



# Carter GM Fuel Pump Module

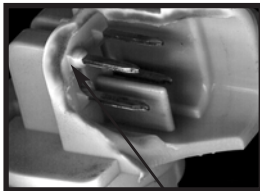
(featuring turbine pump design with wire harnesses for Vortec V6/V8 engines)

# Carter® Fuel Tech Solution #9

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

## Problem:

The module assemblies in GM vehicles with Vortec V6 and V8 engines are frequently criticized for having noisy pumps. The OE module's roller vane pump is also highly susceptible to dirt and debris. These modules are also 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.



Plastic around this terminal has melted into a spherical shape.



OE roller vane design



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

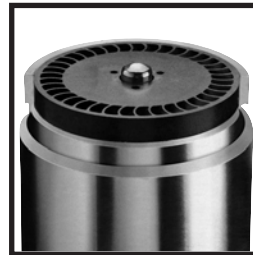
## Diagnostic Tech Note:

Before replacing pump:

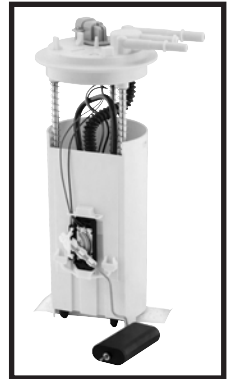
1. Verify properly functioning CPI spider assembly (see TEC Bulletin #1623)
2. Perform voltage drop test (see TEC Bulletin #1620)

## Solution:

Carter® has solved this issue by replacing the noisy OE pump with an improved turbine pump. The turbine pump is quieter, more tolerant of debris, and thus more durable, providing a longer service life. It also draws less amperage than the OE pump, preventing overloads.



Turbine pump



GM modular fuel pump



## The Carter module includes a new vehicle wiring harness that features:

- Wire insulated with "ETFE" grade covering
- Beryllium copper wire terminals
- Glass-filled nylon cover connectors and pump connectors

For a complete list of GM turbine modules with wire harness, see Carter Master Application Catalog #3879.

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.

