

CFI System

CFI Self-Diagnostic System

The computer memory includes some fail-safe functions and a self-diagnosis program with a series of LED's on the computer housing side. These indicators light to indicate problems in the systems and components listed below.

The system includes a LED self-checking function. The five LED's and the fuel system warning light should remain ON for about 1.5 seconds after the ignition switch is turned ON. The LED's can be inspected without removing the computer from its mount.

◐ : Blinking ● : On ○ : Off

DISPLAY 3 2 1 0 W	LOCATION	PROBLEM	FAIL-SAFE FUNCTION
○ ○ ○ ◐ ●	PBR sensor	<ul style="list-style-type: none"> ● Open circuit ● Shorted signal wire 	PBR sensor output is used. When PBR sensor is faulty, NE-0th map is used for both injection and ignition timing.
○ ○ ◐ ○ ●	PBL sensor	<ul style="list-style-type: none"> ● Open circuit ● Shorted signal wire 	PBR sensor output is used. When PBR sensor is faulty, NE-0th map is used for controlling fuel injection and ignition timing.
○ ○ ◐ ◐ ●	Throttle sensor	<ul style="list-style-type: none"> ● Open circuit ● Shorted signal wire 	NE-PB map is used for controlling fuel injection and ignition timing. When Pb sensors are also faulty, fuel discharge duration and ignition timing are both fixed.
○ ◐ ○ ○ ●	ECU (P1 sensor)	<ul style="list-style-type: none"> ● Faulty ECU (P1 sensor) 	P1 is fixed to 760 mm (30 in) Hg.
○ ◐ ○ ◐ ●	T1 sensor	<ul style="list-style-type: none"> ● Open circuit ● Shorted signal wire 	T1 is fixed to 25°C (77°F).
○ ◐ ◐ ○ ●	Tw sensor	<ul style="list-style-type: none"> ● Open circuit ● Shorted signal wire 	Tw is fixed to 85°C (185°F)
○ ◐ ◐ ◐ ●	#2, 4 cylinder injectors	<ul style="list-style-type: none"> ● Open or short circuit (NOTE 1) (NOTE 2) 	Fuel injection and ignition timing are both stopped.
◐ ○ ○ ○ ●	#1, 3 cylinder injectors	<ul style="list-style-type: none"> ● Open or short circuit (NOTE 1) (NOTE 2) 	Fuel injection and ignition timing are both stopped.
◐ ○ ○ ◐ ●	Ns sensor	<ul style="list-style-type: none"> ● Open circuit ● Shorted signal wire (NOTE 1) 	Fuel injection and ignition timing are both stopped.
◐ ○ ◐ ◐ ●	GL sensor	<ul style="list-style-type: none"> ● Open circuit ● Shorted signal wire (NOTE 1) 	Normal fuel injection and ignition timing control occur on GR signals. When both GL and GR sensors are faulty, fuel injection and timing control are stopped.
◐ ◐ ○ ○ ●	GR sensor	<ul style="list-style-type: none"> ● Open circuit ● Shorted signal wire (NOTE 1) 	Normal fuel injection and timing control are done by signals from GL sensor. When both GL and GR sensors are faulty, fuel injection and timing control are stopped.

NOTES:

- LED indicators for faulty injectors, open circuit, and Ne, NR/NL sensors will turn off when the ignition switch is turned OFF, and not relight until the engine is re-started.
- Indicators for injectors faulty by open circuit will light only when both injectors in either bank fail simultaneously. Indicators will light, however, for a single injector faulty by a short circuit.
- LED's will blink alternately when indicating more than one problem.