



## INSTALLATION MANUAL

### Universal Rotary Vane Electric Fuel Pump 100 GPH / 7 PSI

PFEFS14040

Included Items	QTY
PFEFS14040 Fuel Pump	1
Mounting Bracket	1
Mounting Rubber Bushes	3
1/4"-20 Bolts (UHL 16 mm)	3
1/4"-20 Nuts & Washers	3
10-32" Nuts & Washers	5
Hose Clamps	2
Wiring Eyelets	2
3/8" NPT to 1/2" Barb Fittings	2

**WARNING:** PLEASE READ ALL INSTRUCTIONS BEFORE PROCEEDING. PROFLOW WILL NOT BE RESPONSIBLE FOR ANY DAMAGE AS A RESULT OF THE INCORRECT INSTALLATION OF THIS PRODUCT. IT IS RECOMMENDED THAT A QUALIFIED AUTOMOTIVE TECHNICIAN PERFORMS THIS INSTALLATION.

### Introduction

The PFEFS14040 electric fuel pump is designed for carburettor engines, meeting most of your fuel system requirements for Street, Strip, and Off-road vehicles.

The pump has an internal pressure-regulating valve pre-set to run 6-8 psi, and features free-flow fuel delivery of up to 100 GPH. With female 3/8" NPT threads. Designed to handle unleaded, alcohol-based fuels and diesel. Dimensions of this pump are 115 mm height and 85 mm diameter.

This fuel pump is alcohol and ethanol compatible. It is recommended if installing this product with these fuels that all other components are also rated to handle this type of fuel. Ensure the fuel filter is high flow and fuel lines are correct size for the application are designed to handle the fuel being used. It is also recommended due to the alcohol fuels breaking down rubber hoses and absorbing water, to more frequently monitor, maintain and service all fuel components including fuel filters.

### Wiring

The factory fuel pump wiring may not be sufficient to handle the current draw of this fuel pump. Please update all wiring if necessary and add in a relay to ensure pump works correctly. If using the existing electrical plugs and wiring in vehicle ensure correct polarity is used on the new pump. If necessary, re-pin the existing one or use the included plug.

**WARNING:** This fuel pump is only one component of your vehicles complete fuel system. Please ensure the vehicles complete fuel system is up to the task of supplying the right amount of fuel to your engine. Failure to do so may result in severe engine damage and damage to other related components.

### **Mounting**

This universal fuel pump should be mounted below the fuel tank and as close to the fuel tank as possible. It is recommended to also mount below the carburettor to avoid vapour lock conditions. Do not mount the fuel pump near exhaust system or extreme heat sources as this can damage the fuel pump. Ensure the fuel pump is mounted away from any sources of water.

**NOTE:** Always install a good quality fuel filter on the inlet side of the fuel pump. This will stop any debris from entering and damaging the fuel pump. Failure to do so will void warranty.

**Failure to do any of the above may result in fuel leakage, bursting of fuel lines, poor vehicle performance and/or decreased fuel pump life.**

### **Typical Installation**

**Always diagnose the cause of failure before replacing any electric fuel pump.**

**Ensure the fuel tank, fuel lines and fuel filters are cleaned from debris such as dirt and dust as this may cause the pump to fail.**

1. Disconnect the negative battery terminal.
2. Disconnect the old fuel lines from the fuel pump.
3. Select the best location to mount the fuel pump. Ensure it's away from extreme heat sources. Mount as close to the fuel tank as possible. Use the included mounting bracket.
4. Mount the fuel pump with electrical terminal pointing down towards the ground.
5. Using the mounting bracket as a template, drill three 1/4" holes to attach the bracket. Position pump on the bracket. The "IN" port must be connected to the line running from the fuel tank.
6. Push the rubber grommets into the appropriate holes on the mounting bracket. Push the pump studs through the rubber grommet. Use a flat washer on the end of the rubber grommet. Tighten the lock washers and nuts down evenly. Press the rubber boots firmly onto the threaded post, making sure rubber boot seals around the pump studs.
7. Install the fuel pump and mounting bracket to the desired location.
8. Install the eyelet end of the ground wire to correct polarity terminal on the fuel pump. This ground polarity must be the same as the battery ground polarity.

9. Install supplied hose fittings to each end of the fuel pump. Use an appropriate thread sealer, such as Proflow's Thread Sealer, to seal each of these fittings into the pump.
10. Connect both fuel lines to the supplied barb fittings with the worm drive hose clamps. The inlet side of the pump should be connected to your fuel line coming from the fuel tank. The outlet side of the pump should be connected to the fuel line that goes to the engine bay to feed fuel.
11. Install the eyelet end of the supplied wiring to the positive polarity terminal on the fuel pump. Wire this to the correct wiring source such as a relay, fuel or ignition switch.
12. Start engine and test for leaks.

**PROFLOW LIMITED WARRANTY**

This product is warranted to be free from defects in materials and workmanship for a period of one year from the original date of purchase.

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