PLYMOUTH CRICKET

Plymouth Cricket (1971-72)

DESCRIPTION

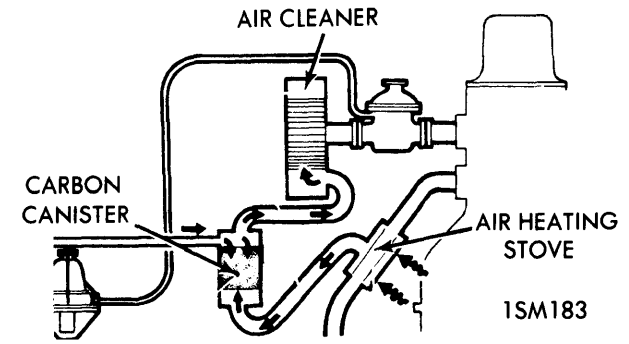
The system prevents gasoline vapors from escaping to atmosphere from fuel tank. This is accomplished by routing these vapors to a charcoal canister for temporary storage. The system consists of the following components:

Fuel Tank – Incorporates a non-vented filler cap that seals the tank filler neck to the atmosphere. Tank is equipped with an inner chamber to prevent overfilling of fuel tank and to ensure that an air space always exists above the fuel level.

Separator – Located above the forward end of the fuel tank, separator is connected by fuel vapor pipes to each of the four corners of the fuel tank. This allows at least one of the pipes to be above fuel level at all times. Separator also allows condensed fuel vapor to return to fuel tank.

Vapor Escape & Vent Pipe – Allows fuel vapors to escape to canister when fuel vapor is generated in sufficient quantity to require venting from tank. The pipe has a .060" diameter orifice at its upper end (inside separator) to aid in fuel liquids separation. Pipe also prevents a vacuum from occuring above fuel as fuel level lowers.

Carbon Canister – Contains carbon granules that can adsorb fuel vapors which are vented through pipe from the fuel tank. Carbon canister is connected to intake side of air cleaner by a hose. There are also connecting pipes to the canister from the vent outlet of the carburetor float chamber.



EVAPORATIVE EMISSION CONTROL SYSTEM SCHEMATIC

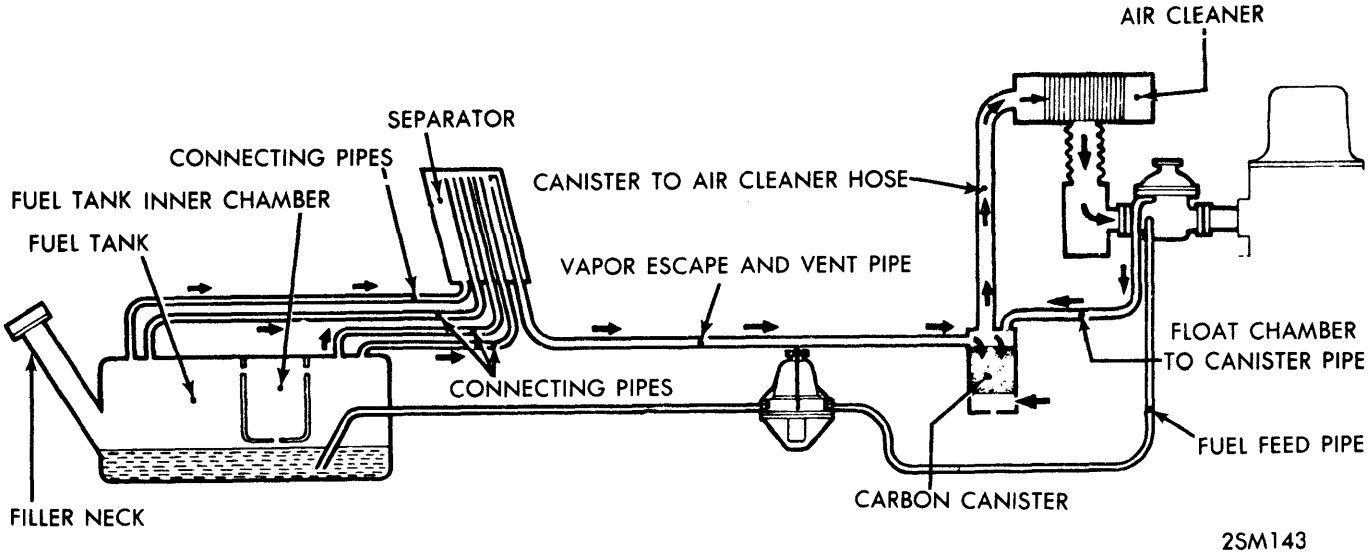
OPERATION

Vehicle Not Running – Fuel vapors are discharged into separator and canister through pipes. Because vapors are heavier than air, they collect in canister and are adsorbed by the carbon granules.

When Engine is Running – Air is drawn through the carbon granules and into the air cleaner. The air purges the vapors from the canister and vapor is drawn into the air cleaner, through the carburetor and into the combustion chambers. Any vapors generated in the fuel tank while engine is running are drawn into the intake system.

MAINTENANCE

Inspect all hoses every 5000 miles and replace if deterioration is noted. The carbon canister should be replaced every 50,000 miles. Clean out inside of air cleaner housing every 5000 miles and replace element every 10,000 miles.



EVAPORATIVE EMISSION CONTROL SYSTEM (TWIN CARBURETOR)