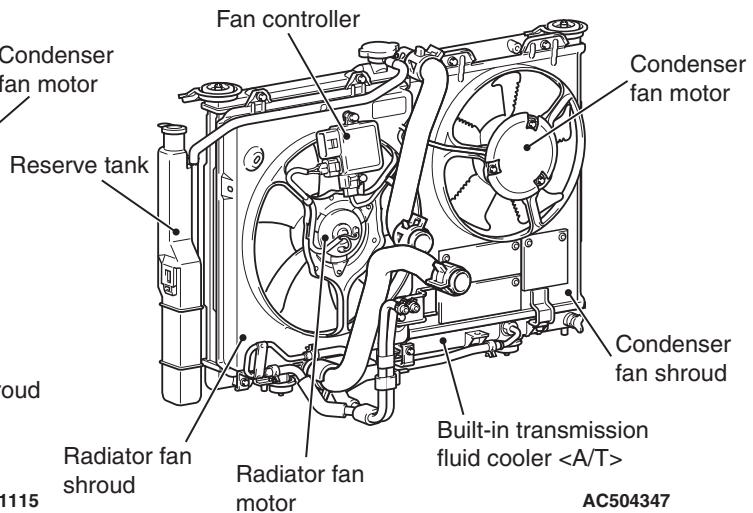
Item	Specification				
Cooling method	Water-cooled pressurized, forced circulation with electrical fan				
Water pump	Type	Centrifugal impeller			
	Drive method	Drive belt			
Thermostat	Type	Wax pellet with jiggle valve			
	Valve open temperature °C	82			
Radiator	Type	Pressurized corrugate type			
	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

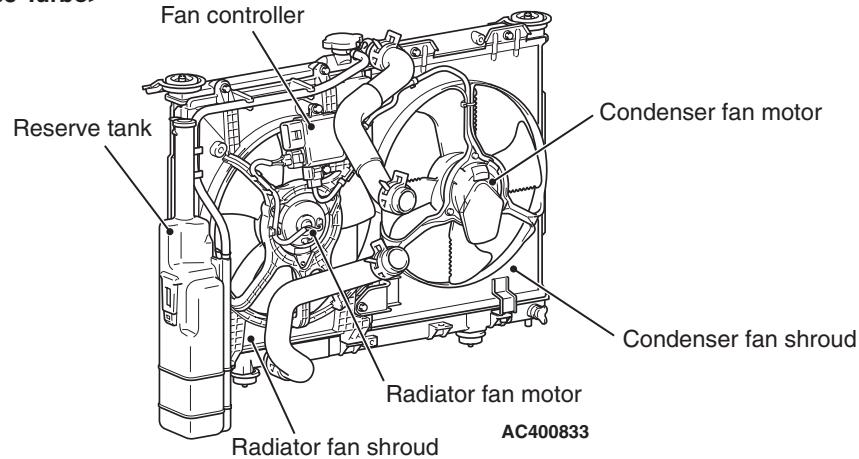
<4G63-Non-turbo>



<4G69>



<4G63-Turbo>



AC301115

AC504347

AC400833

AC605187AB

NOTES