

1981 Crankcase Ventilation

AUDI

4000
5000

DESCRIPTION

The crankcase ventilation system for Audi consists of a rubber hose containing a metered orifice. Some late models may contain an inline PCV valve instead of restricted orifice. This hose is connected to the cylinder head cover at one end and the air cleaner at the other end. The system is sealed, and prevents crankcase vapors from reaching the atmosphere by drawing them through the hose and into the air cleaner.

OPERATION

Crankcase vapors and blow-by gases from the crankcase are drawn, by engine vacuum present at the air cleaner, into the cylinder head cover, through the metered opening (or PCV valve) and into the hose which directs the gases to the air cleaner. Here, the vapors and gases mix with the fresh incoming air and are drawn into the engine with the air/fuel mixture to be burned. This reburning of the vapors lowers the emission output of the engine.

MAINTENANCE

Visually inspect rubber hose connected between cylinder head cover and air cleaner for cracks, damage or restriction about every 15,000 miles or once a year. If a strong smell of hot oil or increased engine noise is evident, check this system for leaks or possible disconnected hose.

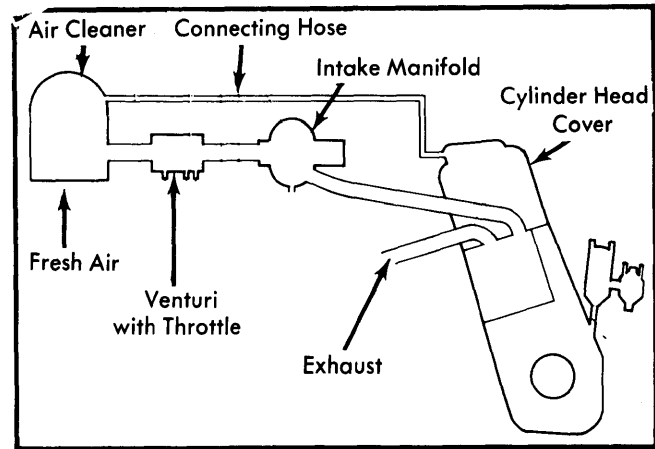


Fig. 1 Audi Crankcase Ventilation System

BRITISH LEYLAND

Jaguar XJ6
Triumph TR7
Triumph TR8

DESCRIPTION

All models use a closed crankcase system to prevent crankcase fumes from entering into the atmosphere. An oil breather is fitted to the valve cover or camshaft cover. A wire mesh screen flame arrestor is located in the breather cap. A purge tube runs to the intake manifold, with an orifice or restrictor to limit the air flow. On all models, the crankcase fumes are vented to a charcoal canister when the engine is not running.

OPERATION

When the engine is running, crankcase vapors are drawn from the valve cover area through the purge tube and into the intake manifold. The wire mesh screen acts as a flame arrestor in case of a backfire. The purge hose is also connected to the charcoal canister, and simultaneously purges the fuel evaporation system. When the engine is stopped, fumes from the crankcase go into the canister.

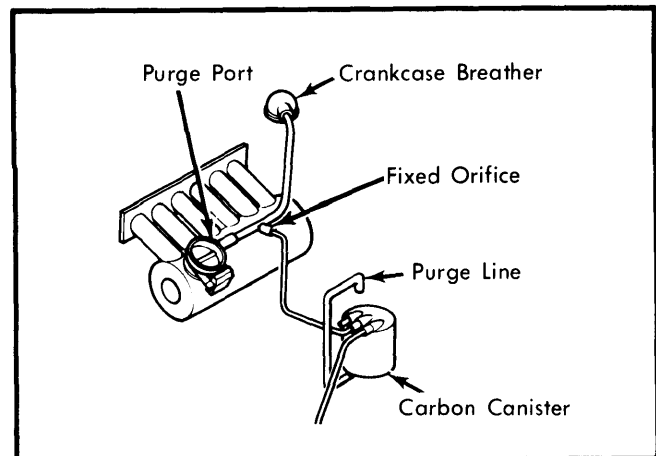


Fig. 1 Jaguar Crankcase Ventilation System

MAINTENANCE

Check all hoses for condition and tightness. Every 30,000 miles, clean restrictor in purge line and clean or replace filter in valve cover.