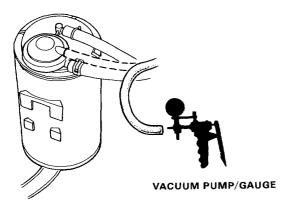


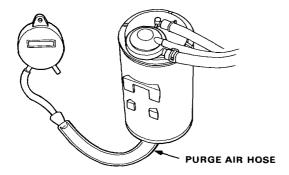


#### **Evaporative Emission Controls [KY] -**

- 1. Remove the fuel filler cap.
- Start the engine and allow to idle.
- Disconnect #7 hose at the purge control diaphragm valve (on the charcoal canister) and connect a vacuum gauge to the hose.

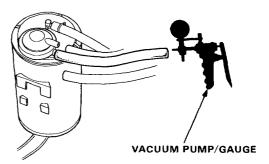


- If there is no vacuum, check #7 hose for blockage, cracks or disconnected hose, as well as vacuum port for blockage.
- Disconnect the vacuum gauge and reconnect the hose.
- 5. Connect a vacuum gauge to canister purge air hose.



- Raise engine speed to 3,500 min<sup>-1</sup> (rpm).
  Vacuum should appear on gauge within 1 minute.
  - If vacuum appears on gauge in 1 minute, remove gauge, test is complete.
  - If no vacuum, disconnect vacuum gauge and reinstall fuel filler cap.
- Remove charcoal canister and check for signs of damage or defects.
  - If defective, replace canister.
- Stop engine. Disconnect upper vacuum hose from canister "PCV" fitting.
   Connect a vacuum pump to canister "purge" fitting as shown, and apply vacuum.

Vacuum should remain steady.



- If vacuum drops, replace canister and retest.
- Restart engine. Reconnect hose to canister "PCV" fitting.

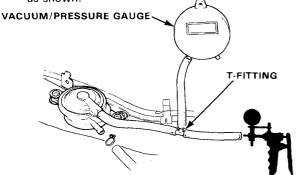
"PURGE" side vacuum should drop to zero.

 If "PURGE" side vacuum does not drop to zero, replace the canister and retest.

#### Evaporative Emission Controls —

#### Two-Way Valve Test [With CATA and KY]

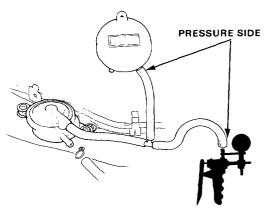
- 1. Remove the fuel filler cap.
- Remove vapor line from the fuel tank and connect to T-fitting from vacuum gauge and vacuum pump as shown.



3. Slowly apply vacuum while watching the gauge.

Vacuum should stabilize momentarily at 5 to 15 mmHg (0.2 to 0.6 in. Hg).

- If vacuum stabilizes (valve opens) below 5 mmHg (0.2 in. Hg) or above 15 mmHg (0.6 in. Hg), install new valve and retest.
- Move vacuum pump hose from vacuum to pressure fitting, and move vacuum gauge hose from vacuum to pressure side as shown.



Slowly pressurize the vapor line while watching the gauge.

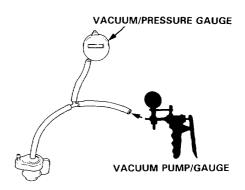
Pressure should stabilize at 10 to 35 mmHg (0.4 to 1.4 in. Hg).

- If pressure momentarily stabilizes (valve opens) at 10 to 35 mmHg (0.4 to 1.4 in. Hg), the valve is OK.
- If pressure stabilizes below 10 mmHg (0.4 in. Hg) or above 35 mmHg (1.4 in. Hg), install a new valve and retest.

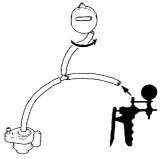
# Two-Way Valve ————[Without CATA Ex. KY]

#### Test

- 1. Remove the fuel filler cap.
- Remove the vapor line from the canister or frame, and connect to a T-fitting from the vacuum gauge and the vacuum pump as shown.



- Slowly draw a vacuum while watching the gauge. Vacuum should stabilize at 15 to 30 mmHg (0.6 to 1.2 in. Hg).
  - If vacuum stabilizes momentarily (Two-way Valve opens) between 15 and 30 mmHg (0.6 and 1.2 in. Hg), go on Step 4.
  - If vacuum stabilizes (valve opens) below 15 mmHg or above 30 mmHg (1.2 in.Hg), install new valve and retest.
- Move vacuum pump hose from vacuum to pressure fitting, and move vacuum gauge hose from vacuum to pressure side as shown.



Slowly pressurize the vapor line while watching the gauge.

Pressure should stabilize at 10 to 25 mmHg (0.4 to 1.0 in.Hg).

- If pressure momentarily stabilizes (Valve opens) at 10 to 25 mmHg (0.4 to 1.0 in.Hg), the valve is OK.
- If pressure stabilizes below 10 mmHg (0.4 in.Hg) or above 25 mmHg (1.0 in. Hg), install a new valve and re-test.