

SECTION 03-13 Evaporative Emissions

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VEHICLE APPLICATION

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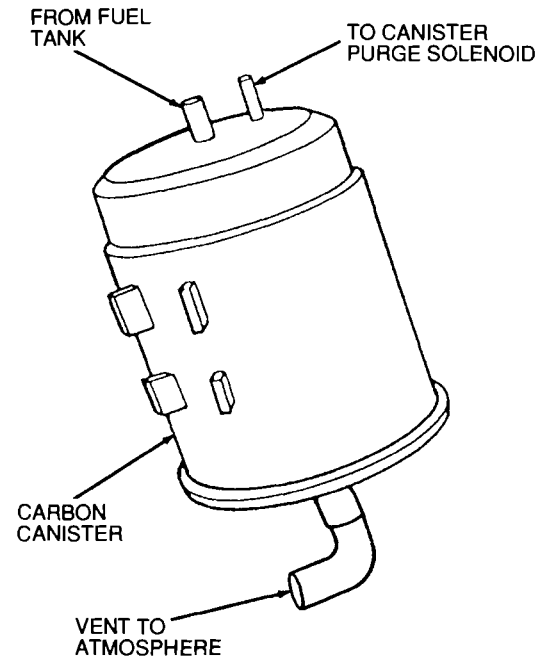
DESCRIPTION

The evaporative emission control (EVAP) system prevents the escape of fuel vapors to the atmosphere under hot soak and engine off conditions by storing vapors in a carbon canister. The fuel vapor is stored in the canister until it is drawn into the intake plenum and burned when the engine is started. The system is controlled by the powertrain control module (PCM) (12A650), which operates the purge solenoid based on input signals from the water thermo sensor, the air flow sensor and the engine speed sensor (ignition coil).

This system consists of the charcoal canister, canister purge solenoid valve, two-way check valve and control system.

Carbon Canister

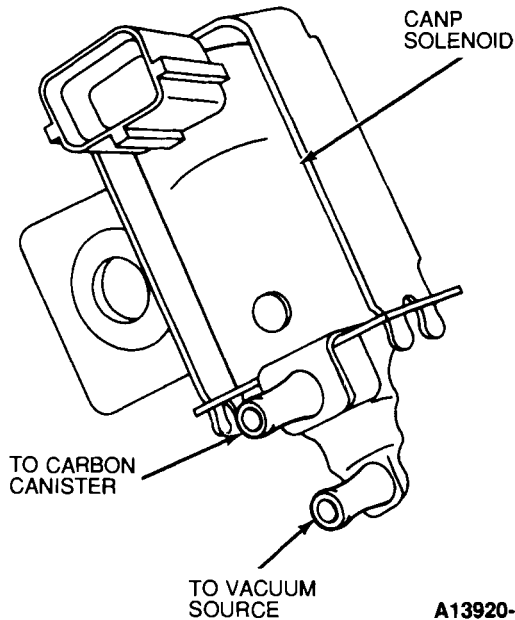
The carbon canister stores fuel vapors from the fuel tank. The PCM operates the canister purge solenoid valve to purge the vapors from the canister during vehicle operation. The canister is mounted on the RH side of the dash panel in the engine compartment.



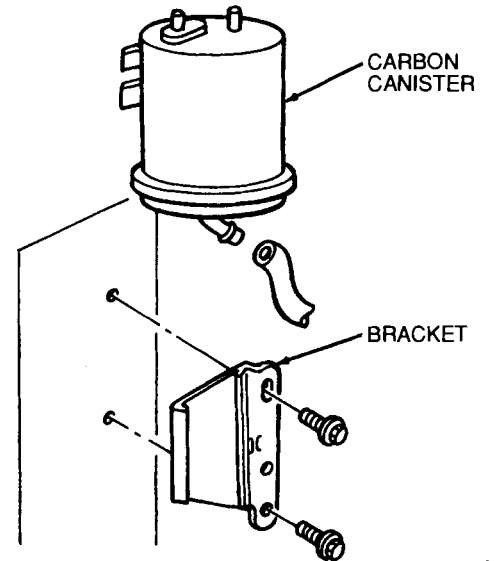
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DESCRIPTION (Continued)**Canister Purge Solenoid Valve**

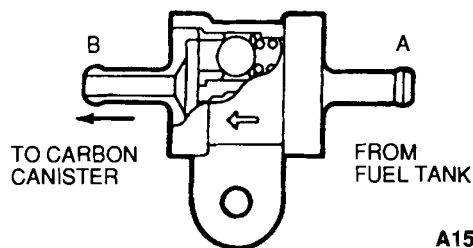
The canister purge (CANP) solenoid valve regulates the amount of evaporative vapors drawn from the carbon canister into the engine. The CANP solenoid valve is controlled by the PCM and opens a passage between the carbon canister and the intake manifold. The valve is mounted on the center of the dash panel in the engine compartment.

**REMOVAL AND INSTALLATION****Carbon Canister****Removal and Installation**

1. Open hood.
2. Disconnect vacuum hoses.
3. Lift canister from bracket.
4. To install, reverse Removal procedure.

**Two-Way Check Valve**

The two-way check valve is designed to equalize the vapor pressure in the system between the fuel tank and the carbon canister.

**Two-Way Check Valve****Removal and Installation**

1. Raise vehicle on a hoist. Refer to Section 00-02.
2. Remove one 10mm nut from retaining bracket at LH rear lip of the fuel tank.
3. Disconnect inlet and outlet hoses from two-way valve.
4. Remove one 10mm bolt from two-way check valve and remove bracket.

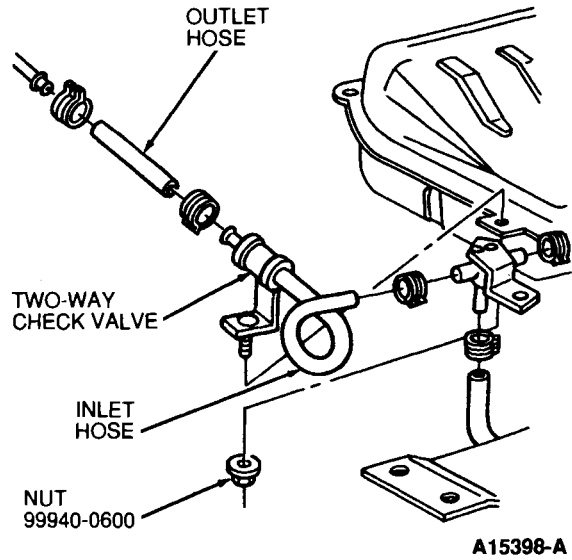
DIAGNOSIS AND TESTING

For diagnosis and testing procedures, refer to Section 11B in the Powertrain Control / Emissions Diagnosis Manual¹.

¹ Can be purchased as a separate item.

REMOVAL AND INSTALLATION (Continued)

5. To install, reverse Removal procedure.

**Canister Purge Solenoid Valve****Removal and Installation**

1. Open hood.
2. Disconnect electrical connector.
3. Disconnect vacuum lines at solenoid.
4. Remove retaining bolts at bracket.
5. Remove nut retaining solenoid to bracket.
6. To install, reverse Removal procedure.

