

Better Pumps. Better Coverage.

FUEL DELIVERY SYSTEM Diagnostics

Airtex Fuel Pumps are 100% tested before Nearly 75% of all aftermarket fuel they leave the factory. That's why it's a pump failures are caused by: good idea to check out everything else first Misdiagnosis before suspecting the fuel pump. In fact, Vehicle related electrical wiring or 50% of all fuel pumps returned for warranty connector issues **Begin Fuel Pump Testing Here** consideration meet all manufacturer's Contaminated vehicle fuel systems specifications when tested. Check for low fuel level in tank Add 2 to 3 gallons fuel as needed. Engine starts only after extended cranking. Engine runs. Fuel level in tank was low. Engine does not run. Can you hear fuel pump run? Check vehicle service information to trigger pump. Check fuel system rest pressure Rest pressure does not meet spec. Check for and repair as needed: Fuel leaks, leaking or stuck-open fuel pressure Pump does not run. Rest pressure meets specs. Pump runs. regulator, leaky injectors. Go to: Go to: Go to: Fuel Pressure Flectrical Tests Fuel Pressure and and Volume Tests Volume Tests No leaks found. Replace fuel pump Fuel Pressure and Volume Tests Install fuel pressure gauge and trigger fuel pump. Low or no fuel pressure. High fuel pressure. Fuel pressure meets specs. Check for and repair as needed: Plugged inlet filter or strainer, restricted fuel supply, fuel leak, leaking or stuck-open fuel Check for and repair as needed: Check fuel volume. Do not check Plugged fuel filter, restriction in return line, fuel pressure regulator stuck-closed, volume at Schrader valve pressure regulator, wrong pump installed, fuel tank damaged. wrong pump installed. Volume meets specs. Pump is OK. Pressure does not meet specs Volume does not meet specs. Check for and repair restrictions in fuel system Go to: Electrical Tests Go to: Electrical Tests

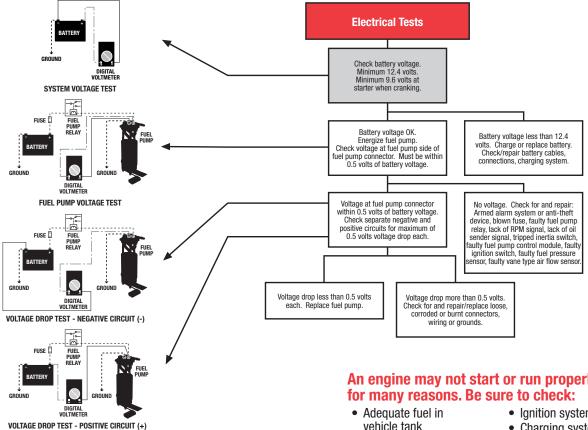


Fuel Delivery Systems



Better Pumps. Better Coverage.

FUEL DELIVERY SYSTEM Diagnostics



The most common reasons for repeat fuel pump failures are:

- Misdiagnosis
- · Not measuring fuel volume
- Not replacing fuel filter and strainer(s)
- Fuel contamination
- Not properly cleaning and flushing inside of fuel tank
- Not correcting vehicle electrical connector, wiring and ground issues
- Not resetting a tripped inertia switch
- Not checking for oil pressure and RPM signals

- An engine may not start or run properly
- vehicle tank
- Fuel filter has
- been replaced
- Fuel system has no leaks •
- Fuel is fresh and of good quality
- · Fuel delivery electrical system checks OK
- Engine mechanical systems check OK
- Electrical systems check OK

- Ignition system checks OK
 - Charging system checks OK
 - Battery voltage is at least 12.4 volts
 - Cranking voltage is at least 9.6 volts
- Inertia switch is reset (typical of Ford applications)
- Oil pressure and RPM signals are present (various applications)

See vehicle specific service information for fuel delivery system specs, detailed safety, diagnostic and repair information.

Safety Information: Repair procedures, tools, and parts to service motor vehicles, and the experience of the person performing the work make it impossible to describe all ways or conditions under which motor vehicles are or may be serviced, or to provide cautionary statements regarding hazards that may result.

Standard and accepted safety precautions and equipment should be used when handling toxic or flammable materials. Safety goggles, other protection, and appropriate clothing (long-sleeve shirt, trousers and safety shoes) are required. Make sure your work area is well ventilated and not exposed to heat, electricity, or open flames. No smoking! Clean up spills immediately and have a Class B or C fire extinguisher readily accessible. Consult appropriate repair manuals for any required special tools.

Not for use in marine or aircraft applications.



