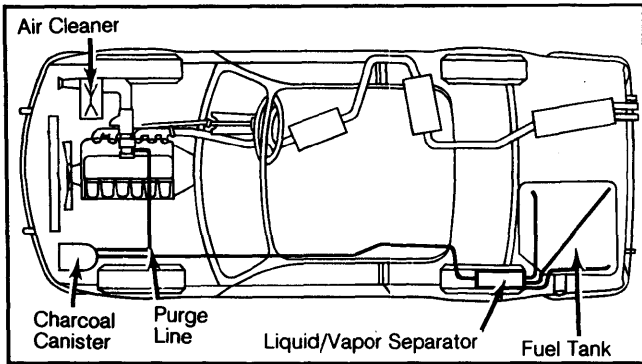


1982 Fuel Evaporation Systems

BMW (Cont.)

Fig. 3: 733i Fuel Evaporation System



MAINTENANCE

The fuel evaporation system is maintenance free, but hose connections and fuel cap should be checked every 15,000 miles.

CHRYSLER CORP. IMPORTS

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

DESCRIPTION

The fuel evaporation system is used to prevent the escape of evaporative gases into the atmosphere. The system consists of a special fuel tank, vacuum relief filler cap, vapor separator, 2-way valve, fuel check valve, charcoal canister(s), purge control valve, carburetor bowl vent valve, carbon element and tubes and hoses to connect the system.

OPERATION

WHEN ENGINE IS RUNNING

Fuel vapors adsorbed in the canister(s) are drawn into the intake manifold through the purge control

valve and an orifice. Fuel vapors adsorbed in the carbon element are led into the carburetor and carburetor bowl vapors flow into the carburetor through bowl vent valve.

WHEN ENGINE IS NOT RUNNING

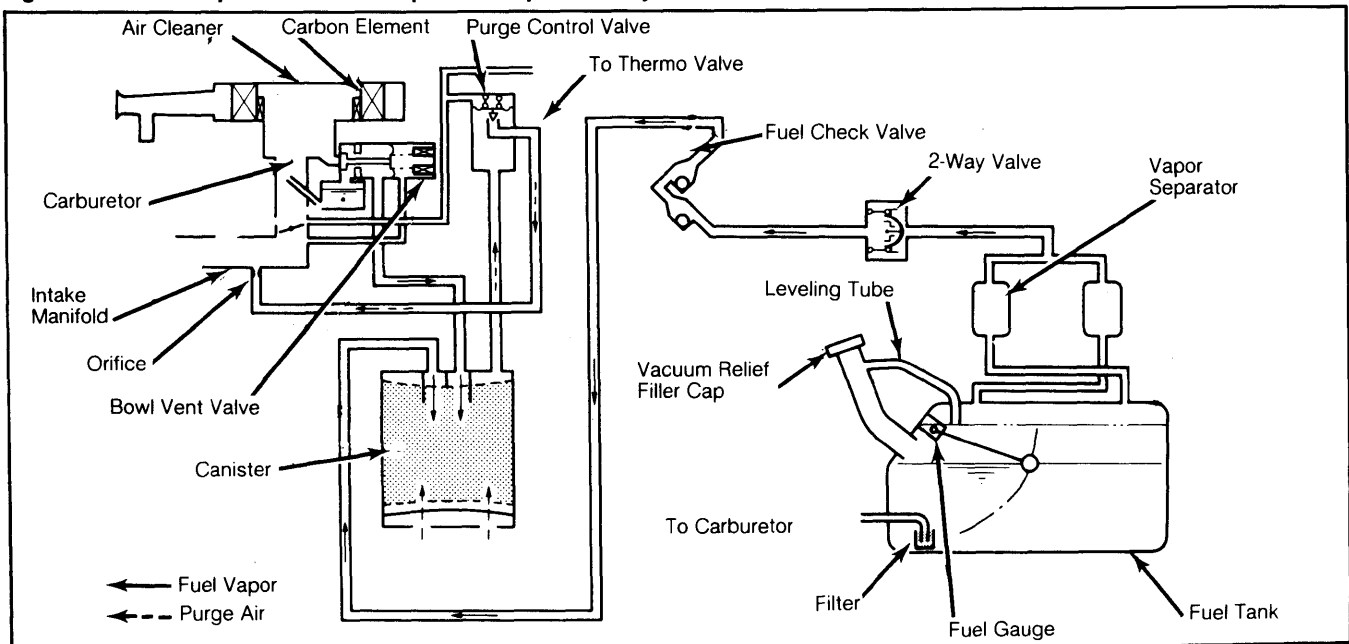
Fuel vapors generated inside the fuel tank and the carburetor float chamber flow into the charcoal canister(s) and are stored there. Fuel vapors generated inside the carburetor and intake manifold are adsorbed into the carbon element of the air cleaner.

TESTING

PURGE CONTROL VALVE

With engine stopped, remove purge hose from air cleaner and blow air into it. No air should pass through purge valve. Start engine and hold at 2000 RPM. Air should pass freely through purge valve. Replace valve if it does not respond as specified.

Fig. 1: Arrow Pickup & Ram-50 Pickup Fuel Evaporation System



Note direction of fuel vapor and purge air flow.

CHRYSLER CORP. IMPORTS (Cont.)

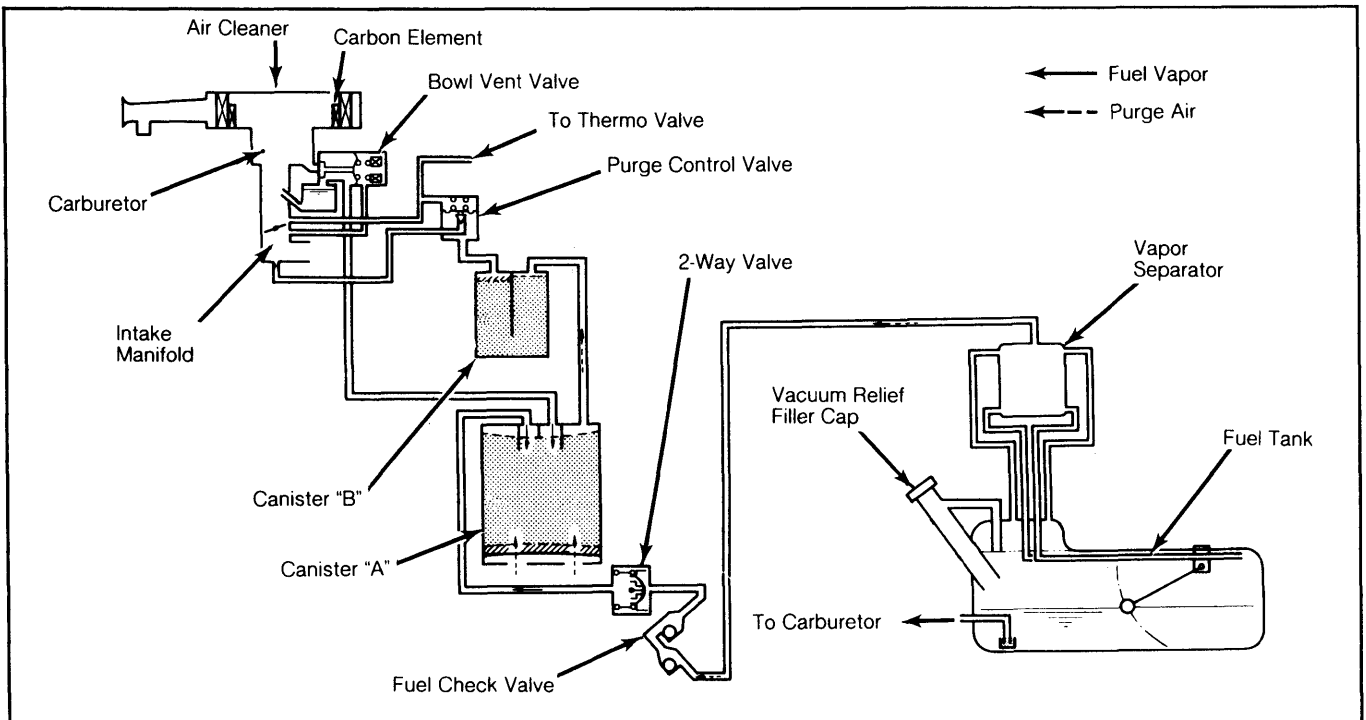
2-WAY VALVE

Remove valve and blow lightly through both inlet and outlet. If air passes with light resistance in both directions, valve is good.

MAINTENANCE

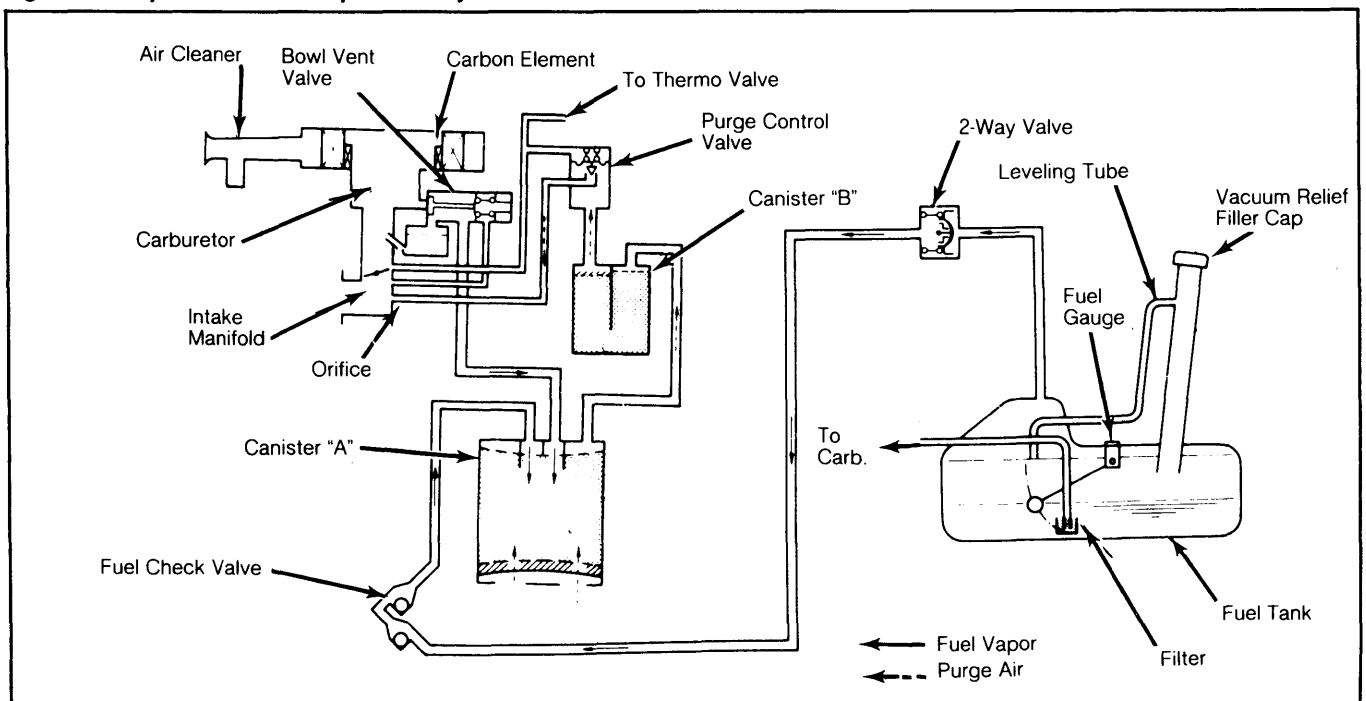
Every 12 months or 15,000 miles, check fuel vapor vent line by blowing through line with compressed air. Also inspect and test valves and clean charcoal canister cover air suction port. Every 5 years or 50,000 miles, replace all vapor lines and charcoal canister(s).

Fig. 2: Challenger & Sapporo Fuel Evaporation System



Note direction of fuel vapor and purge air flow.

Fig. 3: Champ & Colt Fuel Evaporation System



Note that Champ and Colt models do not have a vapor separator.