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## **AEROFLOW PERFORMANCE**

### **38 LITRE FUEL CELL**

#### **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

#### **INTRODUCTION**

Congratulations on your purchase of Aeroflow Performance 38 Litre (10 gallon) fuel cell. 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 Aeroflow Performance fuel cell is made from 3.0mm high grade aluminium. The dimensions of this tank are: Length = 380mm (14-15/16"), Width = 410mm (16-1/8"), Height 260mm (10-1/4"). We recommend if using alcohol or ethanol based fuels to use the black anodised tanks.

It features the fuel out fittings in the cavity (sump) at the base of the cell. This helps with fuel starvation at low levels and under high g-forces. This fuel cell also features internal baffling. The sump cavity measures 152.4mm (6") long, 152.4mm (6") wide and 50.80mm (2") deep. Some applications may require the use of a surge tank fitted alongside this fuel cell. Please contact a professional if you are unsure about your fuel system.

This fuel cell comes with a billet flush cap ( C ) with a flip up and twist action, a one way air valve is also designed into the cap. A screw on cap assembly and remote filler cap is available separately if you wish to run an external fill point instead of the fuel cell (AF85-3000 or AF85-2002)

A fuel level sender ( **D** ) is not included in this fuel cell. It can be purchased separately (AF85-2010, AF85-2011, or AF85-2012). Please check your original sender unit ohm range or aftermarket gauge instructions to ensure correct resistance. If this is not the same it will not read the correct level fuel in the fuel cell. When wiring up fuel sender ensure to use appropriate wiring and terminals. The ( **S** ) marked terminal is the signal wire that should be wired into the fuel gauge and the ( **G** ) marked terminal can be wired anywhere to a good ground.

The primary fuel pump in the vehicle's main fuel tank which is no longer installed in the vehicle will no longer directly feed the engine. It is recommended you install a new external fuel pump alongside this fuel cell to directly feed the engine. Ensure the fuel pump is a suction style (Lift) pump and not a push style fuel pump. Please contact a professional if you are unsure which fuel pump/s to run with your setup.

This fuel cell requires the use of a vent / rollover valve (AF613-12 sold separately) in order to breathe correctly and not over pressurize and cause damage to the fuel cell. It is recommended that the vent hose is run off the fuel cell vertically into the air 6"-12", make one or two loops in the line and run it out of the car. When this line is out of the car ensure it is away from extreme heat sources and moving components, an air filter attached to this line is recommended to catch flumes etc. The vented fuel cap is not a sufficient standalone vent for this fuel cell.

This fuel cell 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**

- When mounting this surge tank ensure it is on a stable and structural location.
- Ensure when mounting tank to provide enough support underneath when the tank is full
- Make sure there are no sharp edges or objects near the fuel cell that could penetrate in an event of an impact.
- Rubber mounts are recommended when mounting fuel cell to vehicle. Ensure to utilize all 4 mounting tabs when mounting this fuel cell.
- Recommended to mount away from excessive heat, moving components and collision prone areas

#### **PLUMBING**

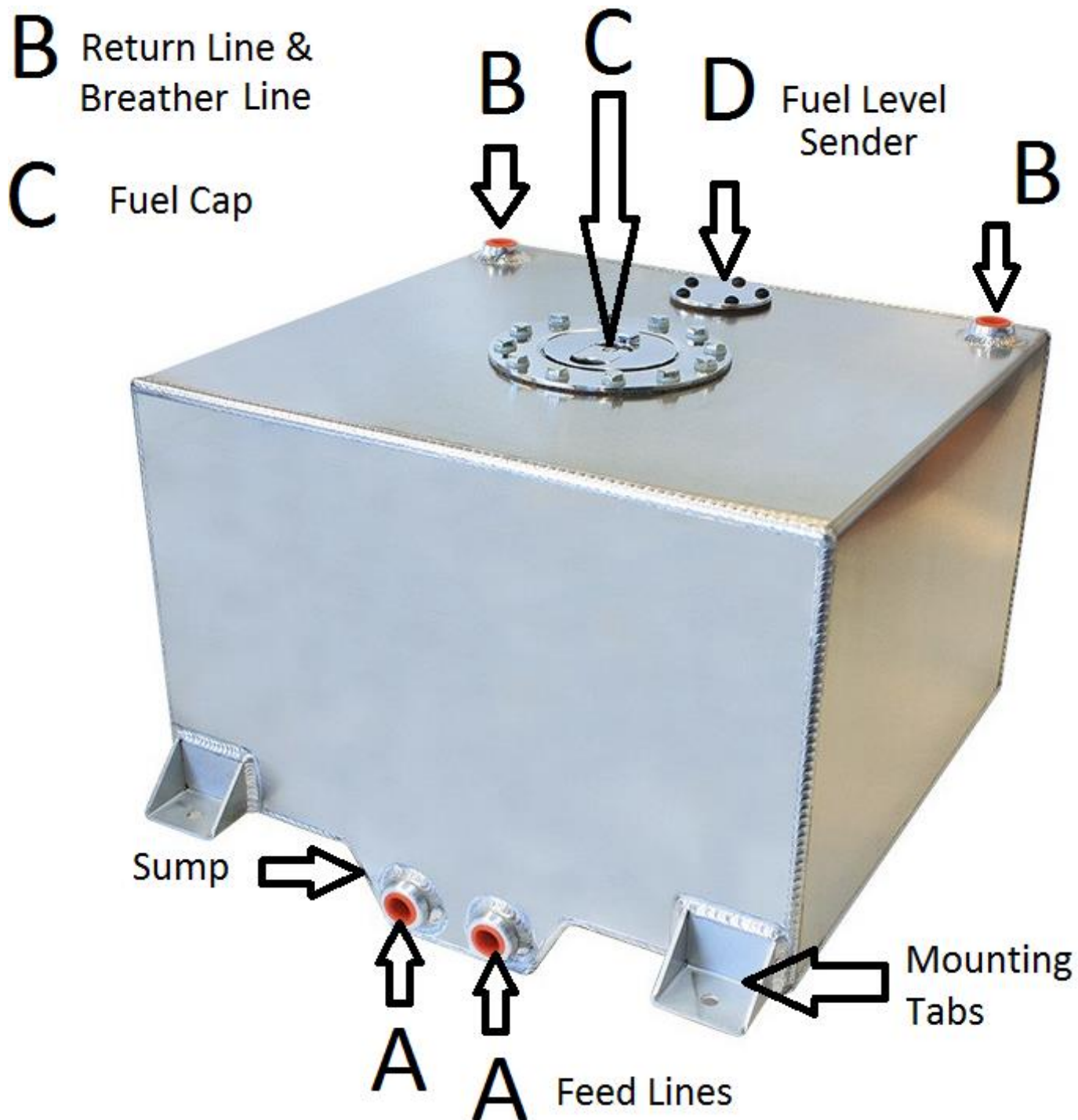
- This fuel cell features four female -12AN O-ring bungs welded to it
- The two bottom -12AN O-ring bungs ( **A** ) are designed for feeding the fuel pump from the fuel cell.
  - I. If only one of these holes are required for your fuel system ensure to block the remaining hole with an O-ring port plug.
- The two top -12AN O-ring bungs ( **B** ) are designed for return line and breather line.

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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