

# Electronic Unit Pump Injector Assemblies For Mack Trucks

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## Electronic Unit Pump Injector Assemblies

The unit pump injection system (UPS) injects the fuel into the engine cylinder. It consists of an electronically controlled unit pump and a nozzle holder assembly connected via a precisely adapted high-pressure line. The unit injector system (UIS) is a nozzle holder assembly with integrated high-pressure pump.

## Unit-pump-system and unit-injector-system

Showing 1 - 15 of 84 items EUI stands for Electronic Unit Injector, and was designed primarily for trucks and it was adopted by Land Rover and VW for passenger cars. Because an EUI can only be electronically controlled when the fuel cavity is pressurised from the camshaft lobe.

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E.U.I. (Electronic Unit Injectors) - Darwen Diesels Ltd

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The Unit Injector System (UIS) has been on the market since 1994. The system combines the injection nozzle and the high-pressure pump in a single assembly. One such Unit Injector is fitted in the head of each engine cylinder. The high pressure is built up by the activation of the pump plunger of the Unit Injector by the engine camshaft via a tappet or rocker arm.

Electronic Unit Injector& Electronic Unit Pump

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Each engine cylinder is supplied by a separate module consisting of a high-pressure plug-in pump with integrated, fast-switching solenoid valve and nozzle holder assembly. The unit pump is integrated in the diesel engine block and powered directly by an injection cam on the engine camshaft via a roller plunger.

Unit pump on pump-line-nozzle system (UPS) for large engines

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### Electronic Unit Pump Injector Assemblies For Mack Trucks

Electronic unit injectors are mechanically pressurized using electronic control of governing, timing and metering functions. A unit injector consists of several basic elements. 1. The spring-loaded plunger and barrel assembly to pressurize fuel inside the injector. 2. A poppet valve, known also as a spill control valve or solenoid needle valve that

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The fuel pump is combined with the fuel level sending unit and float in the "fuel pump

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module assembly," which fits inside the tank through a hole in the top of the tank. The fuel pump assembly is held in place with fasteners or a lock ring, and sealed with a gasket or O-Ring. Replacing the pump module usually requires dropping the fuel tank.

### Electronic Fuel Injection: Pump Maintenance | KnowYourParts

As with the Unit Injector System, each engine cylinder has a single-cylinder pump with integrated solenoid valve. This is connected to a conventional nozzle-holder combination via a short high-pressure line. This construction allows fuel-injection pressures of up to 2,200 bar. The high-pressure pump is driven directly by the engine camshaft.

### Unit Pump System (UPS), Bosch Unit Pump System, Unit Pump ...

The requirement for more flexible control of injection parameters gave rise to a new form of unit injector, called the "electronic unit injector" in which the traditional P-L-N pumping element design has been replaced by a plain plunger and a high speed, electromagnetically (solenoid) operated spill valve.

### Unit Injector and Unit Pump Systems - DieselNet

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Injector Code Calibration; Use Tooling (A) to install electronic unit injector (1) in the cylinder head. Install socket head bolts (3). Tighten socket head bolt (3) on the exhaust side of the cylinder head until the bolt is seated. Tighten socket head bolt (3) on the inlet side of the cylinder head to a torque of  $12 \pm 1$  N·m ( $106 \pm 9$  lb in). Connect harness assembly (2) to electronic unit injector (1) .

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Delphi E3 Diesel Electronic Unit Injector - Diesel Engine ...

A Unit injector is a high pressure integrated direct fuel injection system for diesel engines, combining the injector nozzle and the injection pump in a single component. The plunger pump used is usually driven by a shared camshaft. In a unit injector, the device is usually lubricated and cooled by the fuel itself. High pressure injection delivers power and fuel consumption benefits over earlier lower pressure fuel injection by injecting fuel as a larger number of smaller droplets, giving a much

Unit injector - Wikipedia

With almost 20 years experience in the test and repair of common rail and electronic unit injectors, Darwen Diesels can provide an experienced- backed quality service.

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Diesel Fuel Pumps Prior to the advent of common rail, the diesel pump was one of the most important components in delivering diesel to the combustion chamber.

Diesel Injectors and Pumps (3) - Darwen Diesels Ltd

Two types of pump were common place, the rotary and the in-line pump. In the rotary pump the fuel outlets were radial whereas the in line pumps the delivery was sequential. Examples of these could be AEC, Bedford TK and KM, Ford D Series, Ford Cargo, Gardner LW, LXB, LXCT and LX, Leyland 600, 680 and 680 PP, GMC, Mercedes, British Leyland models including the Sherpa, Transit, the Volkswagen LT ...

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