BVM Repair U.A.T Assemble Manual

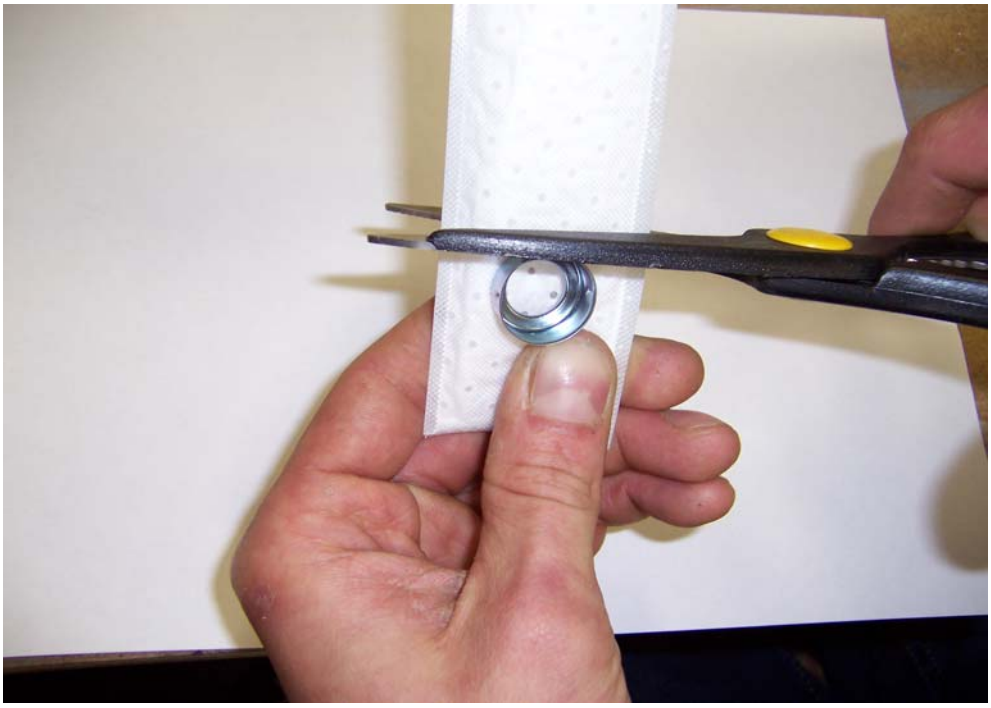
Version 1.1 May-2006

Thank you for purchasing our U.A.T parts.
This system is based on years of experience in using this item in Drone and RC Jets and Petrol engines.
It will make sure that no Air enters your Fuel pump or Engine.
The air is captured in the U.A.T and will stay there until you refuel.
This Manual will show you how to use our U.A.T Repair / Assemble set.
This set is perfect to repair your "old" BVM U.A.T*

Partlist:
1 x Bottle
2 x Copper nipples
1 x Alloy Fuel strainer connector
1 x O-ring
1 x Fuel strainer
1 x plastic spacer for fuel strainer
1 x Festo M5-6MM PUN adaptor
1 x piece of Safety wire
1x piece of Teflon Tape

Tools needed:
Drill with 5-6 mm drill
Scissors
Pliers
10mm Wrench
*** the name BVM is used for reference only**

1: Cut the fuel Strainer just behind the metal opening use heavy scissors
Beneath there is a plastic piece, just cut thru the plastic piece also since we will need this later.

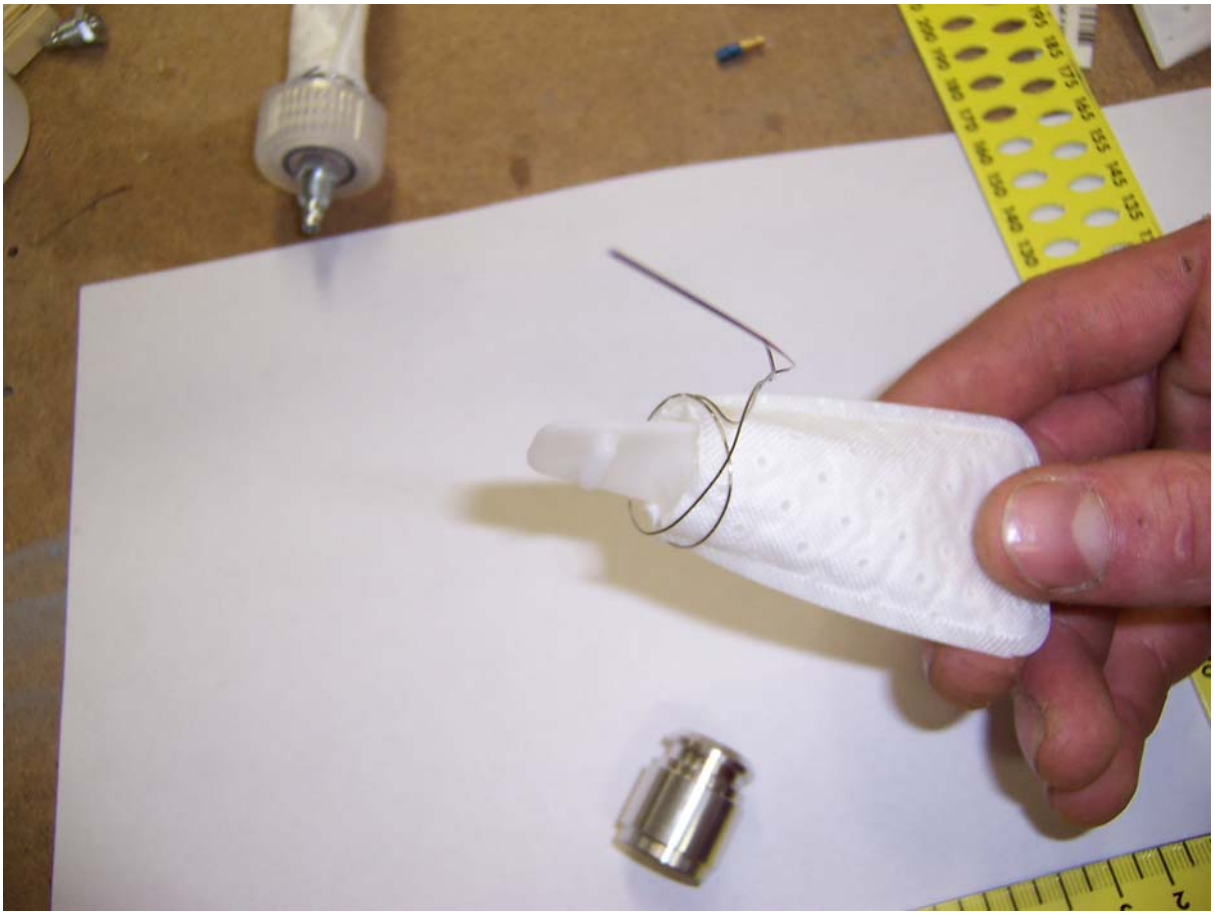


After cutting you have these 2 items left

3: cut the fuel strainer to length (note Picture shows 70mm)
(75MM)

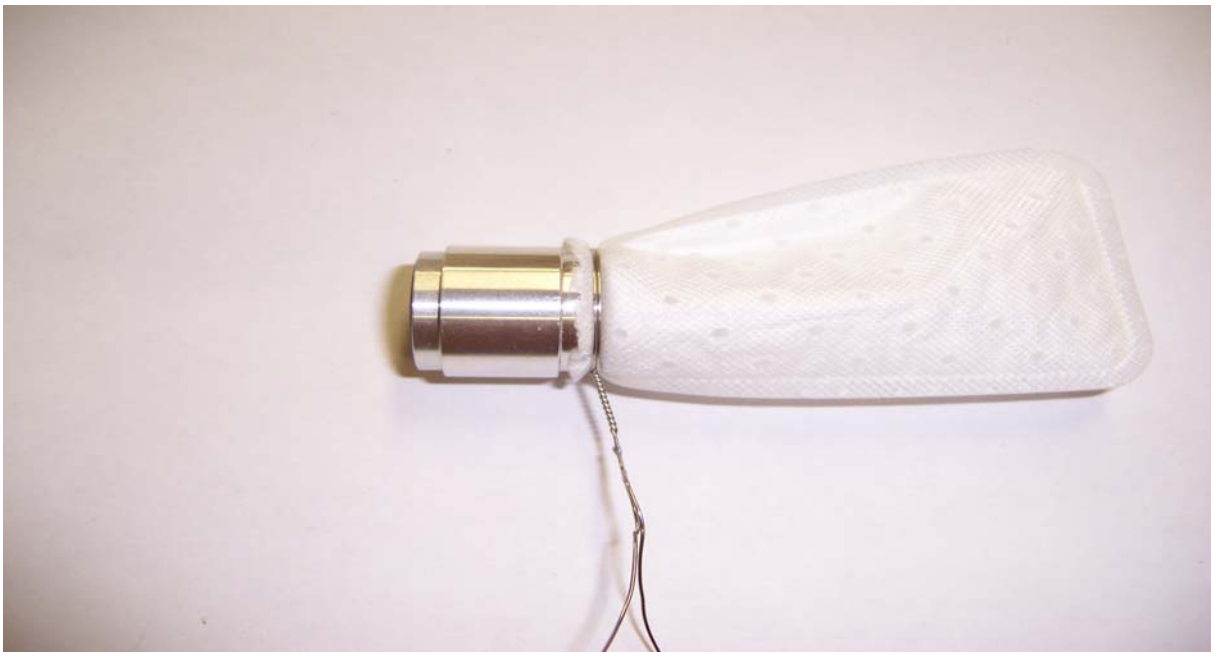
Take the safety wire and pre make a double circle and twist the ends

Put the Safety wire around the Fuel Strainer , and put the small plastic part inside
And make sure that the Plastic part goes inside with the smallest part up!



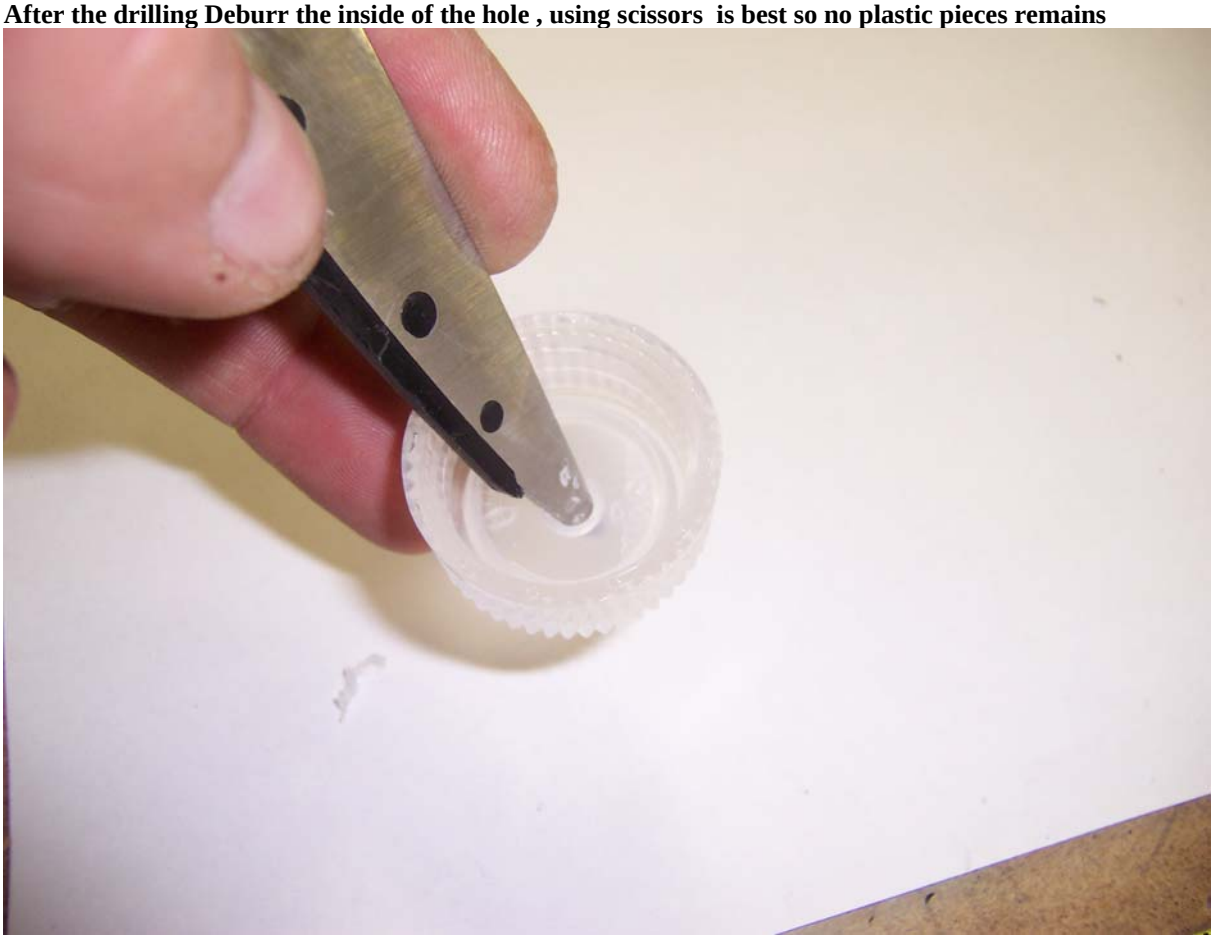
Put the fuel strainer on the alloy part, put the safety wire just over it and use pliers to pull the safety wire into
The ridge

Now Twist the Safety wire using pliers make sure it is not over tight so that the wire will break!
Cut the remaining wire off so you have about 5mm left , now bend the piece Upwards so it can later slide easy into the bottle

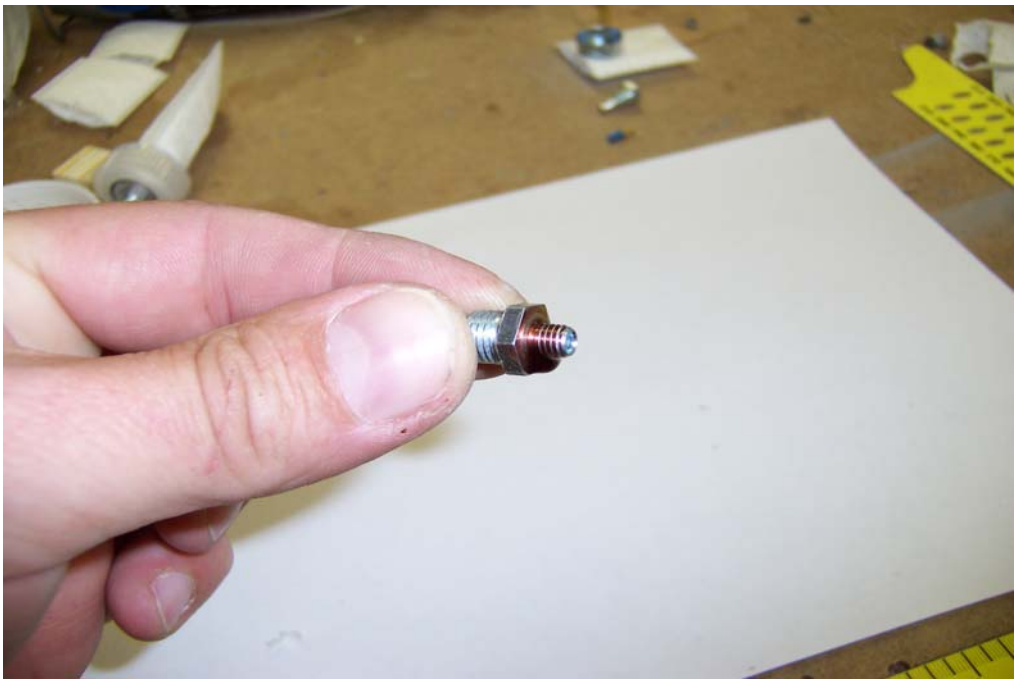


Drill a 5mm hole into the cap of the bottle

After the drilling Deburr the inside of the hole , using scissors is best so no plastic pieces remains

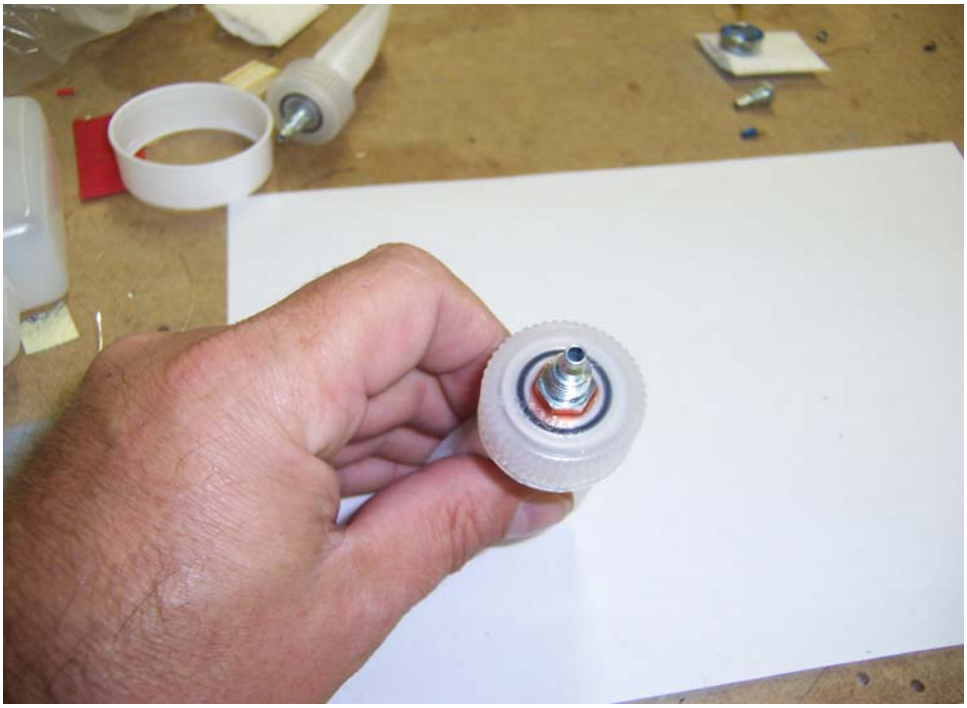


Put loctite thread sealer onto Festo part (NOTE: Just the thread part)



Tighten the Festo nut hold the cap with your hand and tighten but not OVERTIGHTEN the festo until you see the O-ring closing the gap

Here you can see the O-Ring covering the inside completely so that NO air can get sucked in



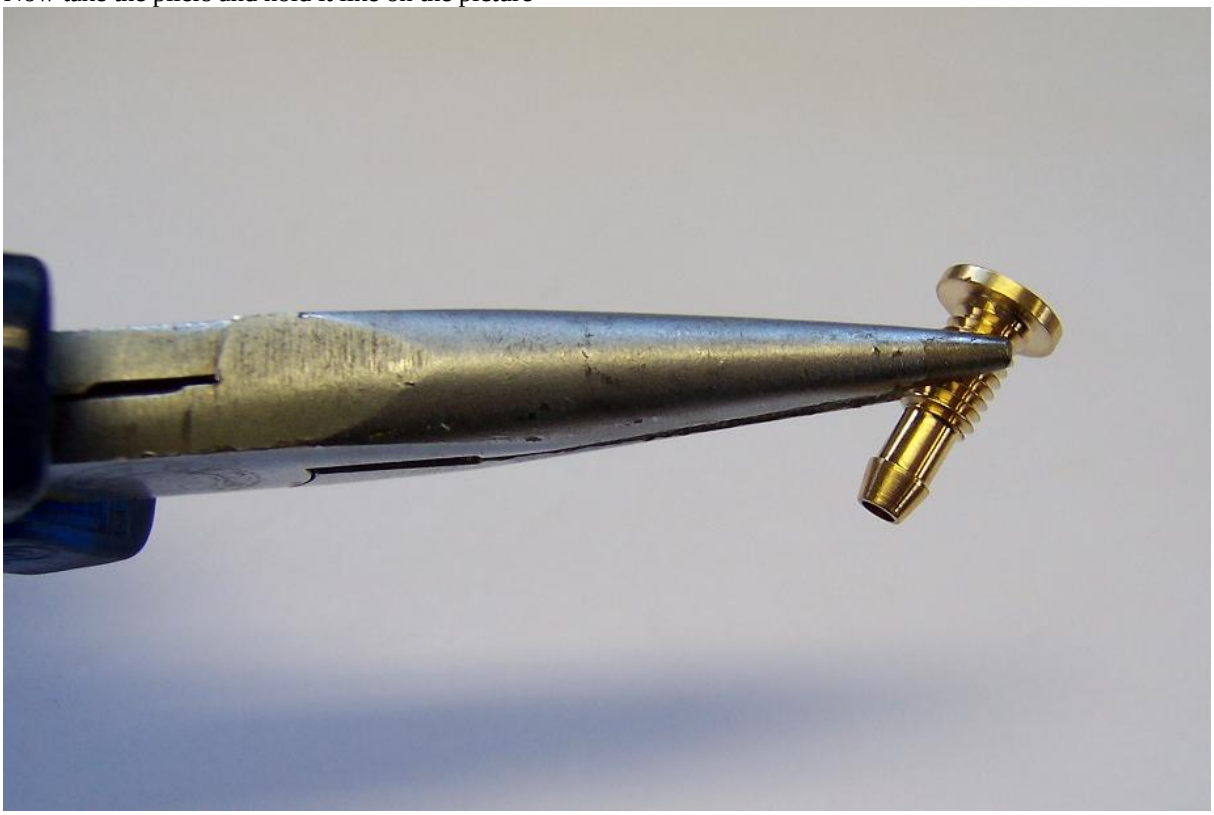
Part one is finished and we can proceed to the Bottle!

Now Drill 2 6mm holes next to each other in the bottle
Deburr the holes

Put the 2 copper nipples inside

Also make sure you deburr the holes you just drilled!

Now take the pliers and hold it like on the picture

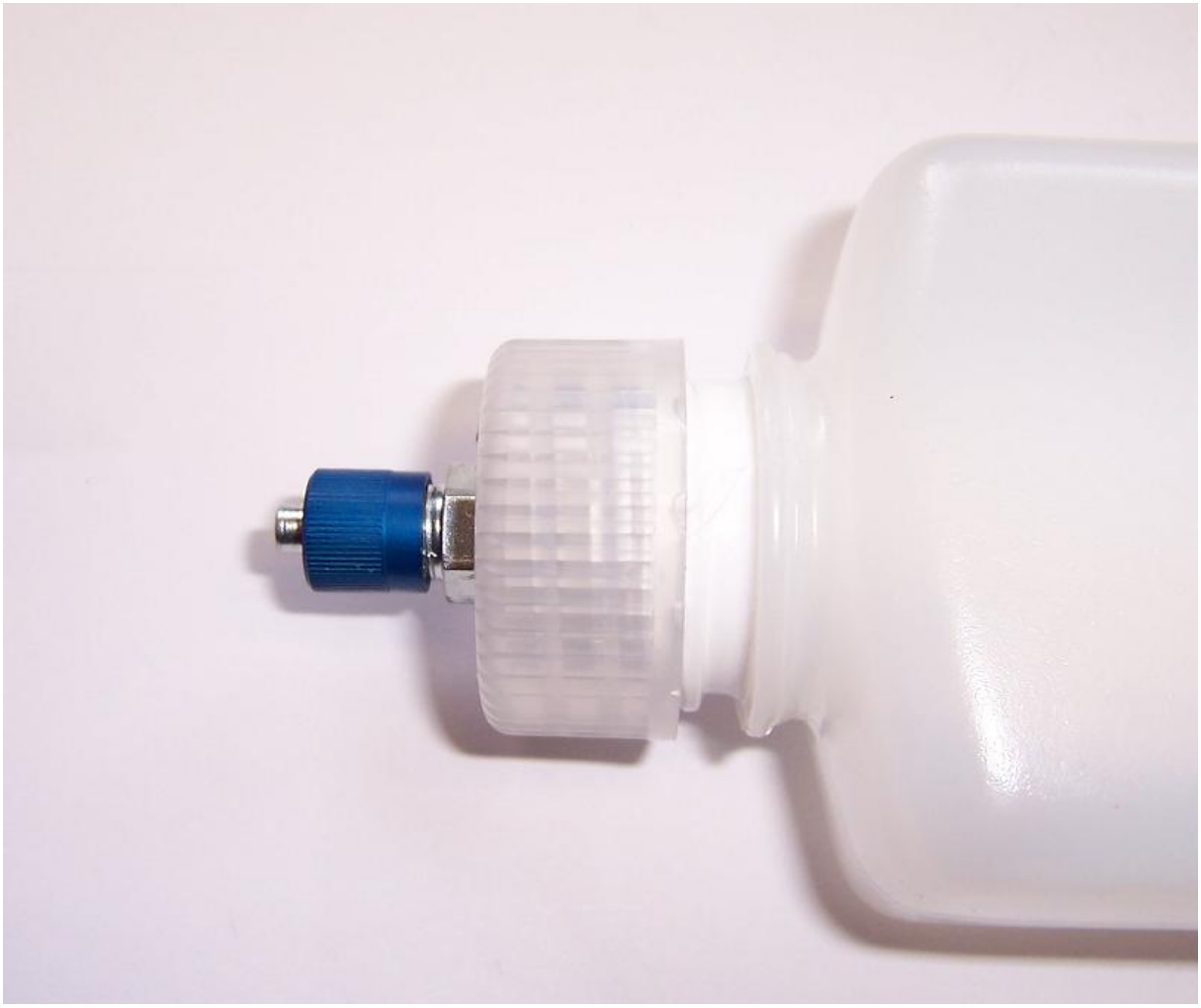


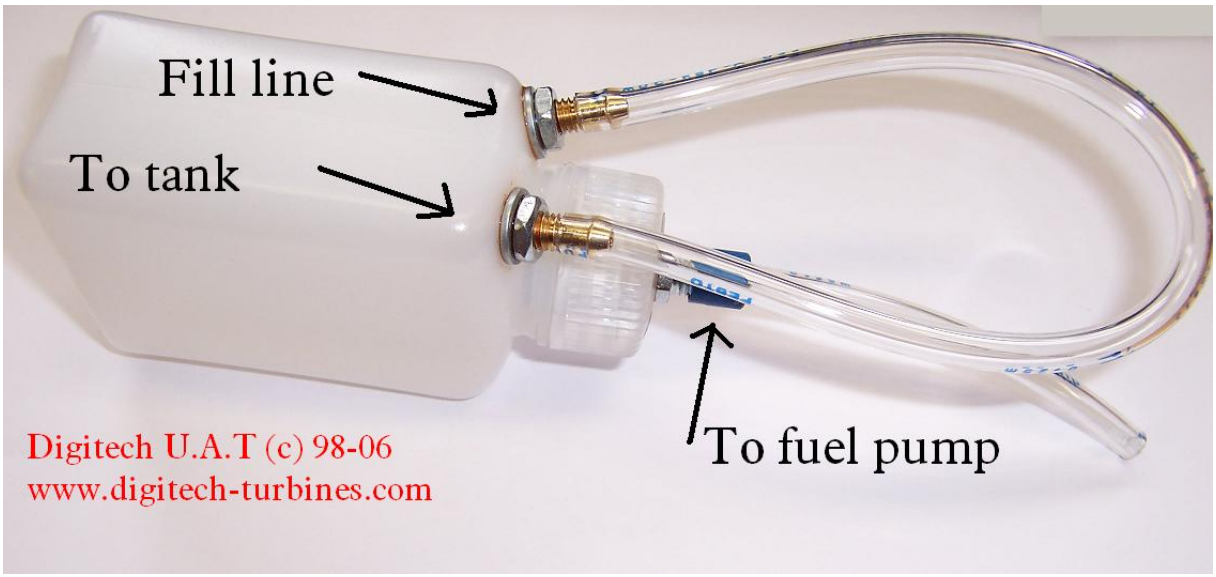
Put it inside the bottle and you will see it will point up against the hole

(note upside down will hold it easyer!)
Put a drop of Loctite on it mount the screw
Hold the nipple with the pliers to stop the nipple from rotating.

Now take the piece of Teflon tape and mount it like on the picture (very important!)
The tape is needed to make a complete airtight construction!

Now take the Screw cap with the bag . place it in the bottle and push it downwards until you hear a click!
(may take some force!)
Now tighten it until it the gap between the bottle and cap is closed
And the tank is done!





It also works great as a fuel filter since the mesh filter inside does its job very good
We urge you to replace the bag once a year (bag only!)
Or after 300 liters of fuel
Also it is normal the bag and bottle discolour after some time this is normal and due to uv radiation on the fuel

If you have any tips or questions please write us a email to :
sales@digitech-turbines.com