1974-79 EXHAUST EMISSION SYSTEMS
Saab Fuel Evaporation

All Models

DESCRIPTION

The Evaporation Loss Control Device (ELCD)/fuel evaporation system, along with sealed fuel filler cap, is used to prevent the escape of fuel vapors into the atmosphere. The ELCD system consists of charcoal canister, airflow sensor, roll over valve, pressure valve, and lines connecting the various components.

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.

The roll-over valve, located in the trunk or in the rear left corner pillar, shuts off the fuel ventilation hose, preventing escape of fuel in the event of an accident.

The pressure valve, located in the ventilation hose between filler pipe and charcoal canister, serves to equalize fuel tank pressure and avoid fuel tank collapse.

The fuel tank filler cap contacts a spring loaded valve in the filler neck. Installing the filler cap, opens the valve, allowing fuel vapors to be vented to the charcoal canister when high temperatures cause the fuel to expand.

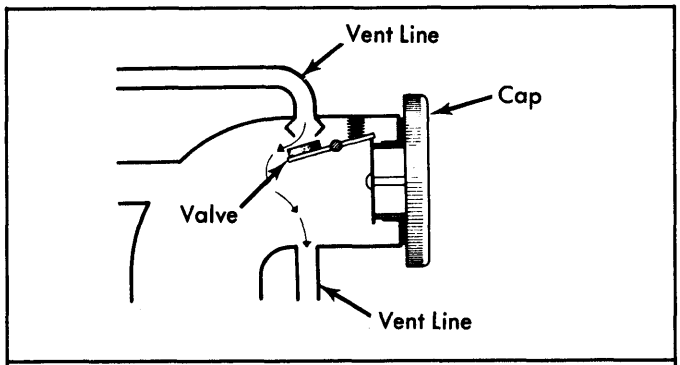

Fig. 2: Fuel Filler Cap & Valve

MAINTENANCE

All components of system should be checked for leakage every 15,000 miles. Replace charcoal canister every 30,000 miles.

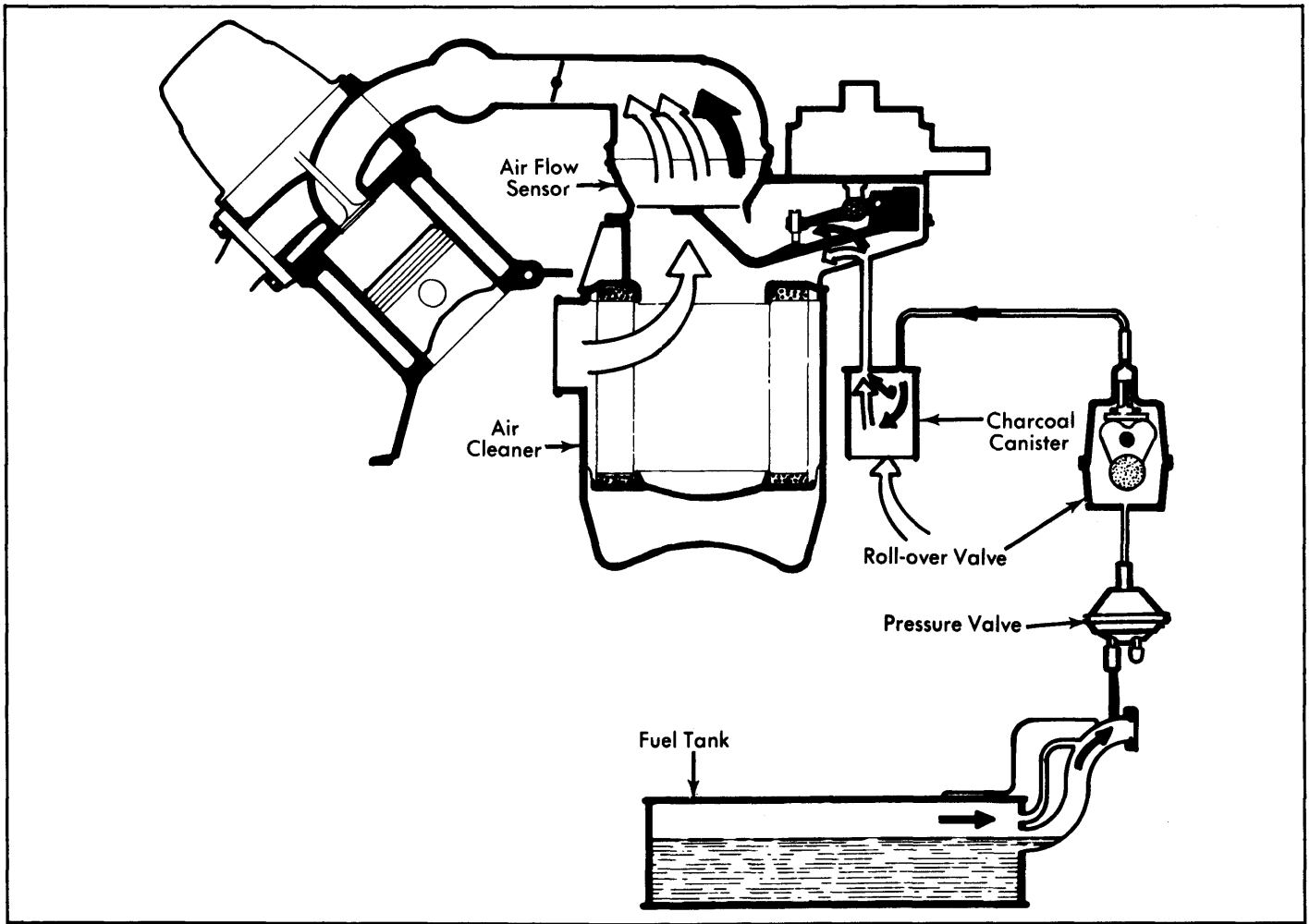

Fig. 1: Evaporation Loss Control Device/Fuel Evaporation System