

1974-79 EXHAUST EMISSION SYSTEMS

Chrysler Corp. Crankcase Ventilation

All Models

DESCRIPTION

System is designed to prevent blow-by gases from entering the atmosphere by routing them back into intake manifold and carburetor air cleaner. System is a closed type and consists of an oil separator (camshaft chain sprocket), a fixed baffle plate located inside rocker arm cover, a small fixed orifice, and connecting hoses.

OPERATION

1975-76 Models - When engine is running with low load (high vacuum), crankcase vapors are drawn out of rocker arm cover into intake manifold. During high load (low vacuum) engine operation, crankcase vapors are drawn into the air cleaner through carburetor and into the combustion chambers. Oil in vapor is separated by oil separator (camshaft chain sprocket). There is also a steel mesh filter at the breather hose air cleaner connection which further separates the oil.

1977-79 Models - Blow-by gases are led through a hose from the front of rocker arm cover into the air cleaner, and through another hose at rear of rocker arm cover into intake manifold through the fixed orifice. At part throttle operation, blow-by gas is drawn from rear of rocker arm cover into the intake manifold with fresh air entering from the air cleaner. At wide open throttle, blow-by gas is drawn from rear of rocker arm cover to intake manifold and from front of cover to air cleaner dirty side. Oil content in blow-by gas is separate by centrifugal force of the camshaft chain sprocket, or by the baffle plate in rocker arm cover, and the remaining oil is filtered by the steel-wool provided at blow-by gas inlet port inside of air cleaner.

MAINTENANCE

Check and clean entire crankcase ventilation system every 15,000 miles.

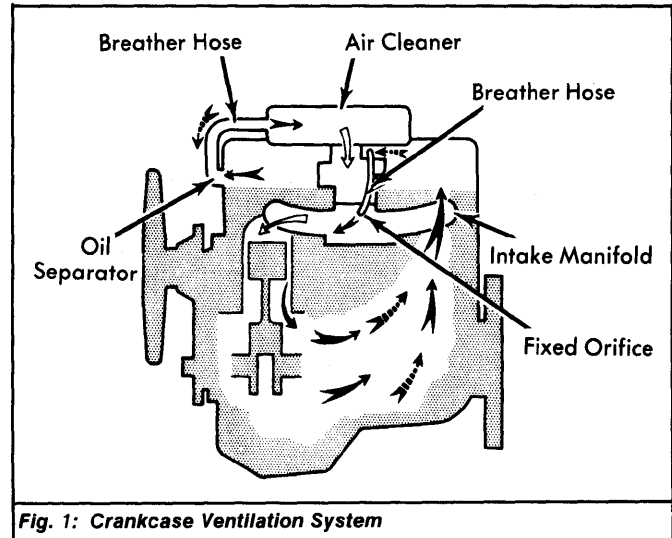


Fig. 1: Crankcase Ventilation System