

1982 Crankcase Ventilation

MERCEDES-BENZ

240D, 300 Series, 380 Series

DESCRIPTION

DIESEL MODELS

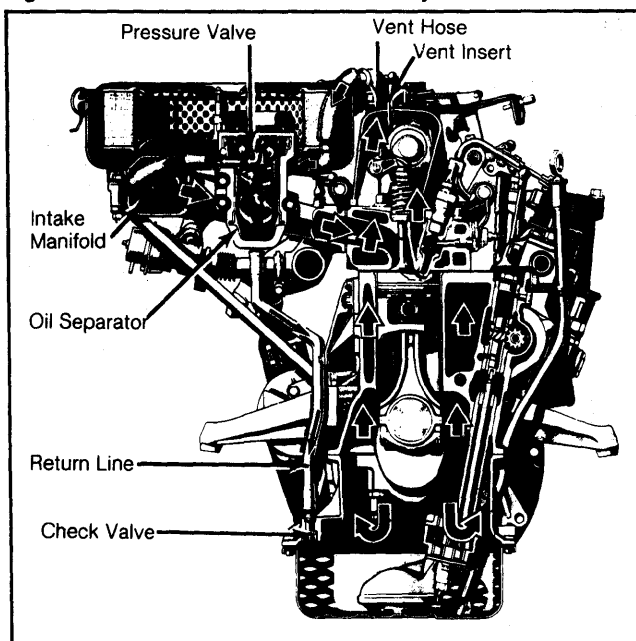
The system consists of a vent hose to the cylinder head cover, a vent insert in the cover, a vapor separator in the air cleaner and a drain hose from the separator to the oil pan.

A check valve in the drain hose prevents vapors from rising up the hose. Crankcase vapors are drawn through the vent hose into the separator, then into the intake manifold. Excess oil drains to the oil pan.

TURBO DIESEL MODELS

A vent hose from the cylinder head cover to the air intake (ahead of compressor) draws crankcase vapors into the engine. A by-pass line between air cleaner and vent line allows extra air to be drawn in during heavy load operation. An oil separator in the air cleaner has a drain line (with check valve) to the oil pan to drain off excess oil.

Fig. 1: Diesel Crankcase Ventilation System

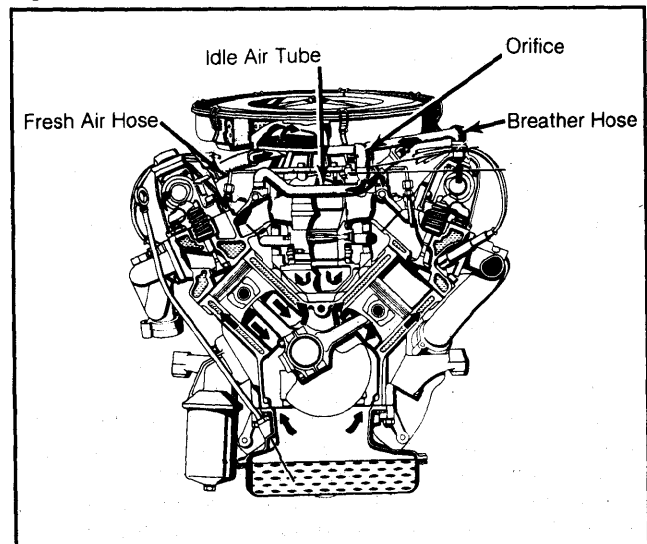


GASOLINE MODELS

The system consists of a fresh air hose from air cleaner to right cylinder head cover, a breather hose from left cylinder head cover, an orifice and a connection to intake system.

During idle or low speed operation, vapors are drawn through the orifice, into the idle air distribution tubes, then into the intake manifold. Fresh air to vent the engine comes through the air cleaner and right cylinder head cover hose. During high speed operation, vapors pass through hose into air cleaner and are drawn in to be burned.

Fig. 2: Gasoline Crankcase Ventilation System



MAINTENANCE

The crankcase ventilation system is maintenance free, but hoses should be checked to ensure they are in good condition and free of obstructions.