CHRYSLER CORP. EVAPORATION CONTROL SYSTEM

DESCRIPTION

The purpose of the Evaporation Control System is to prevent the emissions of gasoline vapors from the fuel tank and carburetor into the atmosphere. When fuel evaporates in the carburetor float chamber or fuel tank, the vapors pass through vent hoses or tubes to a charcoal canister. They are stored here until drawn into the intake manifold after engine begins to run. See. *Figs. 1 and 2.*

OPERATION

Carburetor Fuel Bowl – The fuel bowls on all carburetors are vented internally and on some models do not require venting to the canister. In this case the bowl vent port on the canister will be capped. Most carburetors are also externally vented to the charcoal canister.

Rollover/Vapor Separator – All models are equipped with a rollover-vapor separator valve to prevent fuel leakage if vehicle is accidentally rolled over. This valve is located in top of fuel tank.

Charcoal Canister - Open canister is used on all models except 3.7L and 5.2L engines which used a sealed canister. Fuel vapors from fuel tank are stored in activated charcoal while engine is not operating. When engine is running, vapor is purged from charcoal canister into engine where it is burned with air/fuel mixture.

Fuel Tank Filler Cap – Relief valves in gas cap operate to prevent excessive pressure or vacuum in tank caused by system malfunction or damage. The proper replacement cap must be used if original is lost or damaged.

CAUTION – *Remove filler cap prior to removing or repairing fuel lines.*

MAINTENANCE

Evaporation Control System - The only service required is to check the filter located in bottom of canister every 30,000 miles. Replacement is only required if vehicle is driven frequently in dusty areas or filter is dirty or clogged. All hoses should be inspected periodically and replaced if cracked or leaking.

NOTE – *If system hose replacement is necessary, use only fuel-resistant hose.*

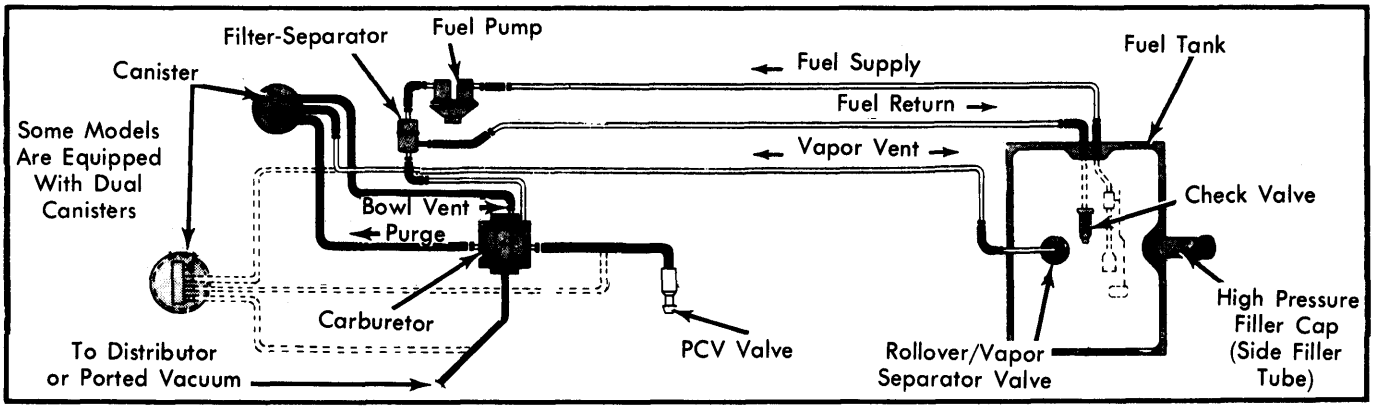

Fig. 1 Evaporation Control System for All Rear Wheel Drive Models and Front Wheel Drive Models with 2.2L Engine

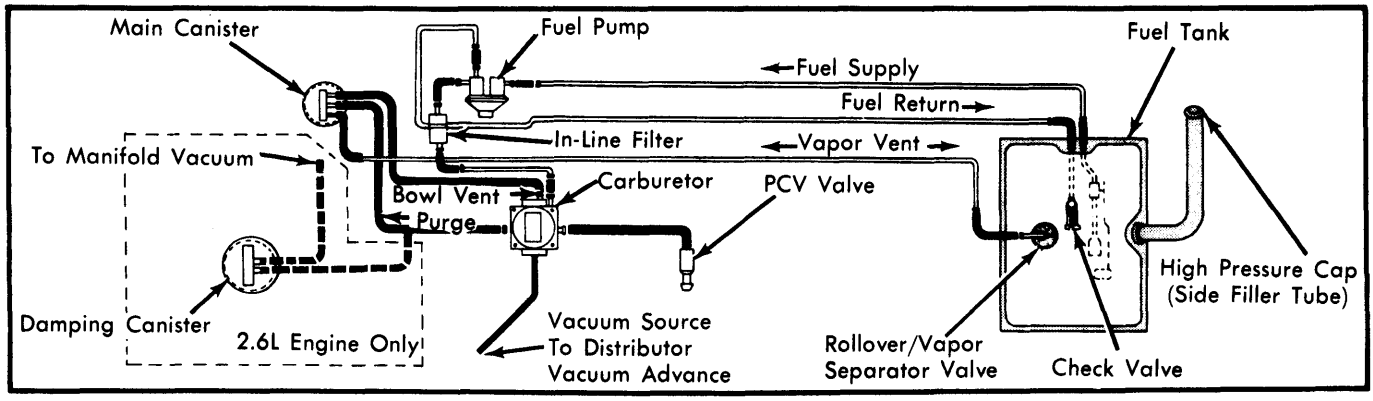

Fig. 2 Evaporation Control System for Front Wheel Drive Models with 1.7L or 2.6L Engines