

# 1974-79 EXHAUST EMISSION SYSTEMS

## Pantera Fuel Evaporation

### 1974 All Models

#### DESCRIPTION

A closed system designed to prevent fuel vapors being emitted to the atmosphere, the fuel evaporative emission system consists of a two-way vented filler cap, a specially designed fuel tank, a fuel vapor separator, a carbon filled canister and various fuel vapor vent lines.

#### FUEL TANK FILLER CAP

The cap is sealed with a built-in pressure/vacuum relief valve. Under normal operating conditions, the cap operates as a check valve allowing air to enter tank as gasoline is used while preventing vapors from escaping through the cap.

#### FUEL TANK

Fill limiting is accomplished through filler neck configuration and/or internal vent lines within filler neck and tank. System is designed to permit approximately 10-12 percent air thermal expansion. Tank is also designed to provide a vapor space above fuel level. Area is sufficient to permit adequate breathing space for the vapor separator.

#### VAPOR SEPARATOR

The orifice vapor separator assembly mounts directly to fuel tank using same type cam-lock ring as fuel sending unit. Separator assembly is filled with a foam material that acts as a multiple baffle system to separate raw fuel and vapor and eliminate raw fuel entering vapor line.

#### CARBON CANISTER

Fuel tank vent line (from vapor separator) is connected to a canister filled with activated carbon located in engine compartment.

#### OPERATION

Fuel vapors trapped in sealed fuel tank are vented through the orifice vapor separator assembly in top of tank. Vapors leave separator assembly through a single vapor line and continue to carbon canister (in engine compartment) where they are absorbed by activated carbon until such time as they are purged to engine by means of a hose connected to air cleaner.

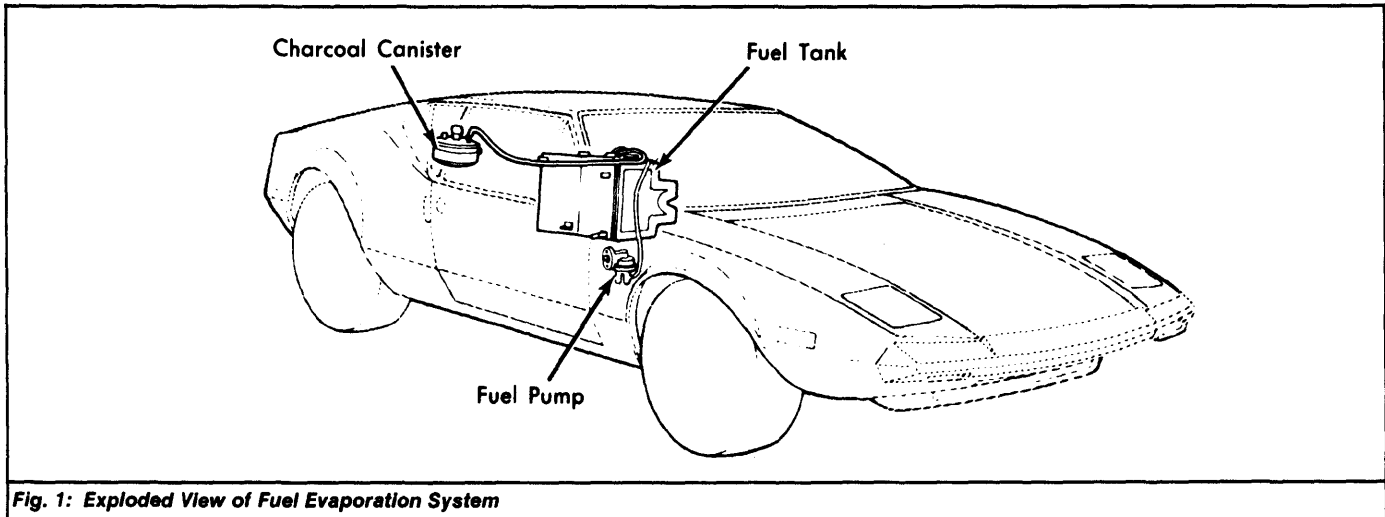


Fig. 1: Exploded View of Fuel Evaporation System