

1981 Fuel Evaporation Systems

SAAB

900
900 Turbo

DESCRIPTION

The Saab fuel evaporation system is designed to prevent fuel vapors from reaching the atmosphere. The system includes a plastic fuel tank, vented filler cap, roll-over valve, pressure valve, charcoal canister and fuel lines.

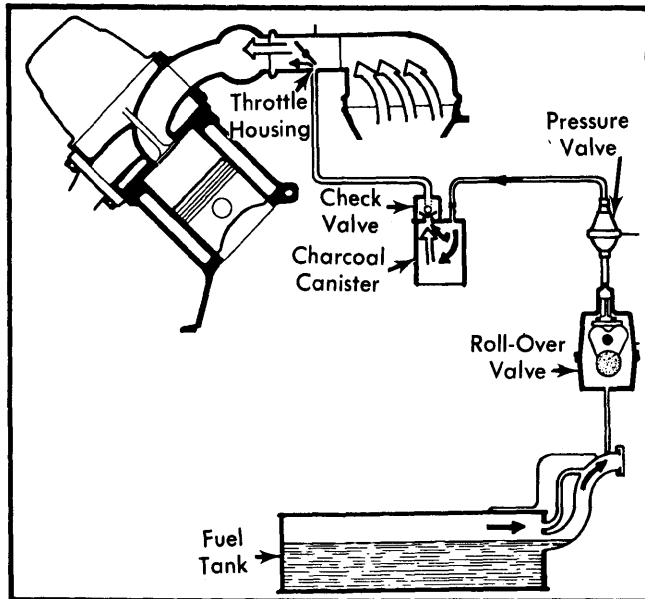


Fig. 1 Saab Fuel Evaporation Control System

OPERATION

When engine is stopped, fuel vapors from fuel tank flow through vapor line into charcoal canister where they are stored. When the engine is running, fresh air drawn through the charcoal canister, creates a vacuum that pulls the stored fuel vapors into the engine.

A roll-over valve in the fuel evaporation line shuts off the line if the car turns over. It is located in the line above the fuel tank. The pressure valve is located in the left rear pillar and maintains a small pressure in the tank to reduce the amount of vapor the canister must store.

The special filler cap contains a pressure valve to let air into the tank if the vent lines become plugged. This prevents tank collapse or engine fuel starvation.

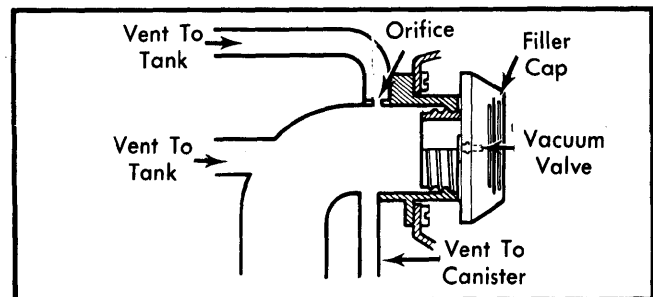


Fig. 2 Saab Fuel Filler Cap

MAINTENANCE

The system should be checked and the charcoal canister replaced at 60,000 miles.