

Installation Instructions for 159010 HP Electric Fuel Pump

Installation Instructions

Parts included in this kit:

- (1) High flow electric in-line fuel pump
- (2) Mounting brackets,
- (2) Crimp terminals with protective boots

Please read these instructions completely before installing your new fuel pump. Installation of this pump requires detailed knowledge of repair and modifications to a high performance fuel system. We recommend that a qualified automotive technician perform the installation procedure.

Note: Do not run this pump without fuel (*except for a brief period while priming*)

Caution: Please make sure to wear appropriate safety apparel. Work in a well ventilated area. Extinguish any open flames and eliminate any source of ignition or sparks in the area.

Warning: The fuel system operates under pressure. Do not open the fuel system until the pressure has been relieved. Please refer to your appropriate service manual for the correct procedure to relieve the fuel system pressure. Fuel leakage will occur when loosening any fuel system connections. Be sure to be ready to safely contain any fuel leakage.

Performance Specifications:

- Maximum recommended operating pressure: 65 PSI continuous, 90 PSI intermittent
- This fuel pump is rated for both gasoline and gasoline/ethanol blends up to E85.
- This fuel pump utilizes port style O-ring fittings; -08 AN inlet and -06 AN outlet. **DO NOT** use pipe thread or thread sealant with these fittings.
- A high capacity fuel “pre-filter” with either a 40 micron, to no greater than 100 micron rated element should be installed in the fuel line between the tank and the fuel pump inlet.

General recommendations:

- A by-pass or return style fuel pressure regulator **MUST** be used with this fuel pump.
- Gravity feed this pump by mounting it as low and as close as possible to the fuel tank. The installation of either a rear mount reservoir style sump or a high flow capacity fuel tank pickup in your stock tank is highly recommended. These will insure that the fuel pump is able to self prime and avoid pump starvation and cavitation. Failure to follow these recommendations will result in poor fuel system performance and drastically shorten the fuel pumps life.

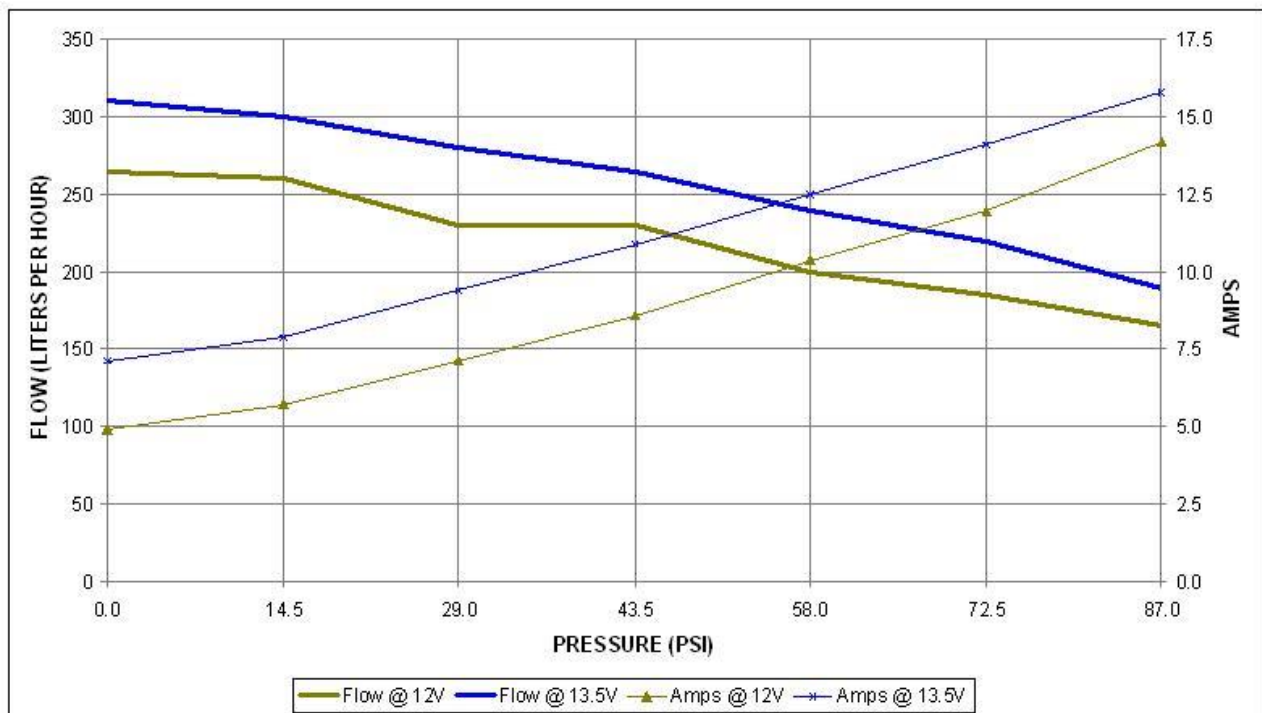
Installation:

1. Wait for the engine to cool. Make sure the ignition system is off or disconnect the negative battery cable. Relieve the fuel system pressure.
2. Raise and secure the vehicle to allow working access under the vehicle. Following the appropriate service manual procedure to; disconnect the existing fuel pump lines, plug all open fuel lines to keep fuel from draining and debris from entering, remove the existing fuel pump.
3. Install either the after-market fuel tank rear mount sump or high flow capacity fuel tank pickup per the manufactures instructions.
4. Assemble the mounting brackets onto the fuel pump. Determine the new fuel pump mounting location. Remember it needs to be as low and as close to the fuel tank as possible.



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5. Make sure that the fuel pump location will accommodate the mounting brackets. Also make sure that the fuel pump, lines and pre-filter locations will be free from any interference with the exhaust system as well as clear of any moving suspension system or drive train components. Keep the fuel pump clear of any road obstacles or debris that can be kicked up by the tires. Make sure you have access to the pre-filter so that the element can be periodically cleaned and/or changed.
6. Use the mount brackets as a template, mark and drill the four mounting holes.
7. Install the fuel pump making sure the fuel pump is facing the correct direction. The outlet side is the same side as the fuel pump's electrical connections.
8. Install the inlet and outlet fittings (*available separately*). Connect the fuel tank pickup line to the pre-filter and the fuel pre-filter to the fuel pump inlet. The pre-filter can be directly mounted to the fuel pump inlet or via a short section of fuel line if necessary. Make sure that if you must use angled fittings, that they are of a sweep design to minimize any flow restrictions. Most fuel system problems are due to flow restrictions on the inlet side of the fuel pump. If at all possible do NOT use forged hard angled fittings.
9. Make sure you are using a correctly rated high pressure fuel line from the fuel pump to the engine. Make sure that you are using a high flow 10 micron fuel filter between the fuel pump and the fuel pressure regulator. We recommend fuel filter 555-150052, 555-150070, or 555-150000 (*available separately*) or a similar 10 micron fuel filter. Make sure you are using a return style fuel pressure regulator.
10. Fuel pump wiring – We recommend that you use a 30 amp Fuel Pump Harness & Relay kit 555-10564 (*available separately*). Please follow the wiring instructions included with this harness kit. Connect a 12ga **BLACK** wire to the negative (-) terminal on the fuel pump and to a quality ground location such as an engine ground or the negative battery terminal to chassis ground location. Connect a **RED** 12ga wire from a 12v key-on switched connection, such as a 30 amp relay to the positive (+) terminal on the fuel pump. Use a 30amp inline fuse or the circuit breaker included with the Harness kit. Double check to make sure the power to the pump is only on when the ignition key is on.
11. Check for leaks – Turn the ignition key to the “Run” position without starting the engine. This will power up the fuel pump. Check for any fuel leaks at all the connections. Fix and repair any leaks immediately before operating the vehicle



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