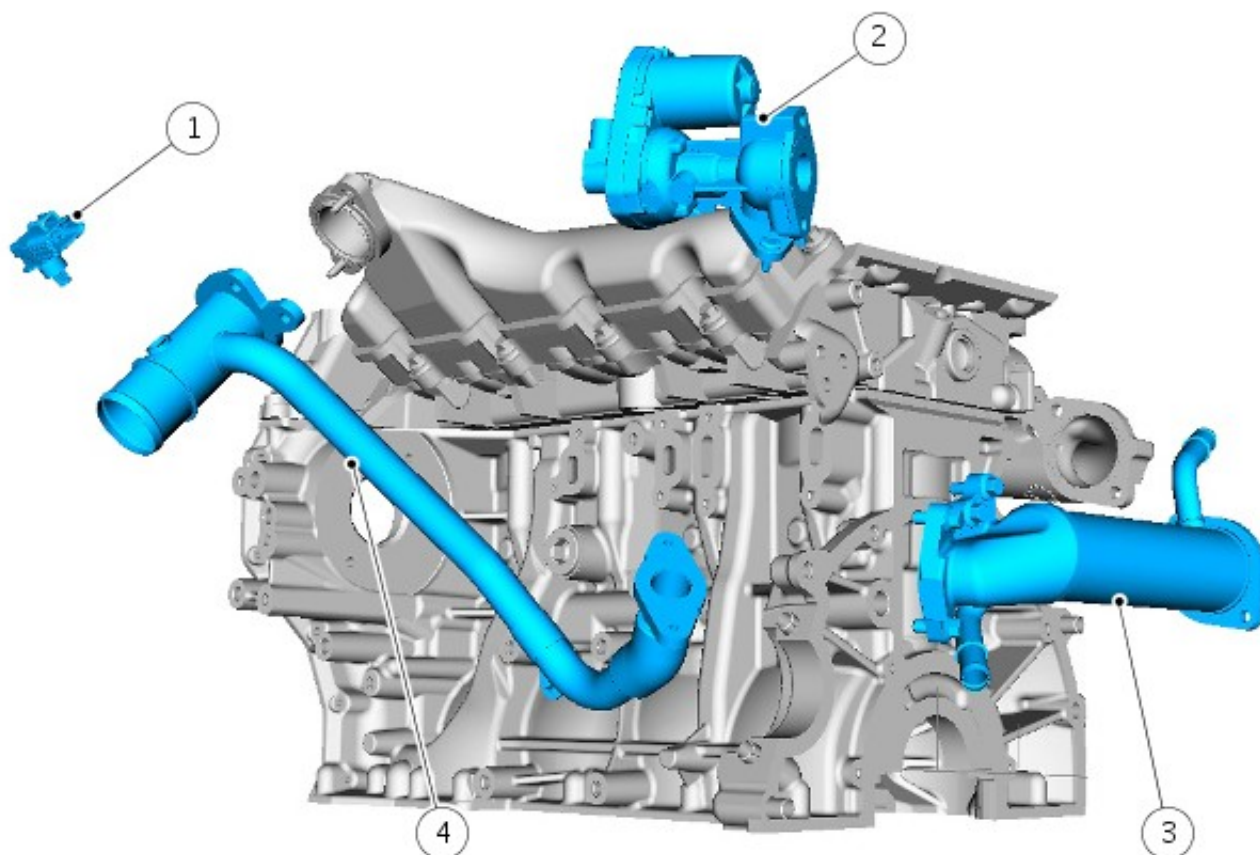


Engine Emission Control - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma - Engine Emission Control

Description and Operation

exhaust gas recirculation (EGR) COMPONENT LOCATION



E63622

Item	Part Number	Description
1	-	manifold absolute pressure (MAP) sensor (shown for location purposes only)
2	-	EGR valve
3	-	EGR cooler
4	-	Gas transfer and mixer pipes

OVERVIEW

The EGR system comprises:

- EGR modulator
- EGR cooler
- Gas transfer pipe and mixer

The EGR cooler receives exhaust gas directly from the exhaust manifold, where it is cooled by a water matrix which is integrated into the overall engine cooling system.. Attached to the Cool side of the cooler is the EGR valve. This valve is motor driven – controlled by the engine control module (ECM) to provide varying amounts of EGR recirculation depending on the engine operation. At engine switch off the valve opens and closes several times to clear any deposits which may have accumulated during running.

The EGR pipe transports the cooled gas to the mixer where it is blended into to the incoming air stream.

The ECM monitors the EGR system function and stores fault codes in the event of failure. The EGR valve can also be activated for testing using the Land Rover recommended diagnostic tool.

CRANKCASE VENTILATION COMPONENT LOCATION