

# Carburetor

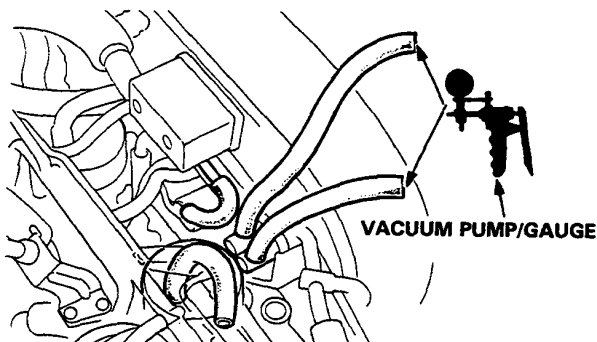
## Vacuum Piston Control System

[KX, KS, KZ model]

### Testing

1. Disconnect the vacuum hose from the carburetor and connect a vacuum pump. Apply vacuum.

It should hold vacuum.



- If it does not hold vacuum, check the vacuum hose for proper connection, cracks, blockage or disconnected hose, and replace the vacuum piston control valve.

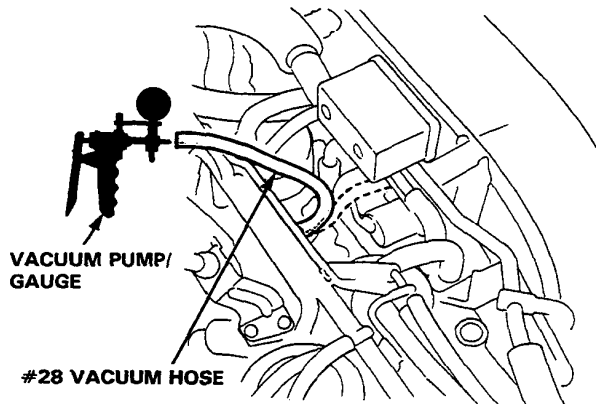
2. Start the engine and warm up to normal operating temperature (the cooling fan comes on).
3. Check for vacuum.

It should not hold vacuum.

- If it holds vacuum, check the vacuum hose for proper connection, cracks, blockage or disconnected hose, and go to step 4.
- If it does not hold vacuum, go to step 5.

4. Disconnect the #28 vacuum hose from the air cleaner and connect a vacuum pump.

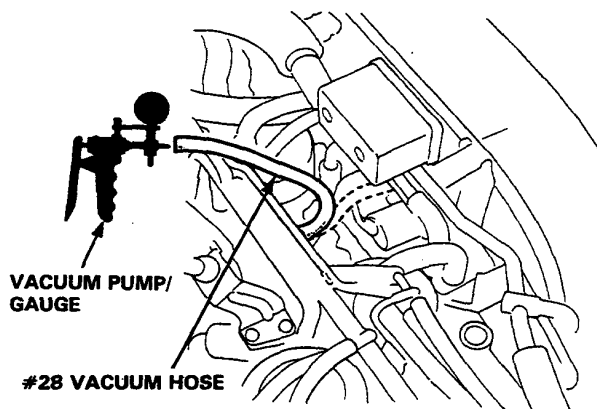
There should be vacuum.



- If there is vacuum, replace the vacuum piston control valve.
- If there is no vacuum, go to troubleshooting (page 6-31).

5. Disconnect the #28 vacuum hose from the air cleaner and connect a vacuum pump. Raise engine speed to 3,000 min<sup>-1</sup> (rpm) and close the throttle suddenly, then check vacuum.

There should be no vacuum for a moment.



- If there is vacuum, go to troubleshooting (page 6-31).



## Troubleshooting Flow Chart Vacuum Piston Control Solenoid Valve

### Inspection of Vacuum Piston Control Solenoid Valve

Remove the control box and open the control box lid.

Disconnect the lower vacuum hose of the solenoid valve from the 3-way joint and connect a vacuum pump.

Disconnect the #28 vacuum hose of the solenoid valve from the vacuum hose manifold and connect a vacuum gauge.

Start the engine and warm up to normal operating temperature (the cooling fan comes on).

Apply vacuum.

Does solenoid valve hold vacuum?

YES

(page 6-32)

NO

Turn the ignition switch OFF.

Disconnect the 8P connector on the control box.

Start the engine.

Measure voltage between YEL (+) terminal and BLK (-) terminal on the wire harness.

Is there battery voltage?

NO

(page 6-32)

VACUUM PISTON CONTROL SOLENOID VALVE

VACUUM PUMP/GAUGE

#28 HOSE

YEL (+)

BLK (-)

Replace the solenoid valve.

(cont'd)

# Carburetor

## Vacuum Piston Control System (cont'd)

