

1982 Fuel Evaporation Systems

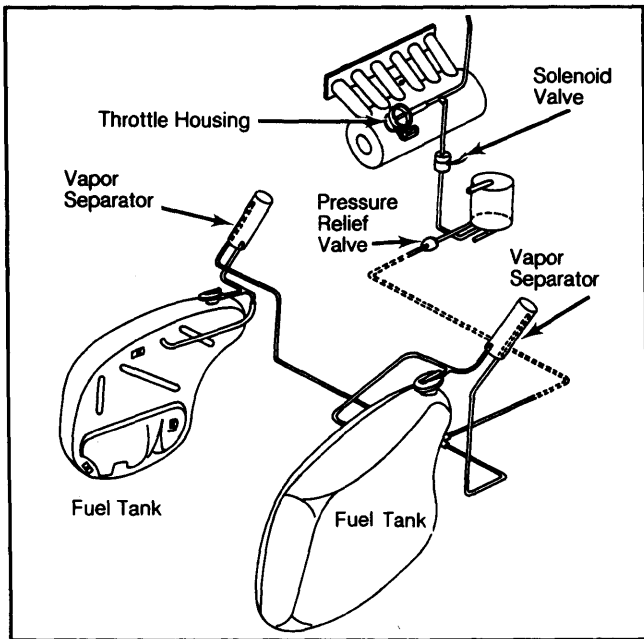
JAGUAR

XJ6, XJ12

DESCRIPTION

The fuel evaporation system is designed to keep fuel vapors from escaping the crankcase and fuel tank. The system consists of a fuel tank (2 on XJ6) with expansion space, vapor separators, orifice at fuel filter cap, pressure relief valve, canister and connecting pipes.

Fig. 1: Jaguar XJ6 Fuel Evaporation System

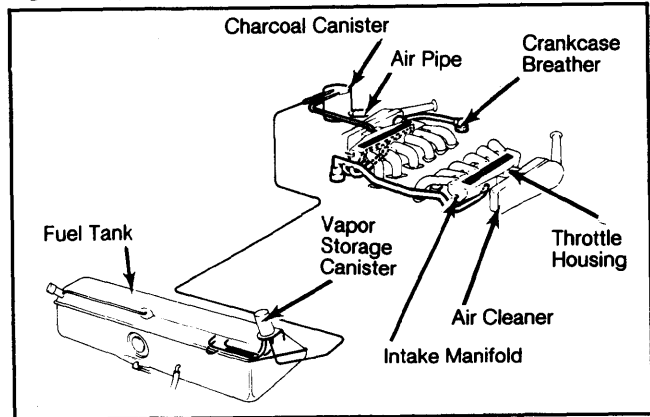


OPERATION

Fuel vapors in the tank build-up until they exceed the pre-set limit of the pressure relief valve, then are vented to canister for storage. The relief valve also allows air to enter the tank, replacing fuel drawn out during engine operation.

When the engine is warming up, the purge hose is shut off by an energized solenoid valve. After engine coolant temperature exceeds 113°F (45°C), the valve opens since current no longer passes through a thermal switch (also part of air injection system on Federal models).

Fig. 2: Jaguar XJ12 Fuel Evaporation System



MAINTENANCE

Every 12,500 miles, check all lines and connections for chafing, leakage or deterioration. Check fuel cap seal. At 50,000 miles, replace charcoal canisters.

MAZDA PISTON ENGINE

B2000, GLC, 626

DESCRIPTION

Fuel Evaporation system prevents escape of raw fuel vapors to atmosphere. A special fuel tank with integral vapor separator is installed on FWD GLC and 626 models. GLC Station Wagon models are equipped with a fuel tank with external vapor separator. B2000 models are equipped with a vapor valve instead of a vapor separator.

Additional components of system include a check and cut valve (except B2000), an air vent solenoid valve (except B2000), 2 purge control valves (1 on B2000), a charcoal canister, a water thermo valve and connecting lines and hoses. A vacuum controlled evaporative shutter valve is installed on B2000 and GLC Station Wagon.

OPERATION

When engine is not running, fuel vapors from fuel tank flow to carbon canister for storage. Check and cut valves (if equipped) prevent pressure or vacuum from forming in system. On B2000 and GLC Station Wagon,

Fig. 1: Mazda Piston Engine Fuel Evaporation System

