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AEROFLOW PERFORMANCE EFI INTAKE/EXTERNAL FUEL PUMP

WARNING!

THIS PRODUCT REQUIRES DETAILED KNOWLEDGE OF AUTOMOTIVE SYSTEMS. WE RECOMMEND THAT THIS INSTALLATION BE CARRIED OUT BY A QUALIFIED AUTOMOTIVE TECHNICIAN.

INTRODUCTION

Congratulations on your purchase of Aeroflow Performance EFI intake/external fuel pump. Aeroflow Performance products cannot and will not be responsible for any damage, or other conditions resulting from misapplication of the parts described herein. However, it is our intention to provide the best possible products for our customer, products that perform properly and satisfy your expectations. Should you have any questions? Please call technical support at +61 2 8825 1900 and have the product part number on hand when calling.

This electric pump suits In-tank or external setup. It is compatible of flowing 300lph at 3 BAR refer to chart at the end of these instructions for fuel rates. It is rated for applications up to 675hp. Inlet of pump has a M18 x 1.5mm thread and outlet of pump has a M12 x 1.5mm thread. It features a check valve screwed into the outlet. If using this pump in-tank it is recommended to use a screen filter sock on the inlet of the pump not supplied in this kit. If using this pump externally it is recommended to correctly mount the pump so it is secured. It should be mounted in an appropriate location away from extreme heat sources to avoid damage to the pump.

The Dimensions of this fuel pump are Overall Body length 146mm and diameter is 60mm. The electrical terminals are M6 for positive terminal and M5 for negative terminal.

To use this fuel pump in your vehicle's fuel system, it is recommended to do the following:

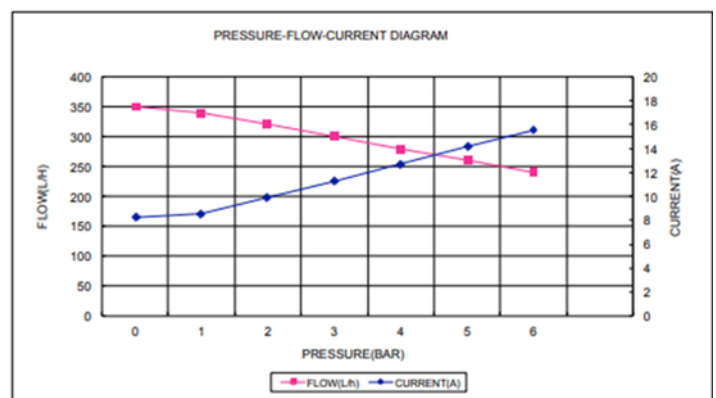
- A return style fuel pressure regulator must be used in the fuel system.
- Utilize correct size high pressure EFI fuel lines, fittings and washers for all connections from the fuel tank pickup to the fuel pump.
- Ensure proper fuel pump performance and longevity, mount pump level with or lower than the bottom, and as close to the tank, as possible.
- Install a pre fuel filter and post fuel filter.

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 and are designed to handle the fuel being used. Also recommended due to the alcohol fuels breaking down rubber hoses and absorbing water too more frequently monitor, maintain and service all fuel components including fuel filters.

This fuel pump may be the physical same size as many OEM in-tank pumps. This does not necessarily mean it is suitable for a particular application. Please ensure it will work with the current setup before using this product. It may require modifications to pump hanger or bracket/holder. If this is the case ensure pump is correctly secured to pump hanger.

TESTING PARAMETER:
TESTING VOLTAGE: 13.5V

PRESSURE(Psi)	0	14.5	29	43.5	58	72.5	87
PRESSURE(BAR)	0	1	2	3	4	5	6
FLOW(GPH)	92.4	89.8	84.5	79.2	73.9	68.7	63.4
FLOW(L/H)	350	340	320	300	280	260	240
CURRENT(A)	8.2	8.6	9.9	11.3	12.7	14.2	15.5



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.

The supply voltage will affect the fuel delivery of this fuel pump. The typical electrical system on modern cars is between 13.2 – 14.2 volts. Although the Aeroflow fuel pumps will run at lower voltages the flow will be lower and you can risk damage to the fuel pump internals. Ensure the voltage is 13.5V at the fuel pump. The current requirement is minimum 10 amps. The correct wire size will be determined by the length of wire, the wire type and the resistance of any terminals, splices or solder joints in the electrical or ground supply. The ground is equally important and the preferred ground is to route the ground wire to ground source that is directly attached to the battery negative post.

Before wiring the pump to the electrical system make sure the polarity is correct. Connecting the pump with reverse polarity will damage the pump and is not covered under warranty.

WARNING! The fuel pump MUST NOT be connected directly to the battery.

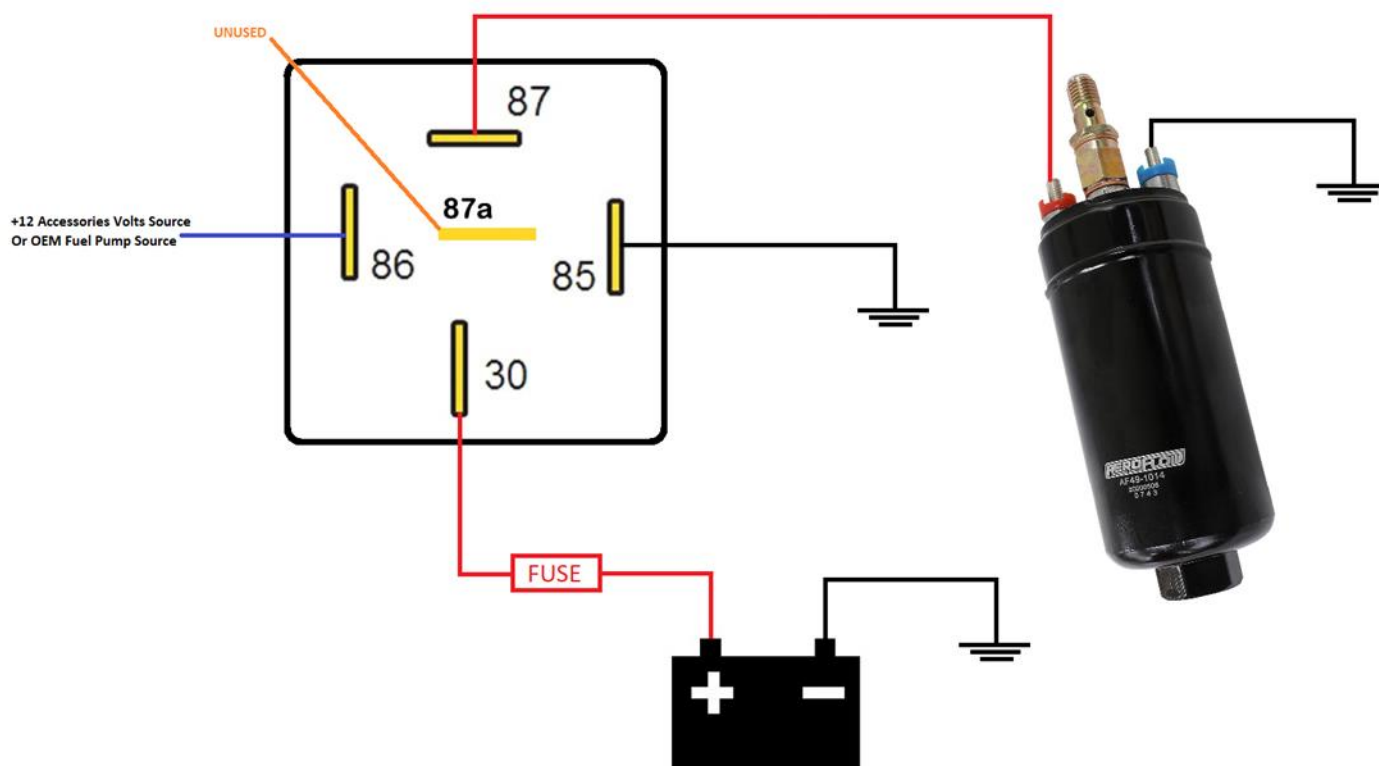
WARNING! Use 14 Gauge or larger wire when wiring the fuel pump. Failure to use the minimum wire gauge could result in a pump malfunction and/or electrical fire. Be sure to crimp all electrical connections securely and clean any area where ground leads will be fastened.

CAUTION! Be sure to route all electrical wires clear of any moving suspension or drive train components and any exhaust system components! Protect the wires from extreme heat and road debris use appropriate protective shielding where necessary. Use suitable p-clamps and other mounting hardware to secure the newly installed electrical wiring to the vehicle chassis.

NOTE: We recommend minimum 30-amp automotive relay to handle the current this fuel pump outputs. Along with a 30-amp fuse to complete the system.

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.

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



For more information or technical enquires

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