



**Carter 888-543, 888-544, 888-553
and 888-601 Wire Harnesses for
GM fuel pump modules**

**Carter®
Fuel Tech
Solution #4**

Carter Fuel Tech Solutions: Product improvements and practical advice that make fuel system service more efficient.

Problem:

Certain GM fuel pump applications are prone to electrical connector failures. Usually, the electrical connector on the vehicle wiring harness that plugs into the fuel pump module is at fault. The positive or negative terminal within this connector begins losing continuity, creating a substantial voltage drop. The heat generated from the arcing and voltage drop melts the plastic around the positive or negative terminal.

Where the terminal protrudes from this plastic connector, the plastic should have a pyramid shape. The heat generated by a failed terminal will cause the plastic around it to melt into a spherical shape (see Fig. 1). In other instances a blackening of the plastic around the terminal will be evident (see Fig. 2). The location of this faulty connection makes it impossible to diagnose the problem using a voltage drop test. So it's important to carefully inspect the connector on the old module and the connector on the vehicle body harness for evidence of this failure.

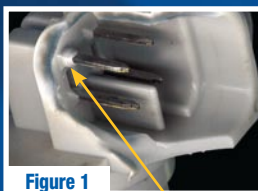


Figure 1

Plastic around this terminal has melted into a spherical shape.



Figure 2

Blackened and/or melted area on harness connector indicates a problem.

Solution:

If a failure is suspected, the section of the vehicle wiring harness with the faulty connector must be replaced.

If your vehicle requires:

- White 4-pin, four-cavity connector use **888-553**
- Black 4-pin, four-cavity connector use **888-543**
- 4-pin or 5-pin, six-cavity connector use **888-544**
- New, upgraded module connector use **888-601**



Carter Wire Harnesses for GM module assemblies include:

- Wire insulated with "ETFE" grade covering
- Tin-plated brass wire terminals
- Glass-filled nylon cover connectors and pump connectors

As an added feature, all Carter GM modules come with a tag that gives you helpful wire harness tips and instructions.



Innovation born of behind-the-scenes OE knowledge. Practical, time-saving advice derived from genuine field experience. Plus 100 years of Federal-Mogul engine mastery. With Carter, you get it all.

