



**FROM FUEL PUMP ASSEMBLIES TO FILLER NECKS,  
SENDING UNITS TO FUEL TANKS, SPECTRA  
PREMIUM COVER'S ALL YOUR FUEL DELIVERY  
NEEDS.**



Year after year, Spectra Premium has been solving your fuel delivery needs and remains committed to developing the highest quality fuel delivery products while offering unmatched service to the automotive aftermarket.

*the brand  
O.E. MANUFACTURERS TRUST  
for their fuel system needs*

# FUEL DELIVERY SYSTEM

## FUEL DELIVERY FACTS:

- › Average fuel pump fails between 7 and 10 years
- › 75% of fuel pump failures are on domestic nameplate vehicles
- › More than 55% of all fuel pumps found on vehicles in operation today are fuel modular equipped
- › Under 10% of vehicles in operation are equipped with mechanical fuel pumps

## THE SPECTRA PREMIUM SOLUTION

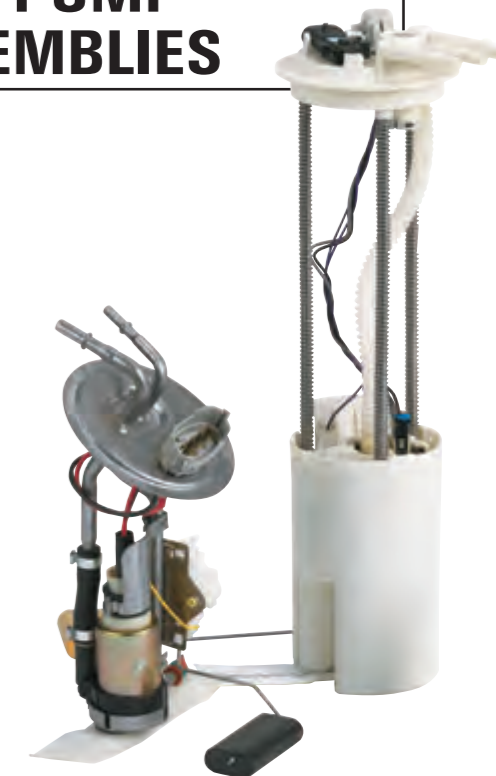
### HIGH QUALITY FUEL PUMP ASSEMBLIES

- › 100% reliability tested for: Voltage, amperage, resistance, pressure, and volume
- › Wire harness included on all applicable GM models
- › Meets or exceeds OE specifications
- › Available models represent in excess of 90% of market demand on fuel modules
- › Improved Connector
- › Strainer included

## SPECTRA PREMIUM SOLUTIONS



- › Full fuel delivery system training
- › Fuel delivery system repair tips and solutions
- › Complete fuel delivery system overview and diagnosis



# ➤ FUEL DELIVERY SYSTEM FAILURE FUEL TANKS / FILLER NECKS

## COMMON ISSUES

- Fuel Tank / Filler Neck life cycle ranges between 8 to 10 years
- Internal and external rust causing premature corrosion
- Damage to steel caused by poor road conditions

## DETERIORATION OF THE FUEL TANK AND FILLER NECK LEADS TO:

- Dirt and rust buildup causing premature fuel pump failure
- Fuel filter and injector clogging
- Clogging of the fuel pump strainer
- Damage to the electrical wiring
- Erratic fuel level indicator
- Illumination of check engine warning light



## SOLUTION B

- Dual coated for enhanced corrosion protection
- Prevent expensive fuel leaks and unnecessary comebacks
- Be proactive! Avoid unnecessary fuel pump failure

A HIGH QUALITY,  
CORROSION RESISTANT  
**SPECTRA PREMIUM**  
FILLER NECK



**BEWARE!**

**OE DESIGN LEAVES FILLER NECK UNPROTECTED  
TO HAZARDOUS ROAD DEBRIS THAT  
CAUSES PREMATURE FAILURE!**

## SOLUTION A

A HIGH QUALITY,  
CORROSION RESISTANT  
**SPECTRA PREMIUM**  
FUEL TANK



- OEM approved corrosion resistant steel
- 3-year warranty
- Lock ring included with the tank
- Large selection of straps available
- Most extensive coverage in the aftermarket

## SOLUTION C

A **SPECTRA PREMIUM**  
FUEL TANK ASSEMBLY

- Fuel Tank with Fuel Pump Assembly installed, including replacement straps
- Save 52% labour on installation time
- Maintain customer satisfaction by servicing a leaking fuel tank at the same time as the fuel pump
- Avoid comebacks by replacing the complete unit
- 2 year warranty on the assembly
- Why do the job twice, trust the experts in fuel delivery systems



# PREVENTATIVE MAINTENANCE SOLUTIONS

# FUEL DELIVERY SYSTEM

## DIAGNOSTIC PROCEDURES

Before replacing any fuel delivery components, verify the following;

- › Check and repair any on-board diagnostic trouble codes related to fuel delivery.
- › Perform fuel pressure testing.
- › Test fuel pressure regulator.
- › Visually inspect fuel pump wiring connector for signs of corrosion, overheating or burnt terminals. Replace electrical connector.
- › Check power and ground to the fuel pump.
- › If pump must be replaced, remove fuel tank and inspect for contamination. Have the tank thoroughly cleaned before installing new pump.
- › Install new fuel filter to prevent new pump pressure overload.
- › Reinstall all noise suppressing devices between tank and vehicle underbody to prevent noise transmission.
- › Never run pump dry, turn the key on several times without starting the engine to prime the fuel system. This will prevent fuel pump damage.
- › Add at least ½ a tank of new or filtered fuel back into the system.



# COMMON PROBLEMS



## ELECTRICAL PROBLEMS

ELECTRICAL PROBLEMS DUE TO CORROSION AND LACK OF MAINTENANCE.

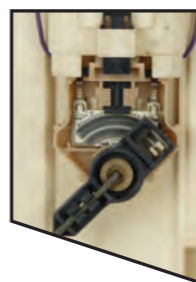
WIRING HARNESS CONNECTOR MUST BE REPLACED TO ENSURE PROPER PUMP VOLTAGE. RESTRICTIONS SUCH AS A CLOGGED FUEL FILTER OR PRESSURE REGULATOR WILL INCREASE PUMP AMPERAGE AND FAIL PREMATURELY.



## FILTER CONTAMINATION

FILTERING CONTAMINANTS FOUND IN THE TANK

VISUALLY INSPECT THE FUEL TANK UPON PUMP REPLACEMENT TO PREVENT PREMATURE FAILURE. INSTALL A NEW FUEL FILTER TO ENSURE PROPER FUEL DELIVERY TO THE ENGINE.



## ERRATIC FUEL GAUGE READING

ERRATIC READING OF THE FUEL LEVEL INDICATOR.

VERIFY CIRCUIT INTEGRITY. THE PROBLEM MAY BE AT THE WIRING SOURCE OR THE CONNECTORS. NEW DESIGN CERAMIC RESISTOR CARD REDUCES FLUCTUATIONS. PROPERLY INSPECT GAUGE GROUND CIRCUIT. DAMAGE TO THE RESISTANCE CAN BE CAUSED BY A CONTAMINATED FUEL TANK.

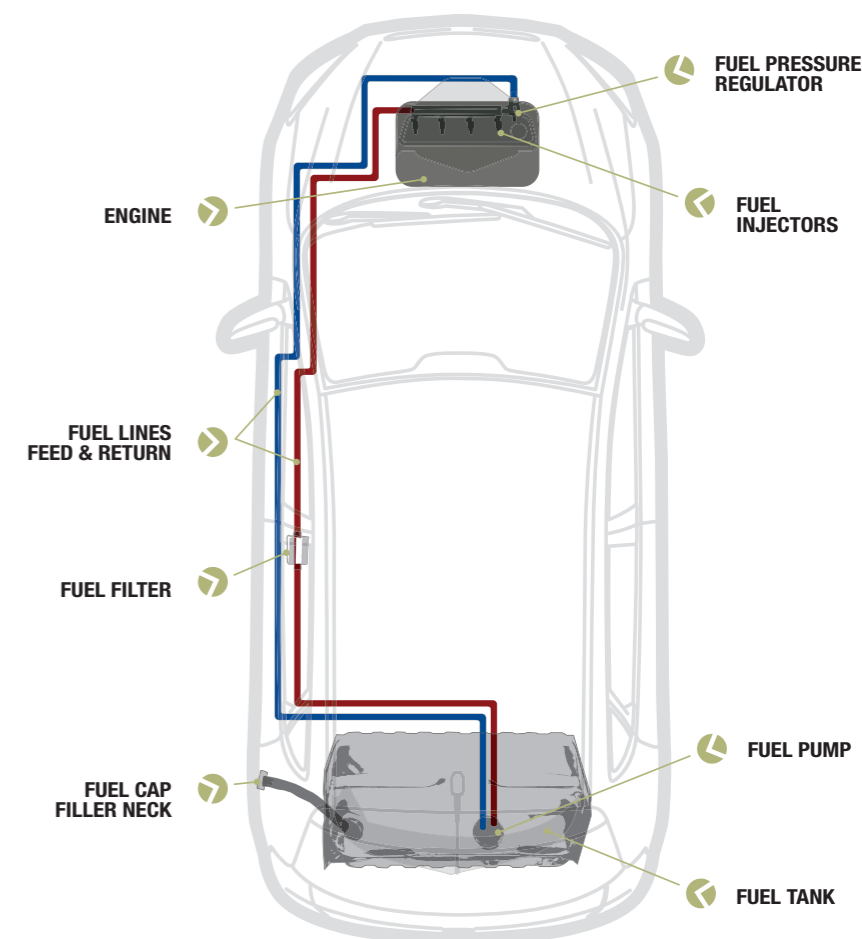


## CORRODED EXTERNAL TUBES AND FITTINGS

ENVIRONMENT AND TIME WILL OXIDIZE METAL PARTS CAUSING LEAKS AND POSSIBLE CHECK ENGINE LIGHT TO COME ON.

# FUEL DELIVERY SYSTEM DIAGNOSTIC CHART

MAINTAIN A CLEAN & HEALTHY FUEL SYSTEM FOR MAXIMUM PERFORMANCE AND ECONOMY



**SPECTRA PREMIUM™**  
forming the *future*