

1974-79 EXHAUST EMISSION SYSTEMS

Audi Crankcase Ventilation

3-27

All Models

DESCRIPTION

1974 Models - Audi incorporates a closed crankcase ventilation system consisting of an air/oil separator and a connecting hose between air/oil separator and the carburetor air cleaner. The air/oil separator is located in cylinder head rocker arm cover.

1975-76 Models - The crankcase ventilation system on these models consists of a sealed oil filler cap and a rubber hose connected between cylinder head cover and air cleaner.

1977-79 Models - The crankcase ventilation system consists of a rubber hose containing a metered orifice. Some models may contain an in-line 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

1974 Models - Fumes and vapors produced in the crankcase pass through the connecting hose to the air cleaner where they are drawn through the carburetor and enter the combustion system to be burned. A valve (flap) is installed in the carburetor air cleaner inlet to ensure there is sufficient vacuum within the air cleaner to prevent crankcase fumes and vapors from being emitted into the atmosphere.

1975-76 Models - Crankcase vapors and blow-by gases from the crankcase are drawn from cylinder head covers through the rubber hose into the engine air cleaner. From here, vapors and blow-by gases are drawn into engine with air/fuel mixture and are burned.

1977-79 Models - 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 (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

1974 Models - Every 6000 miles check connecting hose for chafing, cracks, or obstructions. Clean or replace hose as required. Check carburetor air intake valve for ease of operation. If necessary, clean and oil valve bearing surfaces.

1975-79 Models - 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.

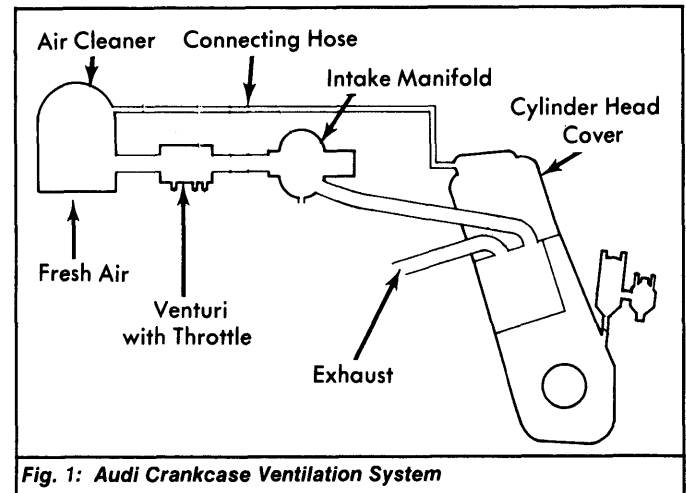


Fig. 1: Audi Crankcase Ventilation System