



## Troubleshooting Flowchart

Inspection of IAB Control System.

Start engine and allow it to idle.

Remove #2 vacuum hose from the IAB low control diaphragm valve and connect vacuum gauge to the hose.

Is there vacuum?

YES

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NO

Disconnect the #4 hose on IAB low control solenoid valve and connect a vacuum gauge to the hose.

Is there vacuum?

YES

Turn the ignition switch OFF.

Disconnect the 6P connector.

Start engine and allow it to idle.

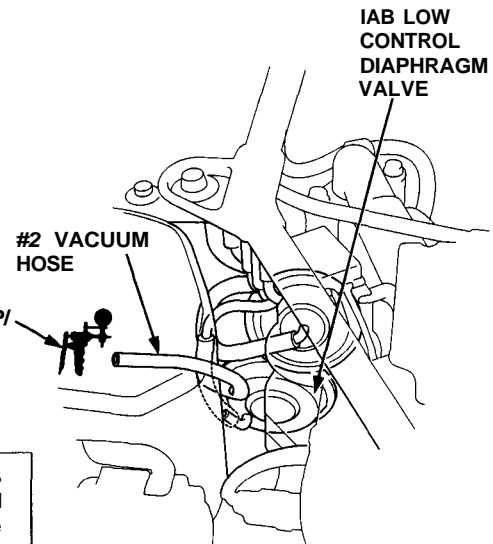
Measure voltage between BLK/YEL (+) terminal and RED/BLU (-) terminal.

Is there battery voltage?

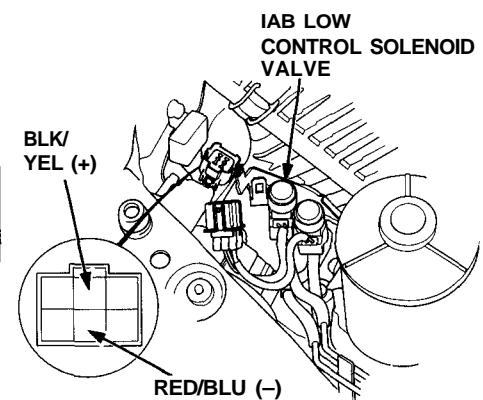
NO

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

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



Replace the IAB low control solenoid valve.

(cont'd)

# Intake Air System

## Intake Air Bypass (IAB) Control System (cont'd)

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Is there battery voltage?

NO

Repair open in BLK/  
YEL wire between the  
6P connector and No.  
22 FUEL PUMP (20 A)  
fuse in the under-dash  
fuse/relay box.

YES

Turn the ignition switch OFF.

Connect the test harness be-  
tween the ECM or PCM and con-  
nector (page 11-37).

Check for continuity of RED/BLU  
wire between ECM or PCM  
(A14) and the 6P connector.

Is there continuity?

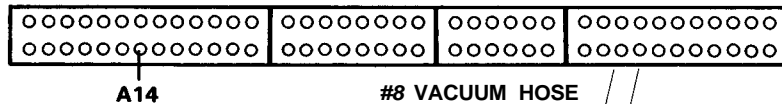
NO

Repair open in RED/  
BLU wire between  
ECM or PCM (A14) and  
the 6P connector.

YES

Substitute a known-good ECM or  
PCM and recheck. If symptom  
goes away, replace the original  
ECM or PCM.

Remove #8 vacuum hose from  
the IAB high control diaphragm  
valve and connect vacuum  
gauge to the hose.



VACUUM  
PUMP/GAUGE  
A973X-041-  
XXXXX

IAB HIGH  
CONTROL  
DIAPHRAGM  
VALVE

Is there vacuum?

NO

Disconnect the #4 hose on IAB  
high control solenoid valve and  
connect a vacuum gauge to the  
hose.

YES

Is there vacuum?

NO

Repair the blockage or  
vacuum leak between  
the IAB vacuum tank and the intake mani-  
fold.

YES

Turn the ignition switch OFF.

Disconnect the 6P connector.

Start engine and allow it to idle.

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

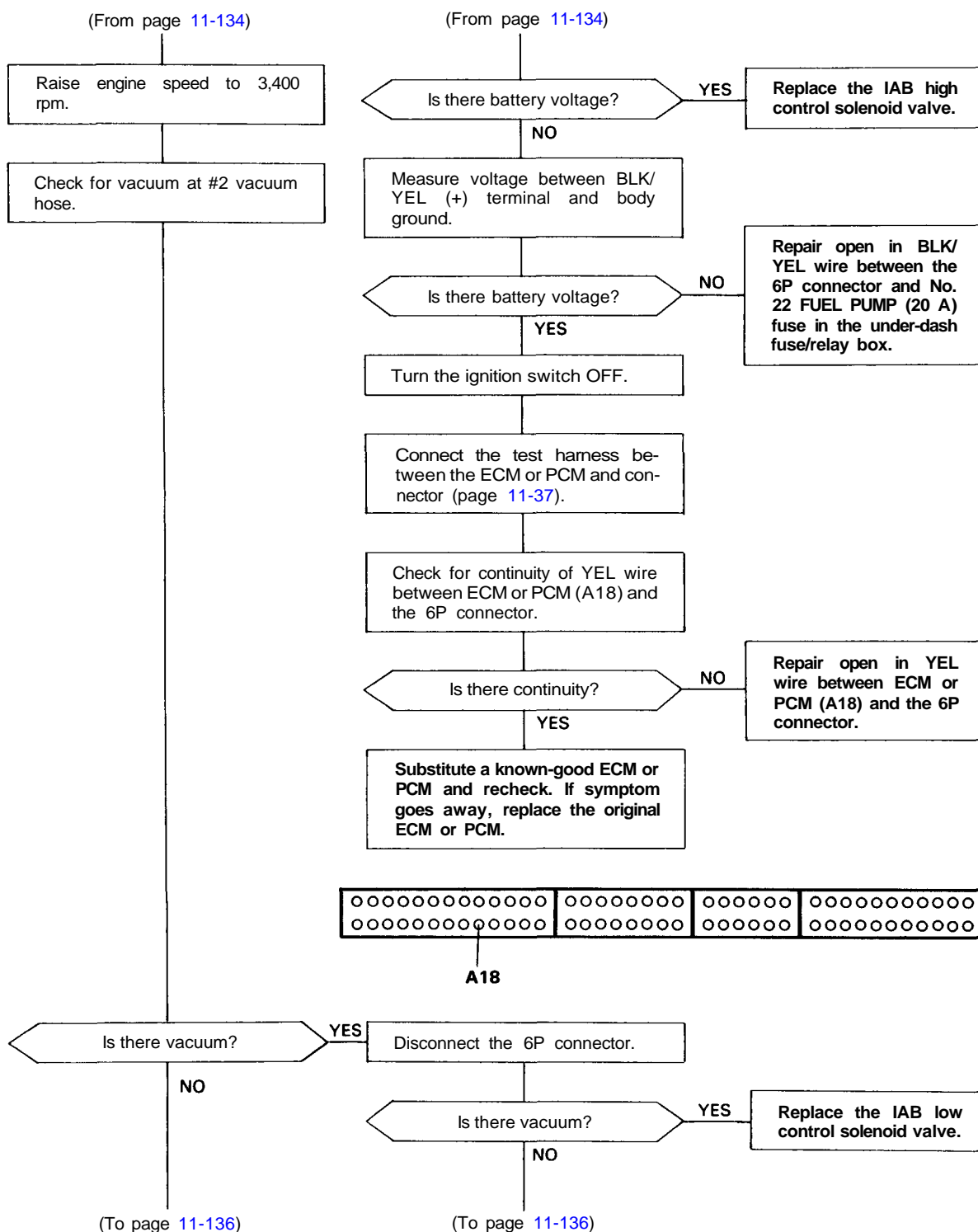
IAB HIGH  
CONTROL SOLENOID  
VALVE

BLK/  
YEL (+)

YEL (-)

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(To page 11-135)



(cont'd)

# Intake Air System

## Intake Air Bypass (IAB) Control System (cont'd)

