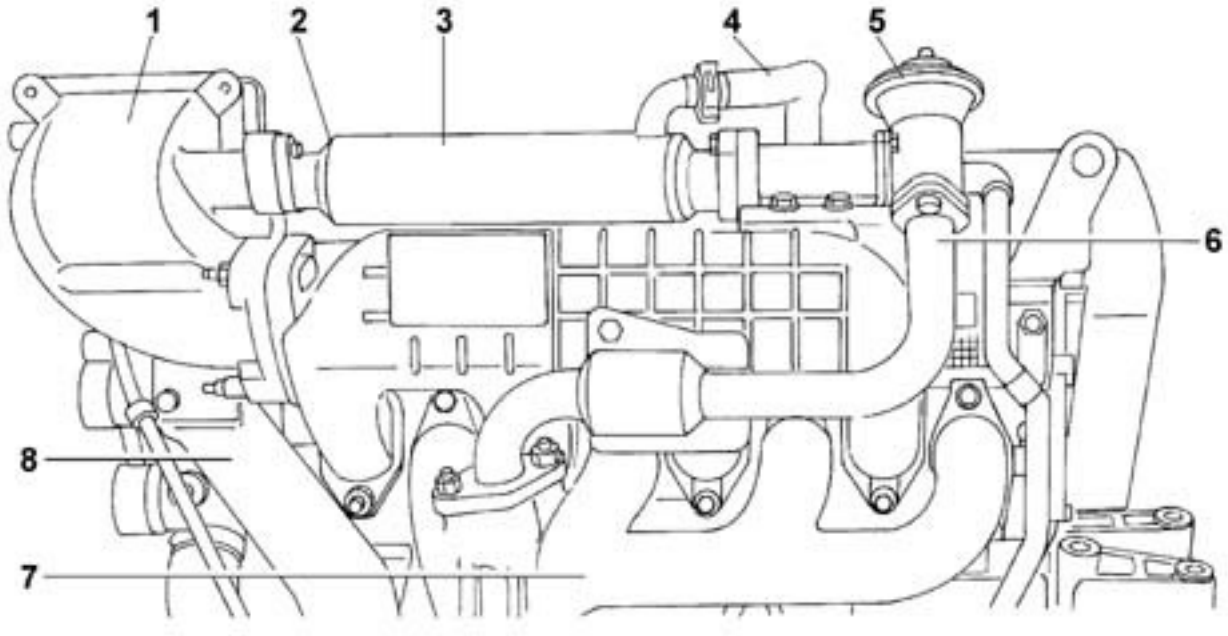
Exaust Gas Recirculation (EGR) circuit

This system is used to direct a proportion of exhaust gases to the intake under certain engine service conditions. This action dilutes the fuel mixture with inert gases to lower the temperature peak in the combustion chamber. Generation of nitrogen oxides (NOX) is thus contained to bring about a 30÷ 50% reduction at the exhaust.

Blowby gas recirculation is permitted only at medium - low loads when the fuel-air ratio is very high and engine service is not impaired by the presence of inert gases in place of air.



1. Heat Flange *Flame starter is more usual option in UK*.

2. Coolant pipe for EGR heat exchanger.

3. Heat exchanger for EGR system.

4. Coolant pipe for EGR heat exchanger.

5. EGR valve.

6. Pipe connecting exhaust manifold to EGR valve.

7. Exhaust manifold.

8. Inlet manifold. *Or is it pipe connecting intercooler to manifold?*