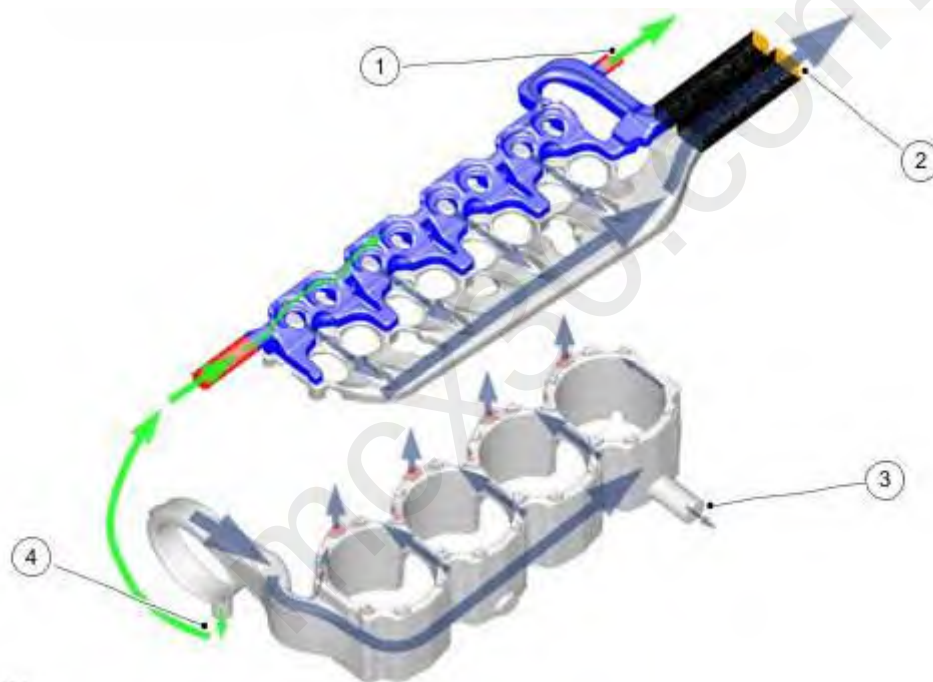


Description and Operation

2.0L EcoBlue Engine Cooling

The engine cooling system contains the following components:

- Coolant pump
- Degas bottle
- Heater core
- AdBlue® electric coolant pump
- AdBlue® injector (cooled by coolant)
- CHT (cylinder head temperature) sensor
- EGR cooler and EGR cooler bypass vacuum actuator
- Three-plate thermostat
- Engine oil cooler
- ECT (engine coolant temperature) sensor
- Radiator
- Electric cooling fans and shroud



E230173

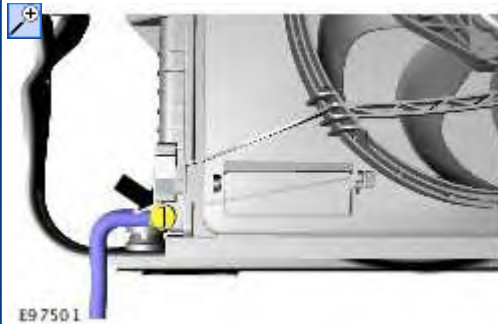
Item	Description
1	Feed to the EGR (exhaust gas recirculation) cooler
2	Feed to the thermostat
3	Feed to the engine oil cooler
4	Coolant pump

Coolant is circulated in the cooling system using an externally mounted coolant pump which is driven by the engine accessory drive belt.

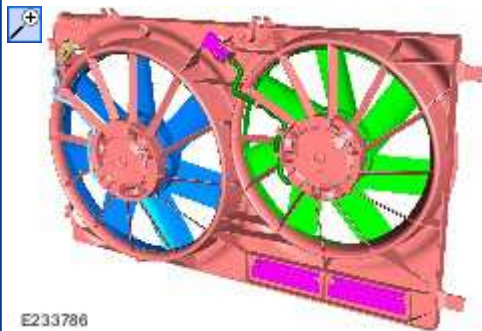
The cooling system uses a 3 way thermostat that controls the coolant flow through the engine, cylinder head, EGR cooler, AdBlue® injector and heater core. The thermostat allows the engine to reach operating temperature as quickly as possible to meet strict emission regulations.

The engine cooling circuit in the cylinder head is split into an upper and lower cooling circuit to improve efficiency. The flow through each of the cylinder head cooling circuits is controlled by the 3 way thermostat.

Cooling system drain plug



The degas bottle holds surplus coolant and removes air from the cooling system. It also allows for coolant expansion, system pressurization, replenishes coolant to the cooling system and serves as the location for service fill.



Dual electric cooling fans provide additional airflow to cool the radiator and A/C evaporator when the vehicle is stationary, at low speeds or at high engine and condenser temperatures.

The cooling system is also equipped with an electric coolant pump which is used by the {Acronym.SCR} ({Acronym.SCR}) or AdBlue® system to cool the AdBlue® injector.