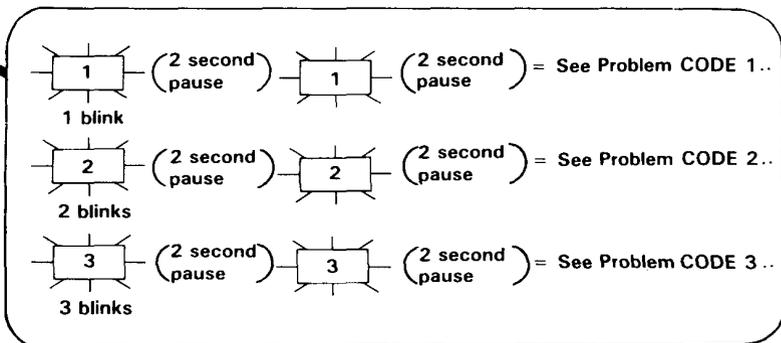
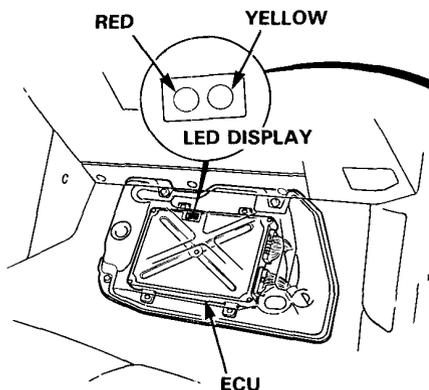


Troubleshooting Procedures

When the Check engine warning light has been reported on, turn the ignition on, pull down the passenger's side carpet from under the dashboard and observe the LED on the top of the ECU. The Red LED indicates a system failure code by blinking frequency.

(The Yellow LED is for idle speed adjustment and is not related to the following troubleshooting codes.)



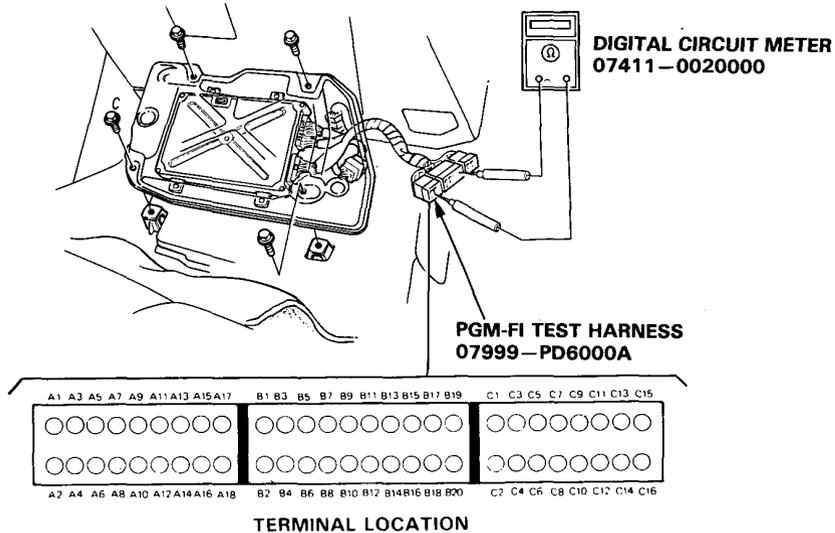
SELF-DIAGNOSIS INDICATOR BLINKS	SYSTEM INDICATED	PAGE
0	ECU	6-25, 26
1	FRONT OXYGEN CONTENT (KG, KX, KQ)	6-28
2	REAR OXYGEN CONTENT (KG, KX, KQ)	6-28
	MIXTURE COMPENSATION RESISTANCE (Except KG, KX, KQ)	6-30
3	MANIFOLD ABSOLUTE PRESSURE	6-32
5		6-34
4	CRANK ANGLE	6-36
6	COOLANT TEMPERATURE	6-40
7	THROTTLE ANGLE	6-42
8	TDC POSITION	6-44
9	No. 1 CYLINDER POSITION	6-38
10	INTAKE AIR TEMPERATURE	6-48
11	IMA (Except KG, KX, KQ)	6-50
12	EXHAUST GAS RECIRCULATION SYSTEM (Except KQ)	6-103
13	ATMOSPHERIC PRESSURE	6-52
14	ELECTRONIC IDLE CONTROL	6-62
15	IGNITION OUTPUT SIGNAL	6-54
17	VEHICLE SPEED PULSER	6-56
18	IGNITION TIMING ADJUSTMENT	6-58

CODE 16 or exceeds 18, count the number of blinks again, if the indicator is in fact blinking these codes, substitute a known-good ECU and recheck. If the indication goes away, replace the original ECU.

The Check engine warning light and ECU Red LED may come on, indicating a system problem, when, in fact, there is a poor or intermittent electrical connection. First, check the electrical connections, clean or repair connections if necessary.

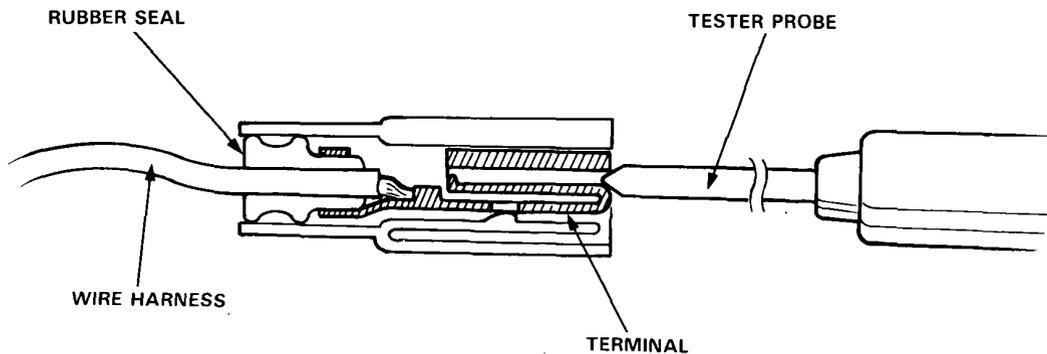


If the inspection for a particular failure code requires the PGM-FI test harness, remove the right door sill molding, the small cover on the right kick panel, and pull the carpet back to expose the ECU. Unbolt the ECU bracket and disconnect the 7P connector from the Cooling Fan Timer Unit near the upper left corner of the ECU bracket. Connect the PGM-FI test harness. Then check the system according to the procedure described for the appropriate code(s) listed on the following pages.



CAUTION :

- Puncturing the insulation on a wire can cause poor or intermittent electrical connections.
- For testing at connectors other than the PGM-FI test harness, bring the tester probe into contact with the terminal from the connector side of wire harness connectors in the engine compartment. For female connectors, just touch lightly with the tester probe and do not insert the probe.



(cont'd)

Troubleshooting Procedures

A flow chart is designed to be used from start to final repair. It's like a map showing you the shortest distance. But beware; if you go off the "map" anywhere but a "stop" symbol, you can easily get lost.

START
(bold type): Describes the conditions or situation to start a troubleshooting flow chart.

ACTION Asks you to do something; perform a test, set up a condition, etc.

DECISION Asks you about the result of an action by giving an "answer" and asking did you get the same answer: Yes or No.

STOP The end of a series of actions and decisions, describes a final repair action and sometimes directs you to an earlier part of the flow to confirm your repair.

NOTE:

- The term "Intermittent Failure" is used several times in these charts. It simply means a system may have had a failure, but it checks out OK through all your tests. You may need to road test the car to reproduce the failure or if the problem was a loose connection, you may have unknowingly solved it while doing the tests.
- "Open" and "Short" are common electrical terms. An open is a break in a wire or at a connection. A short is an accidental connection of a wire to ground. In simple electronics, this usually means something won't work at all. In complex electronics (like electronic control units), this can sometimes mean something works, but not the way it's supposed to.
- If the electrical readings are not as specified when using the system checker harness, check the checker harness connections before proceeding.