Instructions # 50019/50020
Go Fuel In-Tank Retrofit Kit

NOTE: This In-Tank Fuel Pump Kit can be used with any EFI or carbureted application when the proper bypass regulator is used.

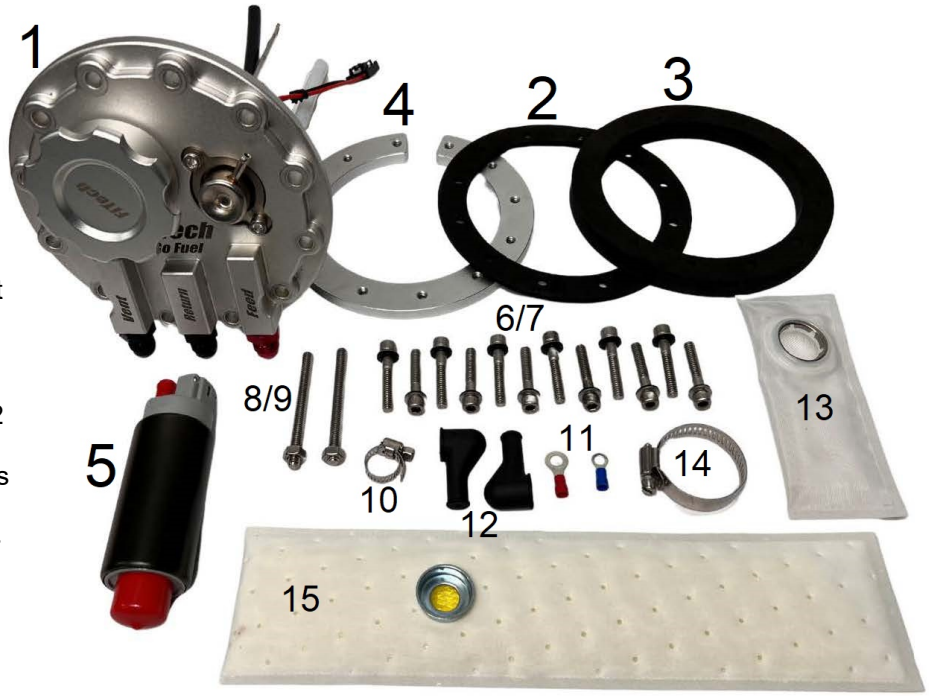
Warning: Caution must be observed when installing any product involving fuel system parts or gas tank modifications. Work in a well-ventilated area with an approved fire extinguisher readily available. Eye protection and other safety apparel should be worn to protect against debris and sprayed gasoline. We recommend having this installation performed by an experienced, qualified, and FiTech approved automotive technician. The finished installation must be thoroughly checked for any fuel system leaks. The fuel system is under pressure, so be sure to relieve the pressure before opening the fuel system. All safety precautions must be observed when working with fuel.

Caution: Before starting this installation be sure the negative terminal is disconnected from the battery, you have proper eye protection, a fire extinguisher handy, and that you are working with a clean and free of combustible fumes fuel tank. The installation of fuel related components should be done in a well-ventilated area free of any possible fire hazards. Gasoline fumes are toxic and highly flammable. Drilling and grinding can be a potential ignition source. Smoking is prohibited and extinguish any open flames. Start with a new fuel tank or have the fuel tank professionally cleaned for the safest install. Failure to comply with these warnings could result in injury or death.

This instruction manual is designed to get you up and running with your FiTech Go Fuel In-Tank Fuel Pump Kit. Please read the full instruction manual before beginning your installation. For technical assistance with your FiTech Go Fuel In-Tank Kit, call 951-340-2624 or email techmail@fitechefi.com

Kit Contents

1. Pump Main Assembly
2. Thin Foam Gasket
3. Thick Foam Gasket
4. C-Ring
5. High Flow Fuel Pump (qty 2 in 50020 Kit)
6. (12) #14 Sealing washer
7. (12) 1/4-20 x 1.5" allen bolt
8. (2) 1/4-20 x 3" threaded stud
9. (2) 1/4-20 nut
10. Fuel Hose Clamp (qty 2 in 50020 Kit)
11. (2) Electrical connectors (qty 4 in 50020 Kit)
12. (2) Rubber Boots (qty 4 in 50020 Kit)
13. Filter Sock V1 (qty 2 in 50020 Kit)
14. Pump mounting clamp (qty 2 in 50020 Kit)
15. Filter Sock V2 (qty 2 in 50020 Kit)



Unpack the kit

Carefully unpack the components of your # 50019/50020 kit. Lay parts out on table and compare with Kit contents above to confirm all parts are in kit.

Recommended Tools

- **Slow Speed Drill Motor**
- **4 1/4" Diameter Hole Saw**
- **Round fine file**
- **Shop Vacuum**
- **3/16 Allen Wrench**
- **Screwdriver: Flat Head**
- **Hack Saw**
- **3/8 and 5/16 Wrench**
- **9/32" Diameter Drill Bit (Optional)**

IMPORTANT Special Instructions

- For extended fuel pump life never let car go below 1/8th tank of gas.
- If using hard fuel lines make sure to use high pressure EFI rated lines and flared fittings.
- Make sure that you remove ALL low-pressure flex joints on factory fuel lines and replace them with EFI rated fuel hose and use proper flared connections and clamps. Be careful not to mix 45° SAE fitting and 37° AN fittings, they look similar but will not work together. 45° SAE fittings usually come from a hardware store or auto parts store while 37° AN fittings are the ones supplied by FiTech and most speed shops.
- Use at least a 3/8" ID hose for a return line.
- FiTech does not recommend aluminum fuel lines EVER! Use EFI high pressure fuel hose on any plumbing in your system where high pressure is present.
- If using Push-Lok style hose and fittings in your fuel system, make sure all parts come from the same manufacturer. Mixing brands of hose ends and hose could cause leaks.
- FiTech's EFI systems are designed for use with unleaded pump gasoline. Leaded gasoline is not recommended for safe operation.
- Relieve the pressure from within the system before opening the fuel system.
- **Very important note: Your fuel tank must have a vent or use a vented cap to prevent pressure building up inside the tank!**

Features

The FiTech Go-Fuel In-Tank Pump Module is designed for almost any fuel tank depending on depth. By mounting the fuel pump in the appropriate position on the return tube, it can be installed in tanks ranging from 7 to 15 inches in depth. Note that these instructions and this kit address installation in baffled fuel tanks (Sock Version #1) as well as stock fuel tanks (Sock Version #2). The system comes with a high flow fuel pump or pumps. These pump flow 340 LPH which is good for up to 800 HP in naturally aspirated applications. Properly mount fuel pump with proper fuel tank sock to ensure clean fuel, extended fuel pump life, and a steady pickup to the pump. If necessary, replacement parts are available from: www.FiTechEFI.com

Caution: Wear eye protection and ensure tank is free of combustible fumes!! Have a radiator shop boil out the tank.

If installing into Fuel Cell with 12 Bolt Flange already drilled skip to Installing the C-Ring on next page.

Drilling the hole:

1. The In-Tank assembly must be installed into the top side of the fuel tank.
2. Before beginning to cut the 4 1/4" diameter hole, determine a location to drill the hole in a central position on the fuel tank. Use the C-ring to help choose the location. Try to find a flat area of the tank. If this is not possible due to ribs in the tank, the supplied thick foam gasket will be required for the installation.
3. In selecting your hole location, be sure to avoid the stock fuel level sending unit assembly and stock fuel pump pickup.
4. With the C-ring in position, mark a spot in the center of the ring. Using a scribe, you can scribe a circle around the inside of the C-ring and then measure from the scribed line to find the center point.
5. Now, you are ready to begin your cut, drill a 1⁄4" pilot hole in the center of the X spot. (Figure 1)
6. Then using a slow speed drill with a 4 1/4" hole saw, cut a hole in the tank. (Figure 2) **Caution edges will be sharp once hole is cut through the fuel tank.**
7. Remove the cut piece and use a file to deburr the sharp edges.

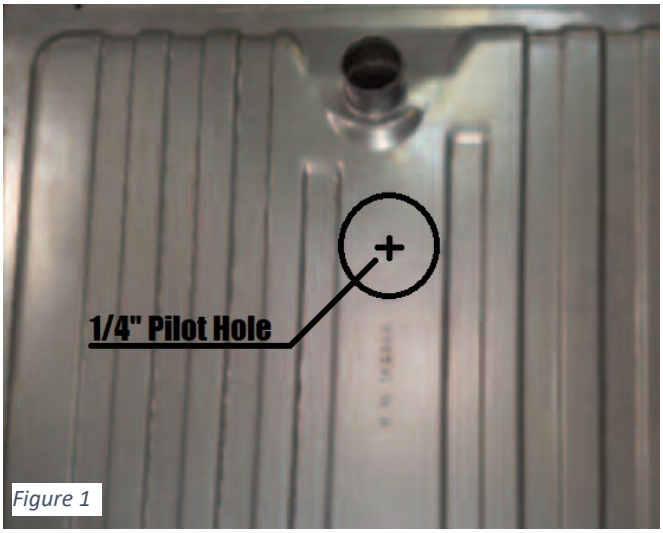


Figure 1


Figure 2

Installing C Ring

1. Place and center C-Ring on top of recently cut hole. Use the C-ring as a template, to mark the (12) 9/32" holes in the tank. Set C-ring aside, drill and deburr the holes. (Figure 3)
2. Thoroughly clean the tank to remove all of the metal chips and debris inside and outside of the tank. Prior to final installation, it is important that the inside of the tank is totally clean.
3. Screw the 2 threaded rods into two holes opposite of each other on the C-ring. Slide the C-Ring into the 4 1/2" diameter hole (Figure 4 & 5) inserting the threaded rods back up through the drilled holes. Then install the Foam Gasket
(Item 3) as shown in Figure 6. See Figure 20 on page 9 for proper assembly of these parts.

Figure 3

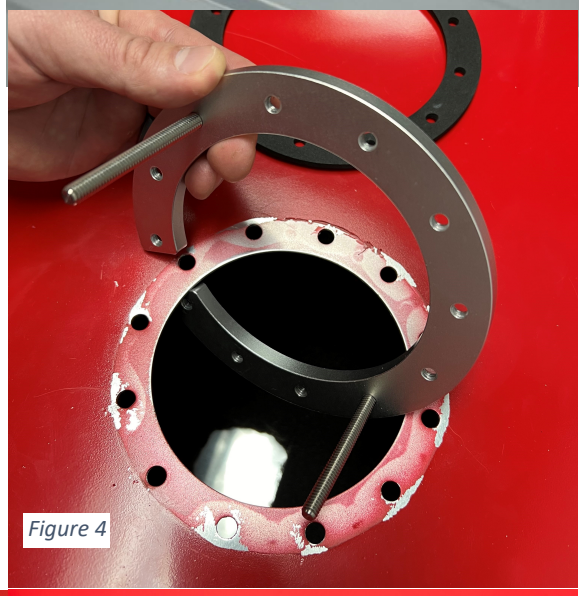


Figure 4

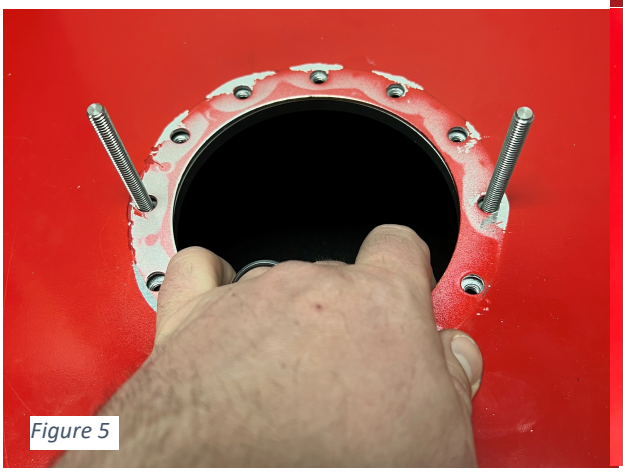


Figure 5

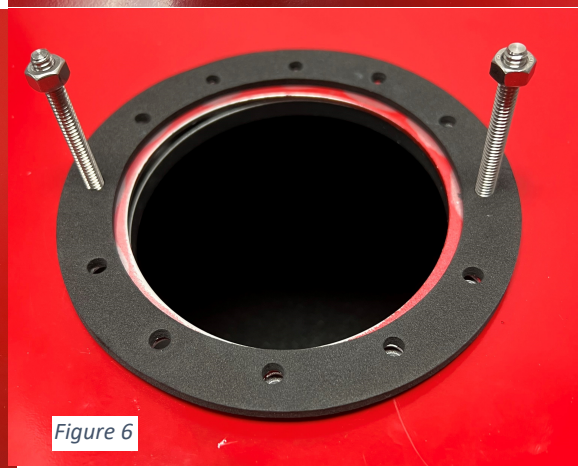


Figure 6

5. Snap the Filter Sock (Item #14) onto the end of the Fuel Pump.

6. Measure depth of tank and determine where pump needs to be positioned vertically (Figure 7.) Once you have determined proper pump location so that filter sock will be within an 1/8" of the bottom of the tank when installed, cut the opaque hose and metal support rod to the desired length (Figure 8 & 9.) Using a heat gun, heat the end of the hose that will go onto the fuel pump (Figure 14). Push the heated hose onto the outlet nipple of the pump. Note: Be sure to push straight and evenly. Do not force as pump nipple can break. If hose is not fully on pump nipple, reheat hose prior to pushing further. (Figure 17) Secure with a hose clamp. (Item 10)
7. Determine the correct length of the black return hose. It should be long enough to be about 1/4" off the bottom of the tank. Cut hose at a 45-degree angle.
8. Locate the pump against the support bracket and secure into position with two Tie Wraps (Items 15). Make sure Tie Wraps are pulled tight. See Figure 16. Plug the electrical connector onto the fuel pump.

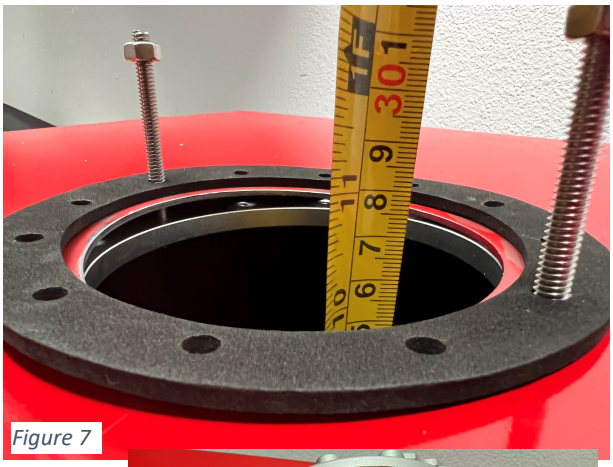


Figure 7


Figure 8

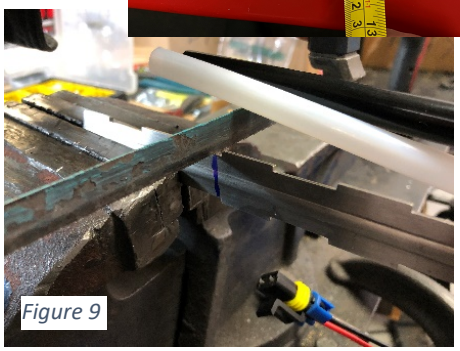


Figure 9

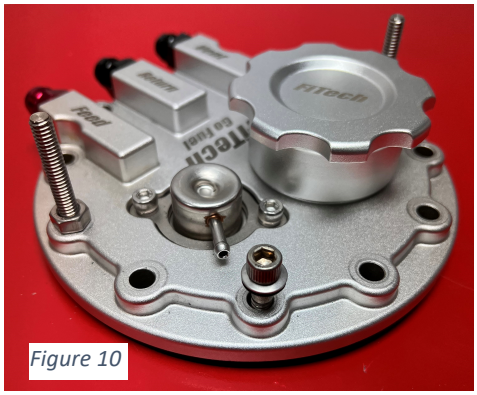
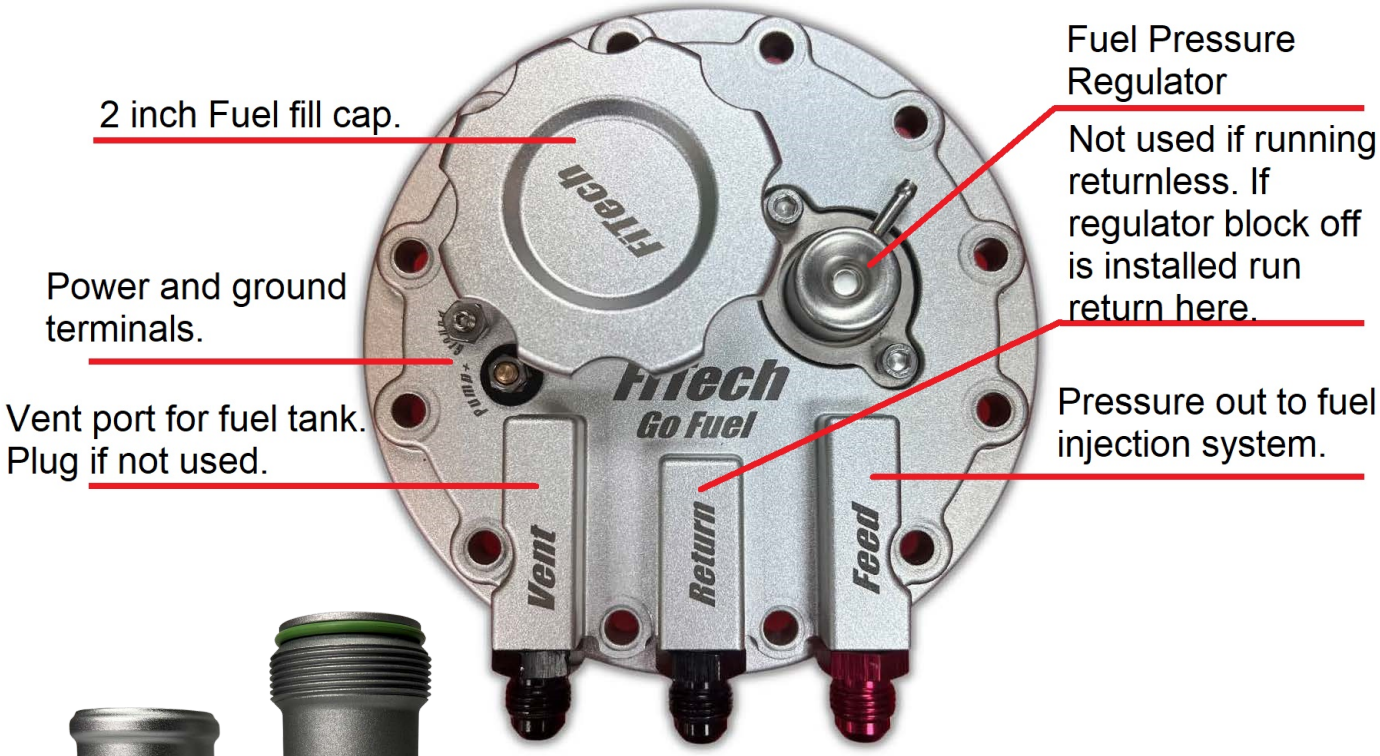


Figure 10

9. Insert Pump Assembly into tank. Lower down over the threaded rods and use 1/4-20 nuts to hold module into place. (Figure 10)
10. Install allen bolts with sealing washers into the open 10 holes. Remove the two threaded rods and install the last two allen bolts. Tighten securely using a crisscross pattern to tighten module down evenly.



Filler Neck Extensions Available!

50019-2	**2 Inch Extension**
50019-3	**3 Inch Barb**
50019-4	**4 Inch Extension**

3-Year Limited Warranty on FiTech EFI Systems

3-Year Limited Warranty on FiTech EFI Systems FiTech extends the following limited warranty to the original purchaser of a FiTech EFI system purchased after November 1, 2022. FiTech warrants its products against defects in materials and workmanship, under normal use and service for 3 years from the date of original purchase. This applies only to the original purchaser and the parts must remain installed on the original vehicle for which they were purchased. This warranty is void if the product was improperly installed, was installed on a vehicle for which it was not designed, if it was modified in any manner, or was removed from the original vehicle and reinstalled on another vehicle. Coolant temperature sensors and oxygen sensors are not covered under this warranty. This warranty shall not apply to any product installed improperly, or contrary to FiTech's instructions, altered, misused, repaired or damaged from an accident, collision, or willful or negligent act. To make a claim under the terms of this Warranty, the original purchaser must contact FiTech tech support. If FiTech tech support deems the product in need of warranty service, proof of original purchase will be required. Purchaser must call FiTech Technical Support
(951-340-2624) option 2 or email:Techmail@fitechefi.com, to obtain a Returned Material Authorization (RMA). Proof of purchase must clearly show the place of purchase, purchase price, product purchased, and date of purchase. Purchaser needs to register their product here: https://fitechefi.com/warranty-registration or using the mail-in registration form found in the product box. FiTech's 3-Year Limited Warranty does not cover factory refurbished parts, this warranty is only valid for new purchases from an authorized dealer. FiTech's liability is expressly limited to replacing or repairing the defective part or parts (refunds are not covered under FiTech's 3- year Limited Warranty). FiTech will have no liability for the cost of installation or removal of the defective product or for the cost of labor or any additional parts required to complete the installation of the replacement product. FiTech is not responsible for any shipping charges accrued during the warranty process/claim. In no event will FiTech be liable for any indirect, special, incidental, or consequential losses or damages (including but not limited to interruption of business or loss of business or profit) resulting from the use or inability to use the product, any breach of warranty, or any defect in the product, even if FiTech shall have been advised of the possibility of such potential damages or losses. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state. If the product is in the FiTech facility for repair, the amount of time the product is in repair will be added to the existing warranty period. In the event that your EFI System that is under warranty is in for repair and FiTech has authorized a replacement, and if that EFI System has been discontinued, FiTech will replace it with a similar product for the same application. The replacement EFI System will maintain the existing warranty period of the original EFI System.
California Proposition 65 Warning: This product may contain one or more substances or chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

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