

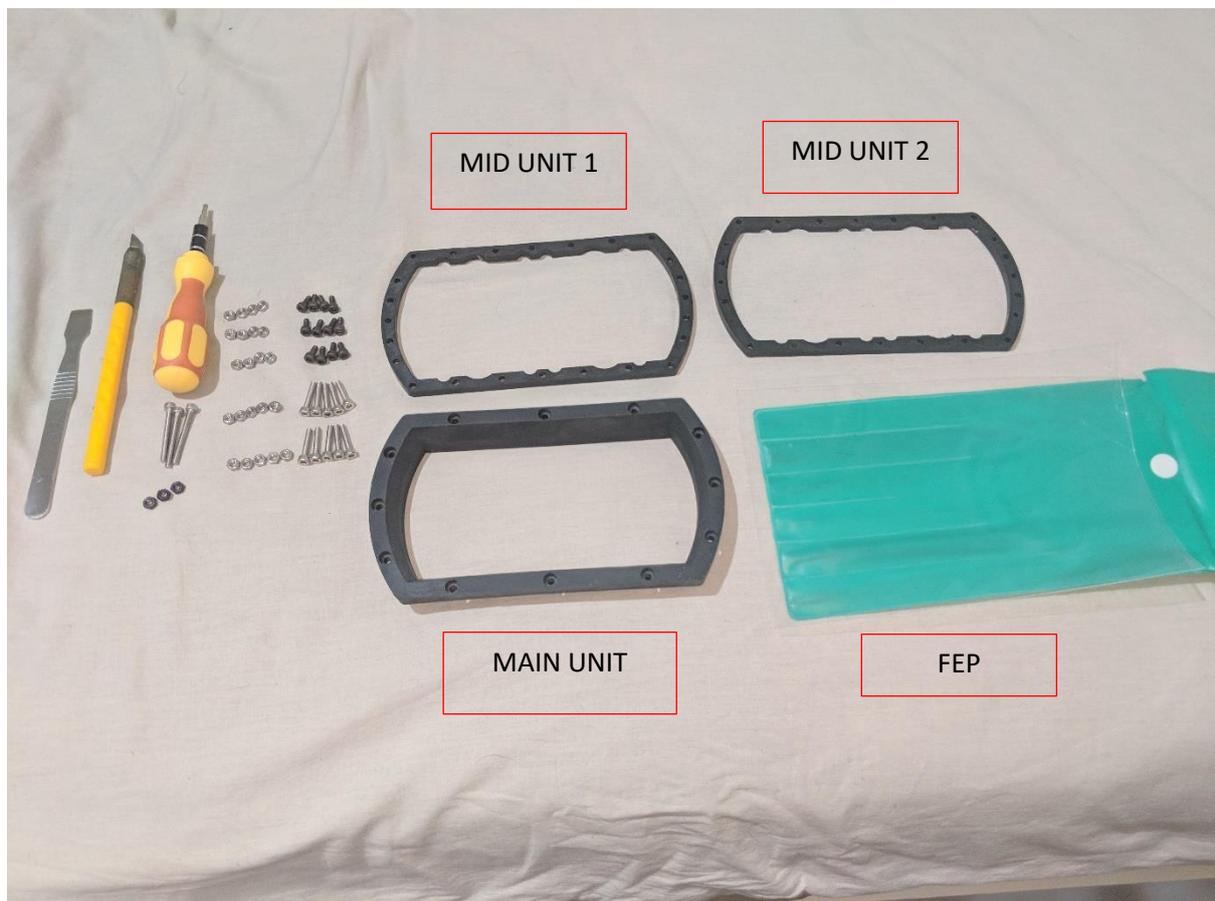
# How to Replace Sparkmaker Resin Vat FEP film

This is a simple guide on how to replace the FEP film on the resin vat. Sparkmaker Vat are assembled in 4 part, Top main unit and 2 mid unit and a FEP film.

## Item needed:

- 1 \* M2.5 Hex Screwdriver
- 1 \* Hobby knife or Pen knife or sandpaper
- 1 \* FEP film (180mm x 125mm x 0.2mm)
- 6 \* M3 x 25 Screw (self prepare) recommended

**Note: Always be extra careful on using Sharp item or Knife.**

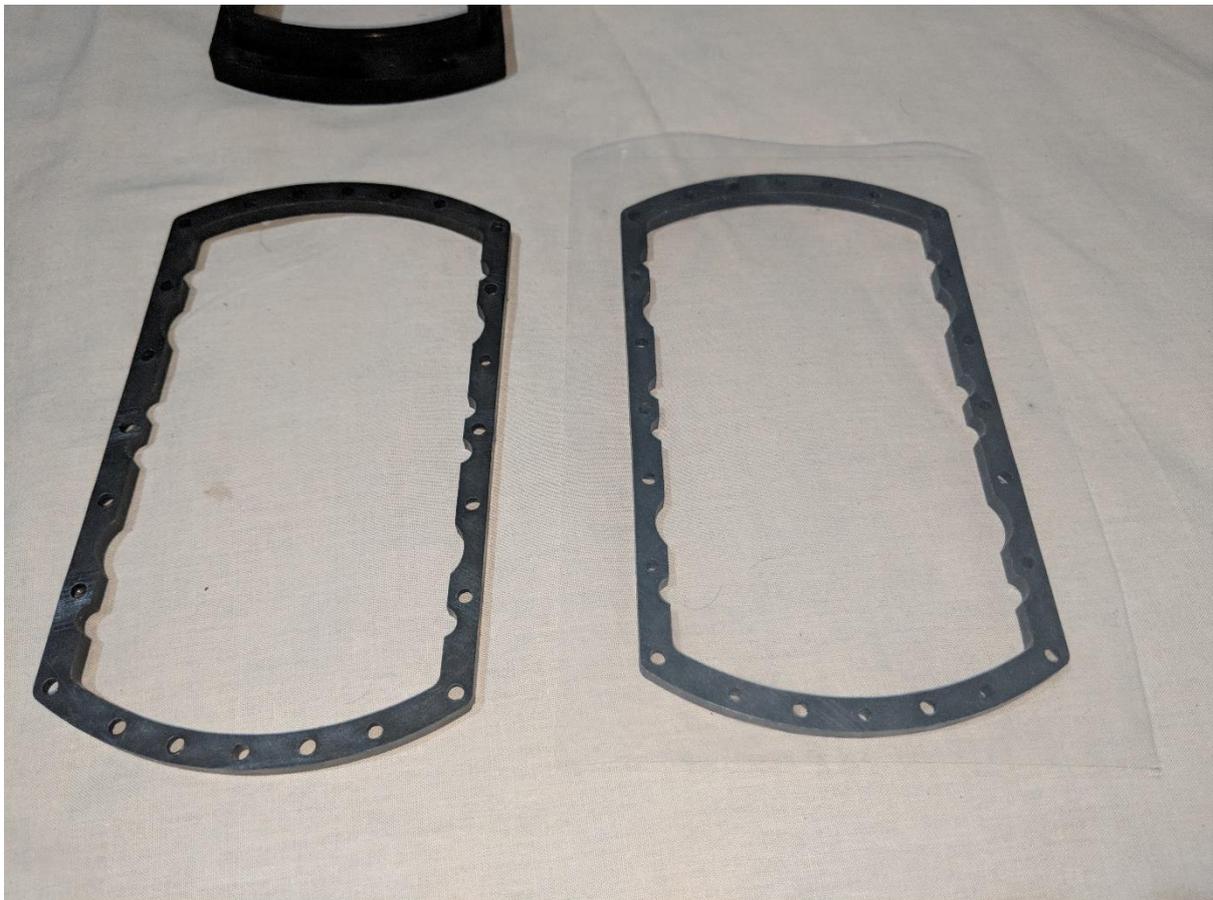


1. Use a Hobby Knife or Pen Knife or sandpaper to remove any uneven or unsmooth part on both mid unit inner edge (De Burrs)



2. After most unwanted parts are remove (De Burrs) form both Mid unit. Place FEP flat on top of one of the Mid unit. Make sure all Nut slot are not facing the FEP film.

(Refer to sample photo below)

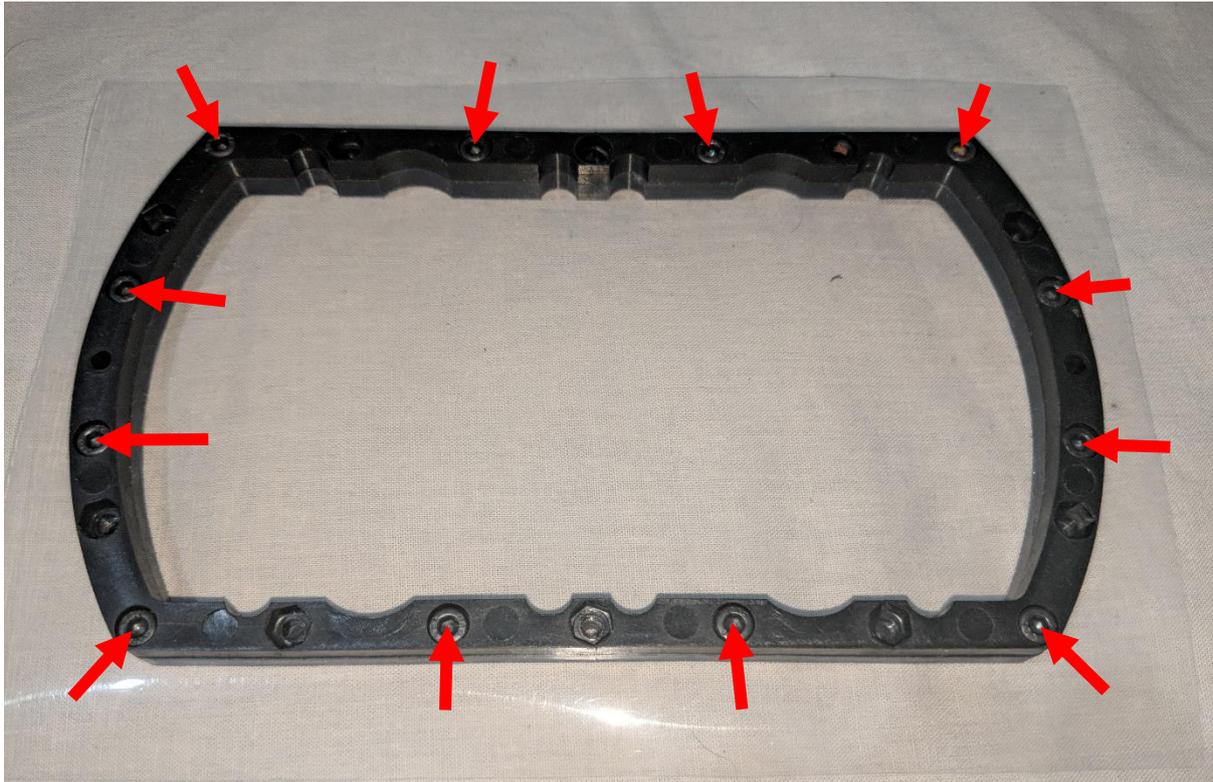


3. Place the other half of the Mid unit on top of the FEP. Make sure all Nut slot are not facing the FEP film.



4. Aligned FEP evenly (flat will do, don't need to have slack.), Then fasten all 12 X M3\*6 with Nut on both Mid unit and FEP together with a M2.5 Hex Screwdriver. (Just poke through the Hole and ensure the whole Mid unit are evenly tighten)

At this point you can replace the stock M3\*6 and M3 Nut, if you plan to.

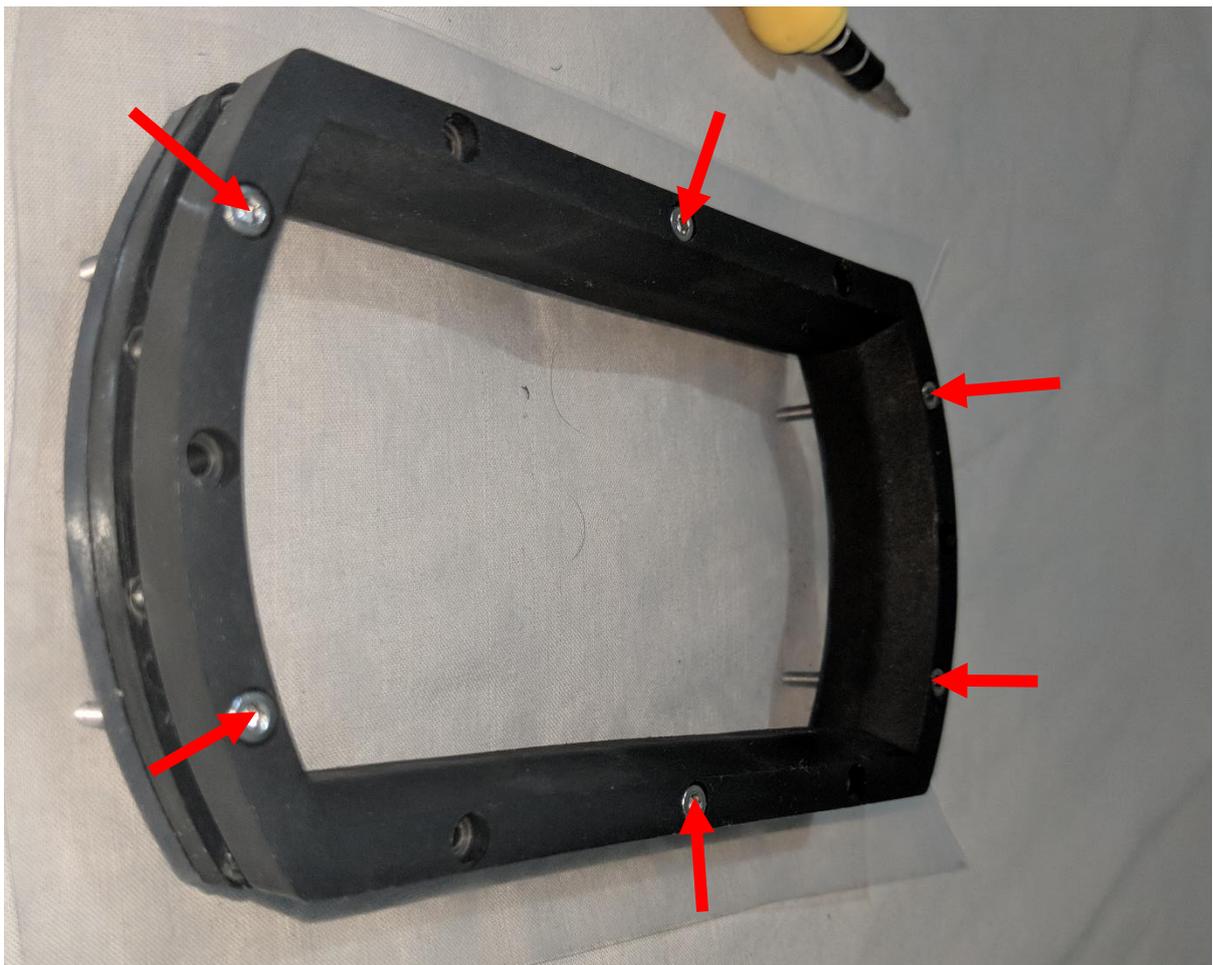


5. At this point Prepare "6 X M3\*25" Screw for evenly fasten Both Main and Mid unit assembly together. Ensure the Mid unit assembly has it's empty Nut Slot facing down.

Please refer to below Sample photo for how both unit should be place

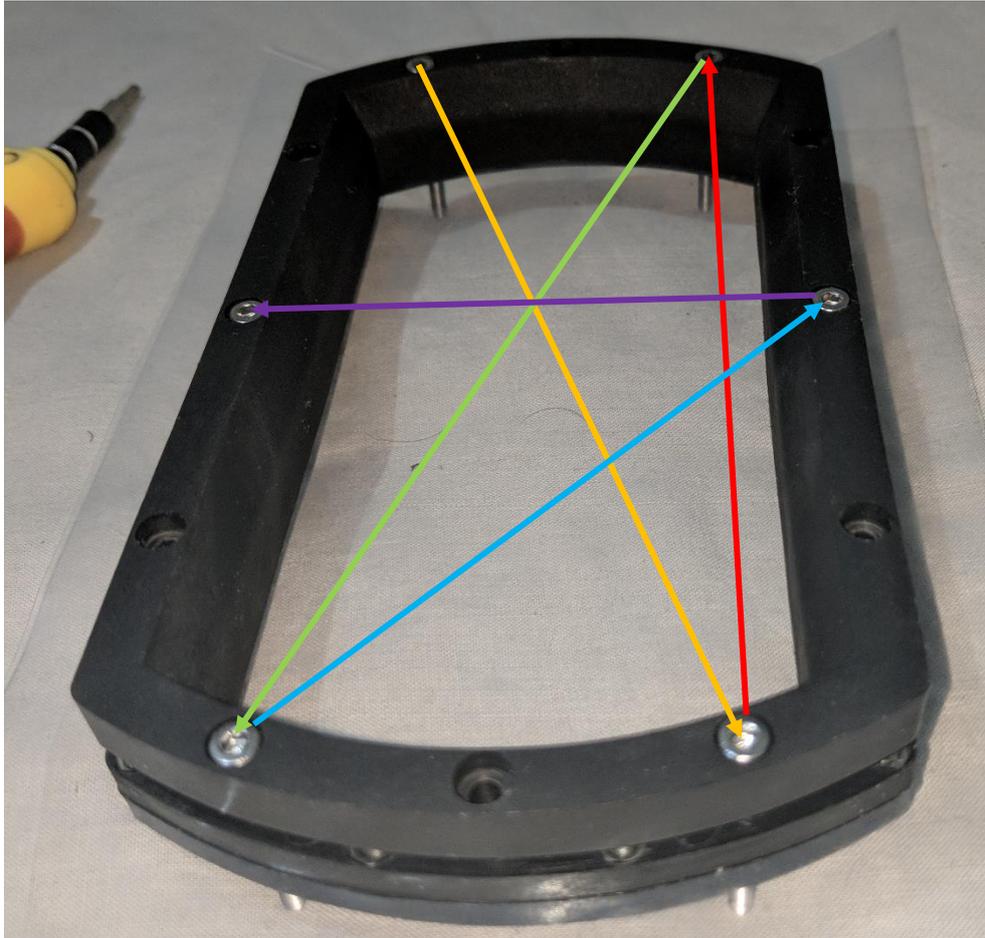


6. Place the main unit on top the Mid unit assembly. And place "6 X M3\*25" and M3 Nut to evenly cramp down the whole assembly.

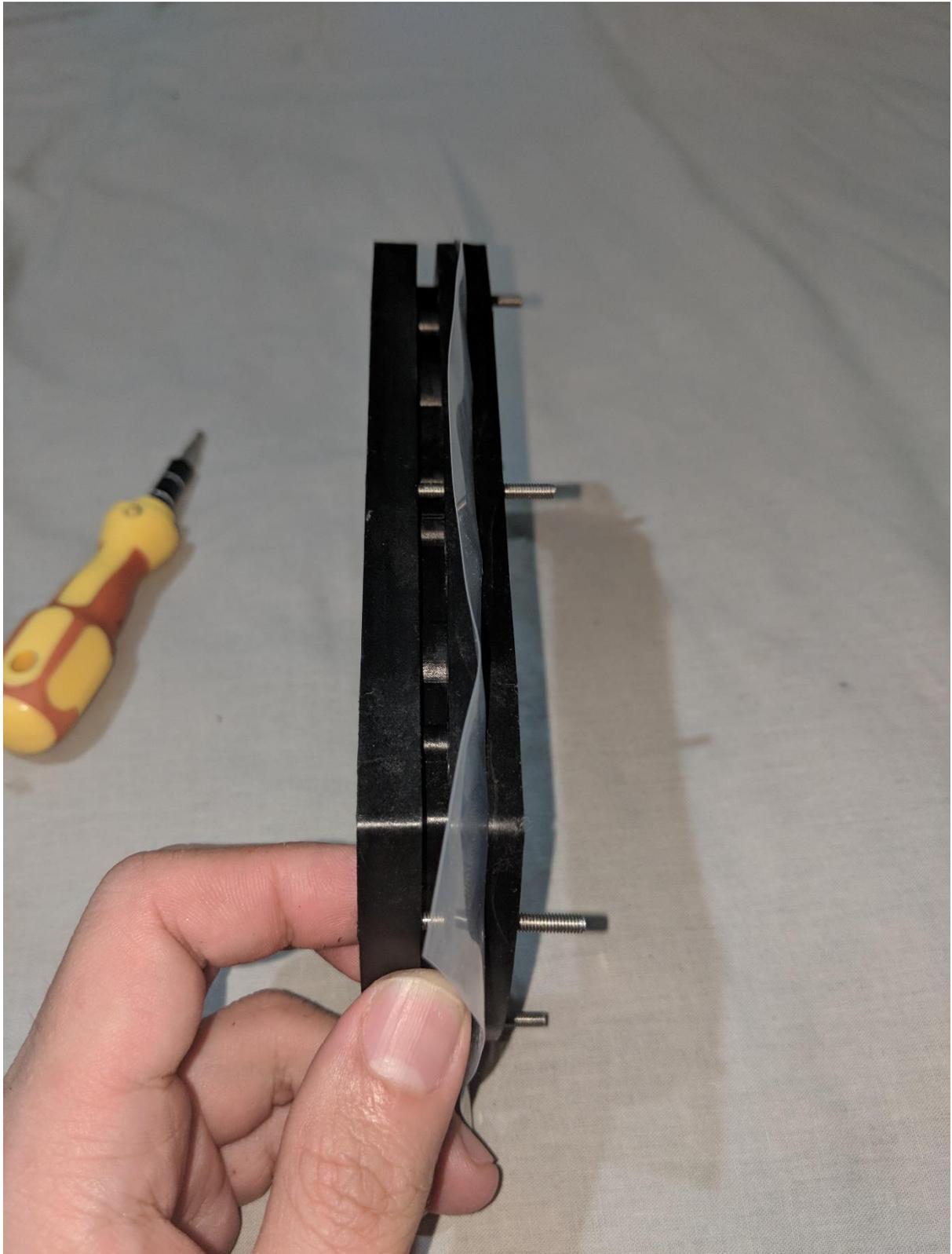


7. Start by Slowly and evenly Cramp down all 6 X M3\*25 in a Cross Patten per cycle.

1, 2, 3, 4, 5



Untighten view:



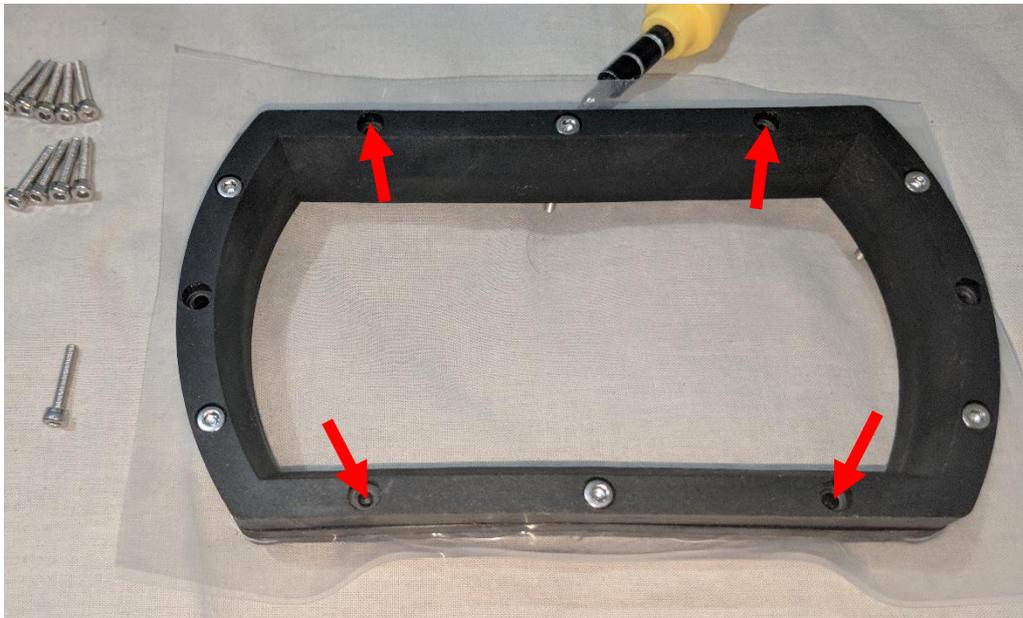
**After 6 cycle of cross and even tightening, try to ensure per cycle all gap are even**



**Last tighten cross tighten cycle:**



8. Now fasten rest of the 4-empty slot with “M3\*16” and M3 Nut.



9. Replace All "M3\*25" screw with "M3\*16", One at a time. (Ensure all Screw are tight evenly)



**10. Leak Test.. Recommend, placing your Fully assemble unit, on a Dry Cloth or Kitchen towel for test. Slowly pour water in to the Vat and wait for 30min. If there a leak or broken seal, your Dry Cloth or Kitchen towel will be wet.**

**NOTE: Pour water in slowly and don't spill the water out.**



**9. Once water Leak testing are completed. You can use a Hobby knife or Pen Knife to trim of the excess FEP film. And you are done.**





