

The “Quickie” Prop Hub

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Introduction

Thank you for purchasing the Iris Paramotor “Quickie” Propeller Hub. Before installing the product, please take the time to read this manual carefully. The purpose of the manual is to provide users with the information they need to use our product safely.

Please keep in mind that we are a company that strives to improve our products on a regular basis. This means that our products can change and evolve over time, sometimes without notice. Some information, diagrams and photos in this manual may become outdated. Usually, any time a major revision of a product occurs we will take the time to update this manual, but you may find an old version of the manual on other websites and although much of the information should apply to your exact product, please take care to check for a new revision on our website. If the latest version has any issues, we welcome and appreciate your input to fix the information ASAP.

Safety Warnings



Warning! You are installing an unapproved accessory on your engine that secures the propeller.

Improper use or installation can cause serious injury or death.

This product may void warranty.

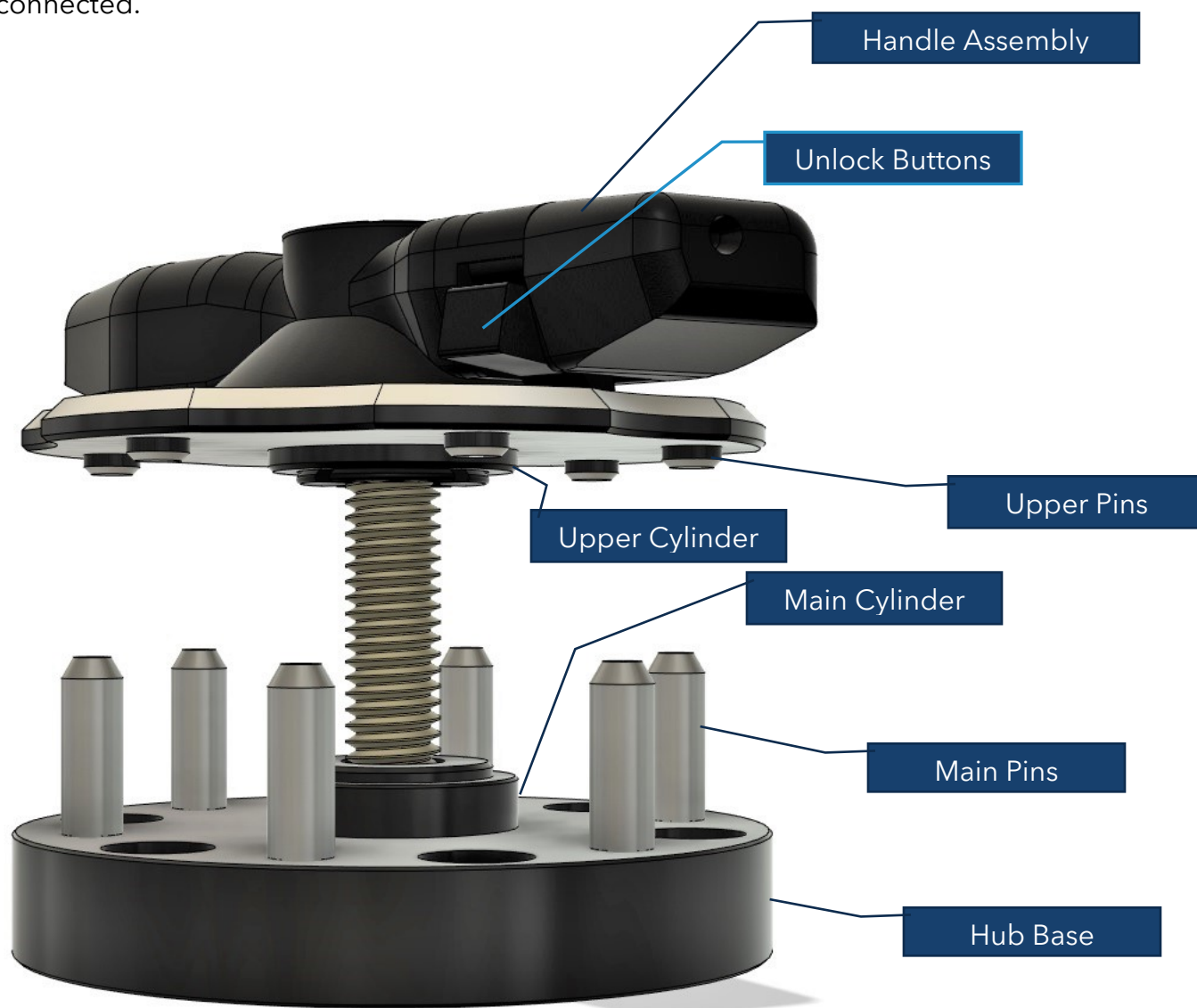


- **Always tighten the Quickie Handle as tight as possible.**
The Quickie relies on high clamping pressure to operate safely.
- **Smaller or less physically able pilots should take extra care.**
The Quickie must be tightened very tightly to safely secure the propeller. If you are a smaller pilot or have physical limitations or disabilities, you may not be able to tighten the Quickie enough. We have a special tool available to assist in installation/removal of the Quickie.
- **Regularly check that the Quickie is still tightened adequately.**
Parts on the Quickie as well as propeller halves can settle and wear with time. It is important to verify that the Quickie is adequately tightened before every flight.
- **Regularly inspect the whole assembly** for unusual wear or damage.
Perform a thorough pre-flight check and replace any worn parts immediately.
- **You must use a propeller that is approved by your engine manufacturer.**
Unapproved propellers are not supported by our products.
- **The propeller must be balanced and without damage.**
Running an out of balance propeller can cause damage to your engine.
- **Do not modify this product in any way.**
Any modification can lead to improper function or imbalance which can result in engine damage, or the propeller being unlocked in flight.
- **Never run the motor without the propeller attached to the hub.**
It is usually safe to idle the engine at idle RPM without a propeller, however, it is possible for the engine to run away under certain conditions which can cause very fast overheating and catastrophic damage to the engine.

Iris Paramotor does not hold responsibility for any damages caused to your equipment or person from misuse of our product. Because no design, certification or testing standards exist for any products manufactured for Ultralight Vehicles operating under FAR103 in the United States, all our products are to be strictly considered experimental and safe flying practices should be used at all times.

Part Diagram

Below is the parts diagram. Please note that some items are replaced as assemblies (for example, the Cam Lock comes with that T-nut and the readed portion connected).



Handle Assembly: the upper handle assembly is used to lock and unlock the Quickie and includes the handle, ratchet mechanism, metal support plate and the main center screw.

Hub Base: supports the main lower pins and attaches to the upper reduction pulley. There is a threaded insert in the center to allow low wear on the main screw.

Upper/Main Pins and Cylinders: these features protrude inside the propeller core to keep it captively secured by the mechanism.

Installation Instructions

1. Remove your prop and any spacers and wipe down the upper reduction pulley with a rag. Clean off any residue with rubbing alcohol.



Warning, you do not need an additional prop spacer when using our hub for any standard propellers including Helix, however, **some manufacturers use an extra spacer to move the propeller further back** to add clearance between the frame and the prop and to prevent prop strikes. If your frame requires one, **you must use longer bolts that fully engage the threads in the upper reduction pulley**. Please note that this is not a supported configuration for our product, and we cannot guarantee proper operation and thus running in this configuration will void any warranty claims.

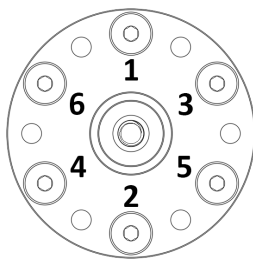


2. Remove the Handle/Plate assembly from the Quickie and place the main Hub (with pins) onto the upper reduction pulley lining up the bolt holes.
3. Insert the six supplied mounting bolts into the mounting holes and use the supplied hex key to hand tighten the bolts in a crisscross pattern.



- Using a torque wrench with a 5mm hex bit, tighten mounting bolts using a standard crisscross pattern to the following specifications:

6mm - **13 Nm (9.8 ft-lb)**



Using your Quickie

Please read this section carefully and watch our "How to use the Quickie" video.

The Quickie is not intuitive to use at first and requires a specific procedure to operate. Deviating from this procedure can cause frustration or even damage to the product. On clutched engines, you should **rotate the propeller** while **keeping the Quickie handle stationary** to tighten and loosen the product.

Tightening

- Make sure that your propeller halves are perfectly aligned and **press the propeller onto the pins** making sure it bottoms out on the face of the hub base. *Some propellers have tight tolerances or center holes that are not perfect. In this case, try sliding the halves back and forth to see if another position works better.*
- Place the handle/plate assembly into the center hole of the hub making sure it's aligned and start a couple of threads to make sure that it is not cross-threaded.
- Hold the Quickie** handle with your **right hand**.
- Rotate the propeller** anti-clockwise with your **left hand** for several full rotations. *Make sure that when the short pins on the plate reach the propeller's face that they automatically "pop" into the propeller's holes. If they do not, rotate the plate by hand to make sure the pins fall inside the propeller holes.*

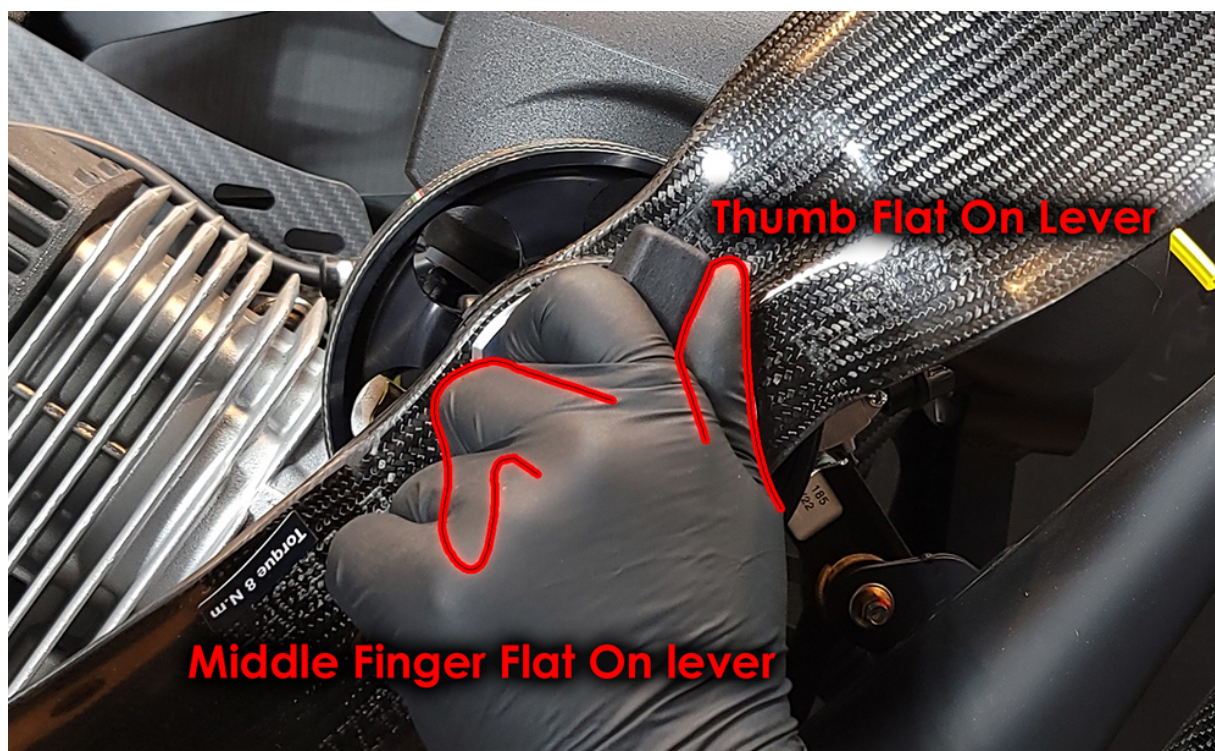


5. After the pins are lined up with the propeller holes, keep rotating the propeller until the metal plate bottoms out and you notice the ratchet's pitch change as the mechanism compresses the prop and gets tighter.
6. Do a final **hand tightening of the Quickie to get it as tight as you can** (while still being able to loosen it later). It is imperative that the mechanism is tightened as much as possible.

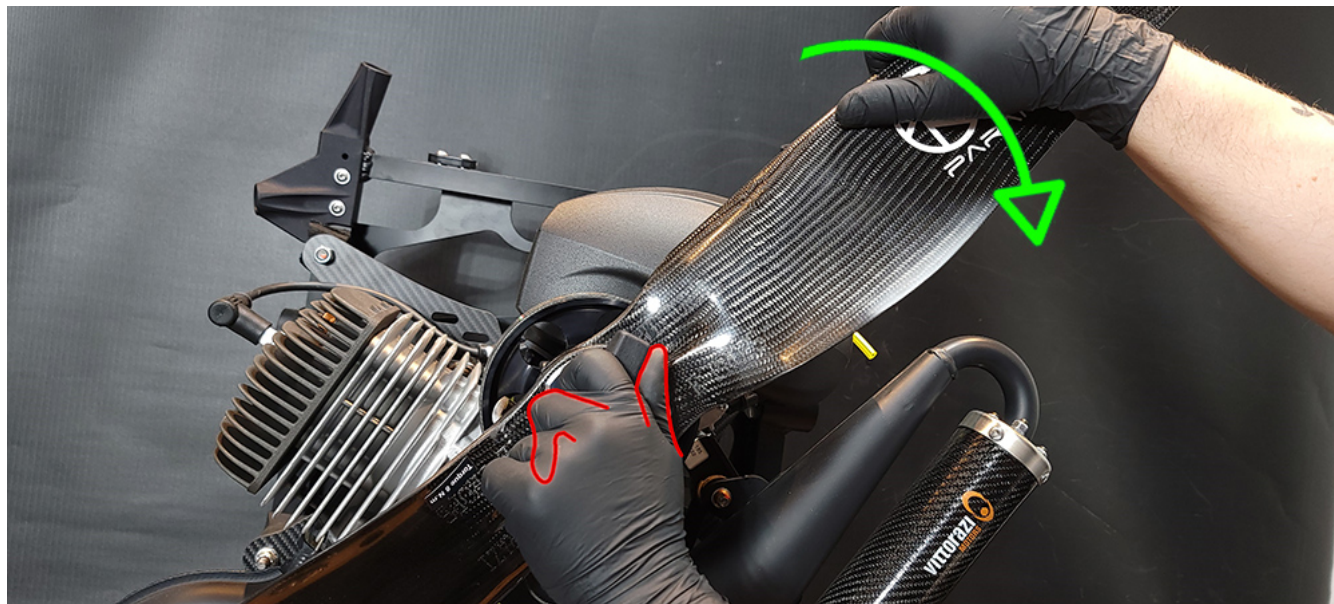
Loosening

1. Rotate the prop until the Quickie handle is close to the vertical position.
2. Grab the Quickie handles with your **left hand** to **hold the handle**:
 - a. Place your thumb flat on one of the handle halves.
 - b. Place either your middle (or index) fingers flat on the other handle half pointing toward the ground.
 - c. Make sure both fingers are spread as close to the end of the handle as possible.

Important note: in this position your hands will automatically press the buttons. You do not need to focus on the buttons, just naturally grab the handle and hold it.



3. **Hold the Quickie handle** in this position as you loosen the mechanism. Do not let go of the handle or rotate your hand.
4. **Rotate the propeller** clockwise with your **right hand** for several revolutions until the Quickie is fully off.



Maintenance

The Quickie should be regularly checked for wear and damages. Any damaged components should be replaced immediately.

The Quickie has a very thin coating of silicone grease between the handle and metal plate. This allows the mechanism to move with the least amount of resistance. You should apply a very small amount of silicone grease every 50-100 hours between the metal plate and handle. You can do this using the corner of a piece of paper coated with the grease.

Over time, the plastic ratchets will wear out and will need to be replaced. They should generally last for the duration of your engine but if your engine ends up in dusty/sandy environments they could wear down to the point of becoming difficult to use prematurely. Please replace the handle/metal plate assembly as needed.

Warranty Information

If you purchased this accessory from the Iris Paramotor website directly, you were asked to register at checkout. If you purchased any of our products new from a dealer or other online store, they are responsible to handle any warranty claims. We reserve a right to ask you to send us detailed photos of our product as well as any part of your engine or paramotor. Warranty for accessories is not transferrable.

Our Guarantee

We guarantee that all equipment we manufacture or assemble will be free of manufacturing defects or operational issues. All parts are manufactured in house and checked for correct operation. Shall any part experience unexpected failure or arrive with a defect, it is our responsibility to replace the defective component, free of charge within a period of **one year** so long as the following conditions are met:

- The item was purchased one year or less from the day the warranty claim was submitted.
- The item was used within all standard operational conditions and installation procedures outlined in this manual (especially not in violation of any items in the Safety Warning and Installation Instruction sections).
- The warranty claim is for non-cosmetic malfunctions only. Please see our return policy for more information on cosmetic defects or improperly fitting parts.

Limitations

The above warranty does not cover the following:

- Misuse of the Quickie or any other part of the engine.
- Normal wear of parts from usage.
- Physical damage caused by crashes or prop strikes.
- **Any alteration or modification.**
- Improper maintenance or neglect.
- Use of incorrect hardware.
- Use of unapproved spacer.

Contact

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