

1980 Fuel Evaporation Systems

VOLKSWAGEN

All Models

DESCRIPTION

The sealed Volkswagen fuel evaporation system prevents fuel vapors from escaping to the atmosphere through the following controls:

Fuel Tank Venting — An expansion chamber in the fuel tank and vent lines are part of the fuel tank vent system. These components prevent fuel from escaping to the outside at extreme high outside temperatures and when the vehicle is driven or parked at an incline or any other non-level position.

Carbon Canister — Vapors from the fuel tank are trapped in a canister with carbon. This canister is also connected to the fuel tank vent system.

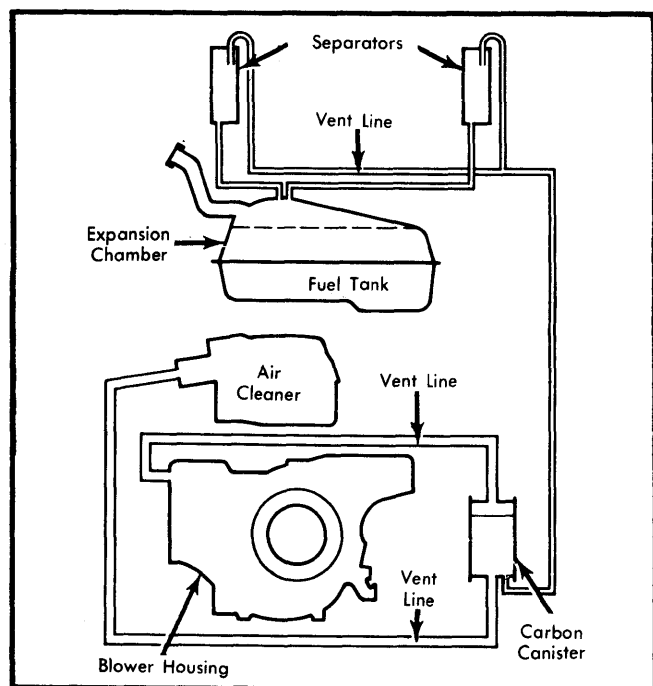


Fig. 1 Vanagon Fuel Evaporation System

OPERATION

Fuel vapors pass through the carbon canister and deposit hydrocarbons on the surface of the carbon. When the engine is running, fresh air entering the canister through an opening cleans the carbon and routes the hydrocarbons via the air cleaner back to the engine where they are burned during normal combustion.

On all fuel injected models, a fuel return line is used to prevent excessive pressure build up at idle speeds.

MAINTENANCE

Every 15,000 miles visually inspect the entire system and correct any deficiencies noted.

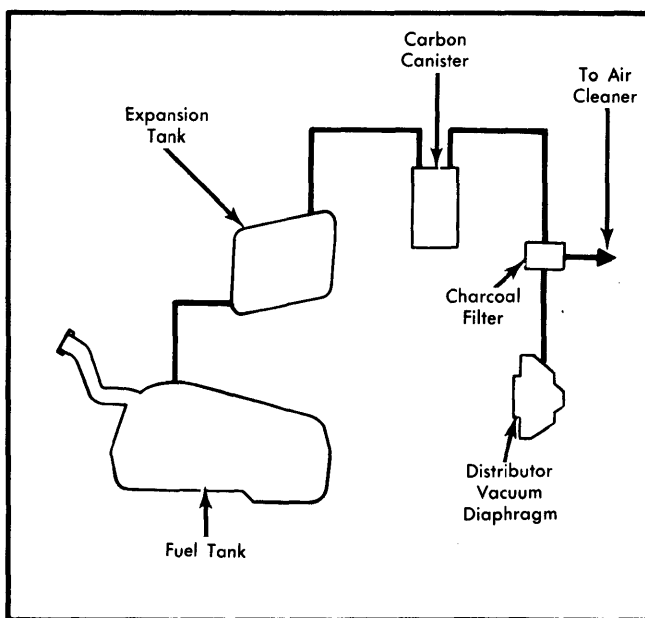


Fig. 2 Evaporation System for All Models (Except Vanagon)