

MONO
ALL IN ONE DESIGN

ASSEMBLY INSTRUCTIONS

MONO

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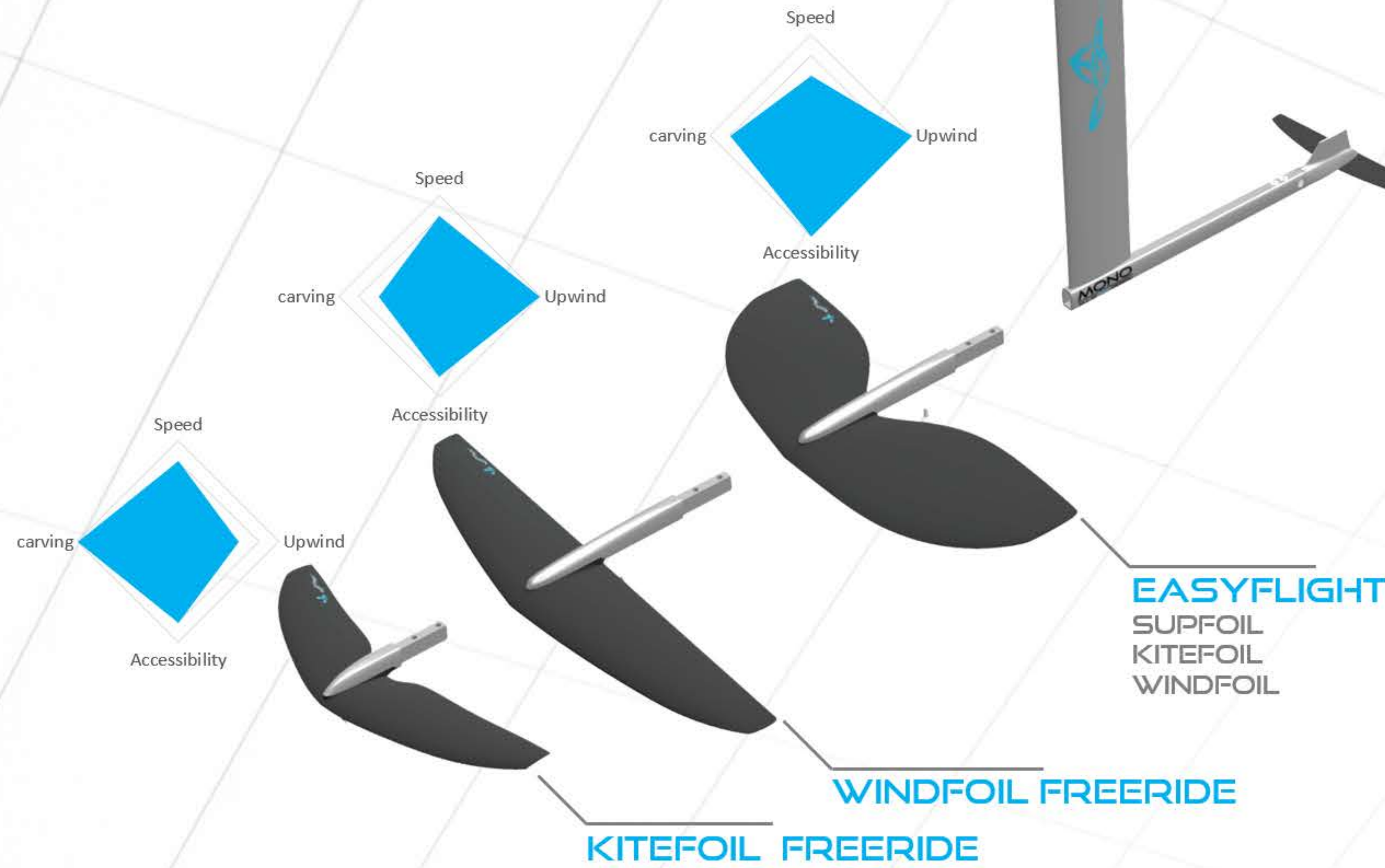
MANTA FOILS.COM

// KITEFOIL - WINDFOIL - SUPFOIL // 2018 COLLECTION

MONO
ALL IN ONE DESIGN

All in one design

The Manta MONO is an all in one design and as a such is an extremely flexible foil! With a single model you can either Kitefoil, Windfoil or Supfoil thanks to a smart front fuselage exchangeable modules system. The adjustable stabilizer system allow precise angle adjustment to obtain the best foiling balance for each rider and activity.



Manta mono parts

The manta mono is offered in 4 configurations as follows:

- 1- All in one : Suitable for kitefoil, supfoil, windfoil
- 2- Kitefoil
- 3- Windfoil
- 4- SUPfoil



Easyflight all in one wing



Kitefoil freeride wing



Windfoil freeride wing



stabilizer



90cm mast



65cm mast



Short fuselage



Long fuselage



Front fuselage short



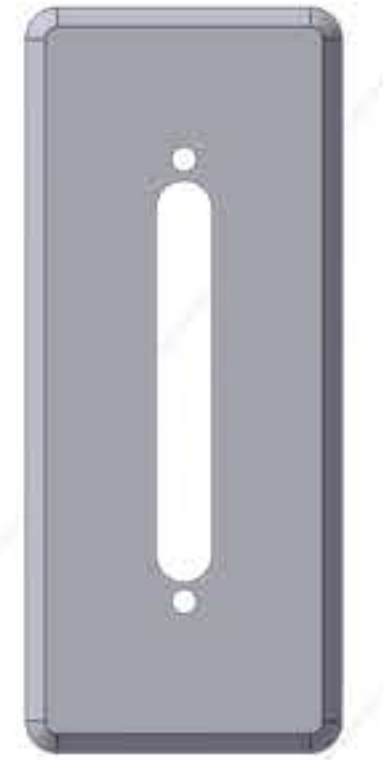
Front fuselage long



Back fuselage



spacer



Tuttle load plate



screws



EVA Reinforced transport bag



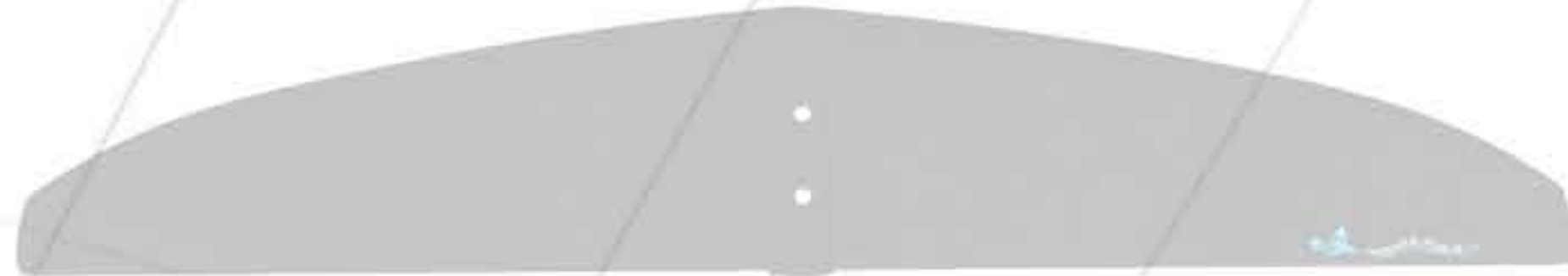
Allen key



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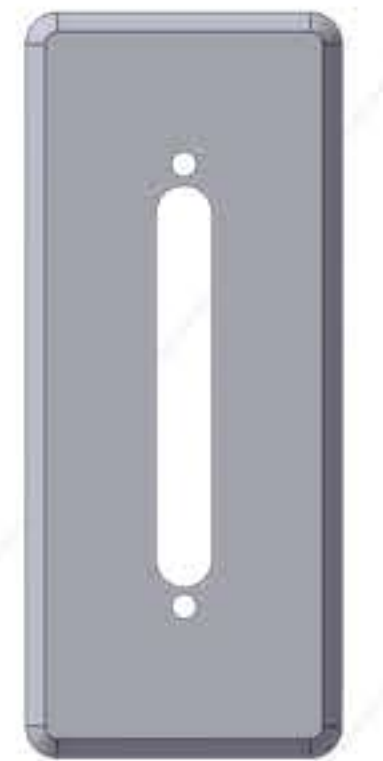
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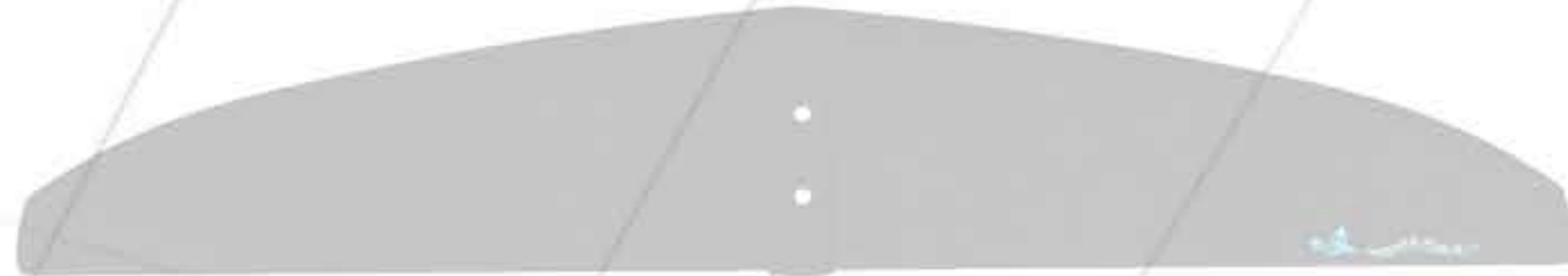
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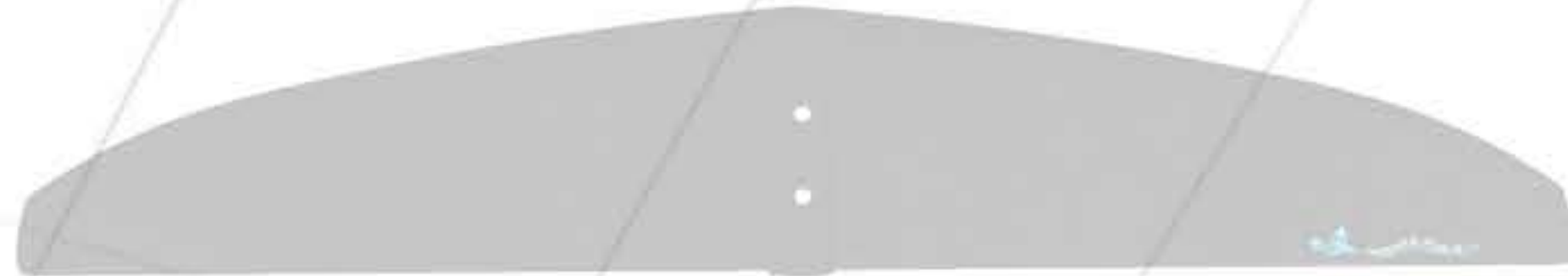




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MANTA MONO ASSEMBLY INSTRUCTIONS



*picture shows typical parts. Each kit parts quantity varies according to it's configuration and the above elements may not all be available in your kit



Fuselage tail to fuselage connection
 2x M6x10 countersunk
 1x M6x20 countersunk
 1x M6x16 countersunk
 2x 6mm washers to trim angle

Back wing to fuselage connection
 1x M8x12 countersunk
 1x M8x16 countersunk

Front wing to fuselage connection
 2x M8x20 countersunk

Mast to fuselage connection
 2x M8x60 socket
 2x split washers

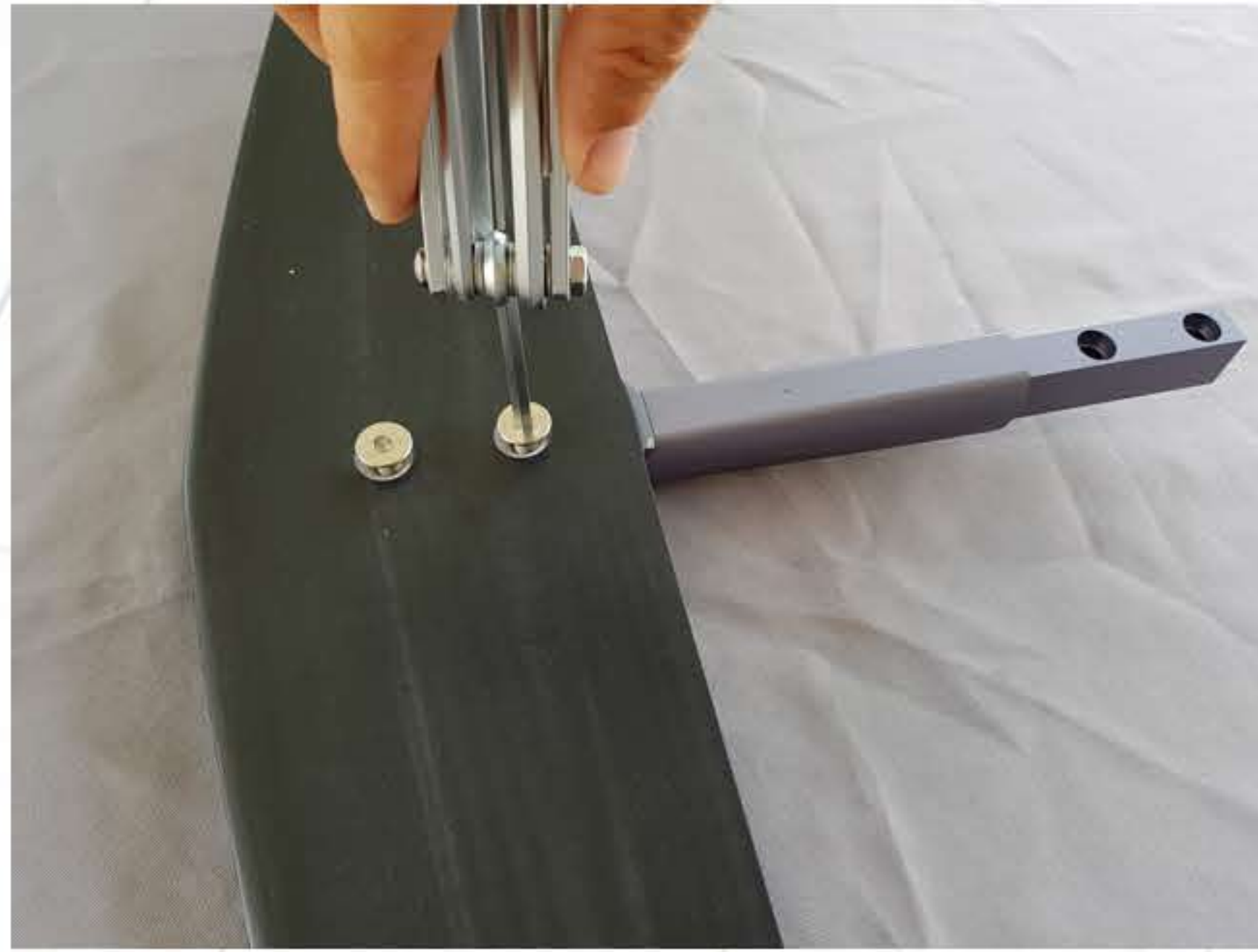
Tuttle head screw inserts
 2x M6x16 grub screws
 2x M6 round inserts 9mm dia

Plate to mast connection
 2x M8x20 button head
 2x 8mm washers



Stabilizer spacers sets
 1x neutral
 1x -1 degree
 1x sandable (round end)

NOTE: each set is supplied with Teg-gel syringe. This gel is to be applied on each aluminum surface in contact with stainless steel screw to prevent galvanic corrosion in salty environment (sea water).



First, assemble your wing with the appropriate nose
Long nose for windfoil and supfoil, short one for kitefoil

Next, assemble your back wing (stabilizer) with the tail fuselage element





Next, assemble your back element with the fuselage part

There are 2 ways to trim the stabilizer angle:

- With the 2 screws only
- With 2 screws and one of spacer (+ washer if required)
- The spacers allow to have fixed angle memory
- The screws option will allow higher precision
- For most users the neutral spacer is best (non marked)
- We also provide a -1 degree spacer (more back foot pressure)
- A spacer that can be sanded by the user to tune his own angle. Sand the flat side of the spacer to reduce it's thickness



More angle = more lift = front leg loaded



Neutral ore angle = balanced lift



Less angle = more speed = back leg loaded

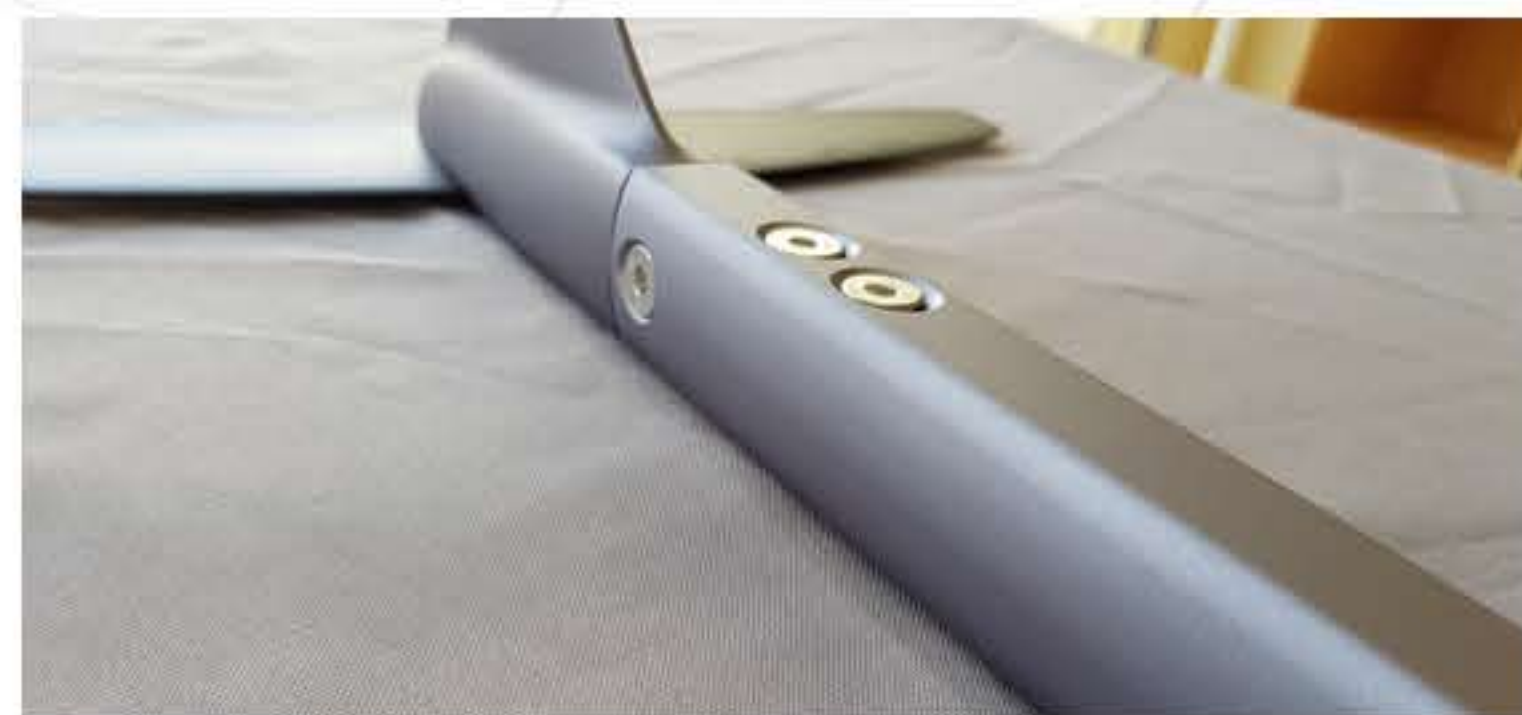




Option 1: fixing angle by screws only

- Place the M6x16 screw on the back hole of fuselage tail
- Insert the tail and then screw the M6x20 screw from the outside
- The counter screw action (having screws against top skin of fuselage) set the angle





Option 2: fixing angle by screws and spacers

- Place the spacer on fuselage tail, add washer if necessary to add angle
- Insert the tail and then screw the 2 M6 screws from the outside



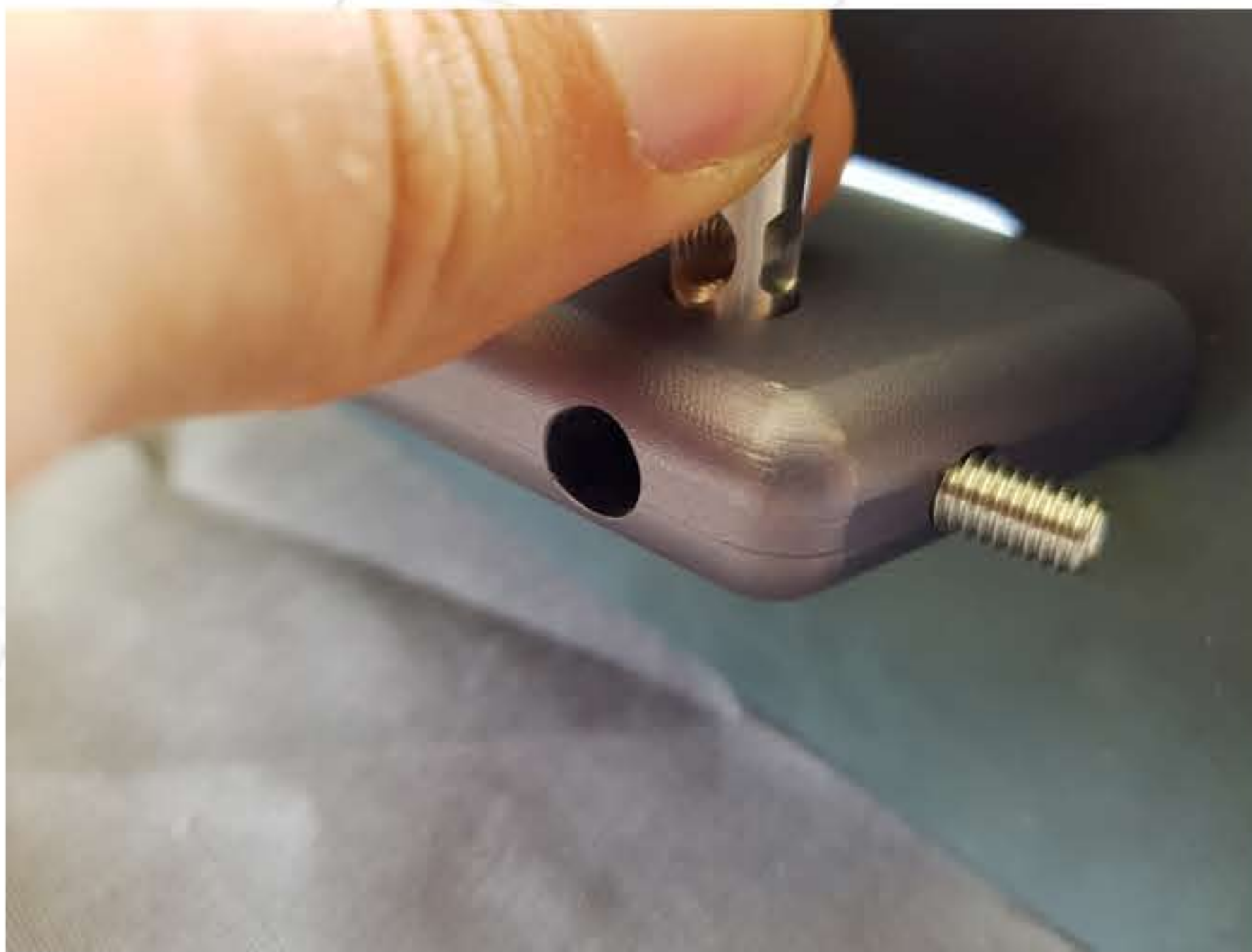


Next, assemble your front wing element with the fuselage. It is important to use the split washers to keep the foil tight at all times.





Fix the tuttle head inserts using the grab screws. Note that there is a flat side facing the screw.





Next, in you have a load plate (windfoil use mainly, not required for kitefoils or supfoils) pass it through the mast carefully to avoid scratches. It is recommended to also use the rubber sheet to protect board surface.





Finally assemble the mast with the fuselage, tight well





FUTURE IS FOILING