

Bypass Control System



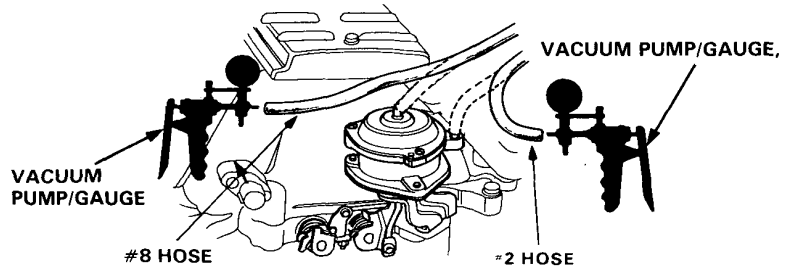
Troubleshooting Flow Chart

Inspection of Bypass Control System

NOTE: Check for normal operation of the bypass valve in the intake manifold prior to checking the system (page 6-96).

Start engine and allow to idle.

Remove #2 vacuum hose from the bypass control diaphragm and connect vacuum gauge to the hose.



Is there vacuum?

NO

YES

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

Is there vacuum?

NO

YES

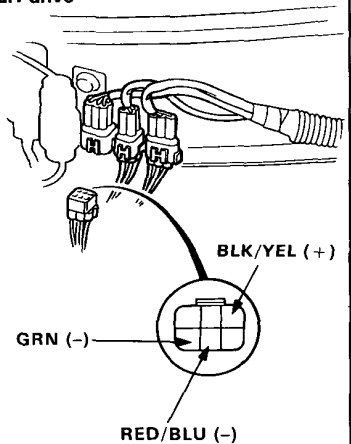
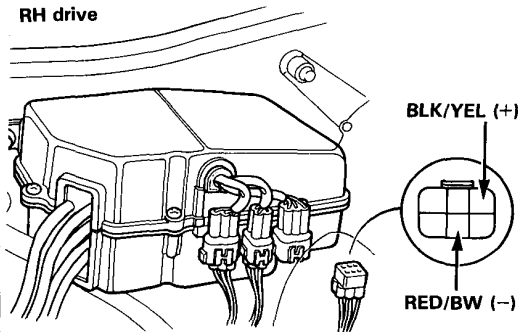
Check the vacuum line between the vacuum tank A and the intake manifold.

Disconnect 6P connector.

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

LH drive

RH drive



Is there battery voltage?

YES

NO

Replace the bypass control solenoid valve A and retest.

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

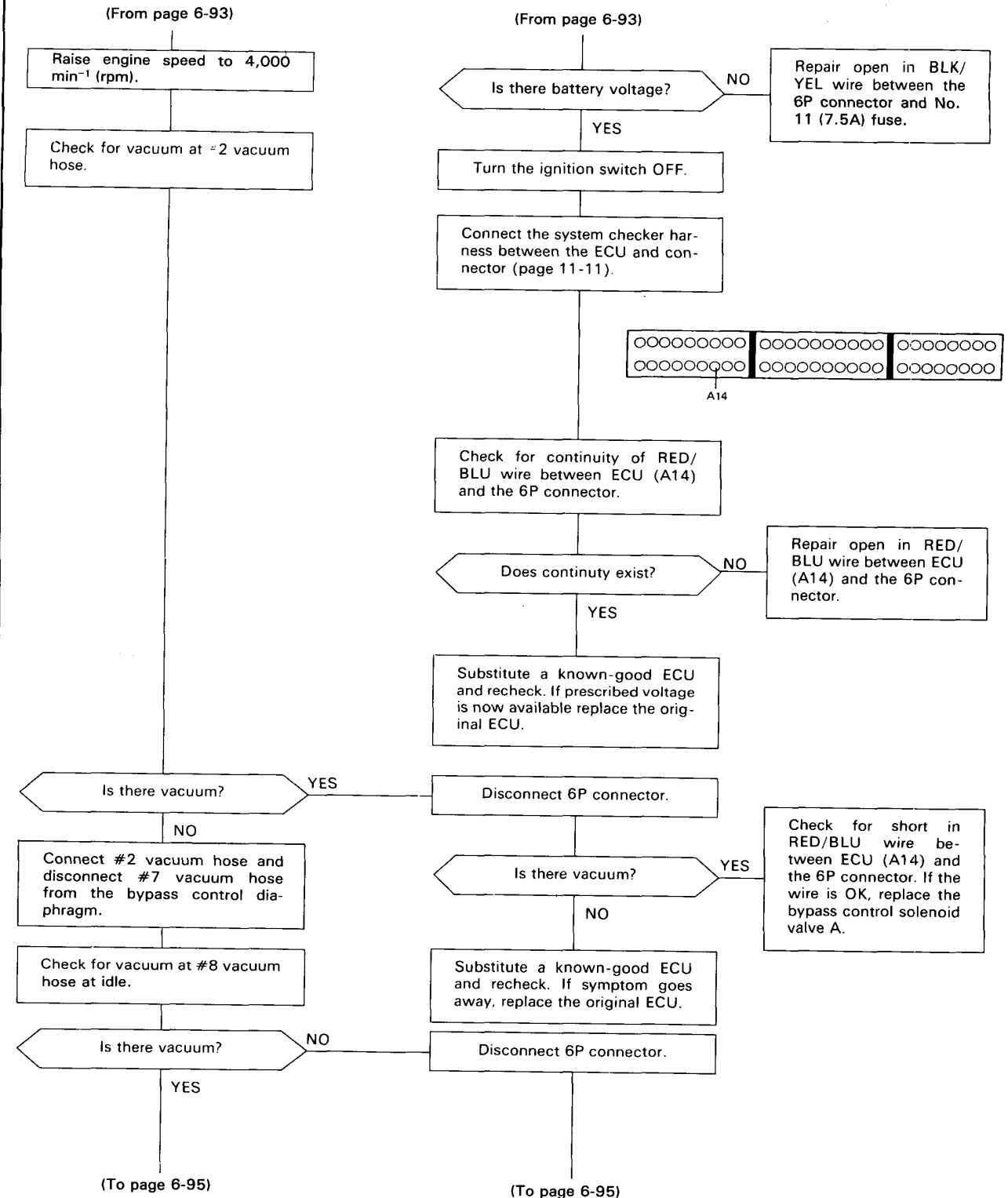
(To page 6-94)

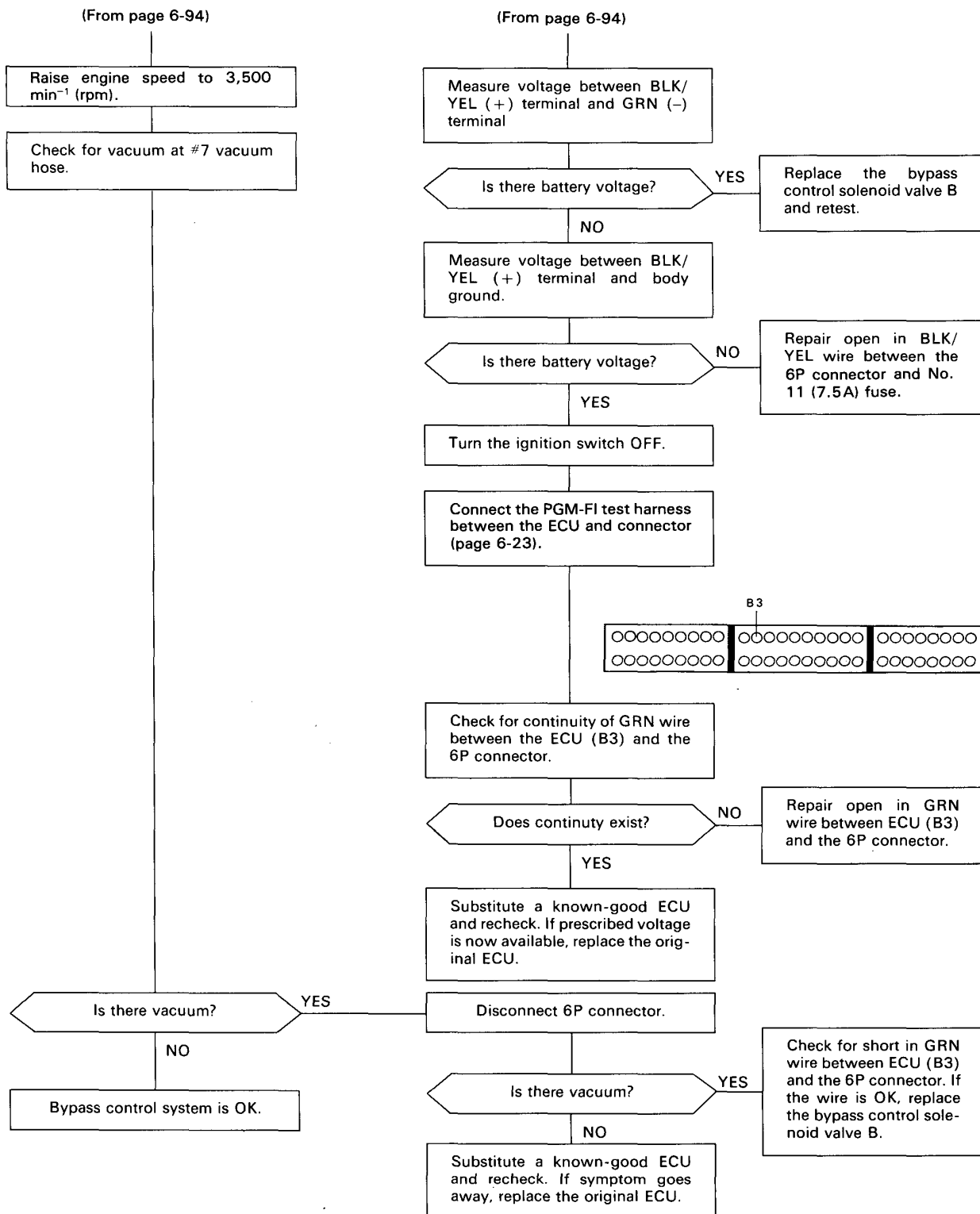
(To page 6-94)

(cont'd)

Bypass Control System

Troubleshooting Flow Chart (cont'd)



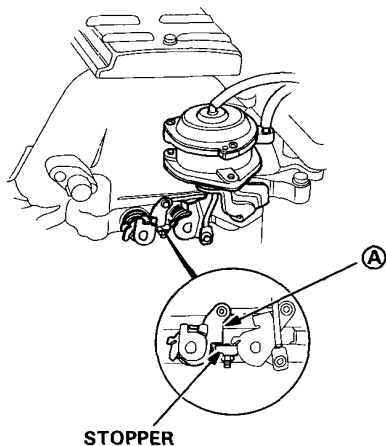


Bypass Control System

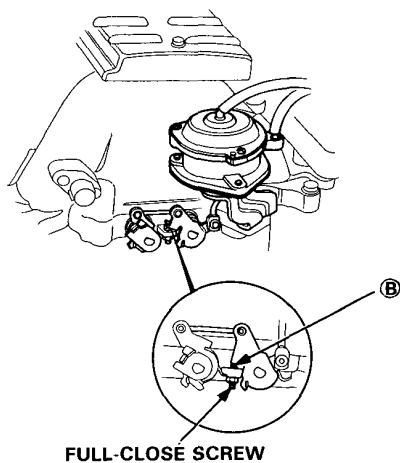
Bypass Valve Test

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 6-97).



Bypass Valve Body Disassembly

