



Fuel RX · D-1000



Use with Motor Magic™ D-501

Diesel Fuel System Service

- Restores diesel engine to peak efficiency in 40 minutes
- Cleans the diesel fuel system of carbon, gums, and varnish – safely and completely
- Improves engine performance, drivability, and fuel economy
- Enhances fuel atomization & reduces emissions
- Requires only a simple hook up to your engine's fuel inlet and return lines
- Simplified controls allow system to be operated by junior level technician
- Helps control fleet maintenance costs
- Builds repeat service business and gross profits



D-501 FUEL SYSTEM CLEANER

- Removes Carbon, Gum & Varnish from Fuel System
- Increases Injector and Engine Life
- Reduces Diesel Smoke
- Increases Fuel Mileage
- Restores Horsepower
- Meets Diesel Engine Mfgr.'s Warranty Requirements
- For Professional Use Only



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The Benefits of Diesel Fuel **Rx**

This preventative maintenance service restores engine performance by removing dirt, carbon deposits, gums, and varnishes from fuel diesel engines up to 1500 hp. Built-in diagnostic capabilities enable a technician to check the temperature of individual injectors, and check fuel pressure, fuel volume and system leak down (internal pressure loss), regulator opening and closing pressures, and conduct a pulse test on individual injectors and cold start valves.

How it works

Think of the Diesel Rx service as a kind of Kidney dialysis machine for your diesel engine. It cleans the entire fuel and combustion system—the fuel lines, injector pump, fuel injectors and combustion chambers—without having to remove engine components. This service helps restore engine throttle response, improve fuel economy, and reduced exhaust emissions.

The fuel system cleaning cycle consists of 4 phases: 1) Connecting to the vehicle; 2) Cycling solution; 3) Filtering the residuals; and 4) Running the engine at idle. On most diesel vehicles the entire process is completed within 45 minutes.

During the first phase (*engine off*) the Diesel 1000 machine is connected to the vehicle's fuel system inlet and return lines with vehicle specific adapters. The fuel supply from the engine's fuel tank is bypassed and is replaced with the fuel/solvent tank located inside the ECS Model D 1000 machine. With the engine off, Motor Magic cleaning solution GX-501 is pumped through the engine's fuel system. Contaminants are dissolved and captured by a filter in the machine. Once this cleaning cycle is completed, the engine is started and run at idle while a mixture of concentrated detergent and diesel fuel is circulated through the engine's fuel system. Carbon and other contaminants are removed from the engine's fuel system, and exit the engine through the exhaust pipe.

Depending on engine size, design, and level of contamination (*mileage*), approximately 1 ounce of GX 501 solution is used per cylinder during the cleaning process. GX -301 is a powerful fuel detergent that is safe for all diesel applications. It has no adverse effect on engine seals or gaskets. MSDS sheets are enclosed with shipping documents and may be obtained on request.

Recommended Service Interval

Diesel Rx is recommended every 100,000 miles or 1,600 hours for mechanically controlled engines. Electronically controlled engines should be serviced every 150,000 miles or 2,400 hours. Also service when your vehicle has any of the following systems: lack of power, rough idle, poor throttle response, and increased fuel consumption. If your diesel vehicle failed an emissions test or is ticketed for excessive exhaust smoke, a fuel system cleaning is also recommended.

Diagnostic Capabilities

- Use Infrared thermometer for checking individual injectors and manifold temperature

Technical Specifications

Power Supply: 12 v or optional 110 Volt AC converter

Circuit Protection: 15 Amp Circuit Breaker

Hoses: 1-line hook-up high or low pressure

2-line hook-up high or low pressure

Tank: 5-gallon solvent/fuel mixture tank

Pumps: High volume priming pump @ 68 gallons-per-hour

Fuel Filter/Water Separator: Standard. May be replaced with standard spin-on fuel filter. Comes equipped with Cummins filter head. Other OEM filter heads available.

Adapters: Included for most engines

Dimensions – 38" high, x 20" wide x 14" deep

Shipping Weight – 65 lbs. (Kg).

Cabinet – Power Coated Metal

Cleaning Cycle: Petrol 4-cyl 15 min., 6-cyl. 20 min.

8-cyl. 25 min.

Alarm: 98-decibel alarm sounds when cleaning cycle completed

Warranty: 2 year limited warranty

Manufactured by:



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