

Trike XL



Thanks for reading this manual before first use.

Thanks for having chosen an Opale-Paramodels product. We truly believe this remote-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 in flight and to ensure you will take good care of it. A good knowledge of your equipment will allow you to safely obtain most of its performances for your greatest pleasure! Thanks for giving this manual to the new owner in case you decided to sell your 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.

Contents

Trike Composition	3
Specifications	3
Assembly	4
Servos dans Brakes settings	6
Mounting of the pilot Tom (optional)	11
FAQ Questions/Answers	14

Warranty

The Trike XL is guaranteed against any manufacturing defect.

If, while using, the pilot cut or damage a bridle, tear any part of the wing, repair and replacement of damaged parts are not taken in account by the warranty and the user will be charged for it.

A collection of parts for a radio-controlled car, including a chassis, suspension arms, wheels, tires, and a motor. The parts are laid out on a white background. The chassis is a black metal frame with a central motor mount and four mounting points for the suspension arms. The suspension arms are made of metal and have a curved shape. The wheels are made of metal and have a five-spoke design. The tires are black and have a tread pattern. The motor is a small black unit with a red and white label. There are also various small components like screws, washers, and a battery pack.

Opale
paramodels

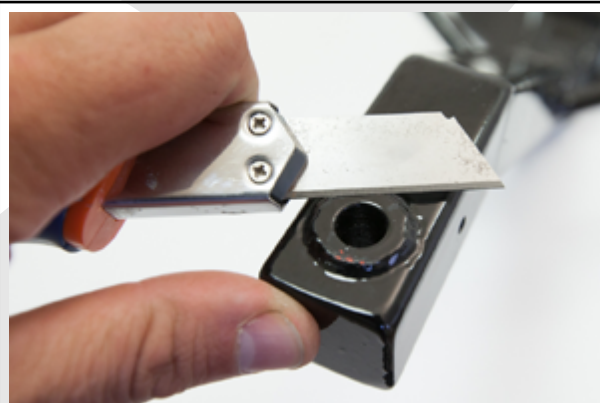
Opale Aero System SARL - 23 rue de la Motte
62250 MARQUISE - France
contact@opale-paramodels.com +33(0)981 144 387

Assembly

Battery holder installation on the central girder. Use 4xCHC M4-50 + 4xM4 nut-lockings.



By the mean of a cutter, remove the painting that is in the surface of the trike.



Position the front fork. This one must accomodate without any difficulty. If not, remove by mean of a cutter the painting that is at the other extremity of the passage of the axis.

Then, use a H M10-50 screw with ring and nut-locking.



Then mount the two rear wheels by mean of H M12-60 screws.



Mount the front wheel with the help of the axis and the spacers included.



Fix the 2 servomotors on the platinum by mean of 8xCHC M3-12 with nut-lockings and silent-blocks.



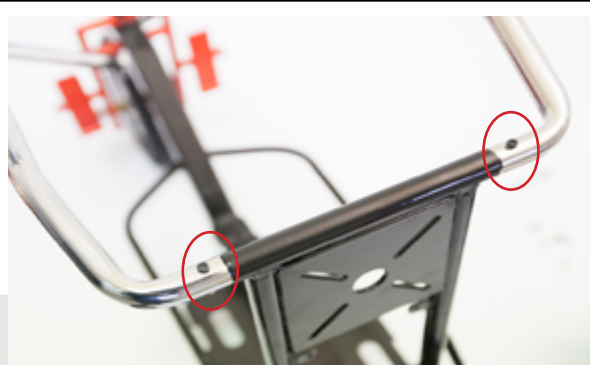
Install the top part with the help of 2x Hexagonal Head screws M4-12 and nut-lockings. Please do not tighten the set.



Slide the axis in the top part.



Position the two side bars on the axis and fix them by mean of 2x CHC M3-20 and nut-lockings.



Fix the front part of the two side bars by mean of a CHC M4-40 and a nut-locking.



Tighten firmly the two screws located at the bottom of the holder.

Trike basis is 80% ready.



Install the platinum with the servomotors on the vertical holder by mean of 4x CHC M3-12 and 4x nut-lockings.



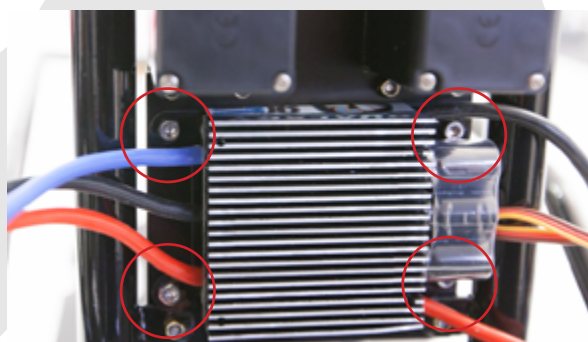
Mount the strap containing inox ring by mean of a CHC M3-10, a ring and a nut-locking. Then, fix the arm on the rudder bar of the servomotor by mean of 2x CHC M3-8 .



Power the two servomotors and position them into neutral position (signal 0). Then install the two rudder bars and put them horizontal. Lock them with the screw provided with the servomotors.



Arm yourself with the speed controller. Install it by mean 4x CHC M3-10 and nut-lockings. Drillings are made for a Dualsky controller XC90/100 HV. According to your controller, you may have to perform another drillings.



Prepare 4x CHC M4-40 screws with rings, nut-lockings and 2 spacers. It will be used to fix the prop-ring and the motor.



Connect the motor to the controller.



Position the inox buckles on the side bars. Inox buckles position is determined according to the position of the center of gravity. If while maintaining the backpack with the inox buckles, rear wheels are higher than front wheel, you will have to move forward the inox buckles. If front wheel is 10cm higher than rear wheels, you will have to move the inox buckles backwards. Having the front wheel 5cm higher than the rear wheels is the ideal position.

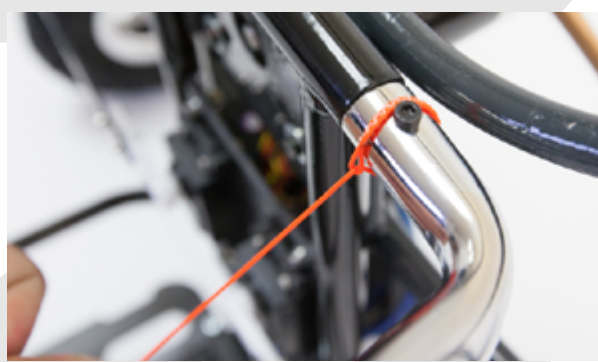


Servos and brakes settings

Use the two brake bridle. Pass the first before the fixation screw of the side bar, as indicated on the picture, by performing a head of lark.



Tighten the set firmly.



The brake bridle must slide in the ring fixed at the extremity of the arm.
Thanks to this type of mounting, the clearance of brakes is multiplied by two.
Perform the same operation on the other servomotor.

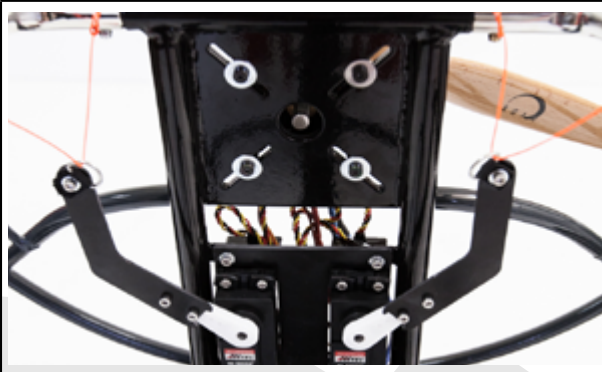


This bridle must be connected directly on the brake bridle of the wing. Once the connection done, cut the surplus of the bridle.

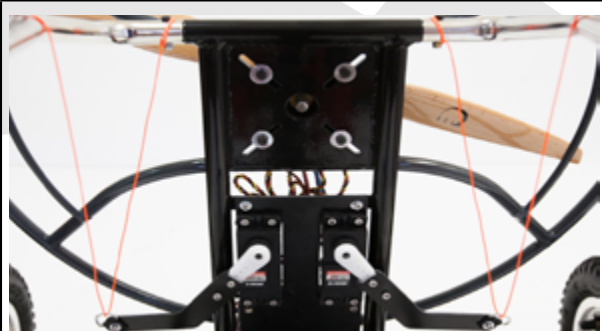


Here is the position of the servomotor with 0 signal (in that case, the remote controller does not include a mixer).

If using the mixer for RC paramodels (ref OP16782), the rudder bars must be in high position while the depth stick is in neutral position.



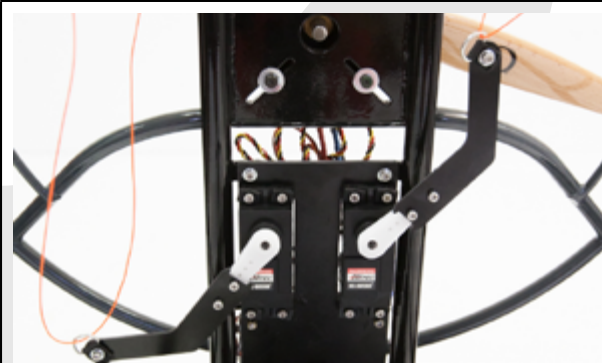
Depth stick directed to the bottom, the two arms completely go down.



Aileron stick to the left, left servomotor go down in maximal low position.



Aileron stick to the right, right servomotor goes down in maximal low position.



Important notice::
Using high-torque servomotors need a separate power supply. On this trike, we recommend an external regulator with 8A with a 2S 2000 mAh battery minimum.

The battery slot is able to welcome 2x 6S 5000 mAh LiPo batteries. Don't hesitate to use adhesive velcro and a strap to ensure their fixation.



Mounting of the pilot Tom (optional)

This kit ,allowing to install the pilot Tom on the Trike XL, contents:

- 1 x plate
- 4 x elastics
- 4 x plastic clamps
- 1 x hardware kit



Remove the lower pocket of the harness.



Insert the plate into the pocket dedicated to that purpose underneath the harness. Push it as far as possible up to the bottom.



Place the plate on the frame.
With 2 plastic clamps, fix the first side of the plate.
Tighten it firmly.

Do the same operation on the opposite side.



Place the pilot's feet on the rudders of the front fork.
Hold them with an elastic as shown on the picture.



Remove the screw on the shroud and replace it with
a M3-25 included with this kit.



Then place a M3 nut, a M3 washer and a 2nd M3 nut
to lock the whole thing.



Insert an elastic inside the strap dedicated to that purpose. Make a loop as shown on the picture.

Do the same on the opposite side.



Fixe the elastic by making a full rotation around the shroud.
Pass the elastic loop below the washer to secure it in position.



Do the same operation on the opposite side.



Your pilot Tom is now ready to surf the clouds.
Think to check the arms adjustment in order to avoid the collision between the arms and the shrouds.

The brakes of the wing can be connected to the pilot or kept on the Trike XL servos.
In the case where the brake lines are used with the pilot, it is possible to remove the servos on the Trike.



F.A.Q. Questions / Answers

My RC paramotor seems not to move forward very fast. How to remedy this problem?

If your model advance a little bit, or if it even stays on-the-spot, it is because your model is too light. In that case, you have to land and increase the weight with additional ballast or batteries until you obtain a 5 to 10 km/h with regard to the ground.

How do I know if the brakes bridle are adjusted correctly?

Brakes bridle are perfectly adjusted when the trailing edge is completely loose while flying, with the depth stick pushed up. Also, as soon as you push laterally of some millimeters the aileron stick, the trailing edge must begin to fold immediately. Otherwise, you must shorten centimeter by centimeter until you obtain an immediate control. It is a matter of the RC paramotor stability. The "Two inflating" method let perform a correct adjustment in 80% of cases. Think of it!

How do I know if the wing is correctly connected to the backpack?

When holding the model by the backpack/pilot, wing downwards, none of the bridle must cross, or turn around another bridle. Otherwise, you will have to untangle your wing. Before first flight, check the tightening of your inox buckles.

In what sense is it necessary to mount the propeller?

To obtain a maximal thrust, the propeller leading edge must be directed forward the backpack. It is easy to recognize the leading edge, because it is the bulged portion and non cutting side of the propeller. The trailing edge must be directed backwards. It is the cutting part of the propeller.

Generally, propellers have a logo or a marking. It is most of the time put on the leading edge.

How to inflate correctly his RC paramotor wing?

To inflate correctly his wing, it is essential to face it to the wind, at a sufficient distance from any obstacle. (generally 300m). Maintain your backpack at the basis and give a dry horizontal pulse while accompanying the rise of the wing. Throw smoothly the backpack straight away with a 50% engine speed.

I broke a bridle. How can I replace it?

The bridle can be replaced easily by following the splice method described in this manual.

My wife is fed up with looking at me sleeping with my RC paraglider. What can I do?

This is a very complicated situation at first sight. Nevertheless, two solutions can solve this problem. At first, you can lend her your credit card during sales period, or, in a second time, ask her for a friendly divorce. (But prefer the first solution, your RC paraglider's custody is in the game!).

There is a hole in my wing. How can I fix it?

A hole can be fixed in a few minutes thanks to the adhesive tissue provided with your wing. Follow the instructions described in this manual at the previous chapter.

Why my wing doesn't inflate, even when facing to wind?

If the wing doesn't inflate even when facing to the wind, the brakes bridle adjustment is too short. In that case, extend them centimeter by centimeter then perform again the "two inflating" method, to ensure the control at first take off.

Is it possible to replace the risers ?

A riser can be replaced easily. Contact your Opale Paramodels dealer to obtain the correct reference.

F.A.Q. Questions / Réponses

Is it possible for the RC paramotor wing to take away some material for shooting/FPV? Until which mass?

Each wing has a maximal takeaway capacity. Check the model total weight and compare it with the wing's takeaway capacity. You will obtain the payload value, compatible or not with your equipment. Be careful, if you make your paramotor strongly heavy, think of a more powerful motorization, by keeping a 150 W motor ratio / Kg of complete model.

Can I fly anywhere with my wing? Is it a danger for the goods and the people?

You can't fly anywhere with your wing. To practice aeromodelling, you must own a third-party insurance and practice on a ground with the owner's agreement. Ideally, contact your aeromodelling federation. It is forbidden to fly in an urban zone and close to the houses. This type of model is not light, it can cause heavy physical and material damages. Use it carefully and without going above your limits.

Until which height can I fly the wing?

In order to not disturb aerial traffic, maximum authorized height is about 150m from the ground. Contact your federation and the organism of aerial traffic management of your country to have reliable information about it.

Is it possible for my hamster to fly my RC paramotor? Which precautions to take?

Check if your hamster is solidly attached to the backpack. The wear of a helmet and flysuit is advised. If you perform several 360° and wingovers, think of install under the batteries, a little plastig bag near its paws with few menthol candies.

Can I do another use of the paramotor wing?

This wing can be used for slope soaring without backpack. In that case, you will have to attach a pilot as real paraglider discipline.

Is it possible that the wing deflates while flying? Which behavior to adopt in that case?

If your wing deflates while flying and begin to reverse, it is because you have too much requested the brakes. To remedy this phenomenon, slacken gradually the radio sticks and think of cutting the throttle.

Is it important to untangle correctly the bridle before flying? How can I do? I am lost with all those strings!

It is essential to untangle well the bridle. If not, you can strongly distort the flight characteristics of the wing. To untangle all the bridle fastly, drop the wing out of the backpack. Hold the riser by the endpoint and seize one by one the bridle around the principal bridle package. Always take first the most distant bridle.

My wing is caught in a thermal and gets altitude. What can I do to regain control?

This scenario is usual when convection conditions are present. In that case, no panic. Relax and maintain a trajectory as rectilinear as possible to fastly go out of the thermal.

How can I maintain and clean my wing?

If you made your wing dirty, you can clean it with a wet cloth. You can rinse it with clear water as well. Never use chemical products! The tissue could be hardly damaged. Think of tidy your wing in a dry place, shielded from UV and humidity.