

1974-79 EXHAUST EMISSION SYSTEMS

Fiat Fuel Evaporation

All Models

DESCRIPTION

The fuel evaporation emission system is designed to prevent the escape of fuel vapors into the atmosphere. The system consists of a limited filling fuel tank with positive sealing filler cap, vapor-liquid separator(s), charcoal canister, and one, two, or three-way valves.

OPERATION

Fuel vapors are conveyed through the system to charcoal canister, where they are absorbed by activated charcoal. During engine operation the vapors are drawn from canister and into engine.

The three-way valve is used to slightly pressurize the tank, provide an air inlet to the tank, preventing any possible vacuum. The valve also acts as a safety exhaust to prevent tank overpressure.

The two-way valve provides an air inlet to the fuel tank and acts as a safety valve to prevent tank overpressure. The one-way valves control the direction of fuel flow. The check valves are in the system to prevent fuel leakage in the event of an accident.

MAINTENANCE

Check all components for leakage every 15,000 miles and replace as required. Every 25,000 miles, replace activated carbon trap.

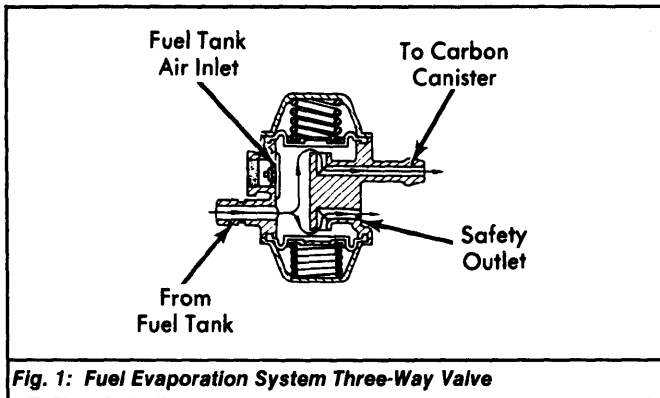


Fig. 1: Fuel Evaporation System Three-Way Valve

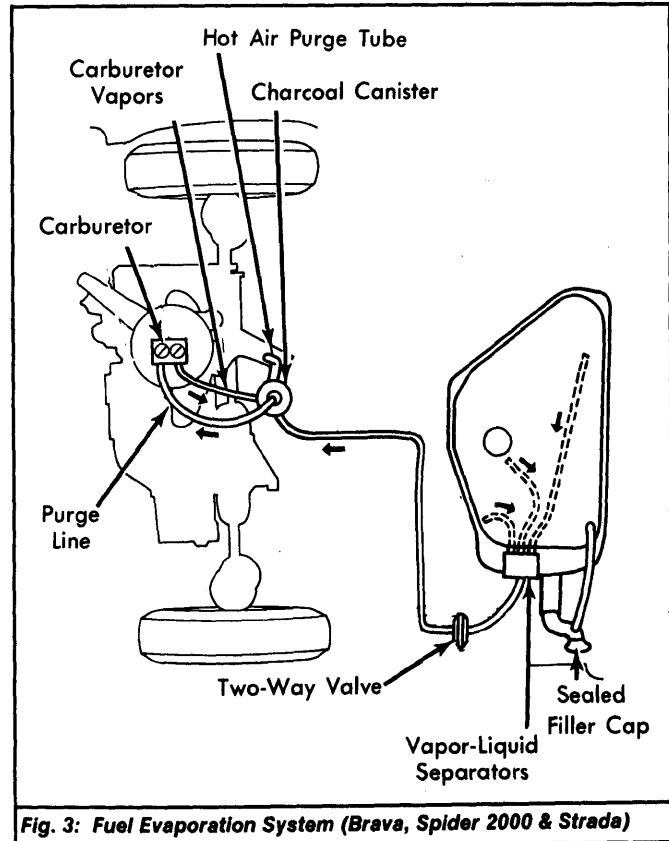


Fig. 3: Fuel Evaporation System (Brava, Spider 2000 & Strada)

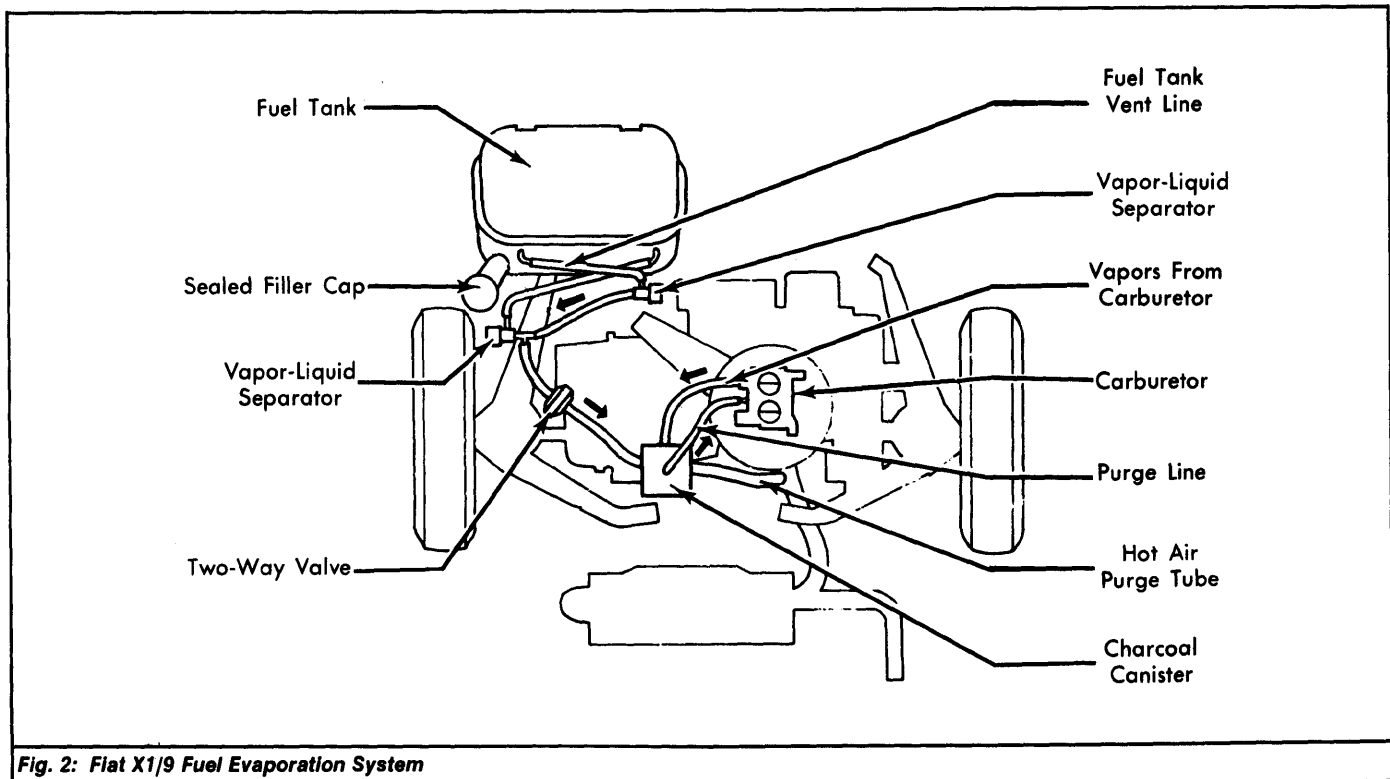


Fig. 2: Fiat X1/9 Fuel Evaporation System

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Fiat Fuel Evaporation (Cont.)

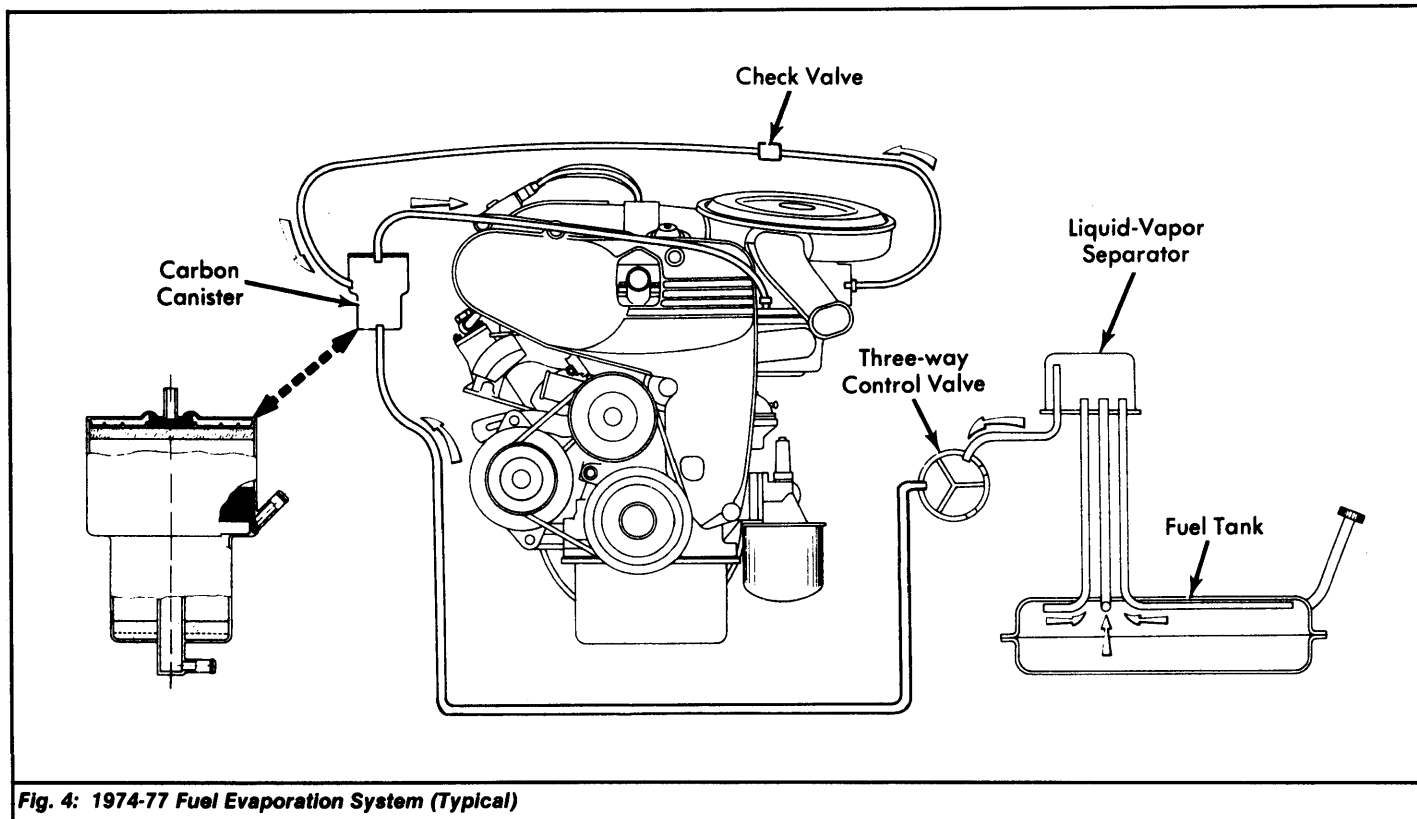


Fig. 4: 1974-77 Fuel Evaporation System (Typical)