

PETROWORKS

OFF-ROAD PRODUCTS



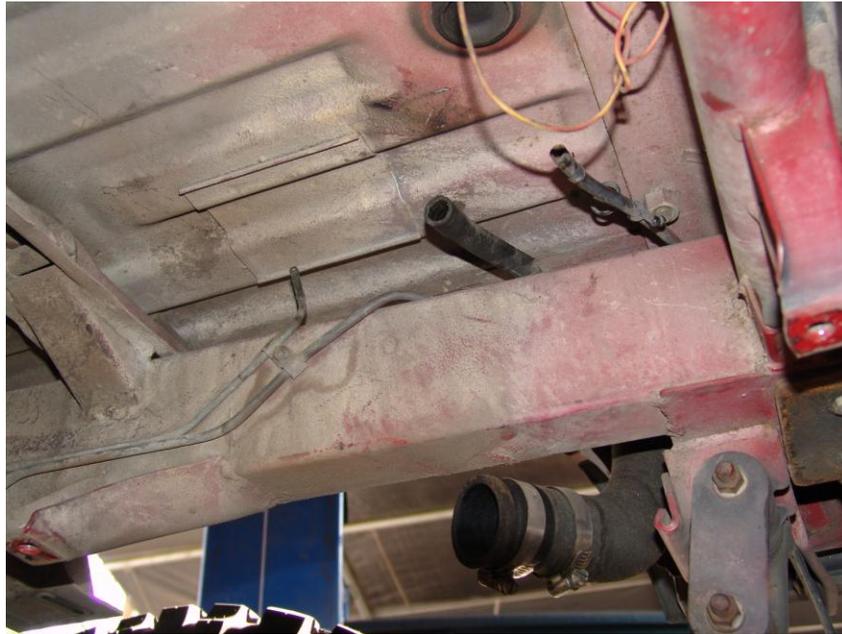
Installing the New Petroworks 15 Gal. Fuel Tank With In-Tank High Pressure Fuel Pump

Congratulations on your purchase of our new intake fuel pump 15 gallon tank. Installation of this tank will take about 2 hours. Please remember while doing this project that you are working with Gasoline and it is very flammable so it is recommended that you not smoke or have open flame around the gas tanks. Even empty fuel tanks contain gas fumes and can catch fire.

Tools needed/recommended:

Socket Wrench	Solder and Soldering Iron
10mm Socket or Wrench	Electrical Tape or Shrink Tubing
12mm Socket or Wrench	Needle Nose Pliers
14mm Socket or Wrench	Slotted Screwdriver
Phillips Screwdriver	Helper if available
Floor Jack and some wood blocks	
Drain Pan or bucket to drain old tank	

- 1.** Drain as much fuel into a suitable container as possible (some tanks have a drain plug and some do not). The drain plug is in the middle of the tank on the bottom. If your tank is full then it will be heavy and awkward to remove.
- 2.** On a level surface remove the 4 bolts holding the stock tank (tank and skid plate are held in place with the same bolts) in place and lower the old tank (using the floor jack and wood blocks) and disconnect fuel fill and vapor lines as shown. As you lower the tank it will be easier to disconnect the lines. While disconnecting the lines disconnect the electrical connector from the fuel-sending unit. Remove the fuel feed and return lines also. **Pic #1**



PIC 1

3. Replace any hoses that are cracked or hard. Use only quality Fuel Injection line.

4. Remove fuel filter. *Note: The plastic filter must not be used with high pressure fuel injection systems.*

5. Install the supplied hose fittings to the high-pressure fuel filter (take note of inlet and outlet sides). Use only fuel injection type clamps. When installing fittings onto the filter use 2 wrenches as shown. **Pic #2**



PIC 2

6. Mount the filter using 'Adel' type clamp, and mount it to the location where the old fuel filter was located. Connect outlet hose to the stock 5/16" steel tube. Remove check valve and replace it with 3/16" fuel hose. **Pic #3**



PIC 3

7. Connect the wire from the fuel pump relay to the pigtail supplied. Depending on your setup you may just be able to connect into the existing line. If not then solder in the open end of the supplied pigtail to the line you have run to the fuel pump relays (for Samurais with 1.6 16v conversions). **Pic #4**



PIC 4

8. Place tank into position so that hoses can be connected. The top of tank should be about 7" from the bottom of the floorboard. This will allow all of the hoses and electrical connections to be done. **Pic #5**



PIC 5

9. Connect the hoses (Fuel Fill, Tank Breather, Fuel return, High Pressure Fuel Feed to Filter, Fuel Tank Overfill). Connect the Fuel Sender line to the OEM line that runs to the Dash.
10. Lift tank into position and put 4 original mounting bolts in place. As you raise the tank be sure not to pinch any lines. **Pic 6** shows an easy way to lift the tank carefully into place.



PIC 6

11. Note that there are 2 connections or the ground wire, connect one to the frame at the filter clamp screw and connect the other to the body at the brake cable support. **Pic 7**



PIC 7

12. Connect fill hose to tank using 2 clamps. **Pic #8**



PIC 8

14. Replace fill hose guard.

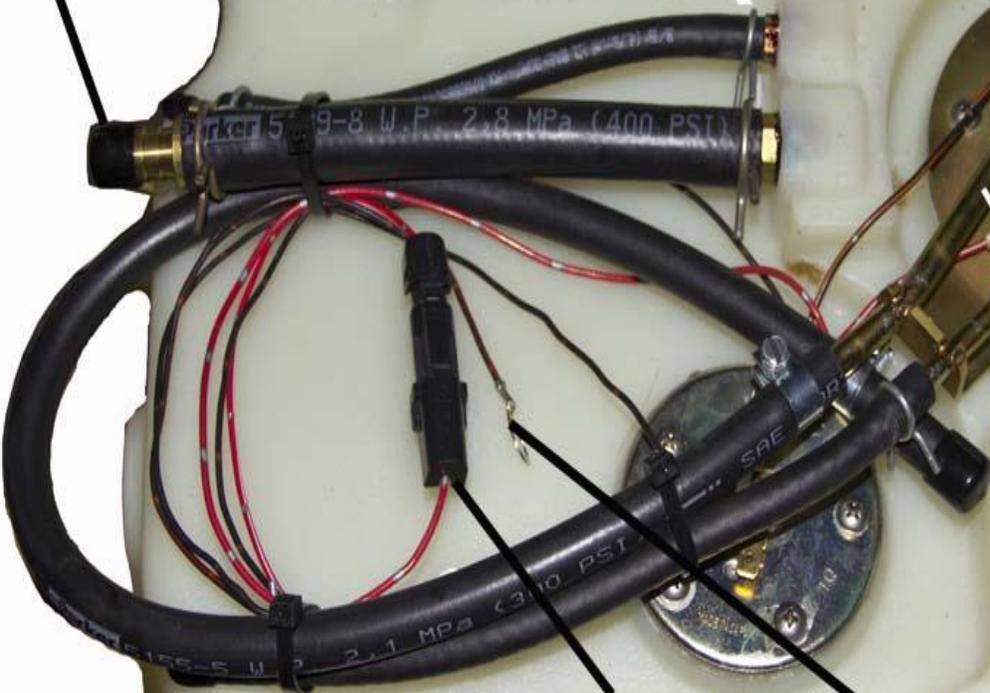
15. Put 2-3 gallons of fuel and start engine. Check for leaks.

16. Fill tank and check for leaks.

Overflow

**Breather
to Canister**

Fuel Ret



**Hi Press
line to
Filter**

**Power
Ignition Hot**

Grounds