

INSTALLATION INSTRUCTIONS

SUBJECT: SUREFLO SENDING UNIT FOR 2001 – 2004 LB7 DURAMAX

FPE-2023-97
June, 2023

FITMENT: 2001–2004 LB7 Duramax equipped Chevy/GMC trucks

KIT P/N: FPE-SF-GM-0104

EST. INST. TIME: 3 hours

TOOLS REQ'D: 1/2" and 3/8" fuel disconnect tools (included), 15mm deep socket and ratchet, 8 mm socket and ratchet, hammer, chisel or drift.

IMPORTANT: SureFlo performance sending units are designed for use in conjunction with an aftermarket externally mounted fuel pump OR as a replacement sending unit for trucks originally equipped without an in-tank low pressure lift pump. SureFlo units do not contain a pump.

KIT CONTENTS:

Item	Description	Qty
1	SureFlo Sending Unit	1
2	Tank flange seal	1
3	Level sender float	1
4	90 deg -8 hose barb fitting	1
5	-8AN to 3/4-16 adapter fitting	2
6	3/8" Fuel line disconnect tool	1
7	1/2" Fuel line disconnect tool	1



WARNINGS:

- Fuel system, including fuel tank, fuel supply, and fuel return lines must be clean before installation.
- Use of this product may void or nullify the vehicle's factory warranty.
- 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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PROCEDURE:

STEP 1: Ensure you have 1/4 tank or less of fuel in the fuel tank to allow for the tank to be easily lowered and maneuvered. Leave enough fuel in the tank to allow for the pump to draw fuel in immediately once installed.

STEP 2: Disconnect the electrical connector from the fuel level sending unit.

STEP 3: Loosen the 8mm hose clamp on the filler neck and remove the filler neck from the tank.

STEP 4: Remove the fuel lines at the front of the tank, and at the fuel cooler with a 3/8" and 1/2" fuel line disconnect tool.

NOTE: Thoroughly clean the fuel line connection prior to removal with a rust preventative such as WD-40 or PB Blaster. Clean the connection with compressed air or a pick to ensure debris does not become lodged in the fuel line during removal. Have a drain pan or bucket ready to capture the fuel that will drain from the system when the lines are disconnected.



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STEP 5: Place a transmission jack or floor jack below the fuel tank and lightly support it. Remove the tank straps using a 15mm deep socket. With the tank straps removed, carefully support the fuel tank and lower it down to the ground.



STEP 6: Thoroughly clean off the top side of the tank around the sending unit to avoid getting any debris inside the fuel tank when the sending unit is removed.

STEP 7: Remove the fuel lines at the sending unit with the quick disconnect tools.

STEP 8: Using a hammer and a chisel or punch, remove the locking ring by tapping the ring counter-clockwise.



STEP 9: With the fuel lines and retaining ring removed, clean any remaining debris away from the sending unit with a vacuum and rag and avoid debris entering the fuel tank when the sending unit is removed. Take note of the orientation tab on the sending unit cap, the new lift pump will orient in the same manner as the original.



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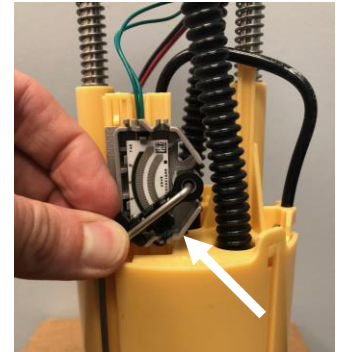
STEP 10: Remove the OE sending unit and sealing flange from the tank. Discard the original seal ring.

STEP 11: Thoroughly clean the tank surface where the new SureFlo will be installed. Inspect the inside of the fuel tank for any debris. If any debris is present, the tank must be cleaned.



STEP 12: Install the new flange seal included with the SureFlo. Slide it up from the bottom of the bucket - sliding it all the way up to the flange. Perform this step *before* installing the fuel level float arm.

Install the fuel level float arm onto the lift pump by gently clipping the arm into the fuel level sensor.



STEP 13: Install the SureFlo sending unit assembly into the tank and reinstall the retaining ring using a hammer and punch by rotating it clockwise to the fully engaged position. Ensure proper orientation of the pump and fitting by aligning the alignment tab on the lift pump cap with the marks on the fuel tank.



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

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STEP 14: For aftermarket pumps that have a fuel return from the pump: remove the hex plug located on the side of the sending unit cap and install the -8 to 3/4-16 O-ring fitting and 90 degree push-lock fitting. This will allow you to run your injector return fuel and pump return fuel directly to the SureFlo bucket, ensuring optimal performance. This step must be performed **AFTER** the retaining ring is in place. Alternatively, you may run your injector return fuel and pump return fuel together prior to the SureFlo head port, thereby requiring the use of only one port. In that case, you will not remove the hex cap.

If your truck has an aftermarket pump previously installed and is returning fuel to the filler neck from the pump, it is required that you re-route this to the pump return fitting on the SureFlo or you may encounter fuel supply problems.

NOTE: There is a spring and poppet located under the hex cap. These components must remain installed when using the port as a secondary return.

STEP 13: Connect the fuel supply and fuel return to the SureFlo.

STEP 14: Reinstall the fuel tank. Make the proper connections for the fuel lines. 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.

Remove the hex cap to allow for pump return fuel to feed the bucket



Pump return – install adapter fitting into the side of the cap



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