

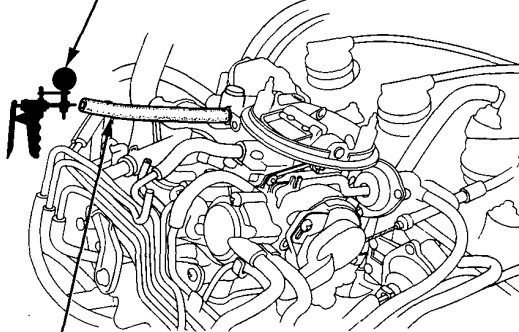
# Carburetor

## Power Valve

### Testing

1. Disconnect the #14 vacuum hose from the vacuum hose manifold and connect a vacuum pump. Apply vacuum and listen for a clicking noise from the power valve.

VACUUM PUMP/GAUGE

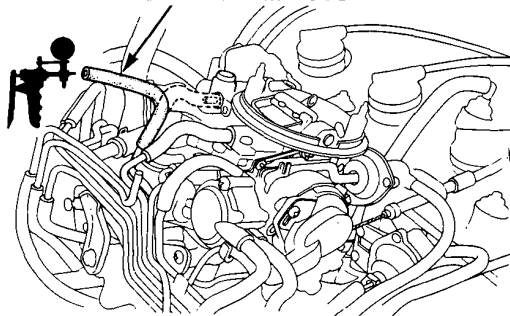


#14 VACUUM HOSE

- If a clicking sound is heard, go on to step 2.
- If no sound is heard, replace the power valve and retest.

2. Disconnect the #14 vacuum hose from the carburetor and connect a vacuum gauge to the hose.

#14 VACUUM HOSE



3. Start the engine and check the vacuum.  
There should be no vacuum for about 3 seconds after the engine is started. And there should be vacuum within 15 seconds after the engine is started.  
NOTE: The engine coolant temperature must be below 30°C (86°F).

- If not, check the #14 and #12 vacuum line for proper connection, cracks, blockage or disconnected hose. If OK, go to the power valve control solenoid valve troubleshooting (page 6-41).

4. Warm up to normal operating temperature (the cooling fan comes on).

5. Check the vacuum.

There should be vacuum.

- If not, check the #14 and #12 vacuum line for proper connection, cracks, blockage or disconnected hose. If OK, go to the power valve control solenoid valve troubleshooting (page 6-41).



## Troubleshooting Flowchart Power Valve Control Solenoid Valve

Inspection of Power Valve control Solenoid Valve.

Open the control box.

Disconnect the lower vacuum hose of the solenoid valve from the joint and connect a vacuum pump.

Disconnect #14 vacuum hose of the solenoid valve from the vacuum hose manifold and connect a vacuum gauge.

Start engine.

Apply vacuum for about 3 seconds after the engine is started.

Is vacuum indicated on the gauge?

YES

Turn the ignition switch OFF.

Disconnect the connector on the control box.

Start the engine.

Measure voltage between YEL (+) terminal and BLK (-) terminal.

Is there voltage?

YES

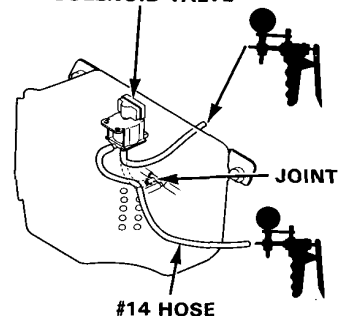
Replace the solenoid valve.

NO

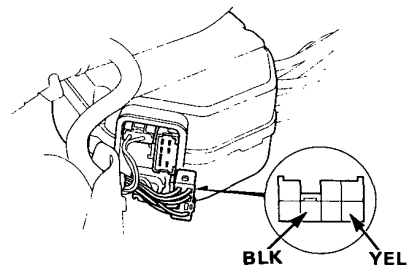
Warm up engine to normal operating temperature (cooling fan comes on).

(To page 6-42)

POWER VALVE  
CONTROL  
SOLENOID VALVE



NOTE: The engine coolant temperature must be below 30°C (86°F)



Check the self-diagnosis indicator (page 6-20). If OK, substitute a known-good control unit and retest. If symptom goes away, replace the original control unit.

(cont'd)

# Carburetor

## Power Valve (cont'd)

