

# Opale Paramodels



## triKeL

### User's Guide

**Please read carefully this manual before using your equipment for the first time.**

Thanks for having chosen an Opale-Paramodels product. We truly believe this radio-controlled paraglider is going to give you hours of enjoyment and will enable you to go through new outstanding piloting experiences.

This user's guide content includes all the information you need to get your wing fly and to ensure you will take good care of it. A good knowledge of your equipment will allow you to safely make the most of its performances for your greatest pleasure!

Thanks for giving this manual to the new owner in case you decided to sell you radio-controlled paraglider.

Best regards,

The Opale-Paramodels Team

## **Safety Information**

**You should be properly insured according to the country regulation you are using our equipment in. You hereby accept the inherent risk of flying radio-controlled models.**

**Using our equipment in a bad way may increase risks. Neither Opale-Paramodels nor any other seller will be liable for any damage caused by any accident whatever the circumstances are. The way our equipment is used is incumbent upon the final user, including towards the law.**

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### Technical data:

- Width: 47 cm
- Height: 45 cm
- Length: 41 cm
- Empty weight: 2450 gr (chassis + locking plates)
- Recommended motorization: 800 to 1100W depending on the overall weight brought up in the air
- Maximum propeller size: 15 inches
- Chassis: Steel
- Locking plates: Fiberglass / Carbon
- Epoxy Paint

## 1. TRIKE L Kit Content (Set 2)



Ttrike L kit (set 2) content:

- 1x Red steel frame
- 2x Black fiber locking plates
- 2x Wheels (127 mm diameter)
- 1x Wheel (89 mm diameter)
- 2x 24 kg.cm servomotors including accessories
- 2x Plastic arms
- 2x Stainless-steel shackles (4mm diameter)

## 2. Assembly steps

- Front landing wheel assembly:



Use the 5 screws wrapped in the plastic sachet as shown above (on the right side of the picture).

Verify (and adjust if necessary) that the 2 holes of the aluminium rims are properly aligned and facing each other.

Then insert the 5 screws in the designed holes of the rim.





Insert the nuts on the other side of the rim. Screw the screws and the nuts firmly.

Insert the  
on  
spacer ring (5mm diameter).  
the other side of the rim.



Do the exact same thing

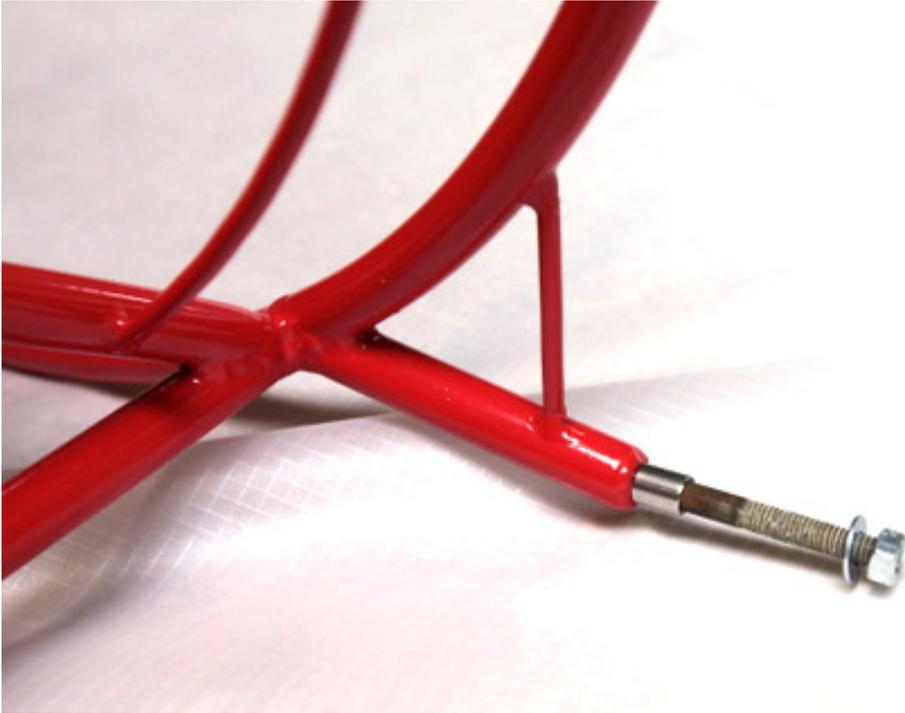


Secure the nuts using **thread sealant** or some **Loctite super glue**.

- **Assembling the rear wheels to the chassis**

To go through this step you will need:

- 2x Wheels (127 mm diameter)



Unscrew the nut and remove the washer. Then insert the wheel and screw the washer and the nut back. Don't screw it too hard to let the wheel rotate around the axle. As usual, please secure the nut using thread sealant or some Loctite super glue.



- **Front wheel mounting**

Please grab the 89 diameter wheel you previously assembled.



Unscrew the Nylstop nut and remove the washer. Then insert the wheel and screw the washer and the Nylstop nut back. Make sure the wheel can turn freely and doesn't rub against the frame.

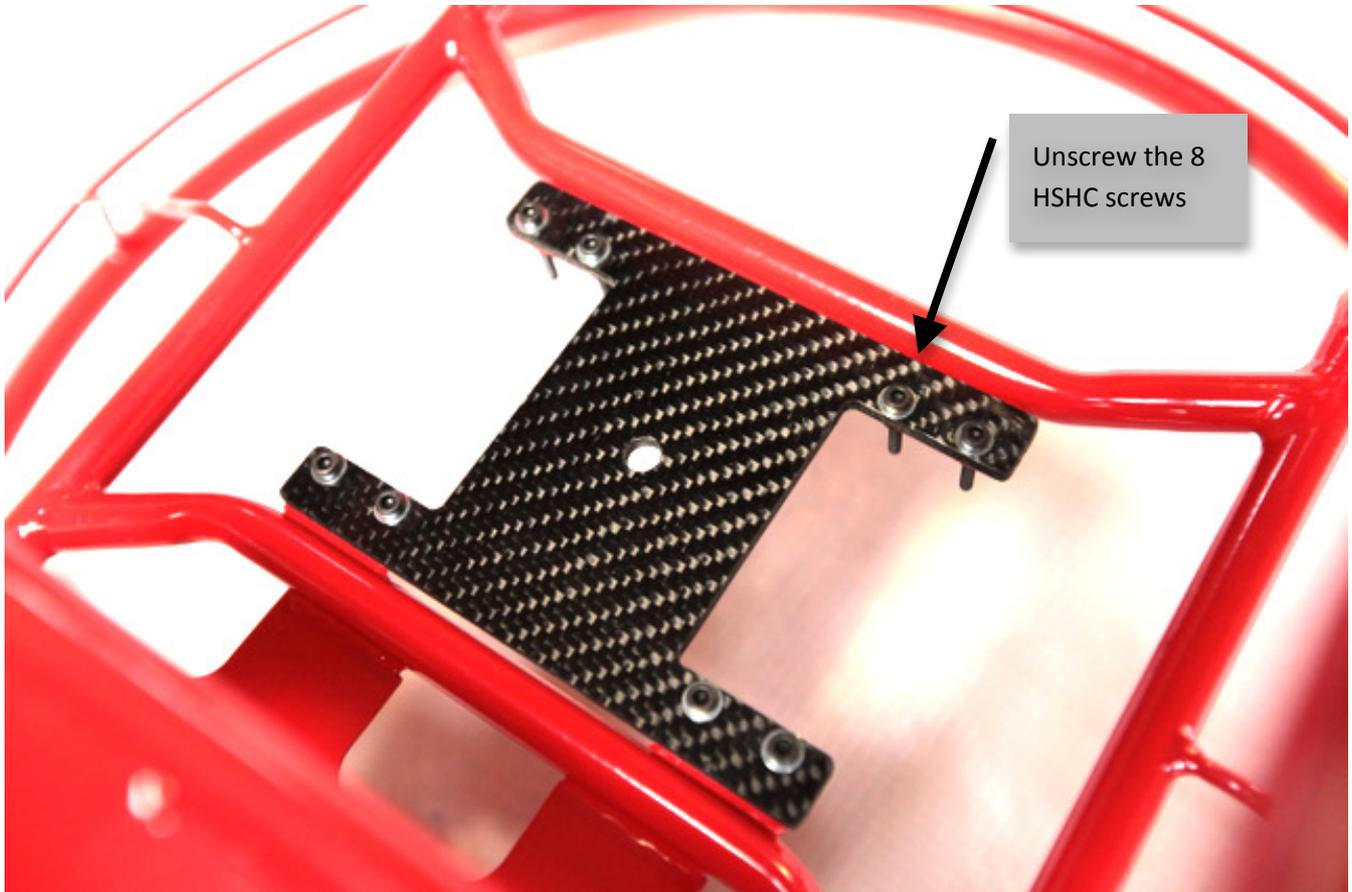


The whole system is now ready for receiving the electronic onboard.

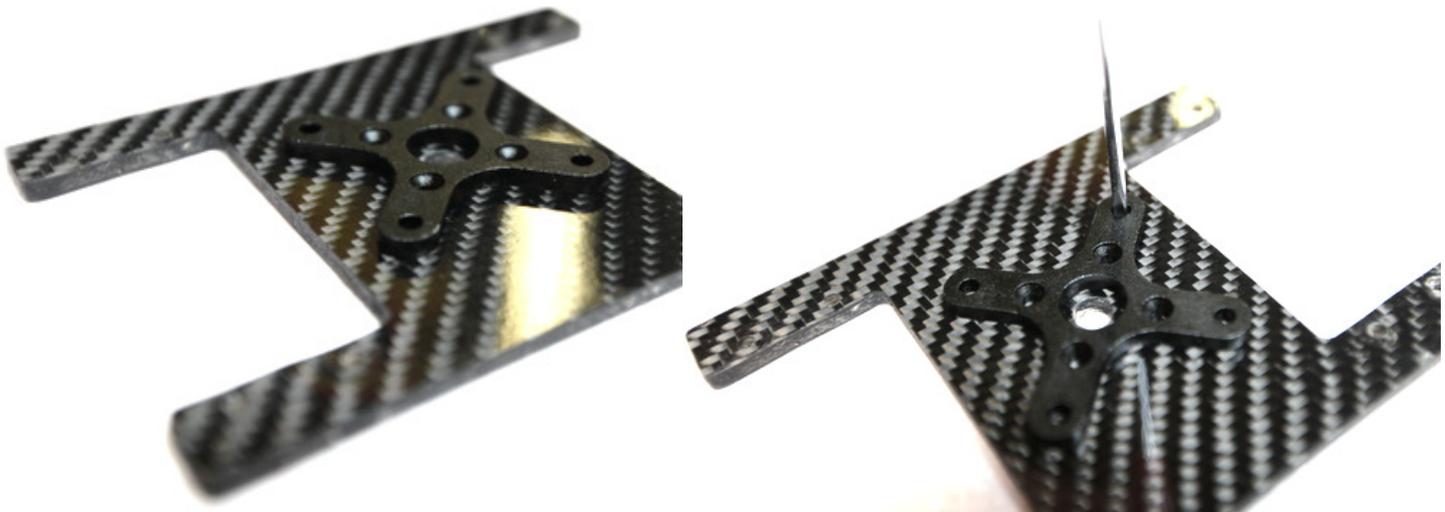
- **Putting the servomotors and the main motor in place**

To go through this step you will need:

- 2x 24 kg.cm servomotors and the accessories
- 2x Plastic arms
- 1x crosspiece which is the motor holder



Put the crosspiece on the locking plate. Use the 8mm diameter hole already done on the locking plate to center the crosspiece properly.

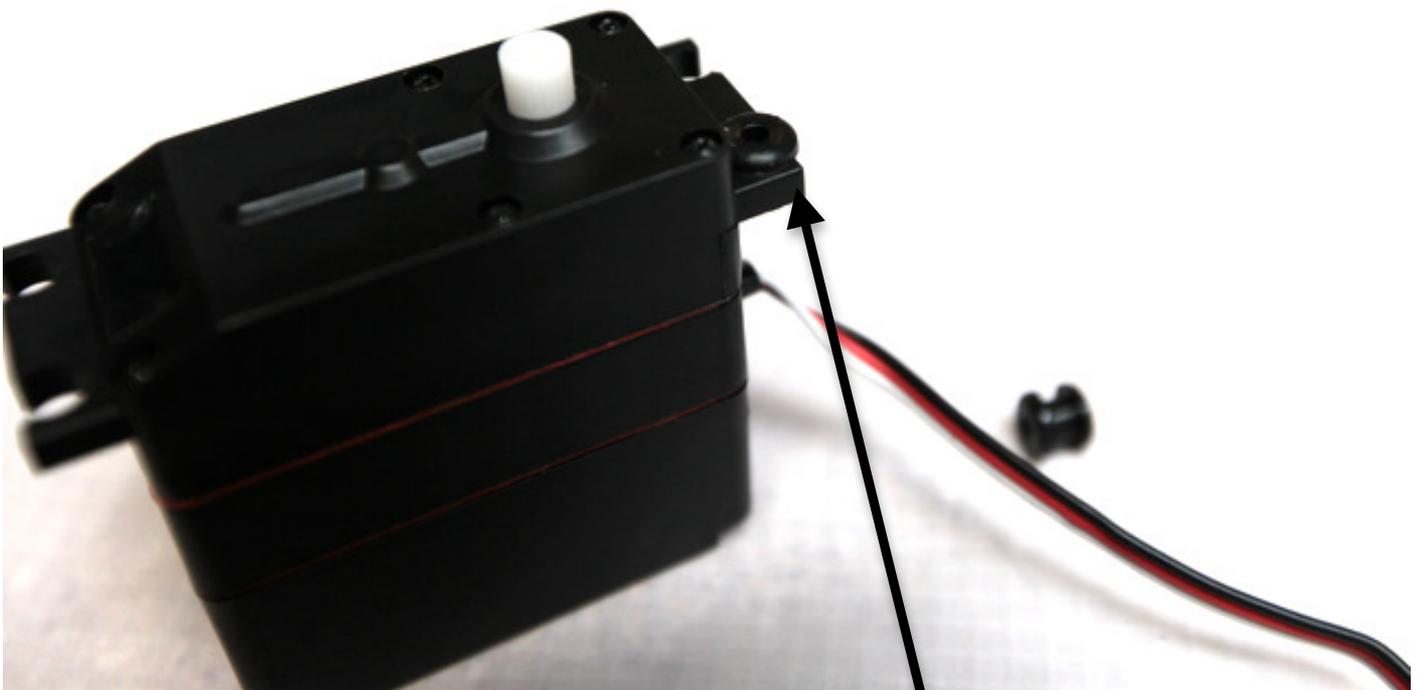


Use a sharp tool to mark where you are going to drill according to the crosspiece geometrical structure. Then drill through the locking plate using a drill.

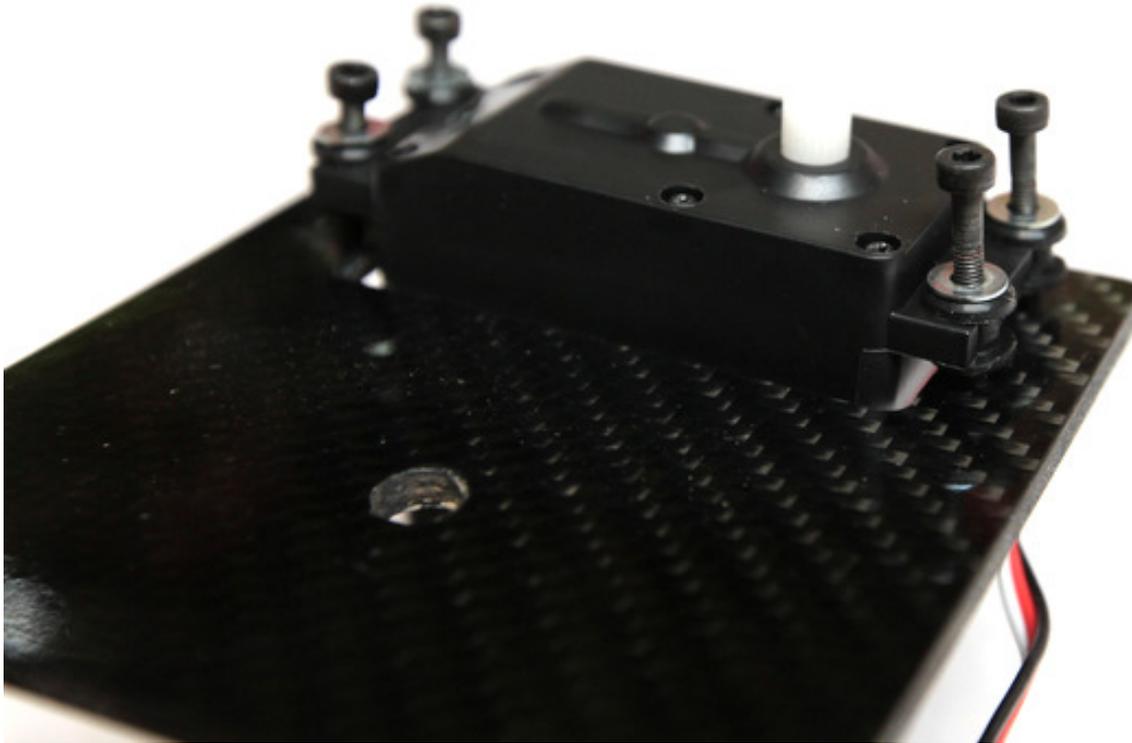


You can now insert the screws to hold your motor. Then place the chocks (not included with your Trike L kit).

- Servomotors mounting



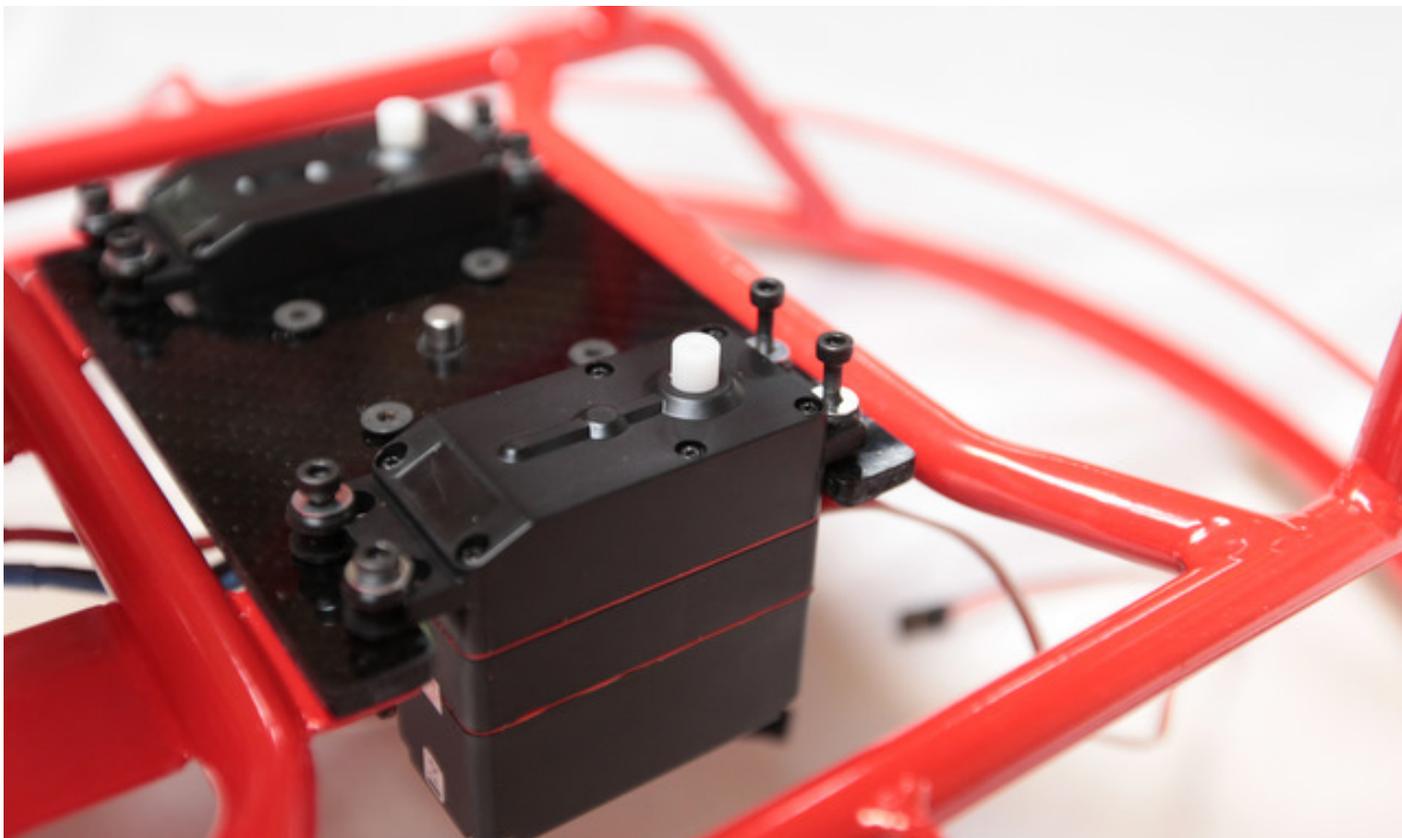
Put the 4 rubber eyelets  
in place



Insert the 4 HSHC screws and their washers. Put the servomotor on the locking plate. Do the exact same thing for the 2nd servomotor.



The 2 servomotors and the main motor are now installed, you can now secure them to the chassis.



Screw the 8 nuts to hold the locking plate in position.  
Then you just have to put the propeller onto the motor. Please mind the way you are placing the propeller, the motor should propel the entire system (propulsion).

- **Plastic arms mounting**

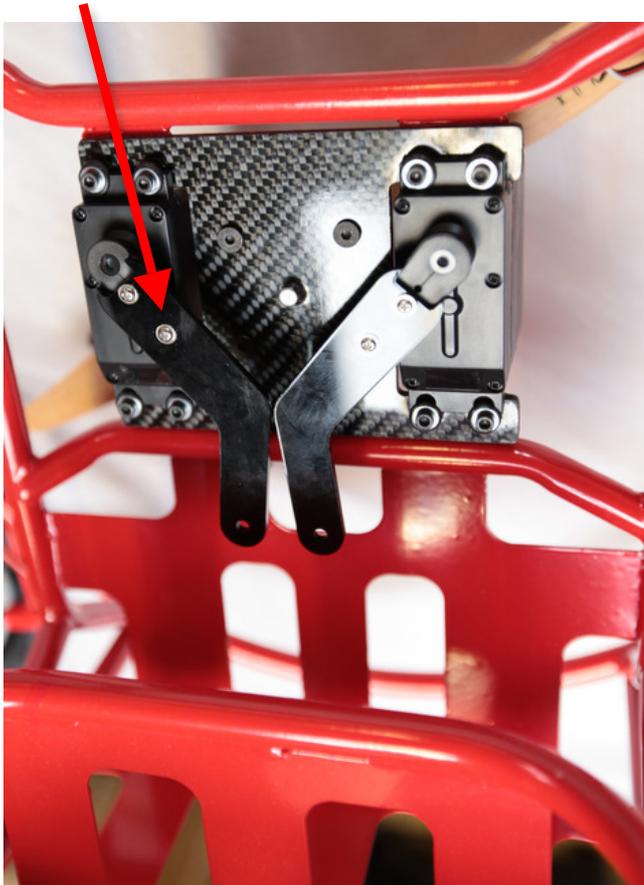
Use the screws that come inside the servomotor plastic bag.

Put the plastic arm at the very end of the servomotor arm.

Mind turning the second arm the other way when assembling the 2<sup>nd</sup> arm (the system should be symmetrical)



Cut the screw parts that are staying free on the other side of the plastic arms.



You can now put the arms onto the servomotors.

Turn the servomotors to the stop (till they are blocked). When they are in the position such as shown on the left picture **you shouldn't manage** to turn them anymore to the inside (to the right for the left servomotor and to the left for the right servomotor).

Then plug you radio receiver and turn you radio transmitter on. Use the delta mixing mode of you radio transmitter and program it properly according to your own setting preferences.

When you are pushing the elevator stick up to the top the arms should be just under the top tube of the chassis with the numerous holes to fasten the shackle and the risers (illustrated next page). When the elevator stick is released, the arms should be resting horizontally.

**Do not forget to put the screws to secure the arms to the servomotors. Skipping this step may result in a major loss of control of the model during the flight.**

- **Installing the shackles to fasten the wing risers**



The trike features numerous holes to adjust the way you can fasten the wing risers. How do we define what hole has to be used?

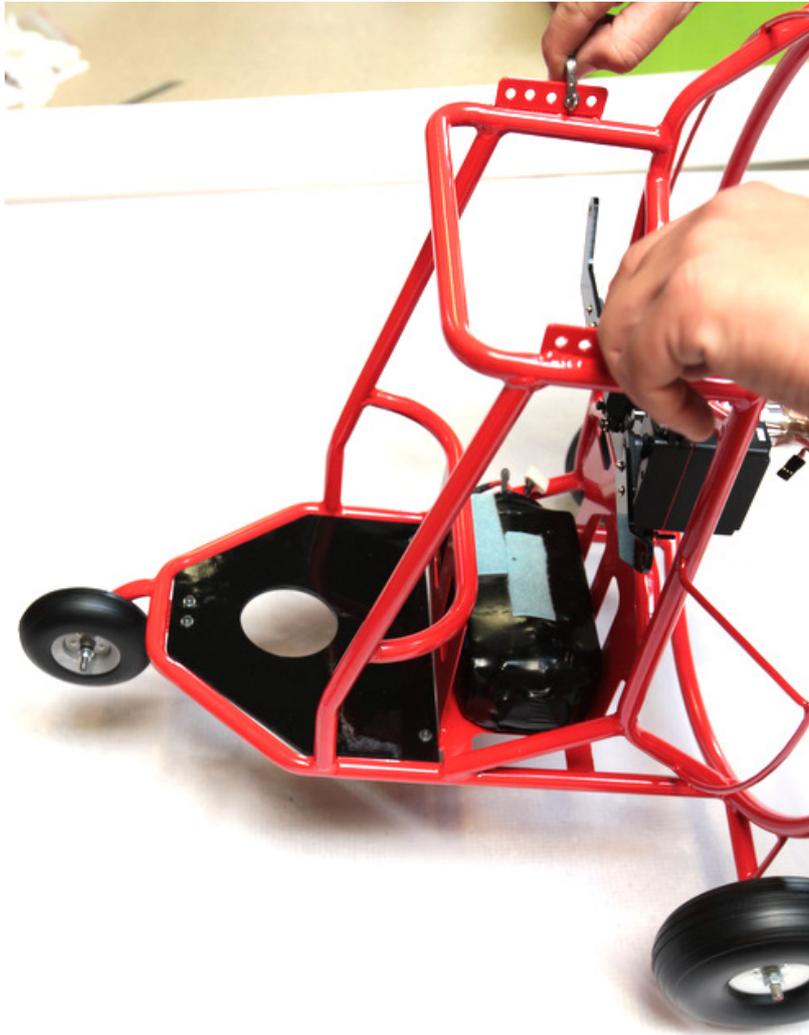
- **The major role of the center of gravity when the trike is weight loaded:**

Fasten the shackle to the center hole once your trike is fully equipped (electronic, battery, servomotors...). Hold the trike in the air by the shackles on both sides. Your setting is correct when the front wheel is about a few centimeters higher than the rear ones. Doing so will enable the trike to be really steady and stabilized when taking off and landing. It is also important to note it will ensure a thrust perpendicular to the wing width projected axis. In other words, your trike will gain height!

If the front wheel is lower than the rear ones, you need to move the shackles forward.

If the front wheel is more than 5 cms higher than the rear ones, you then need to move the shackles backwards.





The battery has to be placed the way shown on the picture above thus positioning the center of gravity properly. Doing so will enable you to bring up to 3 kgs onboard using the front side of your trike.

You will find all the information you may need about piloting your paramotor in your wing manual user and, of course, in the numerous videos available on our website.

Should you have more questions, feel free to visit our FAQ section on our website or to contact us at: [contact@opale-paramodels.com](mailto:contact@opale-paramodels.com)

Enjoy your flights!