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ON SPEED

Fuel System Replacement

Contamination of a vehicle's fuel system is a big problem and can cause a lot of damage to a fuel tank and its components over time. Some people only fix the fuel pump assembly upon failure, but what about other corrosion-prone components such as fuel filler necks and fuel tank straps?

These corroded components will contaminate a vehicle's fuel system, causing premature fuel pump failure or an evaporative leak that could cause failed vehicle emission testing.

Next time you are diagnosing a fuel pump assembly failure, ensure a contaminate free fuel system by replacing the vehicle's fuel module, fuel filler neck, and fuel tank strap set, then clean or replace the fuel tank.

Spectra Premium fuel pump assemblies come with applicable wiring harnesses and installation hardware and are 100% performance tested. Their fuel filler necks are dual coated for enhanced corrosion protection and their fuel tank strap set and fuel tanks are constructed of corrosion resistant, OE approved Ni Terne steel for enhanced durability.

Ensure the complete repair with Spectra Premium.



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Common Problems

Electrical Problems

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

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

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 & Fittings

Environment and time will oxidize metal parts causing leaks, and possibly causing the Check Engine Light to come on.



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Diagnostic Procedures

Preventative Maintenance Solutions

Before replacing any fuel delivery components, verify the following:

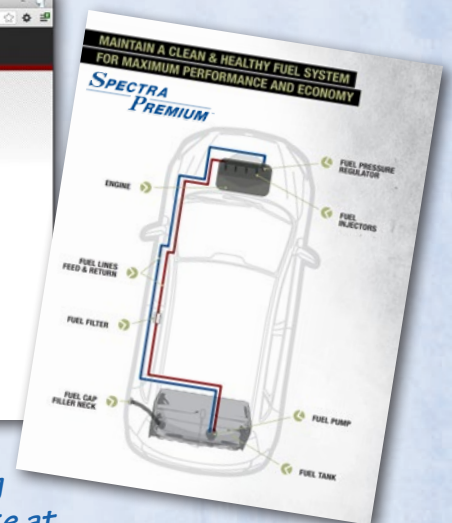
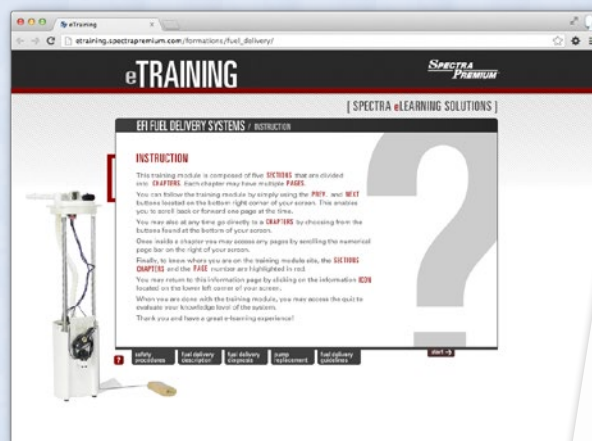
- Check and repair any on-board diagnostic trouble codes related to fuel delivery.
- Perform fuel pressure testing.
- Test fuel pressure regulator.
- Visually inspect fuel pump wiring connector for signs of corrosion, overheating, or burnt terminals. Replace electrical connector.
- Check power and ground 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 1/2 a tank of new or filtered fuel back into the system.



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For more diagnostic procedures and training information, visit Spectra Premium's website at www.spectrapremium.com.

