

# Air Intake System

## Bypass Control System (2.2 l Except KY)

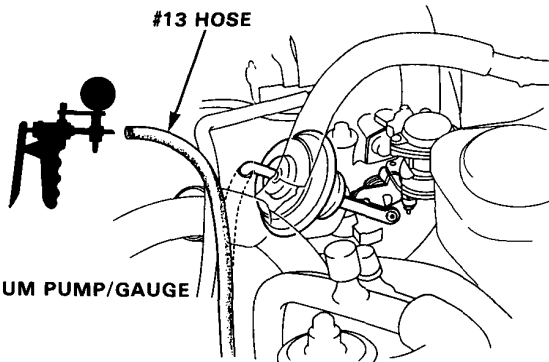
### Troubleshooting Flowchart

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.

VACUUM PUMP/GAUGE



Is there vacuum ?

NO

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

Is there vacuum ?

NO

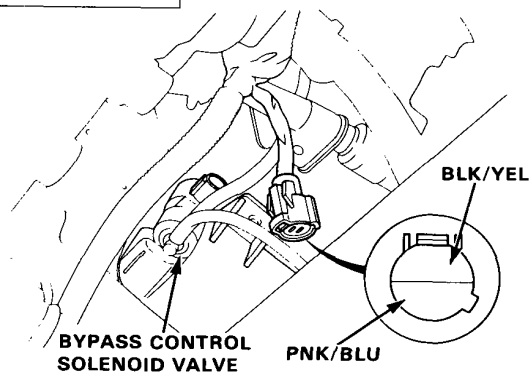
Repair the blockage or vacuum leak between the vacuum tank and the intake manifold.

YES

YES

Disconnect the 2P connector from the Bypass Control Solenoid Valve.

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



Is there battery voltage ?

YES

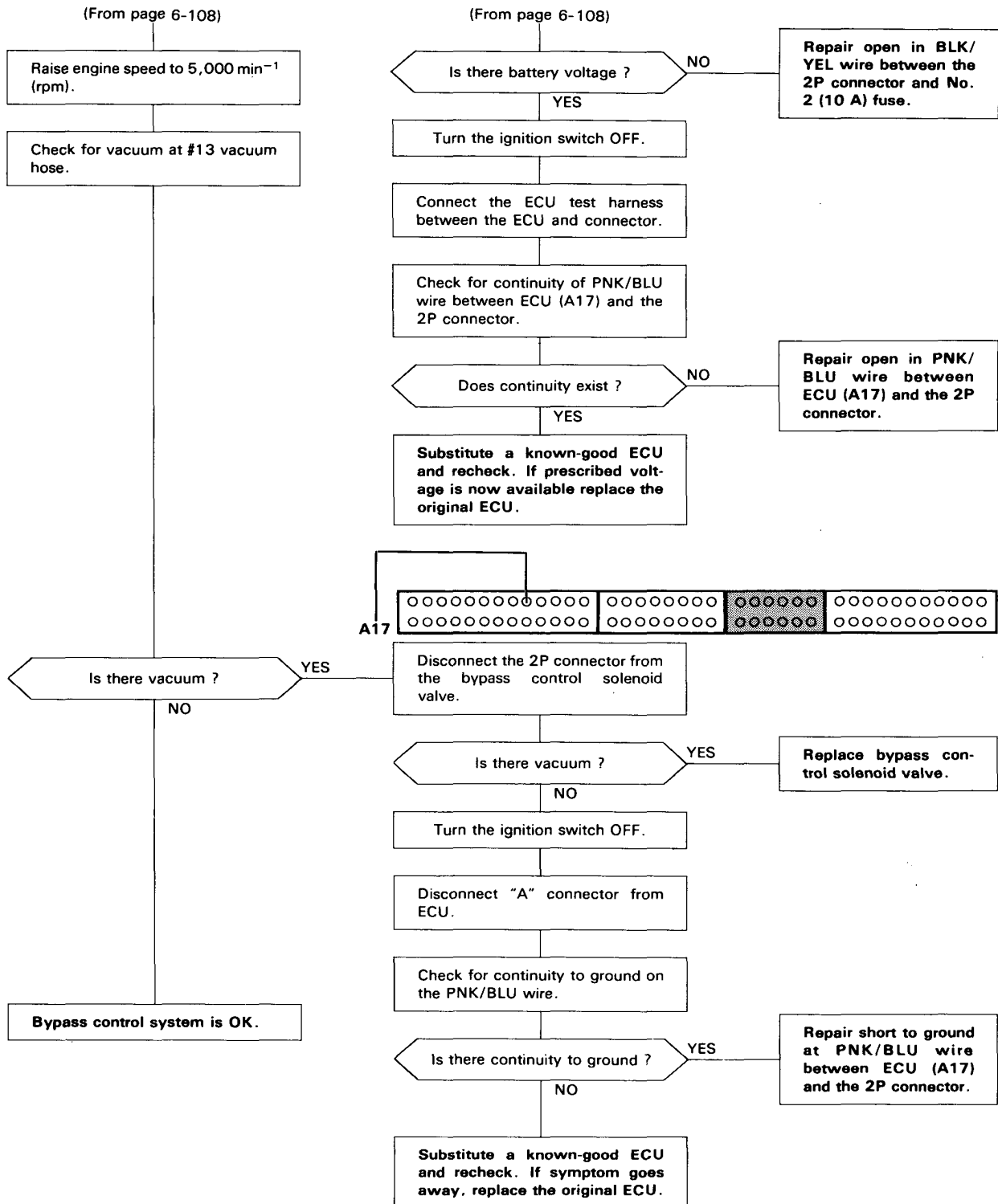
Replace the bypass control solenoid valve.

NO

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

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(To page 6-109)



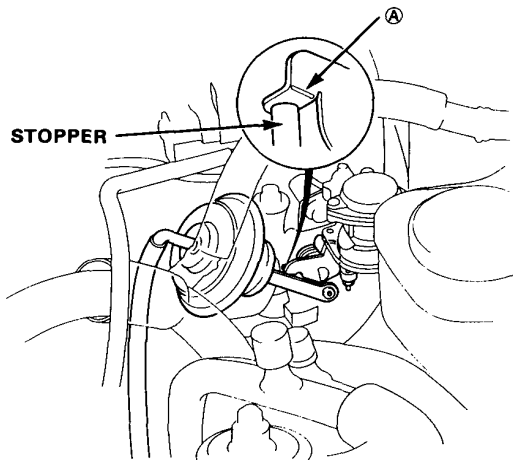
# Air Intake System

## Bypass Valve (2.2 l Except KY)

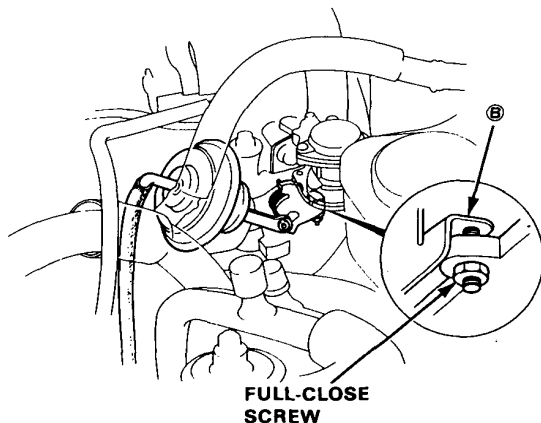
### Testing

**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 Ⓐ of the bypass valve is in close contact with the stopper when the bypass valve is fully open.



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



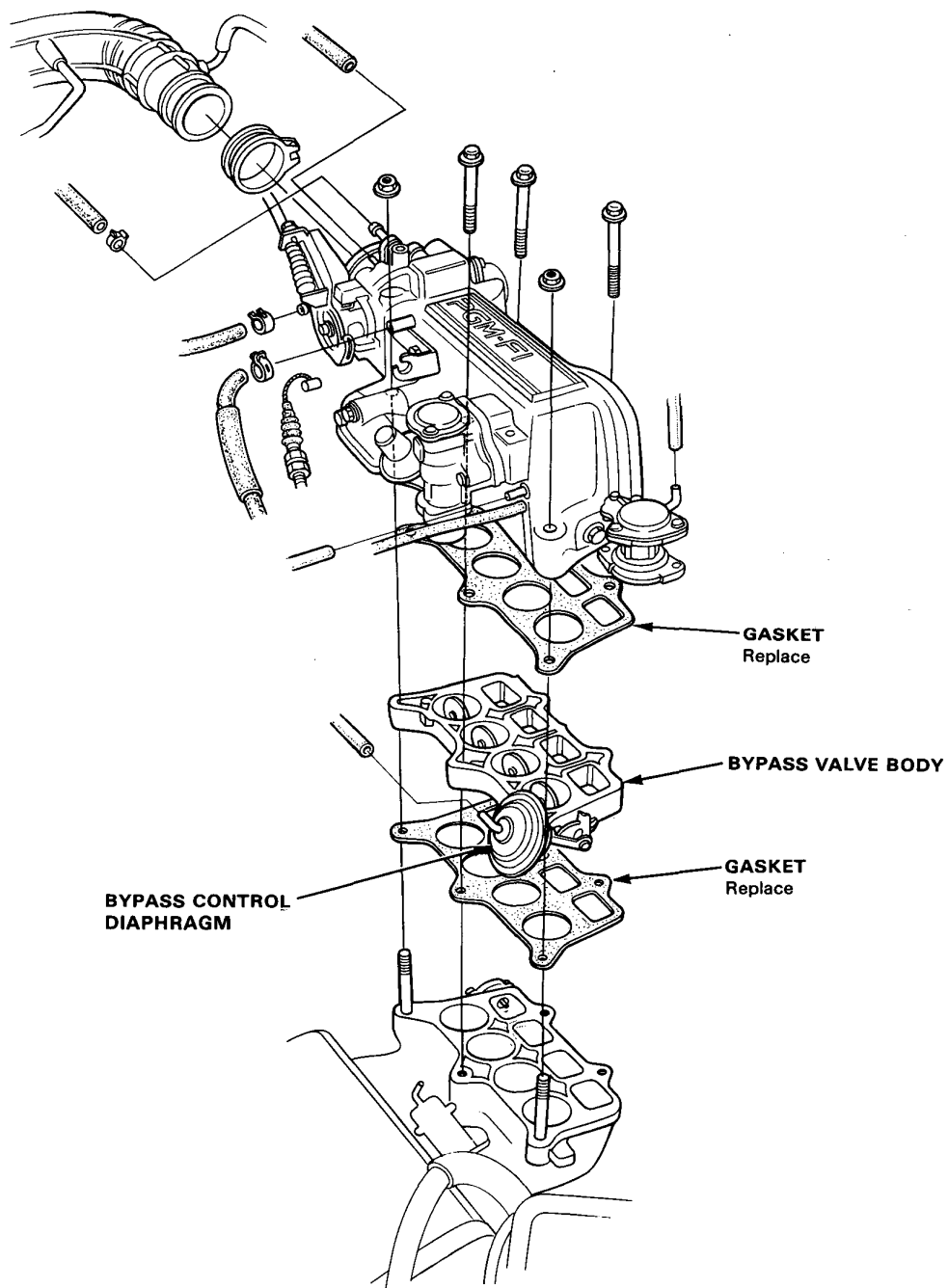
- If any fault is found, clean the linkage and shafts with carburetor cleaner.
- If the problem still exists after cleaning, disassemble the intake manifold and check the bypass valve (page 6-111).

(cont'd)



## Bypass Valve (2.2 l Except KY) (cont'd)

Disassembly



# Emission Control System

## System Troubleshooting Guide

NOTE: Across each row in the chart, the systems that could be sources of a symptom are ranked in the order they should be inspected starting with ①. Find the symptom in the left column, read across to the most likely source, then refer to the page listed at the top of that column. If inspection shows the system is OK, try the next most likely system ②, etc.

### With CATA:

PAGE	SUB SYSTEM	CATALYTIC CONVERTER	EGR SYSTEM (except KQ)	POSITIVE CRANKCASE VENTILATION SYSTEM	EVAPORATIVE EMISSION CONTROLS
SYMPTOM		—	114	—	—
ROUGH IDLE			①	②	
FREQUENT (AFTER STALLING (WARMING UP))			①		
POOR PERFORMANCE	FAILS EMISSION TEST	①			②
	LOSS OF POWER	①			

### Without CATA :

PAGE	SUB SYSTEM	POSITIVE CRANKCASE VENTILATION SYSTEM	EVAPORATIVE EMISSION CONTROLS (KY)
SYMPTOM		—	—
ROUGH IDLE		①	
POOR PERFORMANCE (FAILS EMISSION TEST)			①