

Crankcase Ventilation

FORD COURIER CLOSED

Ford Courier Pickup

DESCRIPTION & OPERATION

The function of the ventilation system is to divert blow-by vapors into the intake manifold to be burned by the engine. The system consists of a positive crankcase ventilation valve and an oil separator. Ventilating air is routed into the rocker cover from the air cleaner. The air then is routed to the oil separator, and 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 the intake manifold.

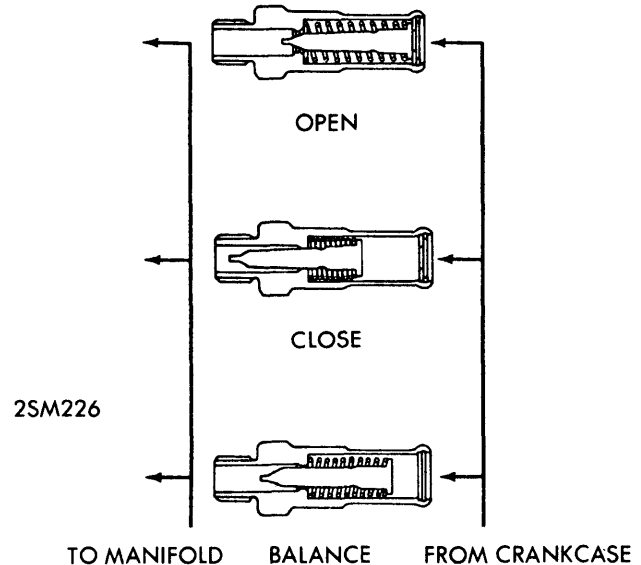
TESTING

Positive Crankcase Ventilation Valve — Remove hose from valve and start engine. Run engine at about 2000 RPM. Hold a finger over the end of the valve. A distinct vacuum should be felt. Release the accelerator pedal suddenly. When pedal is released, little or no vacuum should be felt.

MAINTENANCE

Crankcase Ventilation Valve — Replace valve every 12,000 miles and check that hoses are in good condition. Check complete system to insure proper operation.

Carburetor Air Cleaner — Replace carburetor air cleaner filter element every 12,000 miles.



CRANKCASE VENTILATION VALVE OPERATION

PLYMOUTH CRICKET CLOSED

Plymouth Cricket (1971-72)

DESCRIPTION

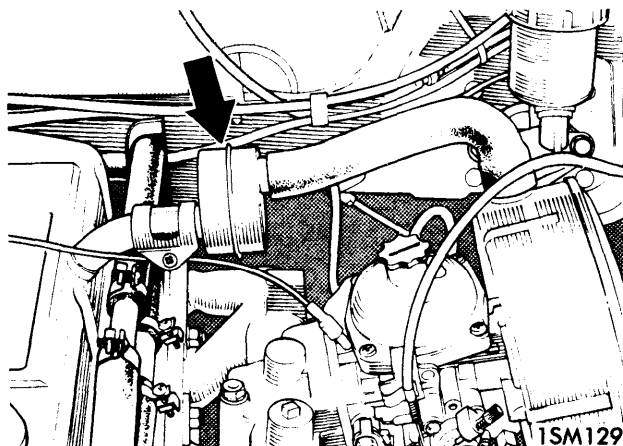
A closed crankcase emission control system is used to prevent engine crankcase fumes and vapors from entering the atmosphere. The system consists of a flame trap which is attached to the engine valve rocker cover by a metal pipe, and an oil resistant rubber hose which connects the flame trap to the engine air cleaner.

OPERATION

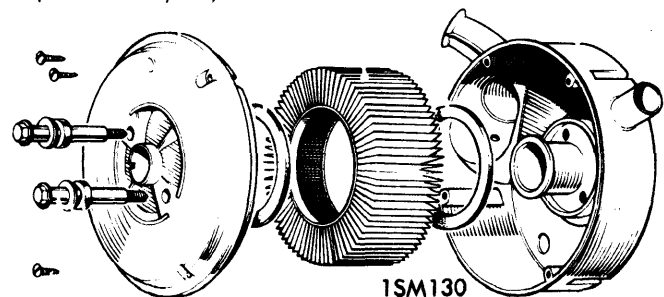
As fumes and vapors form in the engine crankcase they are drawn through the metal pipe into the flame trap. The fumes then pass through the flame trap and are drawn through a rubber hose into the engine air cleaner. The fumes are mixed with incoming air and drawn through the air cleaner and into the carburetor, and then into the combustion chambers to be burned.

MAINTENANCE

To enable system to function properly, the recommended service procedures and intervals should be followed. The metal pipe and the flame trap should be removed from the valve rocker cover and cleaned in a suitable cleaning solvent every 5,000 miles or 5 months. The rubber hose should also be cleaned of any sludge accumulation every 5,000 miles or 5 months. The engine air cleaner should be replaced every 10,000 miles.



CRANKCASE EMISSION CONTROL SYSTEM



AIR CLEANER FILTER & HOUSING