



Mounting the Boost Pump Module with nutplates

The Boost Pump Module can be mounted many ways. The only limitation is that the fuel pressure regulator and fuel pump must remain oriented horizontally. The unit can be mounted in a standing up fashion with the fuel pump above the regulator which is common for installations in tandem aircraft such as the RV-8(A). The unit can also be mounted in a flat manner with the fuel pump beside the fuel pressure regulator. This would be a typical mounting method in a side by side aircraft configuration.

The Boost Pump Module has integral -4 threaded mounting holes oriented for both stand up and lay down mounting. Some people have chosen to use -3 mounting hardware into nut plates to ease future maintenance of the unit. This can easily be accomplished by using 10-32 x 3/4" socket head cap screws to mount the unit to a floor area plate. You can see in the picture how this hardware fits into the Boost



Pump Module. In the photo, the washer on the right has been trimmed a bit on one side to provide clearance with the manifold portion of the Boost Pump. The washer on the left side does not require the trim do to the shape of the manifold.

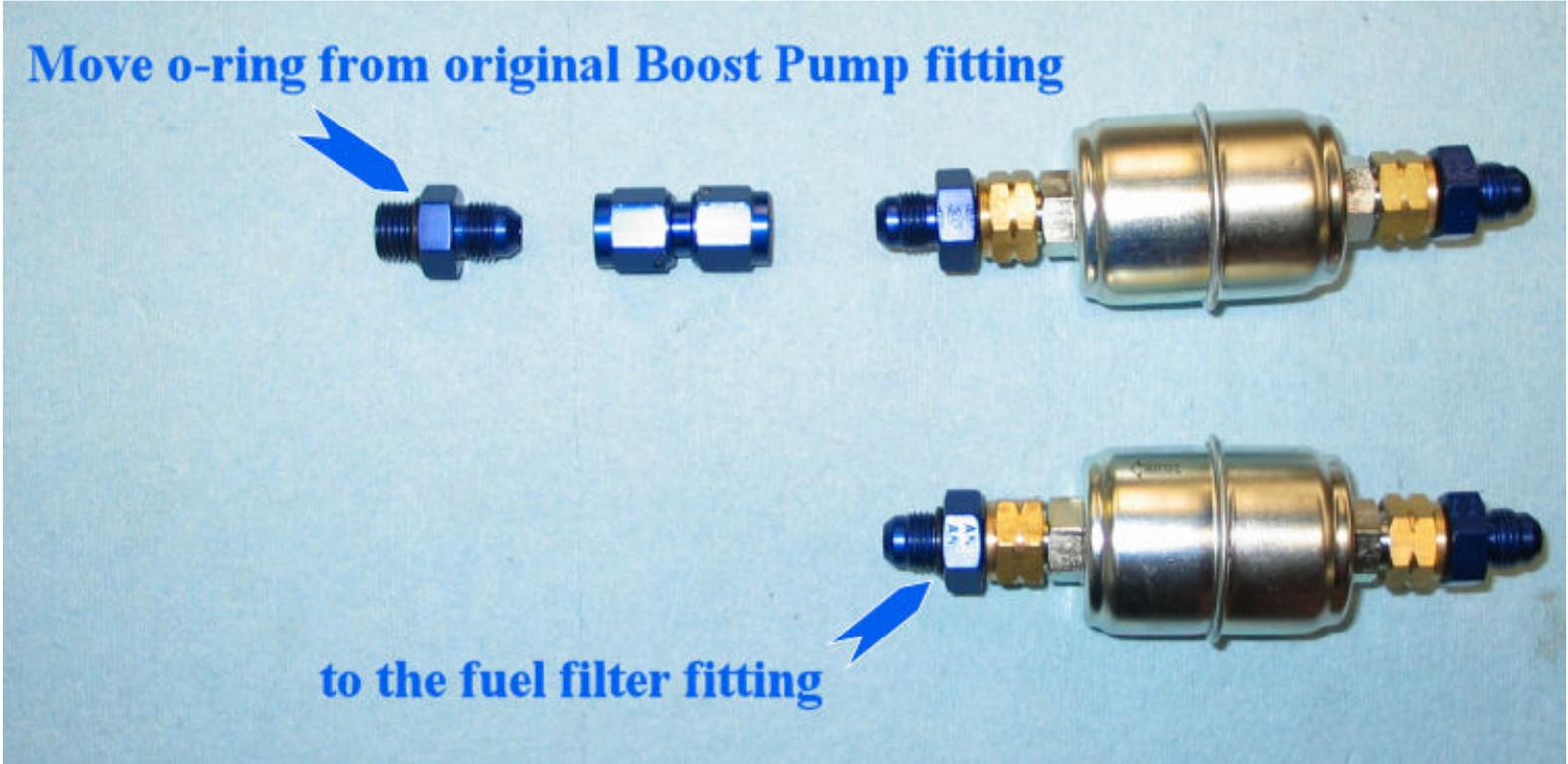


Making the filter plus pump assembly shorter

In the first photo, the pre filter is joined with the Boost Pump with a female coupler. This yields an overall length



of 17 1/8". In some cases it is desirable to have a shorter installed length of the components. This can easily be accomplished by mounting the fuel filter directly onto the Boost Pump, thereby saving the length of two fittings.



In order to accomplish this, you must remove the o-ring which resides on the original AN-6 fitting that is on the inlet of the Boost Pump and install the o-ring onto the shoulder on the -6 fitting on the outlet of the fuel filter. You can then connect the fuel filter directly to the inlet on the Boost Pump. Make sure that the fuel filter mounting is such that undue side loads are not introduced to the fittings when the parts are secured.

The end result is a Boost Pump and filter combo that has an overall length of 15".

Getting even shorter - popular for RV-8

The RV-8 has a particularly tight space for the typical Boost Pump installation. The Boost Pump typically gets mounted forward of the gear tower to one side of the rudder pedals. To make this an easy install, most people choose to locate the fuel filter elsewhere, upstream of the Boost Pump. For this situation, it is desirable to have the shortest possible pump configuration. For this case, we can provide the Boost Pump Module with 90 degree o-ring fittings that can be clocked in any orientation. This gets us down to an overall pump length of 11" which easily fits into the available space on the RV-8.

