

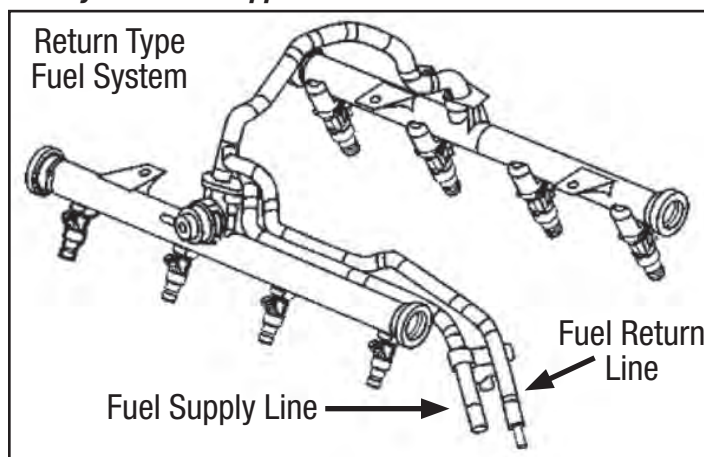
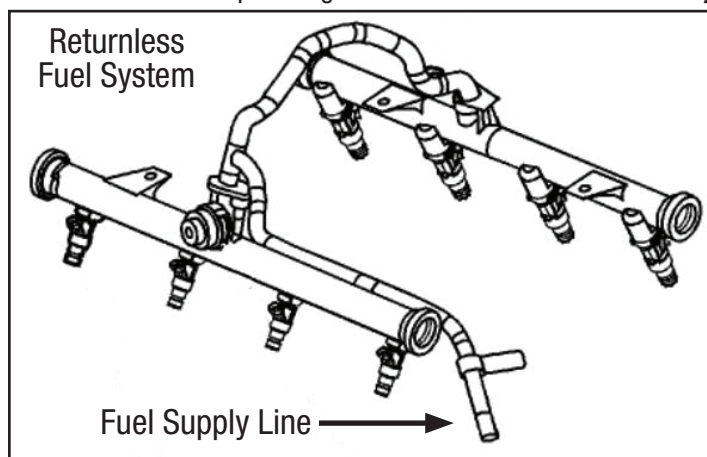


## Supplemental Fuel Pump Kit for #1577 '03-'07 GM 1500 Classic Returnless Fuel System Installation Instructions

**PLEASE** study these installation instructions carefully before beginning the installation. The Supplemental Fuel Pump Kit installation is complex but can be accomplished with common tools and automotive service procedures. However, it is recommended to have a strong familiarity with working on automotive fuel systems before attempting this installation. If you do not feel comfortable performing this installation or have never worked with automotive fuel systems before, it is highly recommended to have the installation completed by a qualified mechanic with access to a service lift and a strong familiarity with automotive service procedures. If you have any questions, please call our **Technical Hotline at: 1-800-416-8628**, Monday - Friday, 7:00 am - 5:00 pm, Pacific Standard Time.

***WARNING: Proper installation is the responsibility of the installer. Improper installation will void the manufacturer's warranty and may result in poor performance and engine or vehicle damage.***

- **DESCRIPTION:** This supplemental fuel kit contains a replacement fuel pump with fuel level sender and a quick connect fitting. This supplemental fuel kit is required for all 2003-'07 GM 1500 Classic Trucks, equipped with a returnless fuel system, utilizing the #1577 E-Force supercharger. **NOTE: Vehicles with return type fuel systems use Supplemental Fuel Kit #15773.**



*Kit includes the following:*

- ☐ 1 - Fuel Pump
- ☐ 1 - Fuel Level Sending Unit

*Tools Required:*

- ☐ GM J 45722 Fuel Sender Lock Ring Wrench  
OR Equivalent
- ☐ Feeler Gage: .41 mm (.016 in)
- ☐ 1/2" Long Breaker Bar
- ☐ Drive Ratchet: 1/2" or 3/8"

- ☐ 1 - 3/8" Male to Female 3/8" Quick Connect Extension
- ☐ 1 - 1/8" NPT Plug

- ☐ 15mm Drive Socket
- ☐ 10" or Longer Socket Extension
- ☐ Service Lift OR Equivalent
- ☐ Compressed Air
- ☐ Small Flat Head Screwdriver

- The procedures for installing the fuel pump module are identical to the OE. It is recommend that you refer to the vehicle's service manual on specific details on how to remove and install the new fuel pump module.
- **Prior to starting this installation, make sure that the fuel level in the tank is below 1/8 of a tank. This will reduce the risk of spillage, as well as making the fuel tank easier to remove.**

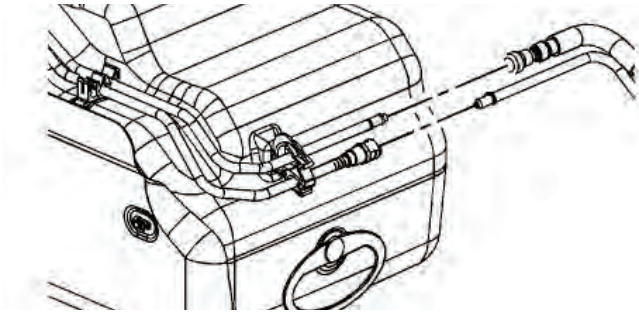
***Always work in a well-ventilated area when working with gasoline as the vapors are toxic and are highly flammable. Be aware of any sources of heat or sparks, such as drop lights or space heaters. Do not smoke and do not allow those around you to smoke during this installation.***

## INSTALLATION PROCEDURE

**It is critical to install the supplemental fuel tank module on a vehicle that is able to start once the installation is complete. Once the supplemental fuel tank module is installed, you must start the vehicle to check for leaks and Diagnostic Trouble Codes. This process can be completed prior or after the supercharger installation. If performed after the supercharger installation, DO NOT DRIVE the vehicle until the supplemental fuel pump kit is installed.**

**Important: Clean the fuel and evaporative emission (EVAP) connections and surrounding areas prior to disconnecting the lines in order to avoid possible system contamination.**

1. Disconnect the Negative (-) terminal from the battery if not already done so.
2. Disconnect the quick connect fuel feed and EVAP line from the chassis hard line.



3. Disconnect the fuel tank EVAP line from the EVAP canister. Cap or tape up the fuel and EVAP lines to prevent possible system contamination.



4. Place an adjustable jack under the fuel tank for support. Using a 15mm socket, remove both fuel tank strap bolts and straps.

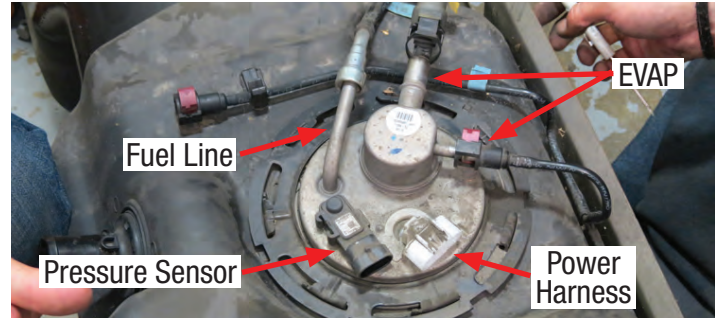


5. Lower the fuel tank slightly. Loosen the fuel fill pipe clamp at the fuel tank and remove the fuel fill pipe from the fuel tank.
6. Disconnect the chassis wiring harness clip at the frame crossmember.

7. Lower the fuel tank until the electrical connections on top of the fuel pump module are accessible.

8. Disconnect the fuel tank pressure sensor and fuel tank module harnesses from the fuel pump module.

9. Lower the fuel tank and disconnect the fuel and EVAP lines from the fuel tank module.



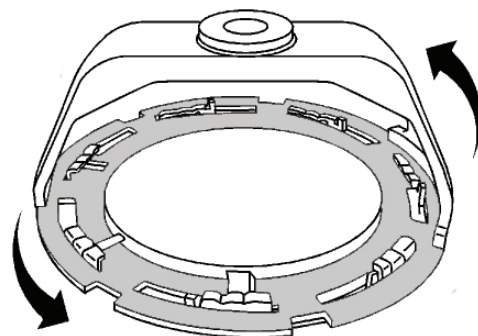
10. Move the fuel line, EVAP lines and harness away from the fuel pump module.

11. Install a J 45722 fuel tank module lock ring tool or equivalent to the module's lock ring.

**CAUTION:** DO NOT damage the lock ring. DO NOT use any impact tools. DO NOT use a hammer and screwdriver to remove the lock ring as they will damage the lock ring. Significant force will be required to release the lock ring. Using a long breaker bar is highly recommended.

**NOTE:** If J 45722 is unavailable, a brass drift can be used.

12. Using the J 45722 and a long breaker bar, rotate the lock ring counterclockwise to unlock the fuel tank module lock ring.

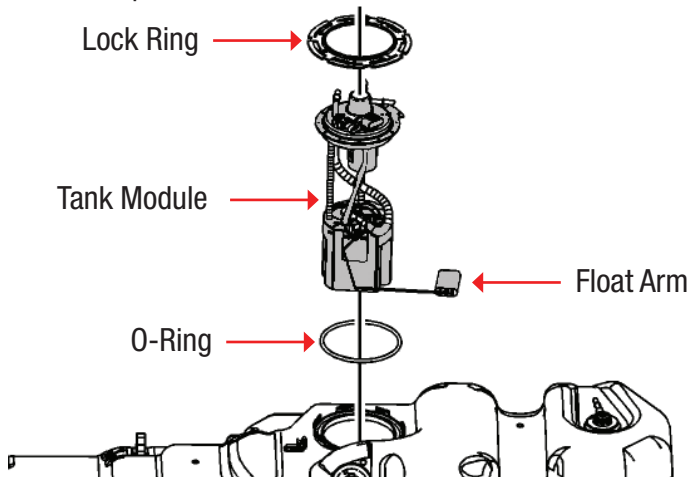


13. Remove the J 45722 and the lock ring.

14. Slowly lift up the module until the float arm is visible.

15. Tilt the module to remove the fuel from the reservoir bucket then fully remove the module. Discard any fuel leftover in the module reservoir bucket.

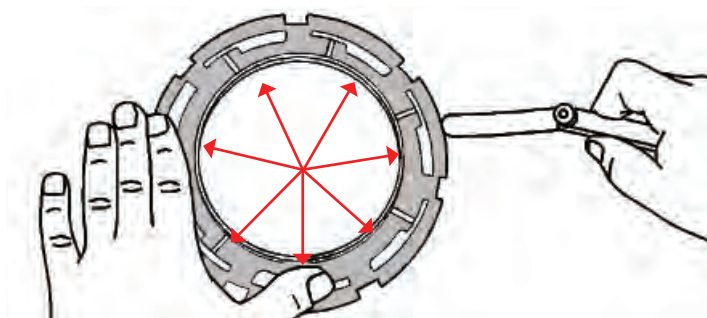
16. Remove and discard the fuel tank module O-ring seal as a new one is provided in this kit.



**NOTE:** Some lock rings were manufactured with “DO NOT REUSE” stamped into them. These lock rings may be reused if they are not damaged or warped.

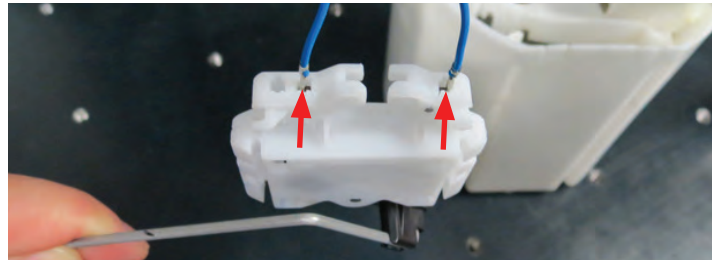
17. Inspect the lock ring for damage due to improper removal. If damage is found, install a NEW lock ring.

18. Check the lock ring for flatness. Place a lock ring on the flat surface and measure the clearance between the lock ring and the flat surface using a feeler gage at all 7 points.

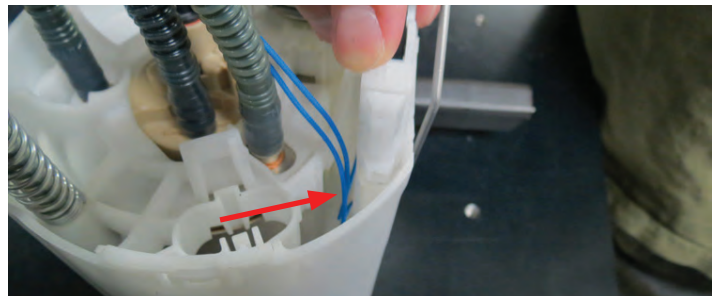


19. If warpage is less than .41 mm (.016 in), the lock ring does not require replacement. If warpage is greater, the lock ring must be replaced.

20. Insert the sending unit leads from the fuel pump module into the provided sending unit until the leads lock into place. **NOTE:** Leads can be connected to either side. Make sure to use the inner connector location on the left side of the sending unit.



21. Install the sending unit onto the fuel pump module. Make sure the sending unit wires do not get pinched between the sending unit and the fuel pump module.



22. Reverse the disassembly procedure to install the new fuel tank module into the fuel tank.

23. Connect the quick connect fitting to the fuel line barb on the fuel pump.

**NOTE:** Quick connect fitting is required as the factory fuel feed line will not connect directly to the new fuel pump.

24. Reverse the fuel tank removal procedure to reinstall the fuel tank.

25. Reinstall the Negative (-) terminal on the battery and start the vehicle. Check for fuel leaks and repair if necessary before operating the vehicle. Check for Diagnostic Trouble Codes, if present.



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