# 1974-79 EXHAUST EMISSION SYSTEMS
# Porsche Fuel Evaporation

## All Models

## DESCRIPTION

Fuel evaporation system is designed to prevent fuel vapors from being emitted into the atmosphere. System consists of a non-vented fuel tank filler cap, an expansion chamber, an activated charcoal canister, and a series of vent lines which interconnect the components between the fuel tank and air cleaner. On air-cooled models, a pressure line, used to purge the system, is connected between the engine blower assembly and the charcoal canister.

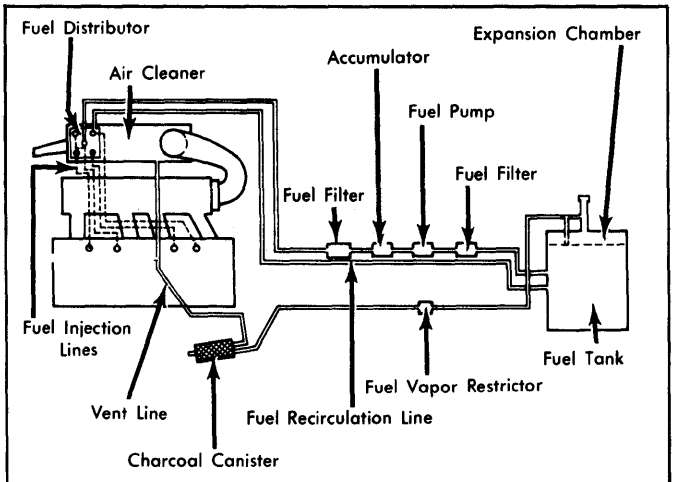


*Fig. 1: 924 Fuel Evaporation System*

## OPERATION

Expanded fuel, caused by high ambient temperatures, is collected in the expansion tank. This fuel is returned to main tank by venting action as fuel is used from main tank.

Fuel vapors produced in fuel tank pass through a vent line to a carbon canister where they are stored in the activated charcoal in the canister. A second vent line connects carbon canister to air cleaner.

When engine is running, intake vacuum draws fresh air through carbon canister. This fresh air mixes with fuel vapors and is drawn into intake system where it enters the combustion chambers and is burned. On air-cooled models fresh air is blown through charcoal canister from blower housing to aid in purging action.

## MAINTENANCE

Every 15,000 miles, check the entire system for leaks, deterioration, or damage.

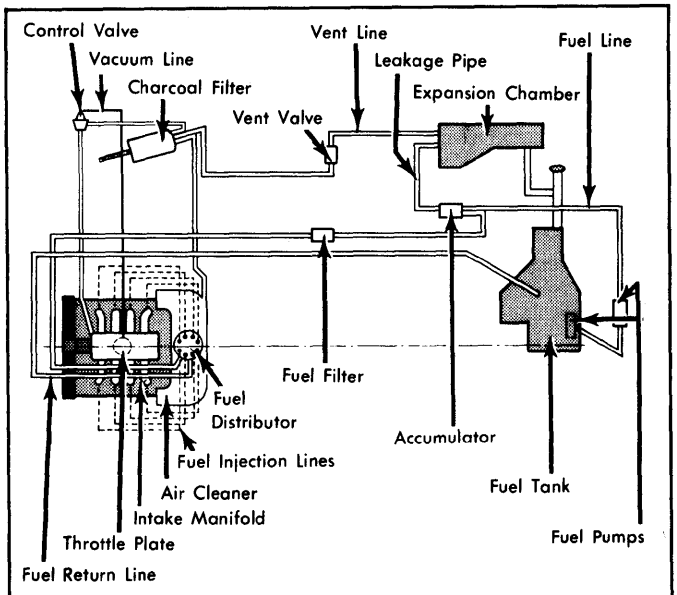


*Fig. 3: 928 Fuel Evaporation System*

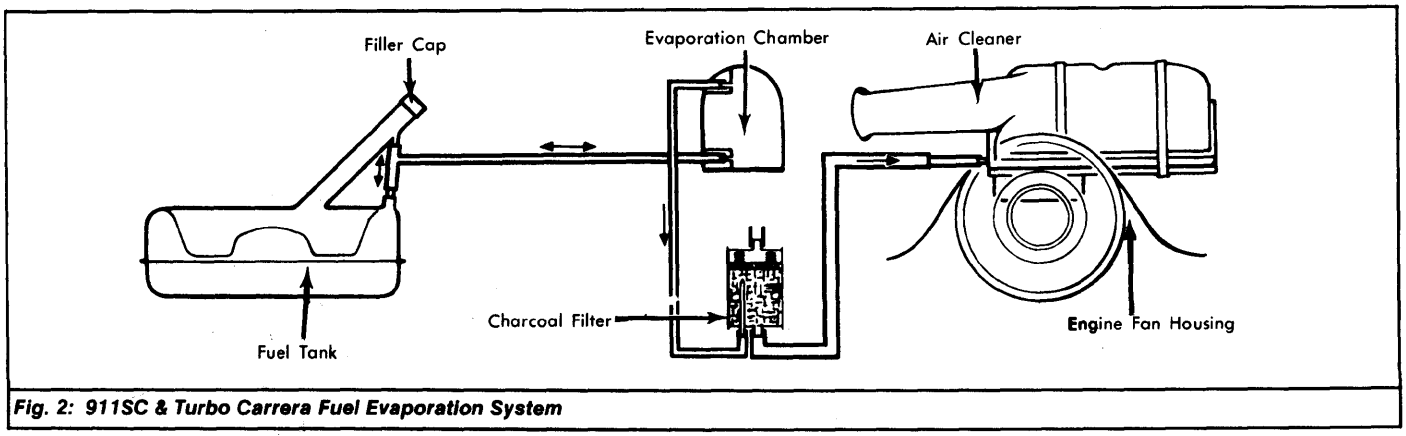


*Fig. 2: 911SC & Turbo Carrera Fuel Evaporation System*