

# Bypass Control System

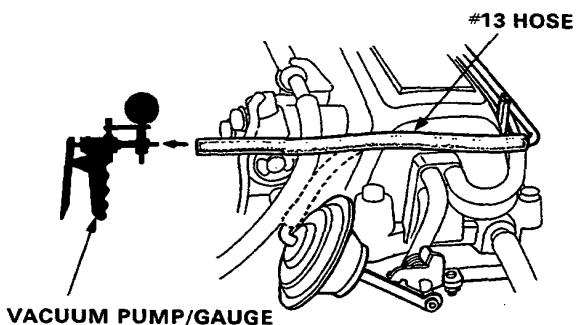


## Troubleshooting Flow Chart

Inspection of Bypass Control System

Start engine and allow to idle.

Remove #13 vacuum hose from the bypass control diaphragm and connect vacuum gauge to the hose.



Is there vacuum ?

NO

Remove #12 vacuum hose from the vacuum tank, then check for vacuum at the tank.

YES

Is there vacuum ?

NO

Repair the blockage or vacuum leak between the vacuum tank and the intake manifold.

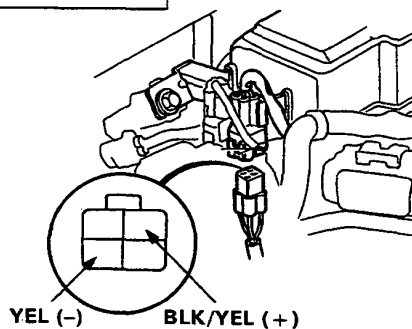
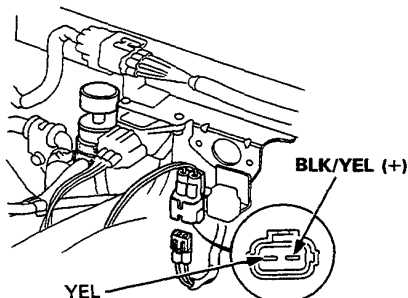
YES

Disconnect the connector.

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

[KX, KS, KZ]

[Except KX, KS, KZ]



Is there battery voltage ?

YES

Replace the bypass control solenoid valve.

NO

Measure voltage between BLK/YEL (+) terminal and body ground.

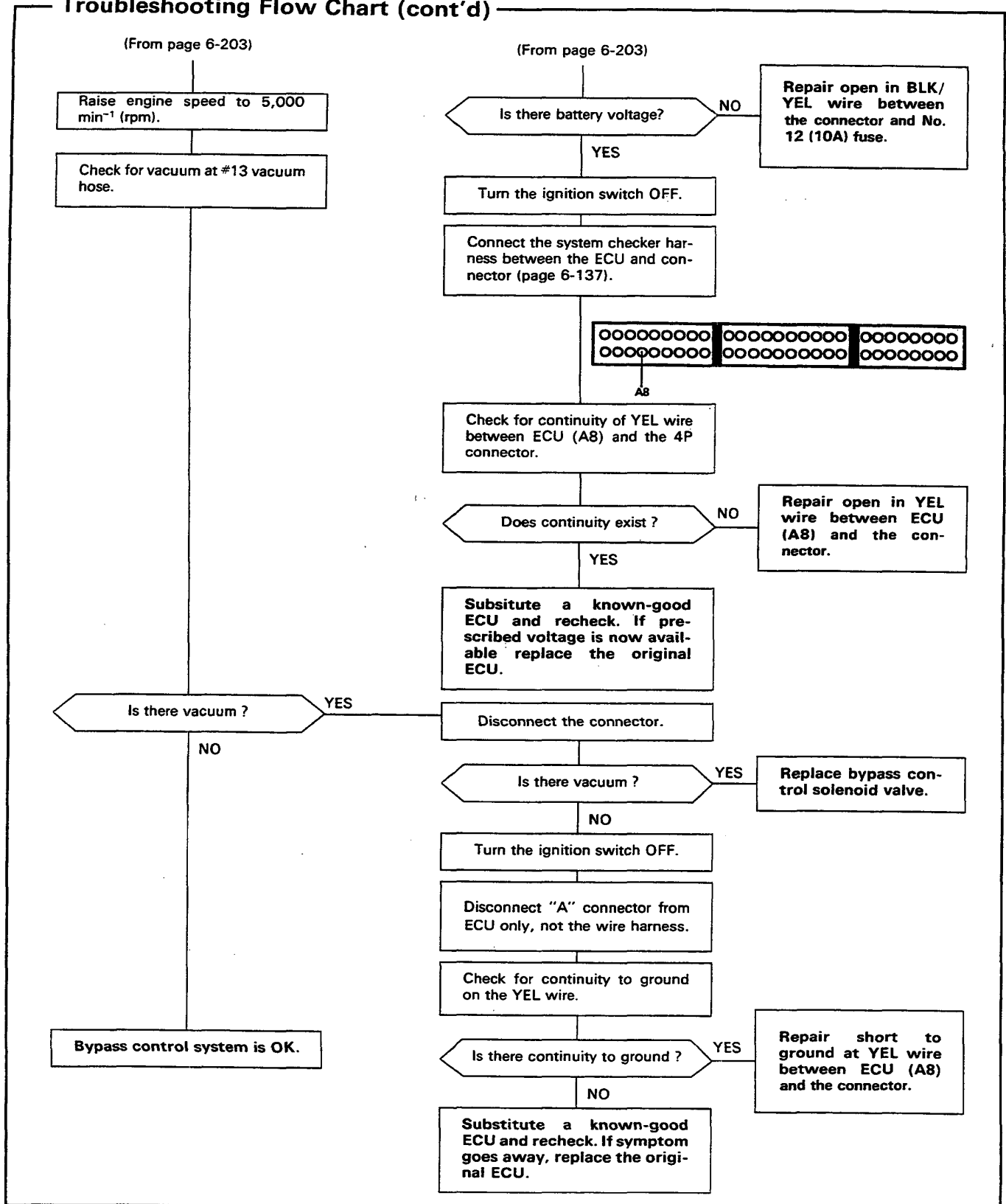
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# Bypass Control System

## Troubleshooting Flow Chart (cont'd)

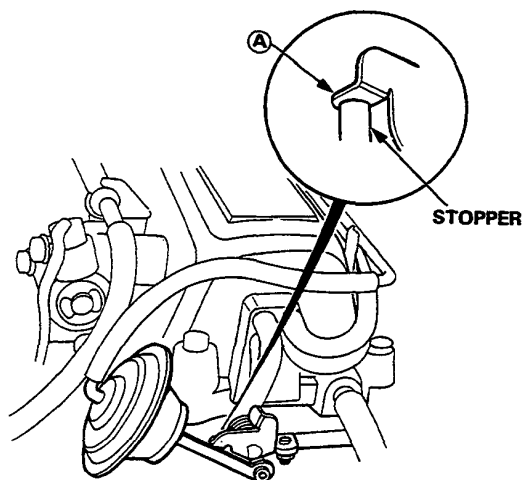




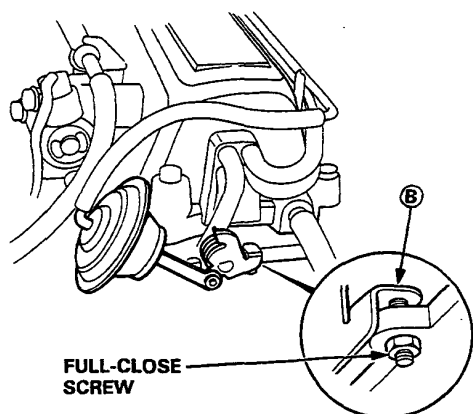
## Bypass Valve Test

**CAUTION:** Do not adjust the bypass valve full-close screw. It was preset at the factory.

1. Check the bypass valve shaft for binding or sticking.
2. Check the bypass valve for smooth movement.
3. Check that **(A)** of the bypass valve is in close contact with the stopper when the bypass valve is fully open.



4. Check that **(B)** of the bypass valve is in close contact with the full-close screw when the valve is fully closed.



- If any fault is found, clean the linkage and shafts with carburetor cleaner.
- If the problem still exists after cleaning, disassemble the intake manifold and check the bypass valve (page 6-206).

# Bypass Control System

## Bypass Valve Body Disassembly

