

A5 EVAPORATIVE EMISSION VALVE INSPECTION

- Remove fuel tank.
- Remove evaporative emission valve.
- Inspect evaporative emission valve for open air passage through orifice.

Is air passage open?

Yes	No
INSTALL evaporative emission valve in fuel tank. INSTALL fuel tank. System test complete.	REPLACE evaporative emission valve. VERIFY service.

A6 FLOW TEST (FUEL TANK FILLER CAP INSTALLED)

⚠ CAUTION: Do not use other high pressure air supplies. This will result in damage to evaporative emissions canister.

- Install Rotunda Vacuum Tester 021-00014 or equivalent in evaporative emission hose at test point B1.
- Hand pump to a maximum of 17.2 kPa (2.5 psi).

Does pressure drop to zero immediately?

Yes	No
Canister system flow OK. GO to A2 .	PERFORM Pinpoint Test Step A3 .

A7 FLOW TEST (FUEL TANK FILLER CAP REMOVED)

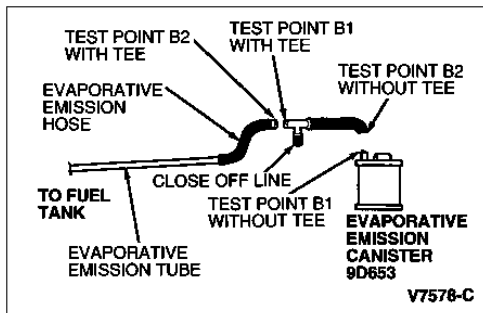
⚠ CAUTION: Failure to remove fuel cap may result in damage to fuel tank.

- Remove fuel tank filler cap from fuel tank filler pipe.

⚠ CAUTION: Do not use other high-pressure air supplies. Damage to fuel tank may result.

- Install Rotunda Vacuum Tester 021-00014 or equivalent onto tee or evaporative emission canister nipple at test point B2.
- Hand pump to a maximum of 6.9 kPa (1.0 psi).

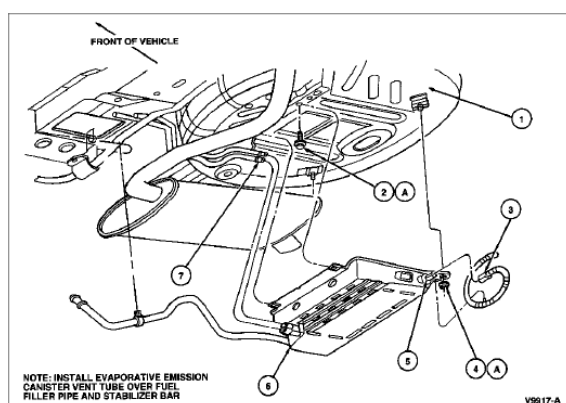
Does pressure drop to zero immediately?



Yes	No
System OK, no servicing required.	PERFORM Pinpoint Test Step A4 .

Evaporative Emission Canister**Removal and Installation**

1. Raise vehicle on hoist. Refer to Section 00-02 .
2. Disconnect the evaporative emission canister vent tube from the secondary vent hose at fuel filler neck.
3. Disconnect electrical connector from the evaporative emission canister vent solenoid.
4. Remove evaporative emission canister retaining bolts and nuts.
5. Partially lower evaporative emissions canister (EVAP canister) (9D653) and disconnect fuel tank vent tube (9A228) from evaporative emissions canister.
6. To install, reverse Removal procedure. Tighten evaporative emission canister retaining bolts and nuts to 5.2-7.2 Nm (46-63 lb-in). Perform system leak check as follows:
 - a. Disconnect and plug fuel and vapor return tube (9J279) leading to the evaporative emissions canister at the evaporative emission canister purge valve (EVAP canister purge valve) (9C915).
 - b. Plug evaporative emission tube (9K313) at the evaporative emissions canister.
 - c. Using Rotunda Fuel Tank Leak Tester 134-R0003, pressurize the fuel system through the test fuel tank filler cap.
 - d. Verify that the pressure within the system does not decay.
 - e. If pressure does decay, determine the cause of the leak, then repair.
 - f. Remove plugs and reconnect fuel and vapor return tube to the evaporative emission canister purge valve and evaporative emission tube to the evaporative emissions canister.

Evaporative Emission Canister

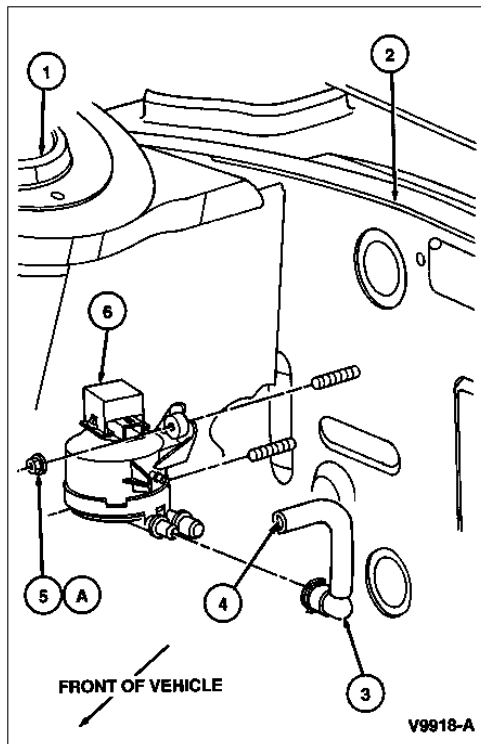
Item	Part Number	Description
1	11215	Rear Floor Pan
2	N605890-S309	Bolt (2 Req'd)

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3	⌘	Evaporative Emission Canister Vent Solenoid Connector
4	N621906-S309	Nut (2 Req'd)
5	⌘	Evaporative Emission Canister Vent Solenoid
6	9D653	Evaporative Emissions Canister
7	9A228	Fuel Tank Vent Tube
A	⌘	Tighten to 5.2-7.2 Nm (46-63 Lb-In)

Evaporative Emission Return Tube**Removal and Installation**

1. Disconnect evaporative emission return tube (9G271) from the evaporative emission canister purge valve (EVAP canister purge valve) (9C915).
2. Disconnect evaporative emission return tube from the vacuum fitting on the upper intake manifold (9424) and remove the evaporative emission return tube from vehicle.
3. To install, reverse Removal procedures. Perform system leak check as follows:
 - a. Disconnect and plug evaporative emission return tube leading to the upper intake manifold at the upper intake manifold vacuum fitting.
 - b. Plug evaporative emission tube (9K313) at the evaporative emissions canister (EVAP canister) (9D653).
 - c. Using Rotunda Fuel Tank Leak Tester 134-R0003, pressurize the fuel system through the test fuel tank filler cap.
 - d. Verify that the pressure within the system does not decay.
 - e. If pressure does decay, determine the cause of the leak and then repair.
 - f. Remove plugs and reconnect evaporative emission return tube to the upper intake manifold and the evaporative emission tube to the evaporative emissions canister.



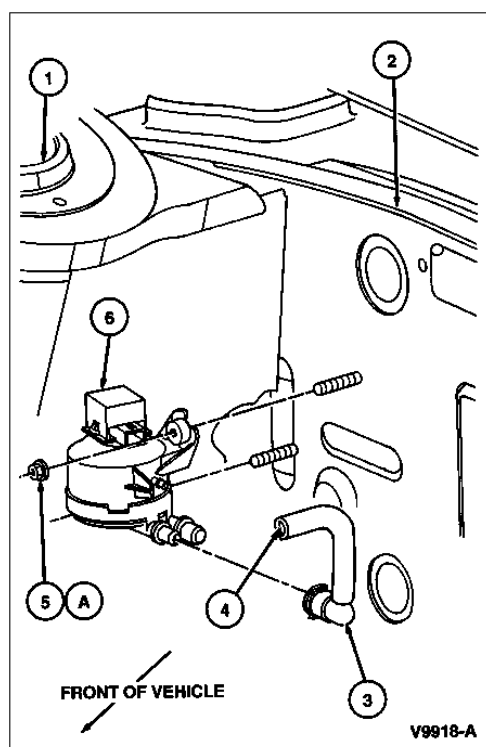
Item	Part Number	Description
1	16054	RH Front Fender Apron
2	01610	Dash Panel
3	9G271	Evaporative Emission Return Tube

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4	Â	To Upper Intake Manifold (9424)
5	N621905-S36	Nut (2 Req'd)
6	9C915	Evaporative Emission Canister Purge Valve
A	Â	Tighten to 7.6-10.4 Nm (67-92 Lb-In)

Evaporative Emission Canister Purge Valve**Removal and Installation**

1. Disconnect main emission vacuum control connector (9E498) from connector port on evaporative emission canister purge valve (EVAP canister purge valve) (9C915).
2. Disconnect fuel and vapor return tube (9J279) and evaporative emission return tube (9G271) from the evaporative emission canister purge valve.
3. Disconnect the engine control sensor wiring (12A581) from the evaporative emission canister purge valve.
4. Remove evaporative emission canister purge valve retaining nuts and evaporative emission canister purge valve from dash panel (01610).
5. To install, reverse Removal procedure. Tighten evaporative emission canister purge valve retaining nuts to 7.6-10.4 Nm (67-92 lb-in). Perform system leak check as follows:
 - a. Disconnect and plug evaporative emission return tube leading to the upper intake manifold (9424) at the upper intake manifold vacuum fitting.
 - b. Plug evaporative emission tube (9K313) at the evaporative emissions canister (EVAP canister) (9D653).
 - c. Using Rotunda Fuel Tank Leak Tester 134-R0003, pressurize the fuel system through the test fuel tank filler cap.
 - d. Verify that the pressure within the system does not decay.
 - e. If pressure does decay, determine the cause of the leak, then repair.
 - f. Remove plugs and reconnect evaporative emission return tube to the upper intake manifold and the evaporative emission tube to the evaporative emissions canister.



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A	Â	Tighten to 7.6-10.4 Nm (67-92 Lb-In)

Evaporative Emission Tube Shut Off Valve

The evaporative emission tube shut off valve (9G332) is serviced as an assembly with the evaporative emission valve (9B593). Refer to [Section 10-01](#) for Removal and Installation procedures.

Evaporative Emission Valve

Refer to Section 10-01 for Removal and Installation procedures.

SPECIFICATIONS

TORQUE SPECIFICATIONS

Description	Nm	Lb-In
Evaporative Emission Canister Retaining Bolts and Nuts	5.2-7.2	46-63
Evaporative Emission Canister Purge Valve to Retaining Nuts	7.6-10.4	67-92
