



30-175QFT

INSTALLATION INSTRUCTIONS FOR 30-175 BILLET ELECTRIC FUEL PUMP

The QFT Billet 175 GPH fuel pump is designed for drag race applications and is not well suited for continuous operation, such as over the road vehicles or industrial applications where there is little down time. If you use this pump on an application that requires operation for extended periods of time, it will shorten the life of this pump. This electric fuel pump is designed to push fuel forward in the vehicle and is very ineffective at "pulling" fuel. Therefore, the fuel pump should be mounted in the rear of the vehicle, near the fuel tank and positioned so the inlet side of the pump is gravity fed, that is, below the fuel tank itself.

This fuel pump should not be mounted in the trunk or an enclosed area!

NOTE: The two ports on this fuel pump are marked "IN" and "OUT". Be certain to position the fuel pump correctly.

General Installation Instructions:

1. The pump should also be mounted on a solid component of the frame, positioned vertically so the motor is on top. If you do not have an in-line filter now, you should make provisions for the placement of a fuel filter between the fuel tank and fuel pump. Two fuel filters would be highly recommended. Fuel filters should be larger in surface area to prevent starvation and the inlet/outlet of all filters and connections should never be smaller than that of the fuel pump.
2. Check for possible interference with suspension and/or chassis components through the full range of travel.
3. Check the lower portion of the pump in your chosen location - be certain it does not have a ground clearance problem or could possibly come in contact with debris that could be kicked up by the tire.
4. It is also recommended that all fuel lines be metal and you should avoid the use of rubber hose. Rubber hose in this location can be hazardous and the use of it is not advised. Route fuel lines away from any potential heat source, chaffing, or road debris. Avoid tight bends and undersized fittings throughout the fuel line routing process.
5. Using the mounted bracket as a template, center punch and drill necessary holes to mount the pump.
6. Electrical connection is standard, the black wire is ground and the orange/red wire is positive. To achieve optimum performance, it is crucial the pump receive battery voltage (13.8 volts approx.) at all times. It is also strongly advised to use an oil pressure safety switch to shut the pump off if the engine is not running.
7. Always set the pressure regulator (see your pressure regulator instructions) before attempting to start the engine. Always use a fuel pressure gauge and check the gauge for accuracy often.
8. Fuel pump performance problems or failure is usually due to one of two problems: dirt and/or water. The clearances in a rotary vane fuel pump are extremely close and do not tolerate debris or corrosion - the presence of either element will severely impact the performance of your pump. Typically, the fuel pressure will begin to fluctuate and the electrical amperage draw will increase. If you follow these instructions and perform routine maintenance on the fuel filter, you can minimize future problems.

Internal / External Bypass Instructions:

1. Your fuel pump is shipped in the internal bypass mode and preset to 18 PSI - no further changes are required if you choose to use this style of bypass. Simply set the pressure you desire using the adjustment screw shown in **Figure 1** (shown on the back of this page) while referring to a pressure gauge installed in the port shown in **Figure 1**.
2. Should you choose to externally bypass the fuel pump, remove the #8 AN plug shown in **Figure 2**.
3. Using the supplied 1/4" pipe plug (found in the parts kit included with your fuel pump), thread the plug into the chamber below the previously removed #8 AN plug.
4. Install a fitting in place of the removed #8 AN plug and plumb a return line to your fuel tank. **NOTE: The return line size should be equal to the outlet line that supplies the carburetor(s).**
5. Fuel pressure is set exactly the same as if you were internally bypassing (refer to step 1 of this section).

We thank you for purchasing a Quick Fuel Technology fuel pump. We are passionate about our products and your performance.

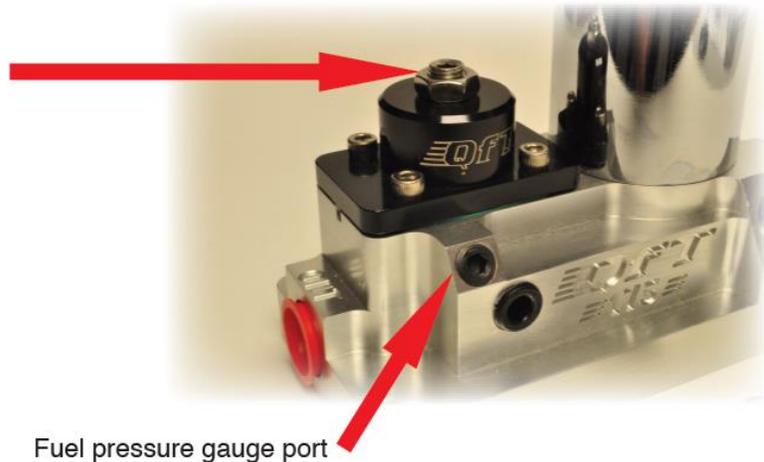
If you are experiencing any difficulty in your installation or are having other issues please call our technical service phone line at 270-781-9741. Our business hours are M-F 8:00 am - 5:00 pm Central Time.

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Figure 1

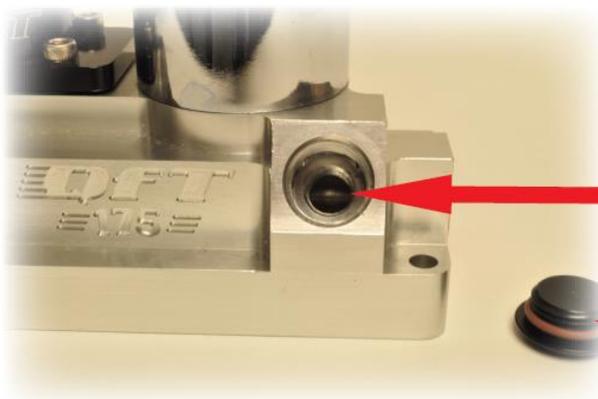
Adjusting Internal Bypass Pressure

Set the pressure you desire using the adjustment screw - loosen the lock nut to turn the adjustment screw - once satisfied with pressure, tighten locknut.



Fuel pressure gauge port

Figure 2



When Converting to External Bypass

Using the supplied 1/4" pipe plug (found in the parts kit included with your fuel pump), thread the plug into the chamber below the removed #8 AN plug



Removed #8 AN plug

30-175 TEST RESULTS

