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AEROFLOW PERFORMANCE

SINGLE 40mm FUEL PUMP HANGER

WARNING!

BEFORE PROCEEDING WITH INSTALLATION PLEASE READ INSTRUCTIONS CAREFULLY. THIS PRODUCT REQUIRES DETAILED KNOWLEDGE OF AUTOMOTIVE SYSTEMS. WE RECOMMEND THAT THIS INSTALLATION BE CARRIED OUT BY A QUALIFIED AUTOMOTIVE TECHNICIAN.

THE INSTALLATION OF THIS PRODUCT REQUIRES THE HANDLING OF FUEL. WE RECOMMEND TO WORK IN A WELL VENTILATED AND WEAR APPROPRIATE SAFETY WEAR FOR PROTECTION.

KEEP ALL IGNITION SOURCES AND OPEN FLAMES AWAY FROM VEHICLE AT ALL TIMES WHILE INSTALLING THIS PRODUCT.

THESE SURGE TANKS UTILIZE O-RING SEALED AN STYLE PORTS AND DO NOT REQUIRE THREAD SEALANT ONLY AN APPROPRIATE LUBRICATE SHOULD BE USED

Item list included in this kit:

1 x Single Fuel Pump Hanger to suit 40mm diameter fuel pump (Hanger, Pump bracket and stalk, two electrical bulkheads pre-installed, C-Ring Base Plate)

1 x In-tank PTFE hose (60mm Length)

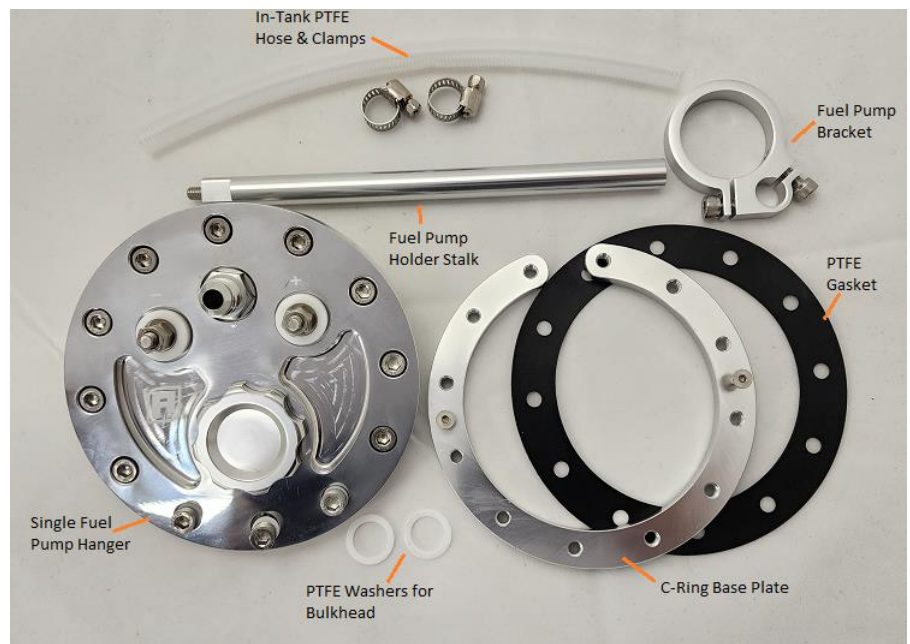
2 x Worm Drive Clamps

INTRODUCTION

Congratulations on your purchase of Aeroflow Performance fuel pump hanger. 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.

Now you can upgrade your fuel delivery system when converting over from carburetor to EFI with this billet single fuel pump hanger from Aeroflow Performance. The billet hanger has a built-in fuel cap and has the ability to mount one AF49-1041, AF49-1042, AF49-1057 or any 40mm diameter fuel pumps. CNC machined from billet 6061-T6 aluminium with black anodized option for maximum durability and corrosion protection e85/methanol.

- Suits a 120mm bolt circle and 76.2mm (4") diameter cut-out
- For use with 250mm (10") deep tanks
- -6AN Male feed for maximum flow
- -16ORB port / filler cap
- PTFE in tank fuel filler hose included with clamps



The primary fuel pump in the vehicle's main fuel tank will no longer directly feed the engine. This pump will now be used to fill and maintain the level of fuel in the surge tank. In turn with the aftermarket external fuel pump will require an aftermarket fuel pressure regulator to be installed. Also recommended when upgrading fuel pumps to also upgrade wiring and add relays/fuses where required. Refer to individual pump instructions for further details.

This billet hanger 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.

INSTALLATION GUIDELINES

The Aeroflow single pump hanger is designed to replace your standard fuel cell filler cap with 12 x 120mm bolt circle

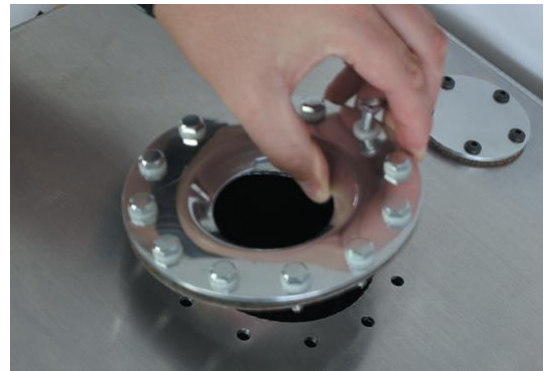
1. Once you have purchased your fuel cell separately.
2. Remove the fuel cell cap



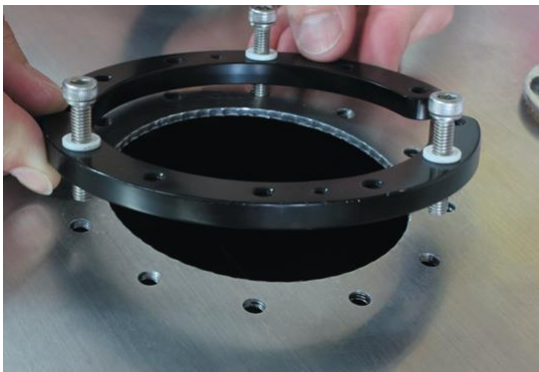
3. Un-screw the bolt and nuts using a 10mm spanner and 11mm socket.
 - i. This can be a little tricky to get a hold of the nuts inside the fuel cell. Bets to use the smallest 10mm spanner you can find or a 90-degree spanner will also do the trick.



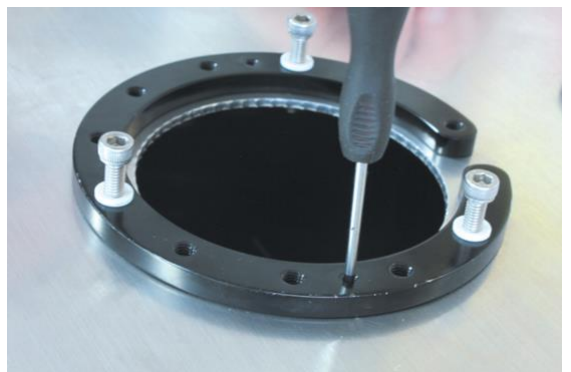
4. Once all the screws, nuts and washers have been removed you can remove the cap housing plate form the fuel cell.



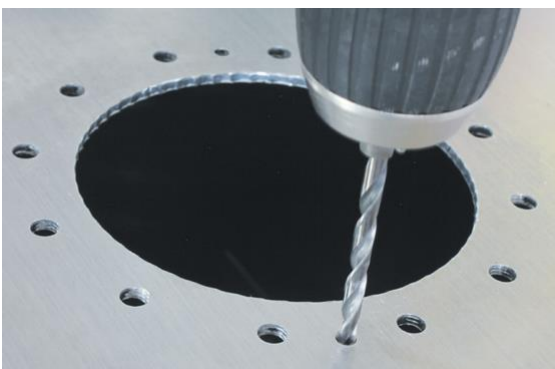
5. Un-screw the outer Allen keys on the single pump hanger using a 5mm Allen key. This will release the C-ring from under the head of the hanger.
 6. Sit the threaded C-ring on-top of the fuel cell as a template and use 3 of the Allen key bolts to centralise the plate in the correct position.



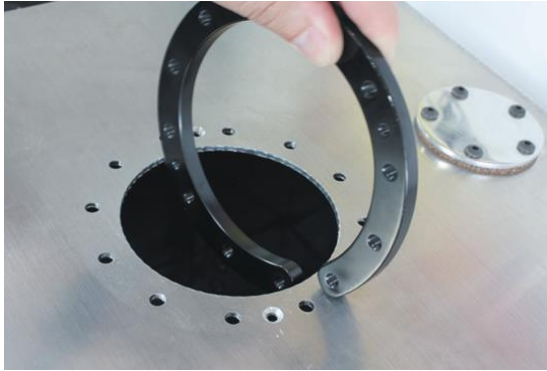
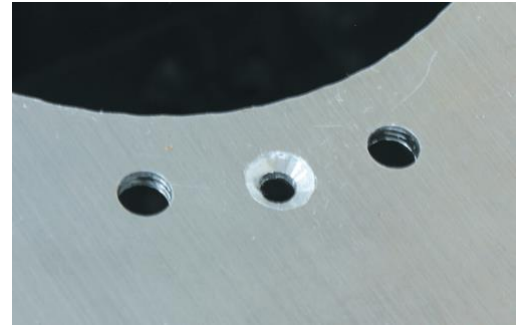
7. Using a scribe mark out the 2 holes that need to be drilled to retain the threaded C-ring in place.



8. Using a 4mm drill bit, drill through the fuel cell on both marked holes.



9. Using a counter sink tool, or 8mm drill bit to recess the head on the threaded C-ring retaining bolts.
 - I. NOTE: Clean tank and remove all swarf after this process.

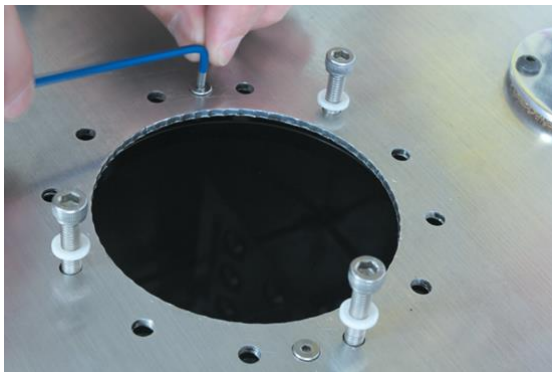


10. Insert the C-ring as shown using the cut-out in the ring to fit through the hole cut-out in the top of the fuel cell.

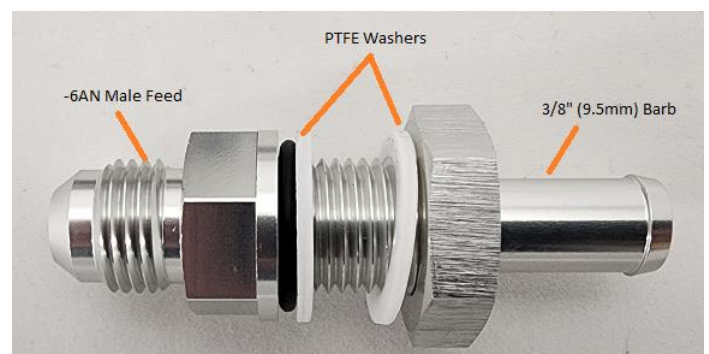
11. Using one hand hold the C-ring in place and hand tighten the retaining bolts.



12. Tighten the bolts using a 2.5mm Allen key. Use three of the bolts from the head unit to align the c-ring correctly.

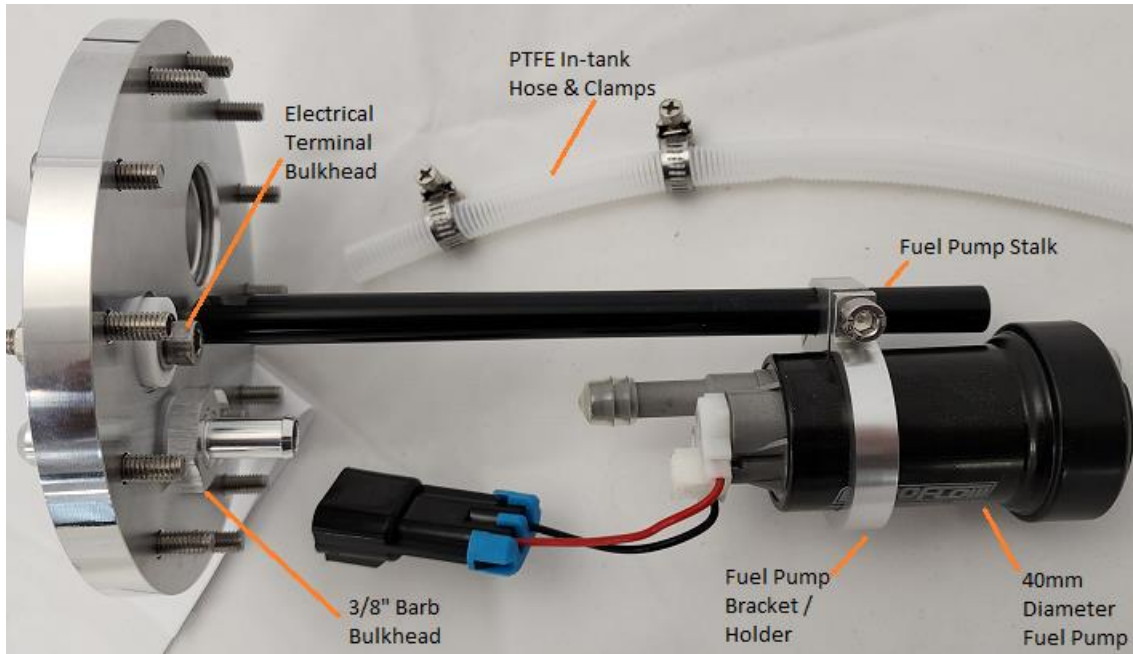


13. At this point you will have needed to mount your 40mm diameter fuel pump using the PTFE in-tank fuel hose and bracket.
 - I. You will need adjust the length of the fuel pump bracket and the length of the PTFE in-tank hose to suit your application.
 - II. Ensure the fuel pump filter sock sits around 2-3mm from the bottom of the fuel cell. This will ensure fuel is always in contact with the filter sock and not allow the fuel pump to run dry in low fuel conditions.
 - III. The fuel pump will attach to a 3/8" barb bulkhead on the fuel pump hanger. This will need to be removed and have the Teflon washers installed if used in surge tank applications. The Teflon washers are provided for both top and bottom of the bulkhead.



14. Loosen the fuel pump hanger bracket by unscrewing the allen key cap screw. The bracket should be able to slide off the stalk while the allen key cap screw is still installed into the bracket.
15. Slide the fuel pump bracket onto the 40mm diameter fuel pump. We recommend to have the bracket around half way onto the fuel pump body to properly support the fuel pump.
16. Install the supplied PTFE intake fuel hose onto the 3/8" barb on the fuel pump hanger.
17. Slide the fuel pump and bracket over the hanger stalk.
 - I. Rotation of the fuel pump on the bracket will be required so it will line up straight with the PTFE hose.
 - II. The 3/8" barb on the fuel pump once lined up correctly will be able to slide straight into the PTFE hose that is already installed into the conversion hanger.
 - III. Ensure to slide the worm drive clamp over the PTFE hose before you slide the fuel pump over.
 - IV. Important to ensure the PTFE hose is as straight as possible when the fuel pump is installed.
18. Once the fuel pump is in the correct position tighten the allen key cap screw on the fuel pump bracket. As well as the both worm drive clamps to hold the PTFE in-tank fuel hose.

19. The electrical side of the fuel pump must now be wired up.
 - I. Each install for the fuel pump will be different depending on which fuel pump you choose.
 - II. If you are unsure how to wire this fuel pump consult a professional or automotive electrician.
 - III. A fuel pump has one Red wire for power and one Black wire for Ground.
 - IV. The electrical terminal bulkheads require the use of M6 ring terminals (sold separately) as well as heavy duty automotive wiring able to handle up to 35 amps.
 - V. The electrical terminal bulkhead has two nuts on the top and one long M6 through bolt. Remove both nuts and pull through the M6 bolt. Attach the ring terminal and reinstall the M6 bolt and nuts to secure the bulkhead into place.
20. Once the wiring below the hanger is done it is time to place the hanger into the fuel tank.



21. Check inside your fuel cell making sure there is no metal swarf from drilling the holes and the countersinks. Once you are certain the cell is clean, place PTFE gasket on top and line up the holes.
22. Install the single pump hanger and insert the Socket head cap screws and start all the threads by hand. Once all the bolts have been started, evenly tighten down using a 5mm Allen key.
23. Your single pump hanger is now installed ready to be plumbed into your fuel system.



For more information or technical enquires

Contact: Aeroflow Performance on

Phone: (02) 8825 1979 Website: www.aeroflowperformance.com