

INSTALLATION INSTRUCTIONS

PRODUCT: LLY/LBZ/LMM DURAMAX POWERFLO LIFT PUMP

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FITMENT: 2004.5-2010 Duramax equipped Chevy/GMC trucks

KIT P/N: FPE-34789

ESTIMATED INSTALLATION TIME: 2-3 Hours

TOOLS REQUIRED: 1/4" drive ratchet, 1/4" drive 8mm socket, 1/2" drive impact or ratchet, 1/2" drive 15mm socket, side cutters, large hammer, and punch or chisel.

KIT CONTENTS:

Item	Description
1	PowerFlo lift pump with float arm
2	Wiring harness with zip ties
3	O-ring
4	Warranty registration card



WARNINGS:

- Fuel lines must be clean before installation.
- Never run the fuel pump dry, always ensure there is fuel in the tank before powering the pump on for the first time.
- The purchaser and end user releases, indemnifies, discharges, and holds harmless Fleece Performance Engineering, Inc. from any and all claims, damages, causes of action, injuries, or expenses resulting from or relating to the use or installation of this product that is in violation of the terms and conditions on this page, the product disclaimer, and/or the product installation instructions. Fleece Performance Engineering, Inc. will not be liable for any direct, indirect, consequential, exemplary, punitive, statutory, or incidental damages or fines cause by the use or installation of this product.

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INSTALLATION PROCEDURE:

STEP 1: Disconnect batteries and block the tires.

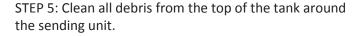
STEP 2: Disconnect the fuel filler line from the top of the fuel tank with an 8 mm socket.

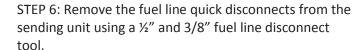
STEP 3: Disconnect the fuel supply and return lines from the fuel cooler located on the front side of the fuel tank.

STEP 4: Support the tank with an adequate lift and remove the two, 15 mm bolts that retain the tank straps.

STEP 5: Lower the fuel tank to the ground. Disconnect the electrical connector from the top of the sending unit.

Move the tank into an area where you have clear access to the tank.











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NOTE: Mark the orientation of the sending unit relative to the tank to ensure proper orientation of the PowerFlo pump during installation.

STEP 7: Using a hammer and punch, rotate the retaining ring counter clockwise. Remove the retaining ring that holds the OEM sending unit into the tank and remove the sending unit from the tank by lifting it upward. Remove the sealing o-ring from the tank.

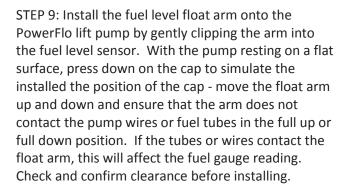






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STEP 8: Clean all debris from around the o-ring groove and tank sealing surface. Place your <u>new</u> oring supplied in the kit for the PowerFlo lift pump onto the top of the tank.

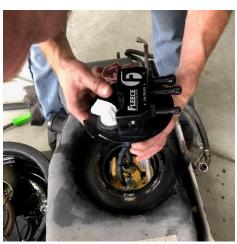


STEP 10: Install the PowerFlo pump assembly into the tank, use caution with the float arm and do not overrotate the pump once installed.

NOTE: Use caution when installing the pump to not damage the float arm. Do not rotate the pump once installed in the tank, you may damage the float arm or sending unit – align the pump before you place it into the tank.







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STEP 11: Reinstall the original retaining ring using your hammer and punch by rotating it clockwise to the fully engaged position.

STEP 12: Install the fuel supply and return lines to the PowerFlo fittings.



WIRING HARNESS OVERVIEW:

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Black Wire – To Battery negative (-) terminal
Orange Wire – To Battery positive (+) terminal
Red Wire – To Switched Ignition (+) in Fuse Block

The Switched Ignition line includes a fuse tap.

Gray Connector – To PowerFlo Lift Pump Black Connector – To OEM harness

Relay – Provides switched 12v power to the PowerFlo pumps.

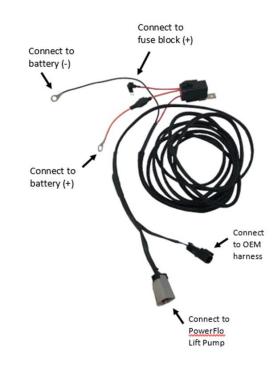
STEP 13: With the fuel tank out of the truck, neatly route the wiring harness from the engine bay to the OEM pump connection. Route the harness in a manner that it will not interfere with any moving parts and retain it with zip ties.

Mount or secure the relay in the engine bay near the fuse block.

NOTE: Leave sufficient slack on the harness at the pump end to allow for plugging in the connection at the pump before raising the tank back up into position.

STEP 14: BATTERY AND FUSE BOX CONNECTIONS Run the orange fused line to the positive (+) terminal of the battery. Run the black line to the negative (-) terminal of the battery.

Select a 10A SWITCHED IGNITION source in the fuse block. Remove the 10 A fuse from the switched source and install the Fleece harness. Insert the fuse tap into the same location as the 10A fuse was removed.





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STEP 15: Connect the electrical wiring harness to the OEM harness and PowerFlo lift pump.

STEP 16: Reinstall the fuel tank. Make the proper connections for the fuel lines, vent, fill tube, and electrical connection. Make sure the quick disconnect fuel lines are fully seated with retaining clips in place. When the quick disconnect fitting is fully seated you will not be able to pull it back off the pump fitting without releasing the retaining clip.

STEP 17: Reinstall all vehicle battery connections. The fused lead from the Fleece supplied harness should be connected to the positive (+) battery terminal and the black lead will should be connected to the negative (-) battery terminal.

STEP 18: Add sufficient fuel back into the tank to submerge the pump bucket.

CAUTION: Never run the pump dry or without fuel in the tank.

Visit http://fleeceperformance.com/resources/ for the latest installation instructions.

For Technical Assistance contact Fleece Performance Engineering at 855-839-5040.