

# 1982 Crankcase Ventilation

3-7

## CHRYSLER CORP. IMPORTS

Arrow Pickup, Challenger, Champ, Colt,  
Ram-50 Pickup, Sapporo

### DESCRIPTION

Crankcase ventilation system is designed to divert blow-by gases into intake manifold to be burned by engine. System is a closed type and consists of an oil separator (camshaft chain sprocket), positive crankcase ventilation valve and connecting hoses. System supplies fresh air to crankcase through air cleaner.

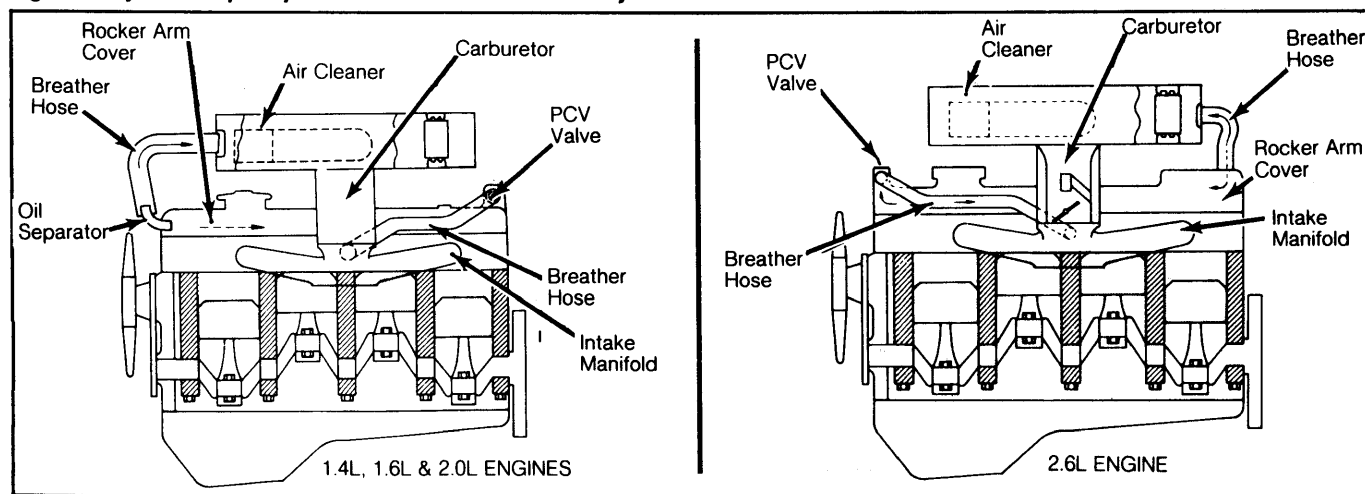
### OPERATION

Under normal driving conditions, fresh air is mixed with blow-by gases (inside crankcase) and passes through PCV valve into intake manifold. Under heavy acceleration or high-speed driving, intake manifold vacuum decreases and blow-by gases exceed PCV valve capacity. The gases are then routed through breather hose into carburetor and burned by the engine.

### MAINTENANCE

Check and clean entire crankcase ventilation system every 5 years/50,000 miles.

Fig. 1: Chrysler Corp. Imports Crankcase Ventilation System



Note direction of blow-by gas and fresh air flow.

## COURIER

### DESCRIPTION & OPERATION

The function of the ventilation system is to divert blow-by gases into the intake manifold to be burned by the engine. The system consists of a positive crankcase ventilation valve and connecting hoses.

The system on 2.3L engines is closed by venting the filler cap to the crankcase. Ventilating air is routed into the rocker cover from the air cleaner, then to the ventilation valve. The valve meters air to the intake manifold.

During idle, when manifold vacuum is high, the valve is pulled closed, limiting air flow to the intake manifold. During normal operation, the valve is open and allows a full flow of ventilating air to flow into intake manifold.

### TESTING

#### PCV VALVE

##### 2.0L Engines

Remove hose from PCV valve. Start engine and run at about 700-1000 RPM. Hold finger over end of valve. A distinct vacuum should be felt. If no vacuum is felt, valve or system is clogged or defective.

#### 2.3L Engines

Remove oil filler cap. Hold PCV tester (V-44 or equivalent) securely over opening in valve cover to prevent leaking. Start engine, operate at idle. If check ball settles in Green (good) area, system is "OK". If check ball settles in Red (bad) area, system requires servicing.

### MAINTENANCE

#### CRANKCASE VENTILATION SYSTEM

Every 15,000 miles or 15 months, inspect all hoses for leaks or deterioration. Test PCV valve for clogging, replace every 30,000 miles or 30 months. Replace components as necessary.

#### CARBURETOR AIR CLEANER ELEMENT

Every 15,000 miles or 15 months, clean filter element. Every 30,000 miles or 30 months, replace element. Perform this maintenance more frequently if vehicle is operated in dusty conditions.