

AUDI

All Gasoline Models

DESCRIPTION

Audi's activated charcoal filter system is designed to prevent fuel vapors from being emitted into the atmosphere. The system consists of a non-vented fuel tank filler cap, an expansion chamber built into fuel tank, an activated charcoal canister, safety valves, an On/Off valve and a series of lines which interconnect the components between fuel tank and air cleaner.

tank by venting action as fuel is used from main tank. When engine is stopped, fuel vapors from fuel tank flow through a vent line to charcoal canister, where they are stored. When engine is running above idle speed, intake vacuum draws fresh air through charcoal canister and pulls stored vapors into the intake system through the air cleaner.

A safety valve, located between fuel tank and charcoal canister, closes to prevent fuel leakage if vehicle rolls over.

An On/Off valve, located between charcoal canister and air cleaner, reduces hydrocarbon (HC) emissions by closing at idle to prevent vaporized fuel from entering air cleaner. Throttle housing vacuum opens valve as engine speed increases.

OPERATION

Expanded fuel, caused by high temperatures, is collected in expansion chamber portion of fuel tank. Fuel is returned to main

MAINTENANCE

Every 15,000 miles check all components for leakage or deterioration. Replace as required.

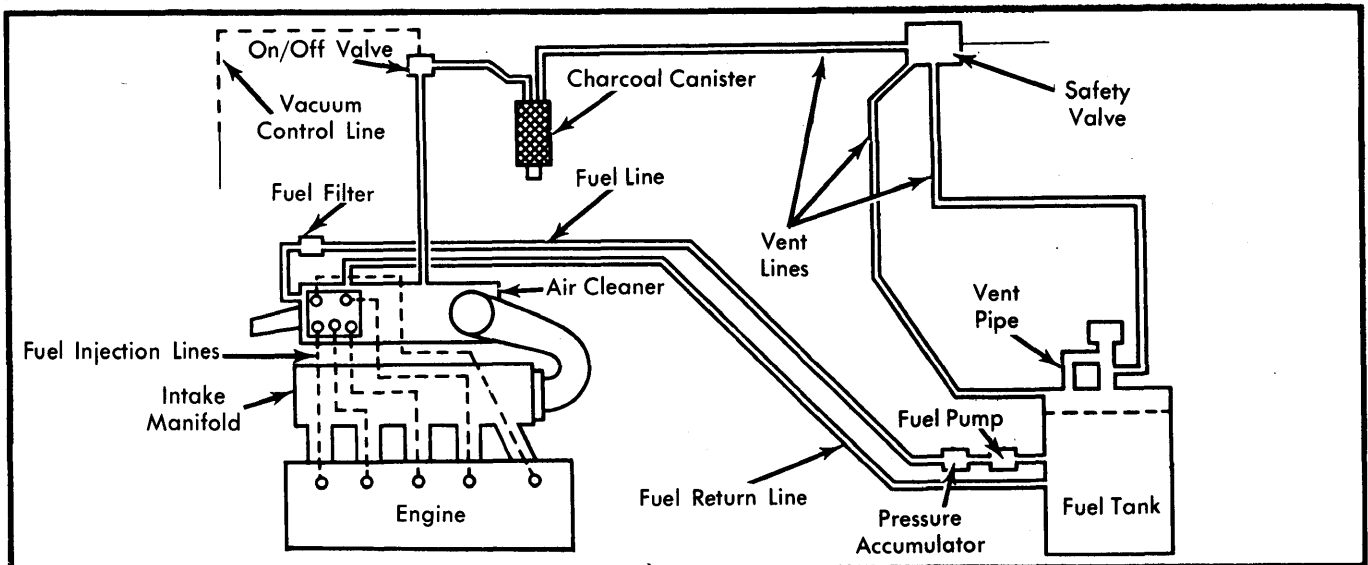


Fig. 1 Audi Gasoline Engine Fuel Evaporation System (5-Cyl. Model Shown, 4-Cyl. Similar)