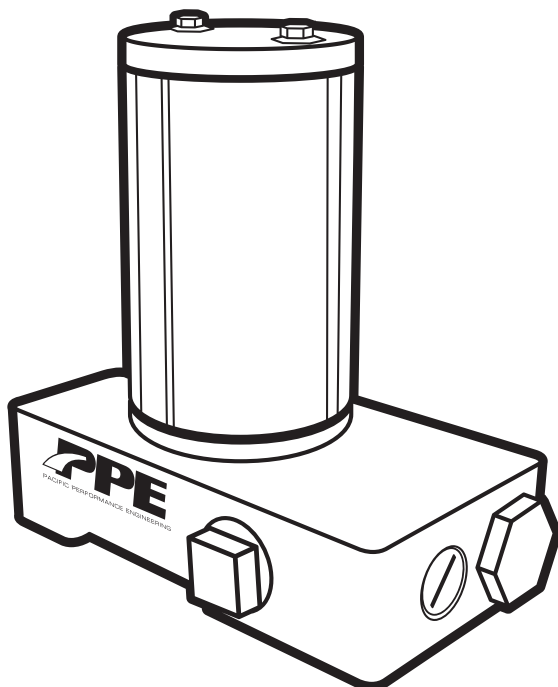




Diesel Fuel Lift Pump

(113050000)

Installation Guide



****IMPORTANT GENERAL SAFETY PRECAUTIONS****

CAUTION: Installation of this product should only be performed by those persons knowledgeable in the repair and modification of high performance automotive fuel systems.

WARNING: Fuel system may be under pressure!

Do not loosen the fuel system connections before relieving pressure. Some fuel may leak when loosening the fuel system connections. Eliminate potential fire hazards before loosening any fuel system connections. Always wear appropriate personal safety equipment, such as safety goggles and other apparel as needed, for protection from debris and sprayed gasoline. Work in a well-ventilated area and keep an working fire extinguisher nearby. Extinguish any open flames and eliminate all sources of ignition in the area of the vehicle BEFORE proceeding with the installation.

INSTALLATION GUIDELINE

- Mount the fuel pump as close to the fuel tank as possible. The fuel pump can be mounted on the vehicle frame or body sheet metal (use appropriate mounting hardware, including fender style washers on sheet metal). The fuel pump can be mounted in any direction, vertical positioning is not required.
- If possible, mount the fuel pump at the same height as the factory fuel line connection is to the tank.
- If installing on a Duramax-equipped truck, install the fuel pump on to the shelf next to the fuel tank.
- Connect the electrical power to pump using appropriate soldering techniques or terminals. Use minimum 14 gauge wiring for all connections. Run pump through an independent 10 amp fused circuit, so that the fuel pump only comes on when the ignition is in the "ON" position. Pump must not be connected to the battery. An electrical relay can be used with the fuel pump circuit. Ensure that the pump's negative wire (black color) is properly grounded to the vehicle's chassis (See Relay Wiring Diagram, pages 6-7).

Step 1 With the ignition off and the engine cool, disconnect the negative battery terminal and relieve the fuel system pressure. See page 3 for proper safety precautions.

Step 2 If your truck is equipped with an OEM lift pump then continue with Step 2, if your truck is not equipped with an OEM lift pump then proceed to Step 3.

Disconnect the existing pump fuel lines. Plug the open fuel line ends to prevent leakage and foreign matter from entering the fuel system. Remove the pump mounting screws and remove the existing pump.

Step 3 Assemble the mounting bracket and the rubber isolator to the pump. Torque the bracket screw to 5-15 ft.lbs. Mount the new pump in a suitable place on the vehicle chassis using quality hardware (not supplied). Refer to the Figure on pg 5 for mounting hole locations. Replace the existing fuel lines as necessary to line up with the new pump.

CAUTION: Use common sense when routing fuel lines and electrical harnesses. Keep them away from hot exhaust components and/or moving parts. Properly secure lines to prevent chaffing or abrasion. Fuel lines should never be routed inside the passenger compartment of the vehicle! It is also recommended that all fuel lines be routed on the inside of chassis frame rails as close to the fuel tank as possible.

Step 4 Connect and tighten 1/2" NPT fittings (not supplied) on the inlet and outlet fuel lines (see Figure 1). Use thread sealer (not supplied) on fitting threads.

Step 5 *Connect electrical power (12 VDC) to the pump as described in the above installation guidelines.*

CAUTION: Use care to route all electrical wires clear of moving suspension, driveline or exhaust components. Protect wires from abrasion and road debris.

Step 6 If not previously equipped, attach a fuel pressure gauge to the fuel system.

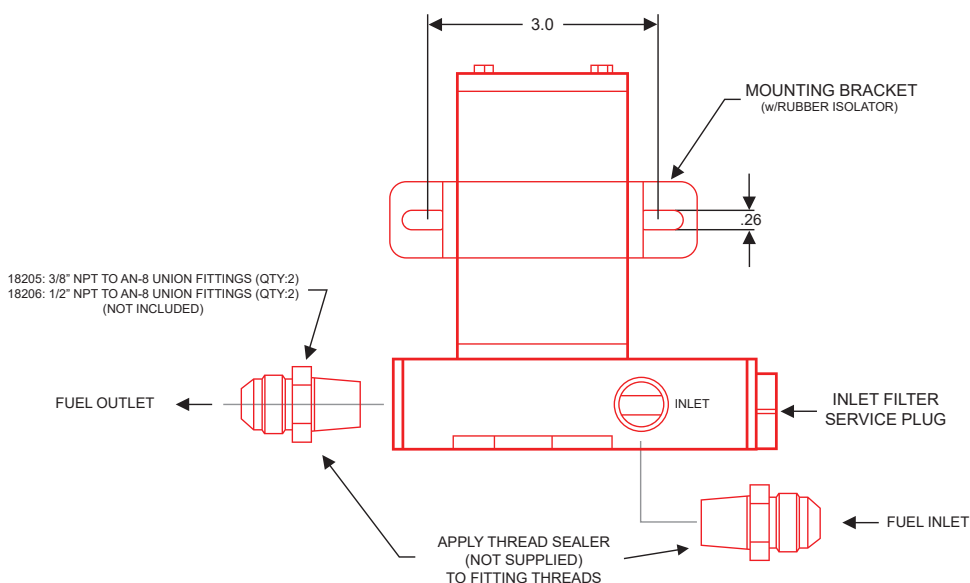
Operating pressure 4-8 psi with engine idling. Pressures are not user adjustable.



Step 7 Reconnect the battery. Turn the ignition to ON (without starting the engine) and check for fuel pressure after allowing the pump to run for several seconds. If there is no pressure, then turn the ignition to OFF. If no pressure is registered on the gauge after running the pump for several seconds and you have found no leaks, check all fuel and electrical connections to determine the cause.

WARNING: If any leaks exist, shut the power off immediately and repair before continuing.

Step 8 Once steady fuel pressure is obtained, start the engine and check the fuel system for leaks.

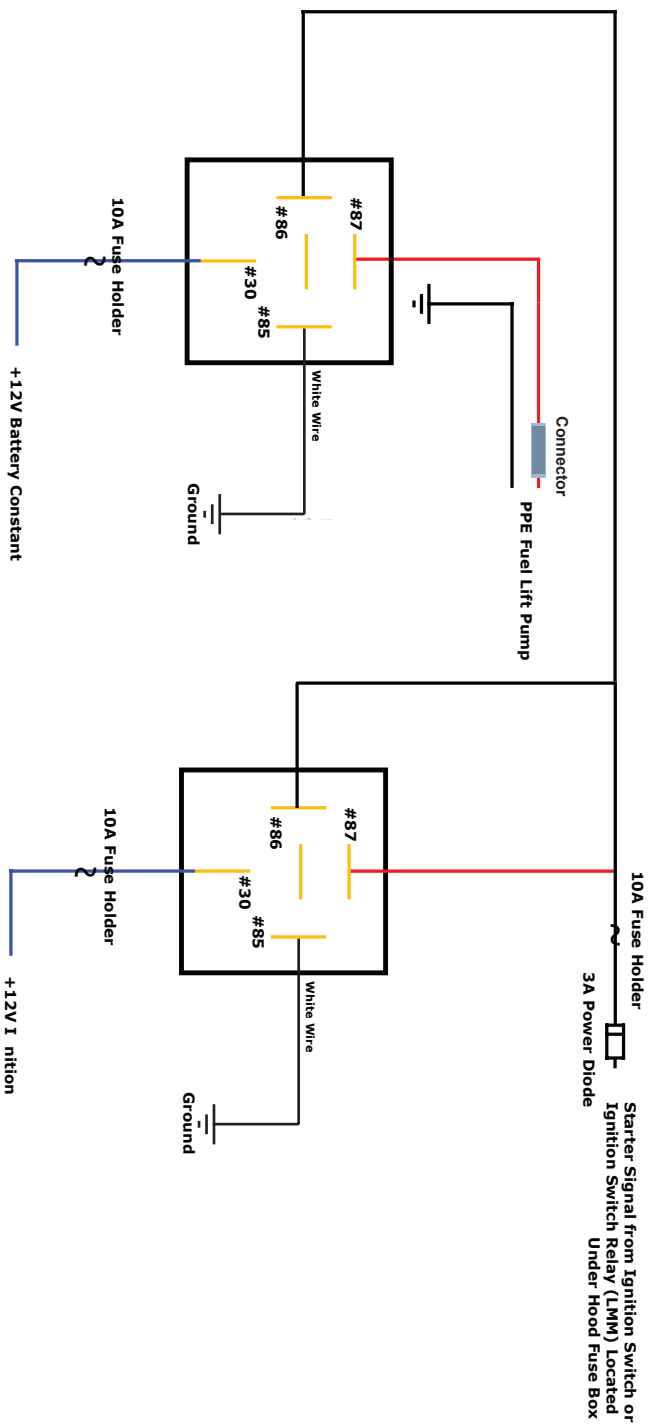


Maintenance:

Clean the inlet strainer filter a minimum of once per year (more often when operating in dirty environments). Remove by loosening filter service plug and removing element.

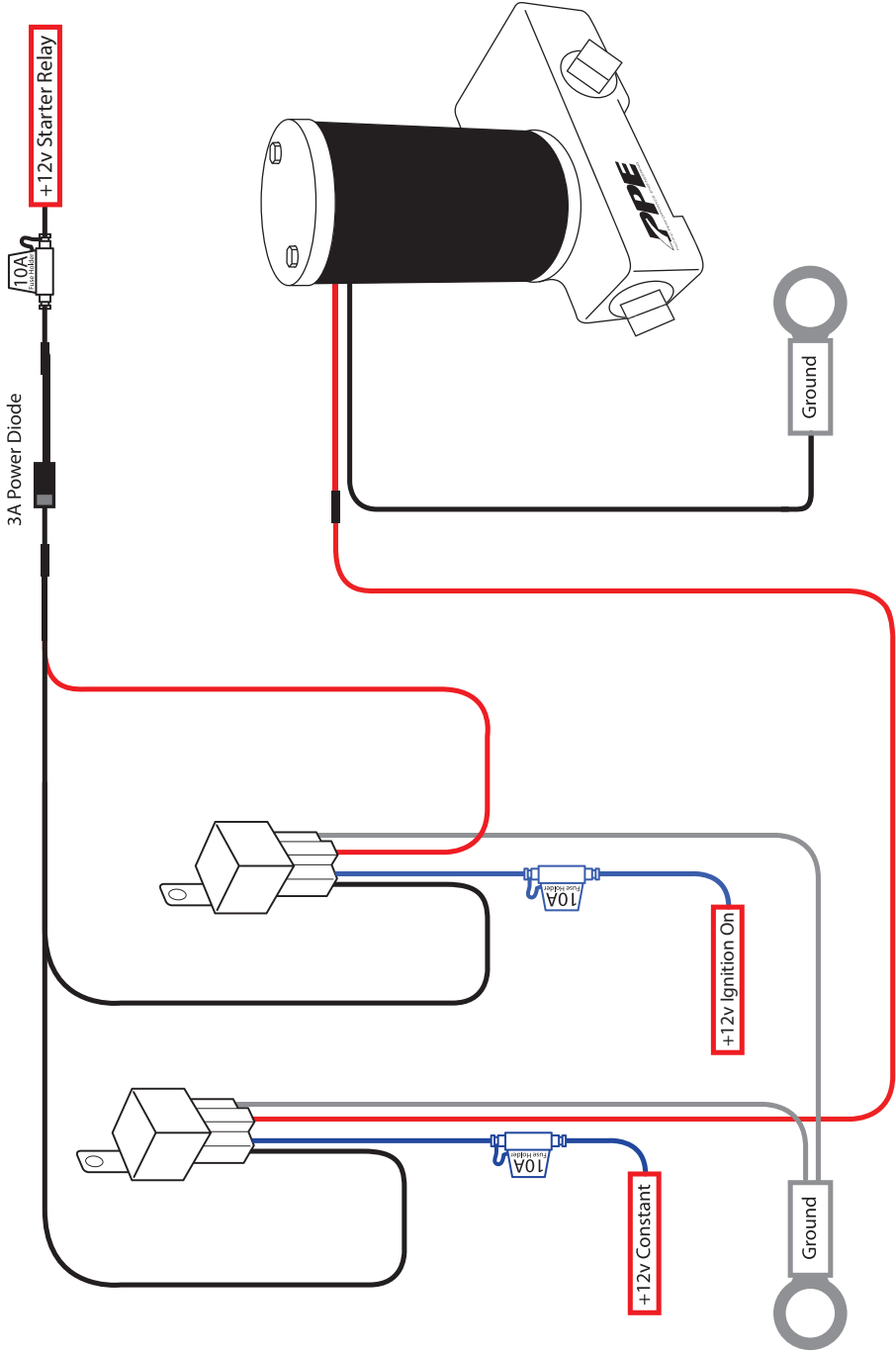
WARNING: Be sure to have the fuel level very low, and an approved container with funnel ready to capture leaking fuel near by. Fuel may exit the service plug and completely drain the fuel tank or cell. Clean the filter element with solvent and compressed air. Lubricate O-Ring and reinstall the filter with the filter service plug. Tighten the plug to between 5 to 15 ft.lbs. of torque.

TECHNICAL WIRING DIAGRAM



For pump to run when key is in cranked position

VISUAL WIRING DIAGRAM



Recommended

Lift Pump Fuel Line Install Kit - GM

There is more to installing that new electric lift pump onto your 6.6L Duramax than just bolting it up. You need to plumb it in as well. This kit provides the exact hoses, fittings, and clamps that you will need to easily complete the installation of the PPE Fuel Lift Pump.

Includes:

- 1/2 inch or 5/8 inch Fitting/Hose/Clamps for connecting fuel tank to lift pump
- 1/2 inch Fitting/Hose/Clamps for connecting lift pump to truck

Features:

- Pre-cut hoses for easy installation
- Brass fittings

Applications: 2001-2010 Chevrolet and GMC pickups with 6.6L Duramax
1/2 inch (113058000), 5/8 inch (113058100)

*(113058000) Use with
Stock Fuel Pick Up*



*(113058100) Use with PPE Fuel Pick Up
(113052000 or 113054000)*

DISCLAIMER OF LIABILITY

Performance products can increase horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drive-train components, which could result in drive-train failure.

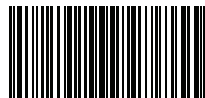
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LIMITATION OF WARRANTY

The Seller gives Limited Warranty as to description, quality, merchantability, and fitness for a particular purpose, productiveness, or any other matter of Seller's product sold herewith. The Seller shall not be responsible for the products proper use and service and the Buyer hereby waives all rights other than those expressly written herein. This warranty shall not be extended, altered or varied except by a written instrument signed by Seller and Buyer. The Warranty on PPE Manifolds and Up-Pipes Kits, OEM-Length Up-Pipes is three (3) years, a limited lifetime warranty on PPE cast aluminum pans and covers, and a limited lifetime warranty on PPE Transmission Coolers and one (1) year limited warranty on all other PPE products from the date of sale to original buyer and limited solely to the parts contained within the products kit. All products that are in question of Warranty must be returned prepaid to the Seller and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Seller. Under no circumstances will the Seller be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or re-installation - of this product or any other contingent expenses. Under no circumstances will the Seller be liable for any damage or expenses incurred by reason of the use or sale of any such equipment. In the event that the buyer does not agree with this agreement: the buyer may promptly return this product, in a new and unused condition in its original packaging, with a dated proof of purchase to the place of purchase within ten (10) days from date of purchase for a full refund. The installation of this product indicates that the buyer has read and understands this agreement and accepts its terms and conditions.

⚠ CA WARNING: Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands. For more information see www.P65Warnings.ca.gov/motor-vehicle-parts.



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