

# **INSTRUCTION MANUAL**

## **Precision Wing Mount set**

### **MAX-05-002**

#### **! IMPORTANT - READ BEFORE USE !**

Before you start assembling or use any MXLR product via the product specific manual, you must read and understand the "GENERAL & SAFETY PRECAUTIONS".

#### **Usage:**

The Precision Wing Mount set help with the correct and repeatable mounting of 1/10 scale polycarbonate wings on TC Bodyshells. The CNC machined aluminum drill jig fits perfectly in the wing mount of the bodyshell which allows to precisely drill the mounting holes for the wing. Additionally, this set offer the possibility to drill holes in a specific distance to each other in order to change the wing position and affect the handling. The distance between each hole in the drill jig and the Precision Carbon Wing Mount Plates is 2,5mm. This allows you to adjust the wing position in 2,5mm steps inside the same bodyshell. The total adjustment range is 12,5mm.

#### **Required Tools:**

- Aluminum drill jig (included)
- 3,0mm Ti-coated drill bit (included)
- Power Drill or Tool Handle with min. 3,0mm opening (not included)
- Phillips Screwdriver 4,0mm (not included)
- Nut Driver 5,5mm (not included)

#### **Suitable for:**

**ZooRacing:** ZooZilla - PreoPard - DogsBollox - HellCat - BayBee - Wolverine - ZooDiac

**Xtreme:** Twister - Twister Speciale

**Mon-Tech:** YSOT



#### **IMPORTANT NOTES:**

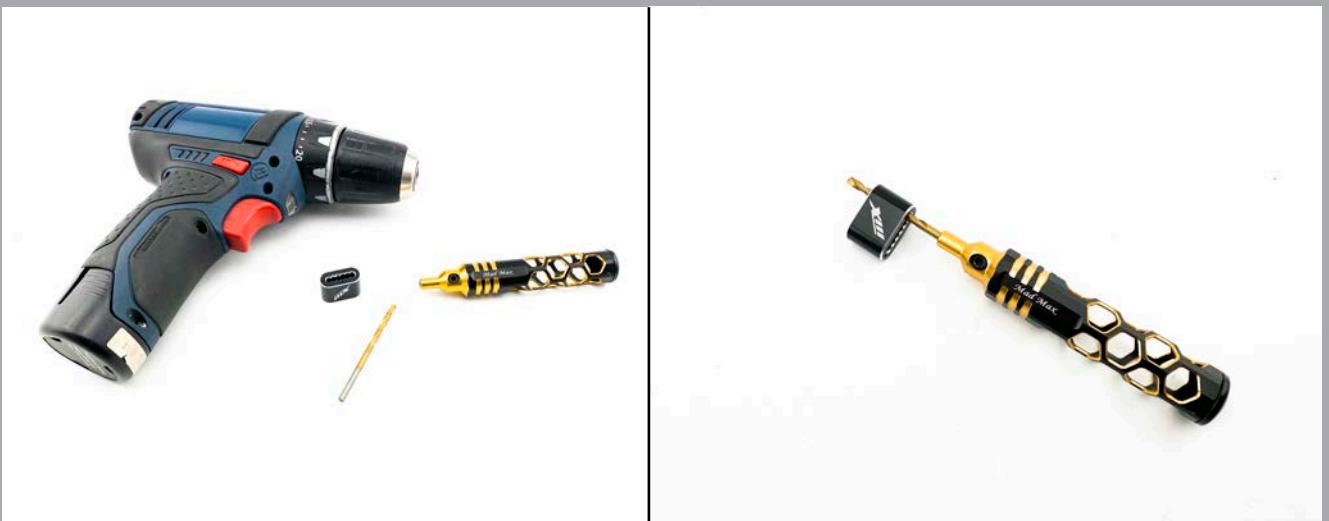
(\*1) As the Bodyshells are available and sold in various thicknesses, there can be slight differences in fitment of the jig and the plates. The tolerances of the bodyshell production are out of our control!

(\*2) Depending on the thickness and type of the polycarbonate used for your Bodyshell, the drill result can/will be different.  
Thicker polycarbonate (0,7mm) = more precise and sharp drilling result.  
Thinner polycarbonate (0,5mm) = less precise and slight blurred drilling result.

(\*3) Thinner bodyshells need more care at drilling. We recommend to use less force and speed at drilling of the holes.

(\*4) In order to keep the weight as low as and the performance as high as possible, we include PA plastic M3 nuts and screws. The material has great properties such as strength and elasticity to survive even hard crashes without damage. Downside of the screws = it's rather easy to overtight the nuts and skip the thread of the screw. Please be gentle at tightening! We recommend to add a second nut (we include enough) on every screw to create a "double nut"-bonding.

**STEP 1:** You can either use a Power Drill or a Tool Handle with 3,0mm opening (std size of most tools) to fit the Ti-coated drill bit.  
The drill bit fits perfectly inside the drill pattern of the aluminum drill jig.

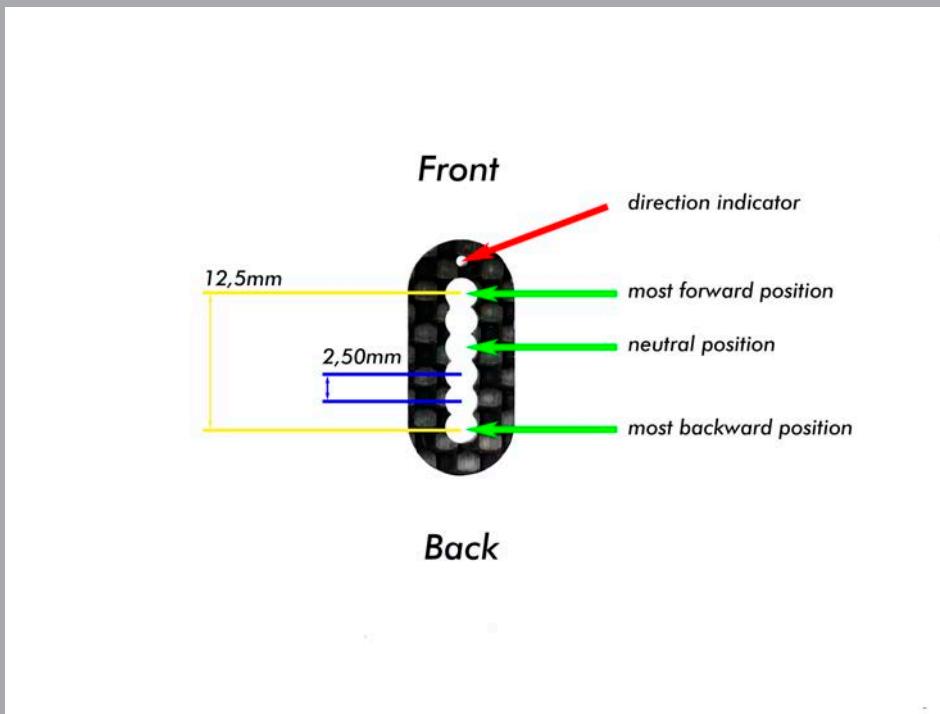


**STEP 2:** Place the aluminum drill jig inside the wing mount of the bodyshell. Take care about the orientation of the jig.  
The marking/recess of the tool should point to the front of the Bodyshell.  
Please see the info in STEP 3 about the correct orientation.



**STEP 3:** Choose your initial position to drill the hole into the Bodyshell. The hole pattern of the drill jig and the carbon plate is identically. Below we show a Precision Carbon Wing Mount plate to visualize the direction and the different positions. The gap between each hole is 2,50mm. As initial we recommend to mount the wing in the neutral position and adjust later on according the given track conditions.

Wing more forward = less stable / more steering / more agile  
Wing more backward = more stable / less steering / calm handling



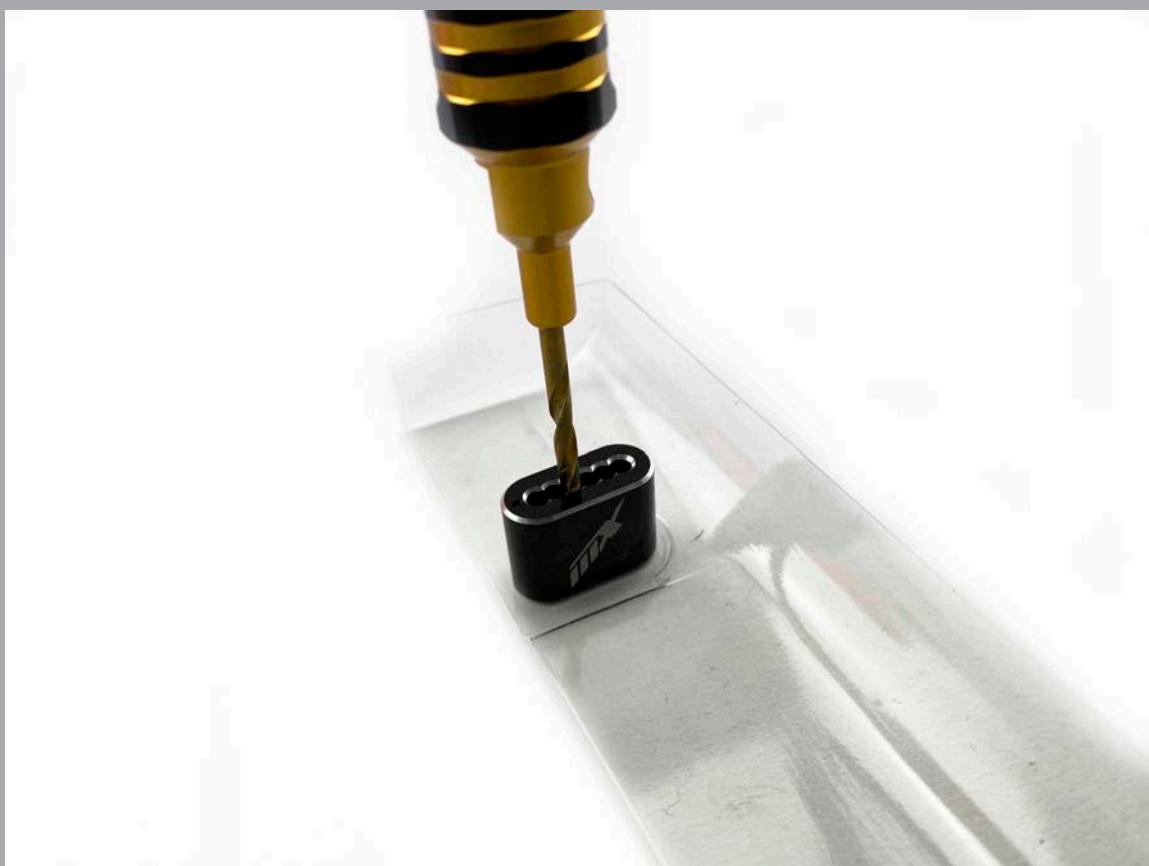
**STEP 4:** Use the 3,0mm Ti-coated drill bit and insert it into your preferred hole position of the aluminum jig.  
Take care to insert it correctly otherwise it could bind or you even damage the jig.  
Start carefully to drill the hole (\*3). Depending on the Bodyshell it takes just a few turns to get through (\*2).



**STEP 5:** The drill jig can / should also be used to drill the holes into the wing. This will ensure a precise fitment and the best performance.  
We recommend to use mostly the 3rd hole from the front as shown below.



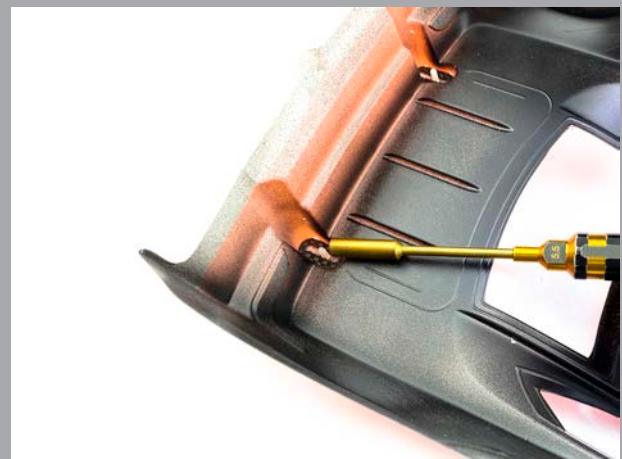
Remind the orientation of the drill jig! Take care to insert the drill bit correctly otherwise it could bind or you even damage the aluminum jig.  
Start carefully to drill the hole (\*3). Depending on the wing it takes just a few turns to get through (\*2).



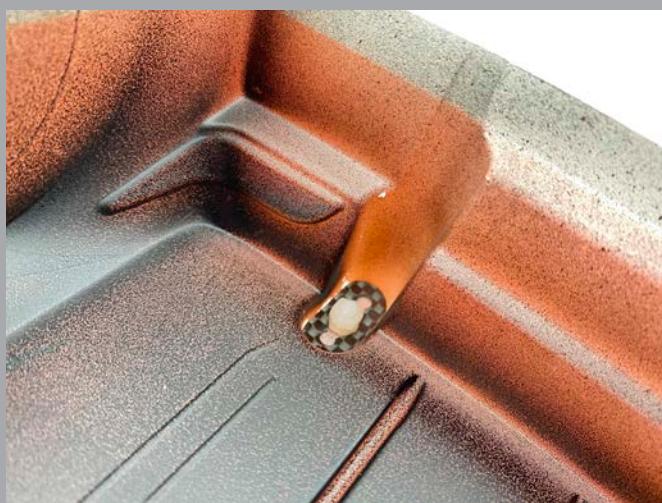
**STEP 6:** Use two PA M3x8 screws and two of the Carbon Wing Mount Plates on the topside of the wing to attach it to the Bodyshell.  
Again, take care about the orientation and the holes pattern of the plates!



Place another Precision Carbon Wing Mount Plate inside of the Bodyshell. This extend the rigidity of the mount and keep the screw in the correct position, which is even more important if you drilled additional holes.  
Use a Philips screwdriver and a 5,5mm nut driver to bolt on the wing with the included M3 nuts.



Take care to not overtight the PA nuts (\*4). We recommend to add a second nut (we include enough) on every screw to create a "double nut"-bonding.  
After STEP 6 you are ready to hit the track! STEP 7 is about additional holes to further adjust the handling.



**STEP 7:** If you want to adjust your wing position, either more forward or backward in order to change the handling, you can easily drill additional holes. Remove the rear wing from the Bodyshell and place the aluminum drill jig inside the wing mount. Put the drill bit inside the chosen hole of the jig and drill the additional hole.



Depending on the Bodyshell thickness (\*2) its possible to drill the holes right after each other. We highly recommend to use the Precision Carbon Wing Mount plates on the in and the outside! The form fit of these plates inside the wing mount will ensure a perfect and strong bolting of the wing.



Keep the position of the screw in the outer top plate of the wing. It only needs to be changed in case you drill another hole in the wing itself.

Thanks for your purchase!



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