

Crankcase Ventilation Systems

CHRYSLER CORP.

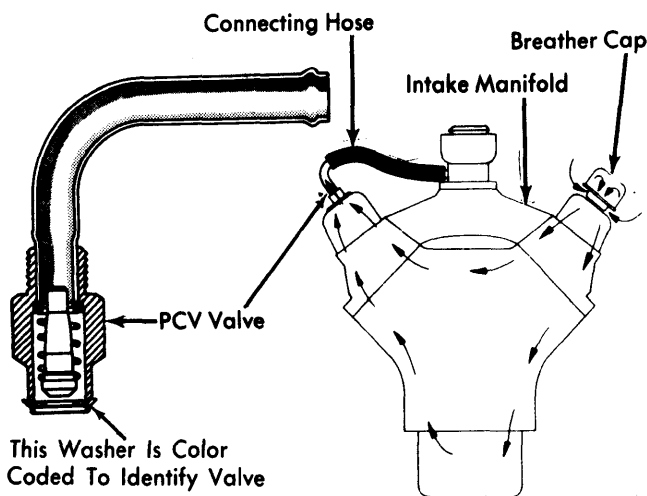
DESCRIPTION

Open Crankcase Ventilation (1964-67) - System consists of a crankcase ventilator valve (PCV) and breather cap mounted on valve cover. A hose connects PCV valve to hose fitting in base of carburetor. During vehicle production, two different PCV valves were used; on 170" engines, valve is identified by a number "6" on end, a step on end face, or a white end washer. All other engines used a valve identified by a letter "H" on end, a flat end or a black end washer.

Closed Crankcase Ventilation (1965-74) - This system was originally designed for vehicles sold only in California, and later all vehicles were equipped with closed system. Unit consists of a sealed oil filler cap, a crankcase ventilator valve (PCV) mounted on valve cover and related hoses. Valves are identified by color of washer at inlet end.

OPERATION

Open and closed crankcase ventilation systems operate by manifold vacuum. Open system draws air into crankcase through oil filler cap and closed system draws air from air cleaner and has a sealed oil filler cap. Air drawn into crankcase mixes with blow-by vapors and mixture is drawn out through cylinder head valve cover PCV valve to base of carburetor. Mixture enters intake system and combustion chambers.

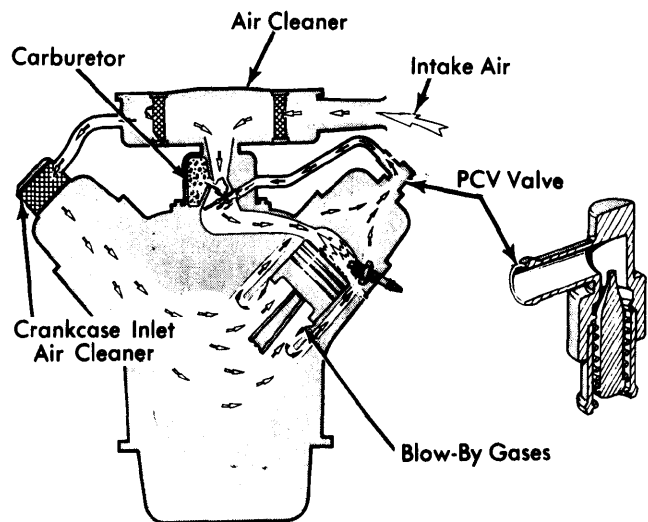


4CR01

OPEN CRANKCASE VENTILATION SYSTEM

TESTING

Check system for proper operation, condition of hoses, deposits in carburetor passage and PCV valve plugging. With engine at idle, remove oil filler cap and hold a piece of paper over opening. Paper should be sucked against opening with vacuum in crankcase if system is operating properly. Check PCV valve by removing it from valve cover and noting a hissing noise as air passes through valve with engine idling. A strong vacuum should be felt when finger is placed over valve inlet; if not, check valve, hose and carburetor passage for plugging. Valve shuttle should click when shaken to ensure that it is not stuck.



4CR02

CLOSE CRANKCASE VENTILATION SYSTEM

MAINTENANCE

Crankcase ventilation system must be kept clean to maintain engine performance. Periodic service is required to remove carbon deposits from hoses and carburetor passages. Inspect system operation at 12,000 mile or 12 month intervals. If vehicle is driven on dusty roads or short trips, service may be required more frequently. Replace PCV valve at 24,000 mile or 24 month intervals. **NOTE** - Do not attempt to clean PCV valve, if valve is plugged or does not operate properly, replace valve with a new one designed for engine being serviced. The oil filler cap for crankcase inlet air should be cleaned with solvent and oiled with SAE 30 engine oil during system service.