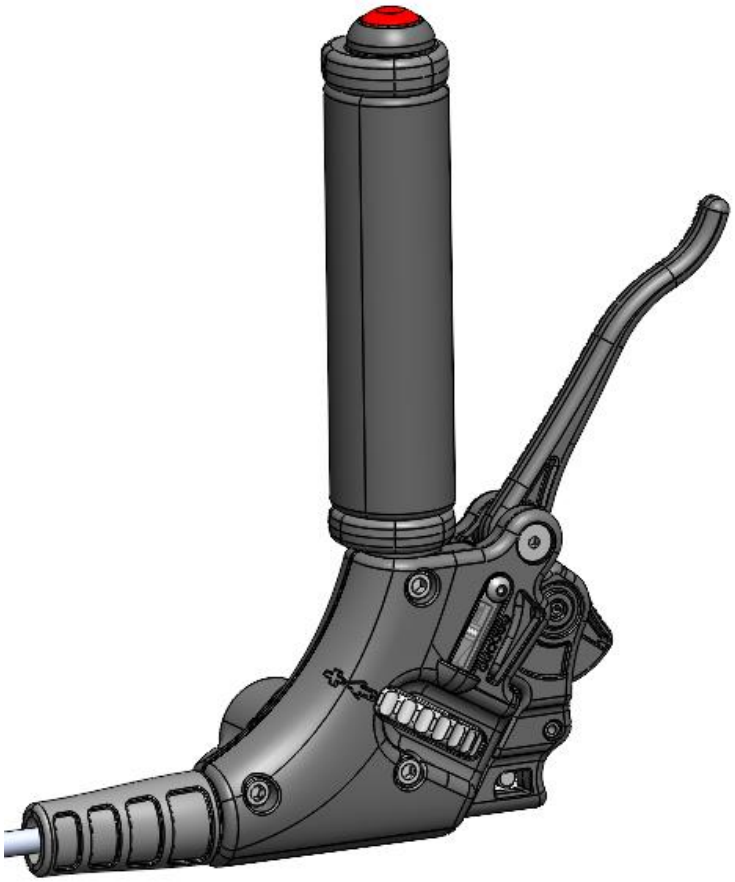
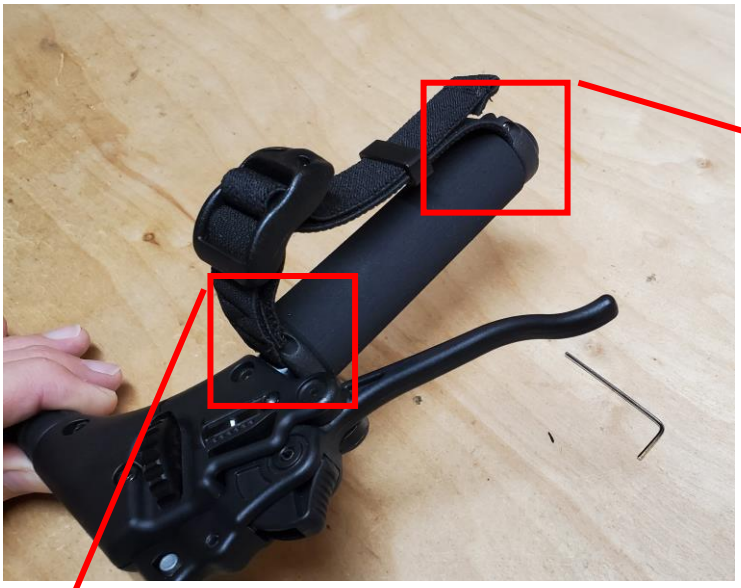
OFF-GRID
AVIATION

Throttle Instructions



Setting The Strap For Left or Right Hand

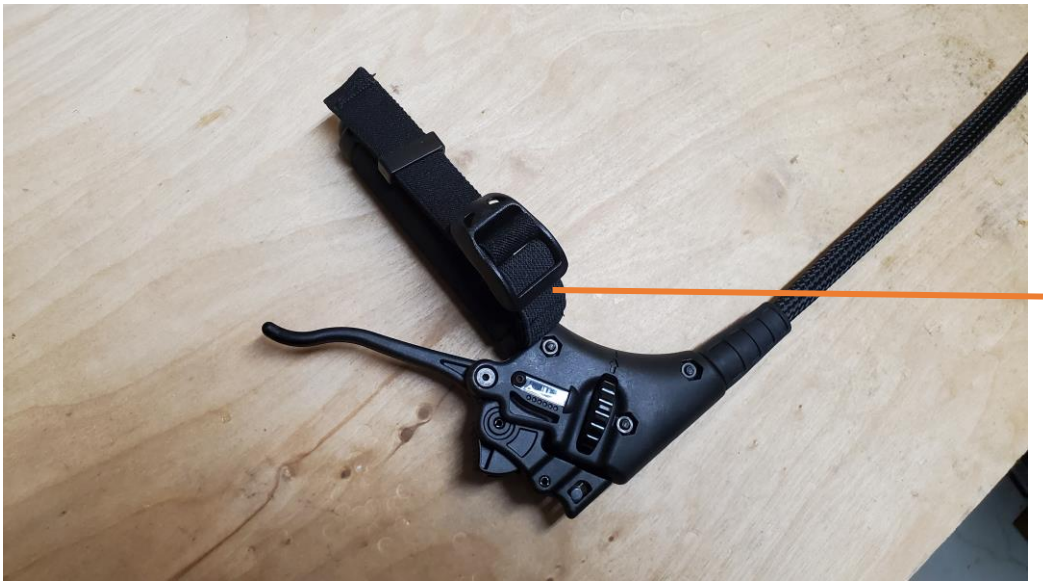
Out of the box, the grip screws will be loosely fitted to the handle to make it easy to setup for left or right handed use.



Use the included allen key to unscrew the top and bottom grip screws

Rotate the grip to the left or right side

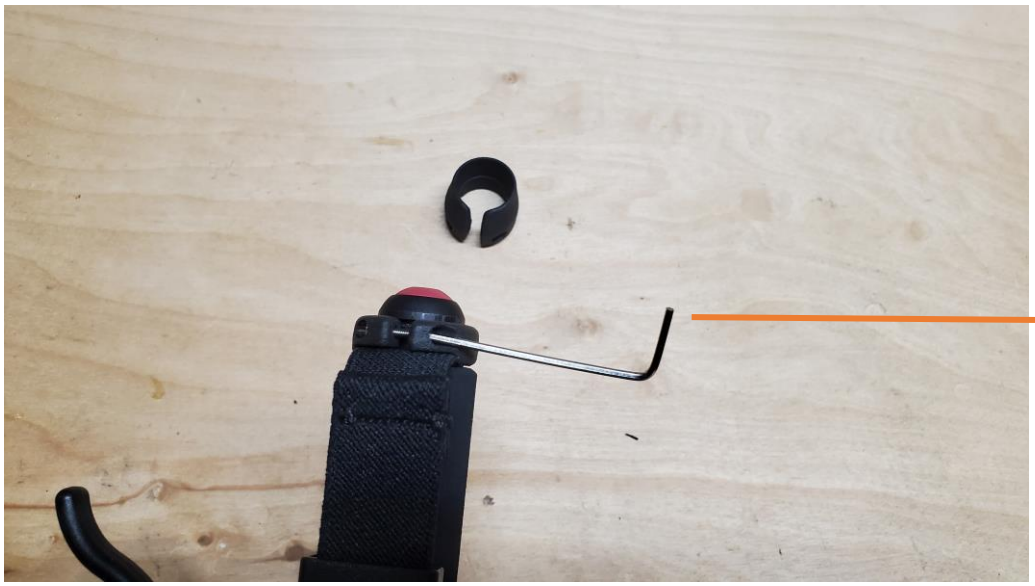
Tighten top and bottom grip screws



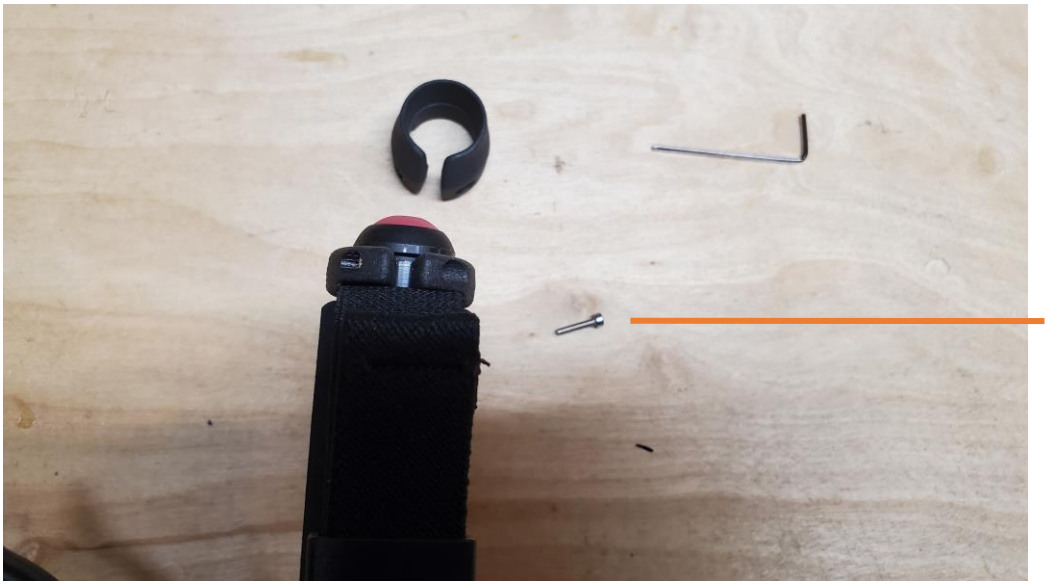
Grip is now setup

Adding the Guard Around the Kill Switch

The grip will come setup with a low-profile upper grip lock



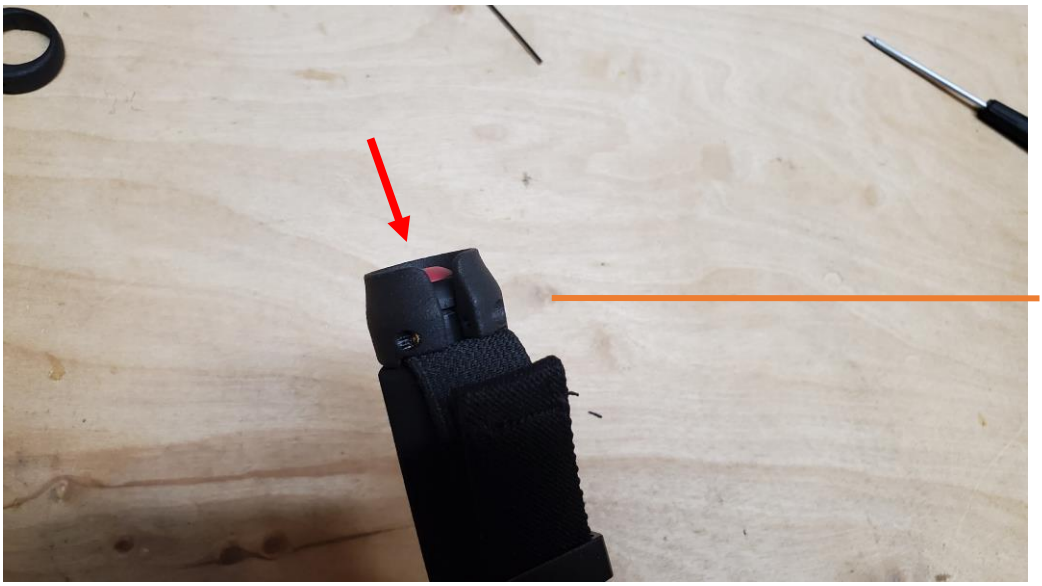
Use included allen key to remove screw from upper grip lock



Completely remove the screw from the upper grip lock

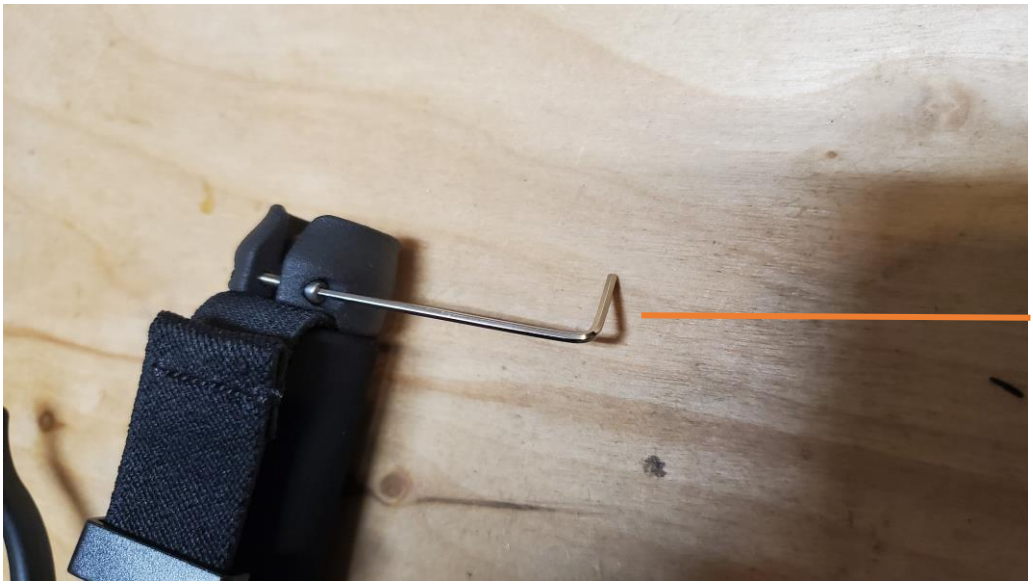
Remove the upper grip lock from throttle handle

Find the extended upper grip lock and place it over kill switch



Piece will snap in place over the kill switch

Use the included allen key and screw to tighten the extended upper grip lock in place

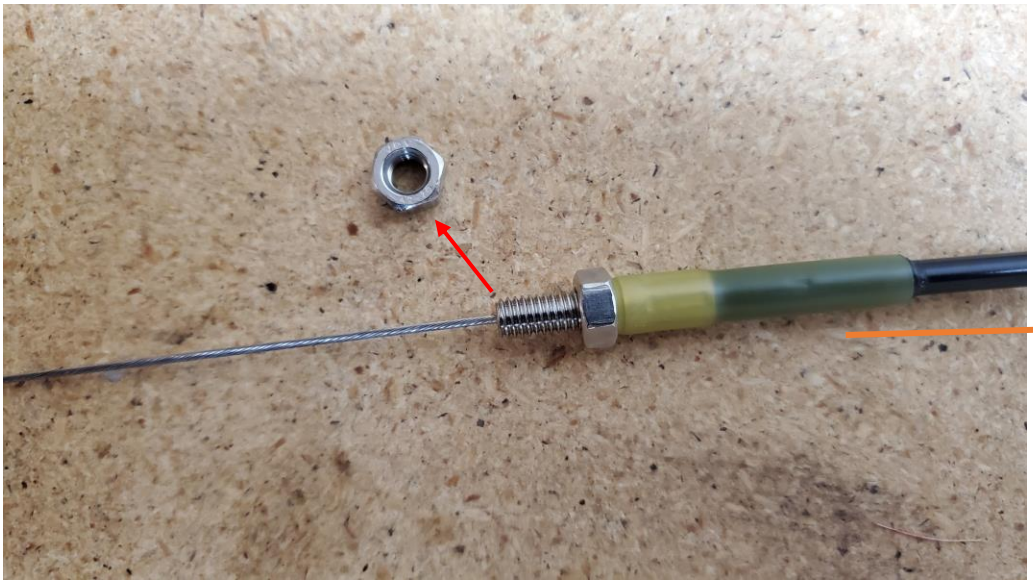


Tighten screw to lock the grip in place

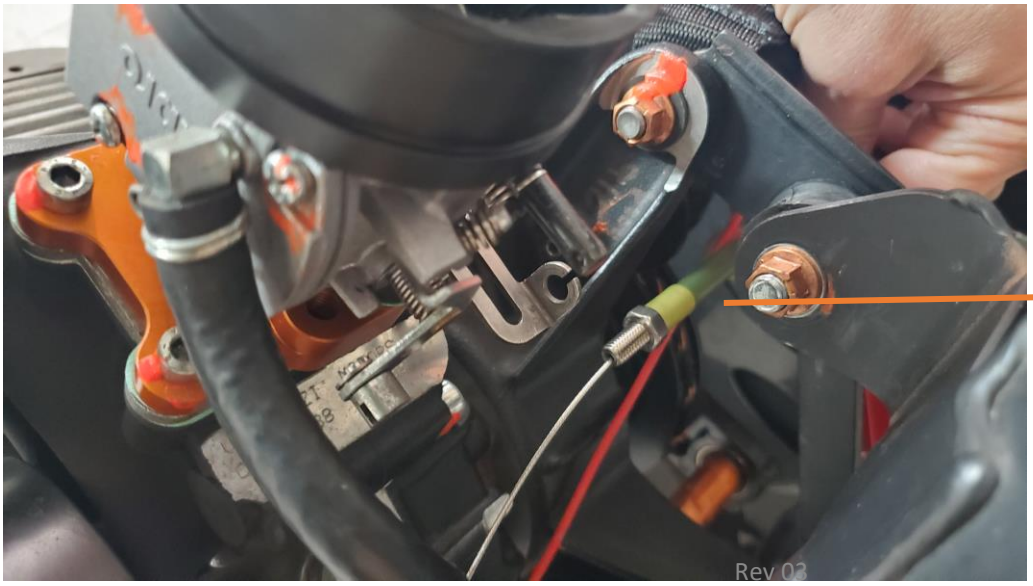
Kill Switch guard is now in place

Installing the Throttle to the Motor

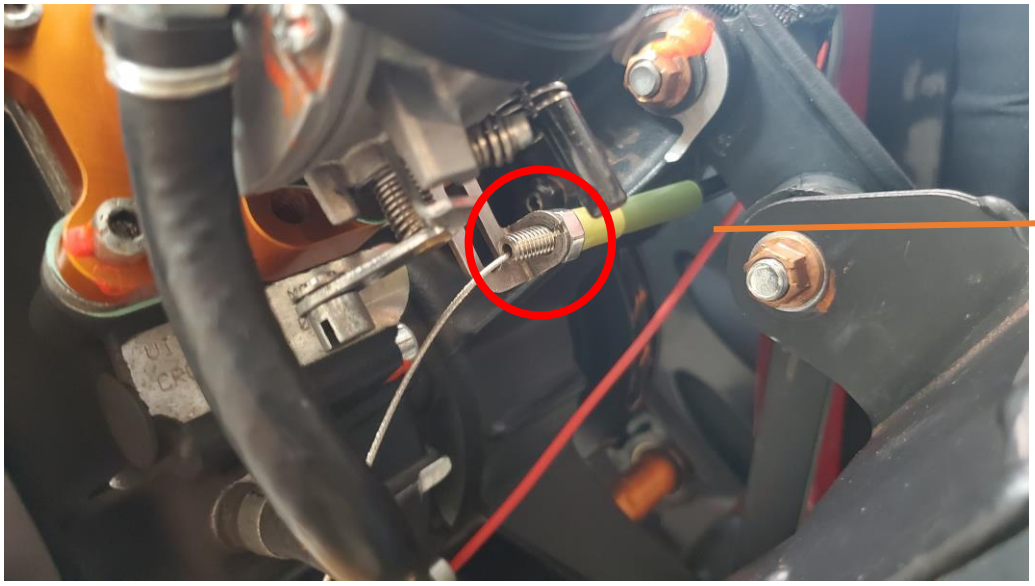
The far side of the cable housing, there will be two hex screws.



Remove one screw as shown.



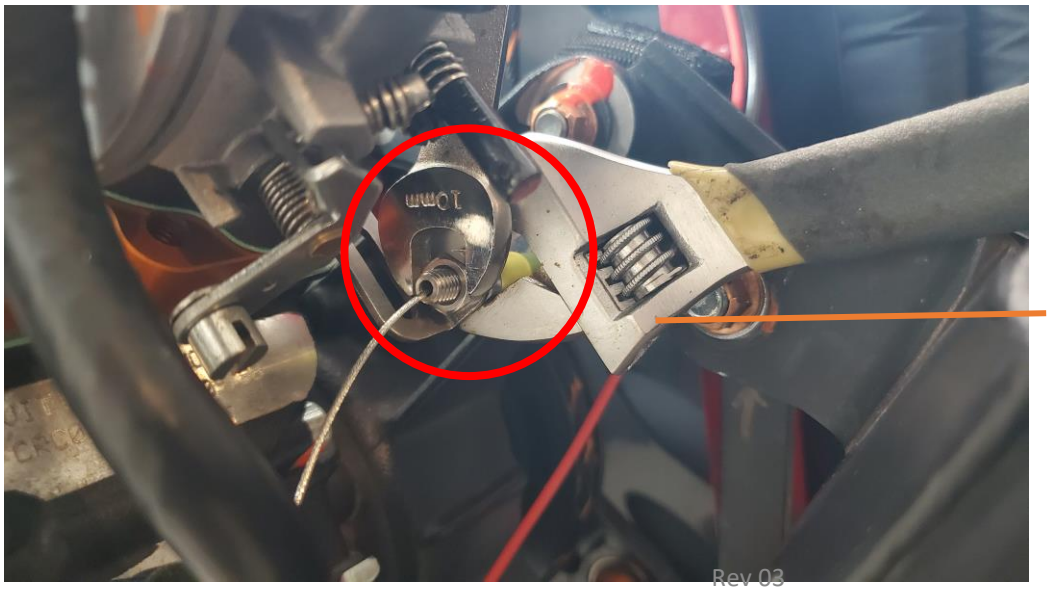
Feed cable through paramotor frame.



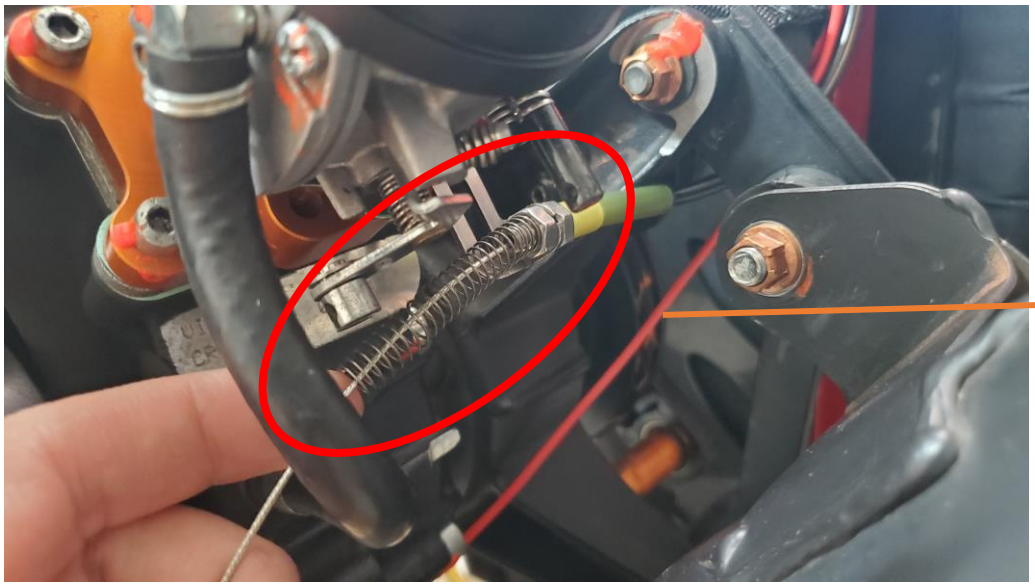
Slide barrel into position as shown.

Using adjustable or 10mm wrench, grab onto rear hex nut.

Thread the second hex nut over the barrel assembly

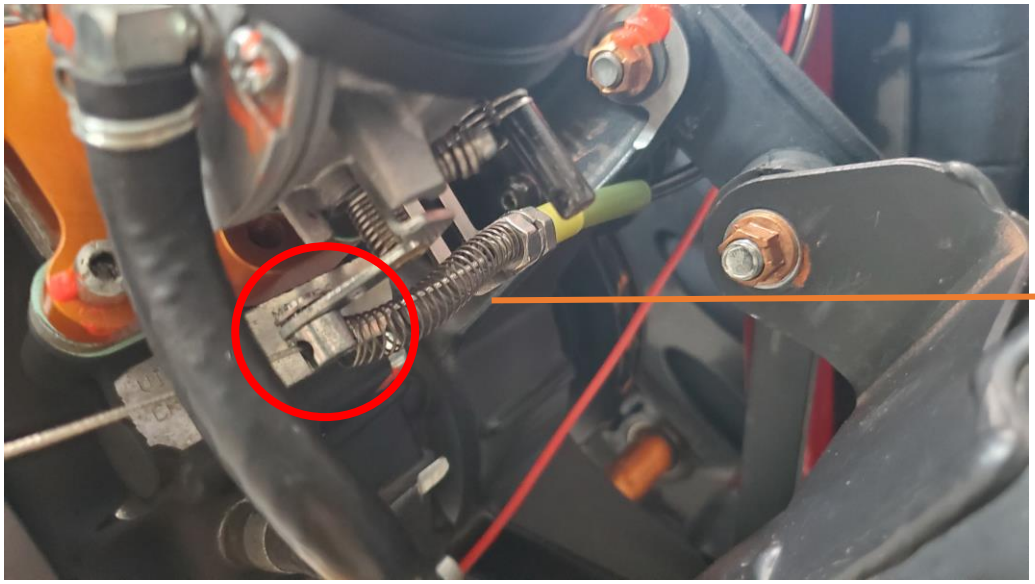


Use a second adjustable or 10mm wrench to lock down the two nuts over the barrel

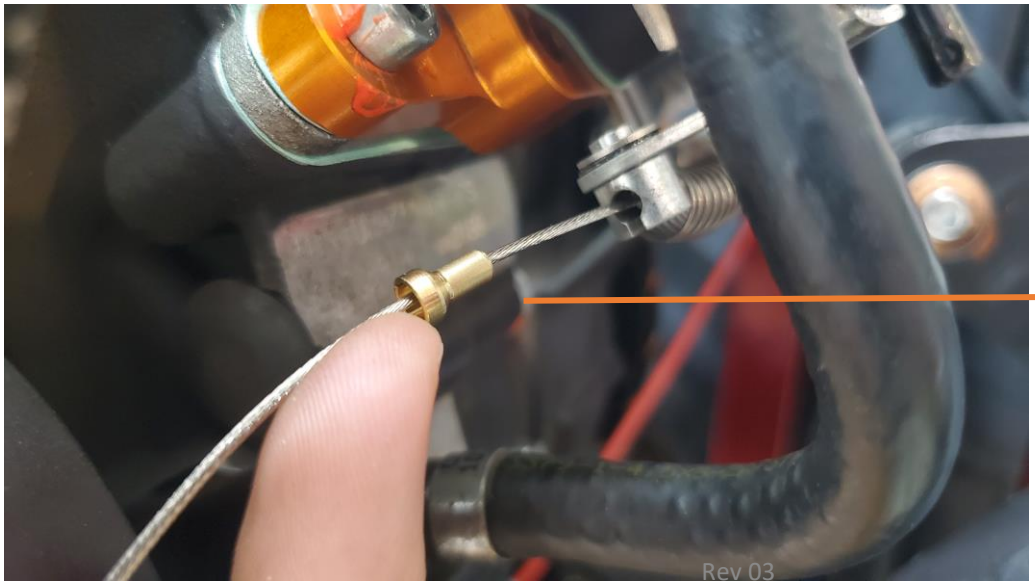


Slide the spring over the cable and push up against the barrel.

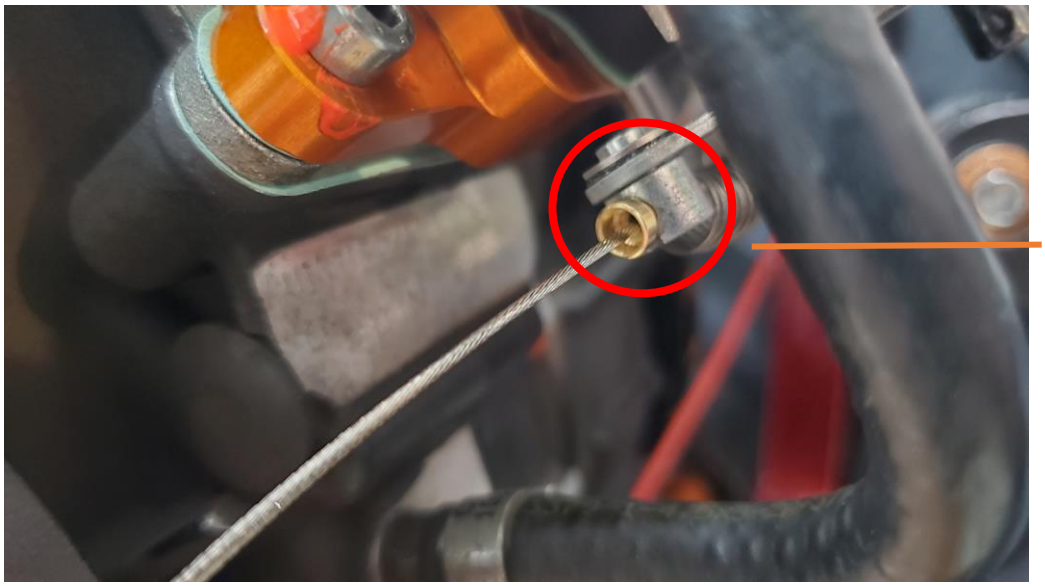
Note: this spring is not necessary for the throttle to function and can be omitted.



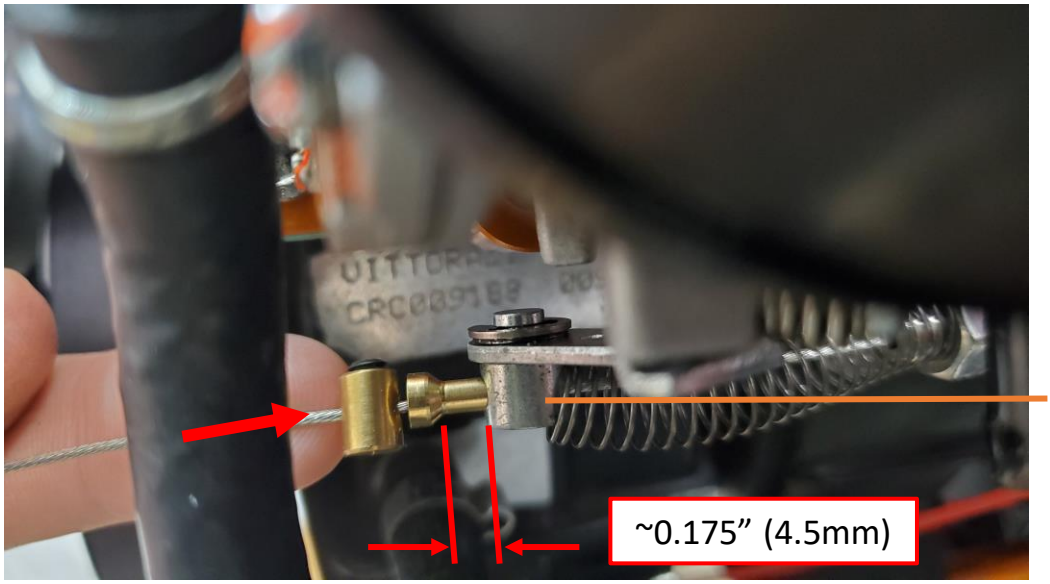
Place the cable through the slot as shown.



Slide the sleeve over the cable as shown.

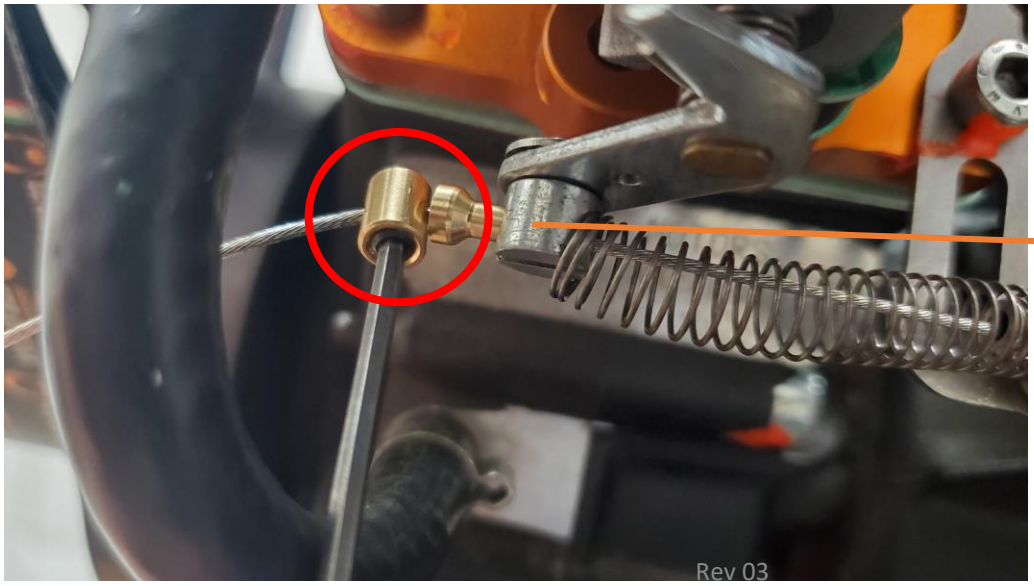


Push the sleeve into the hole as shown.



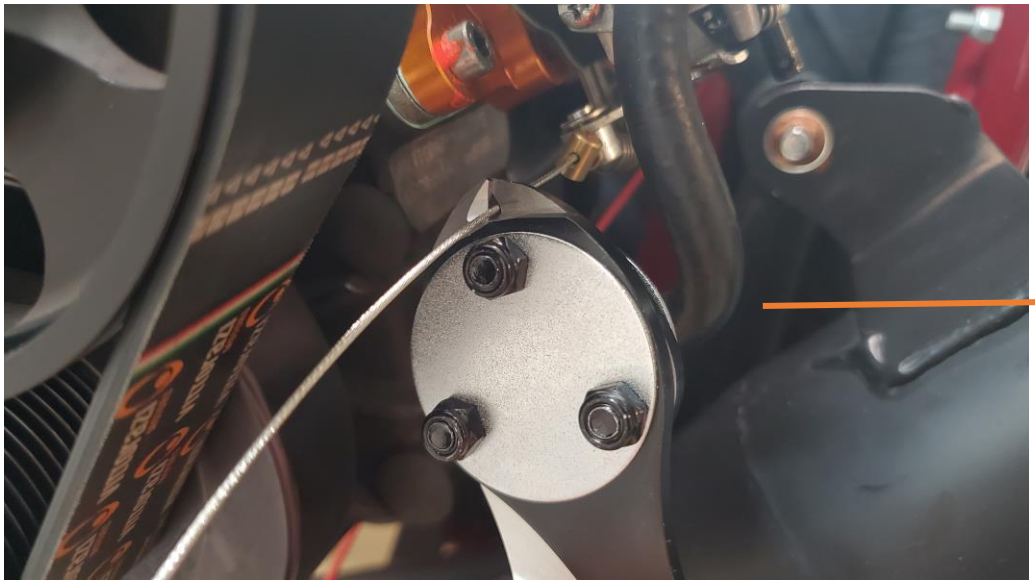
Slide the locking barrel over the cable and push against the sleeve.

The sleeve should be able to protrude about .175” (4.5mm) from the mount as shown.

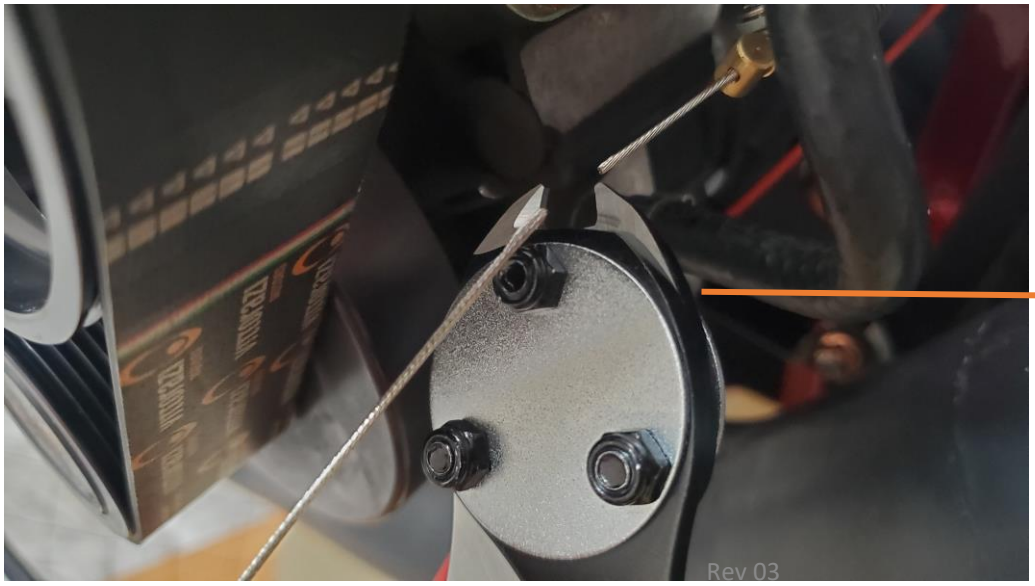


Using 2mm hex drive, tighten the set screw in the locking barrel

There will be excessive cable that needs to be removed.

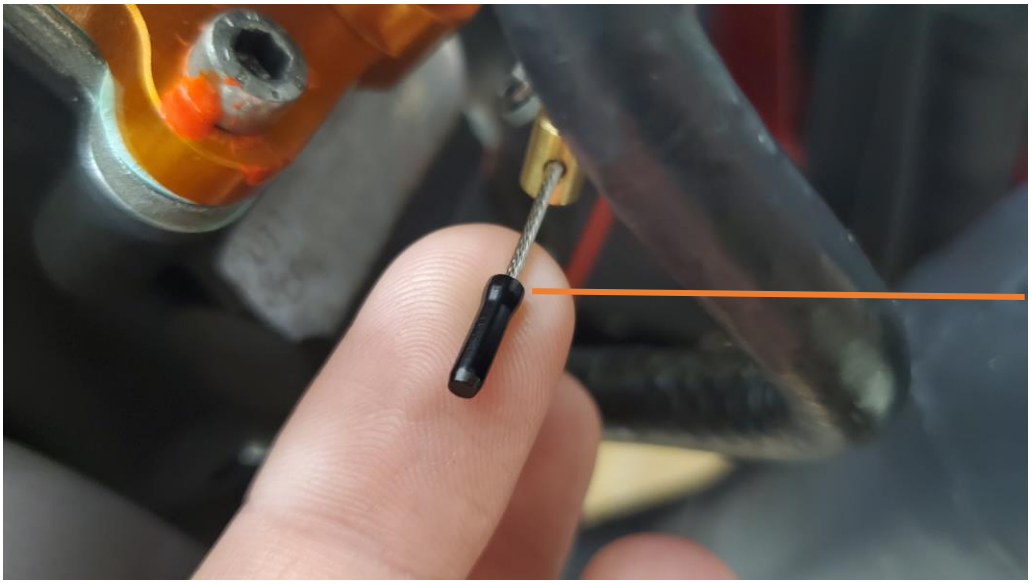


Leave enough room that the throttle can be removed in the future but not too much that the remaining tail will contact the prop.



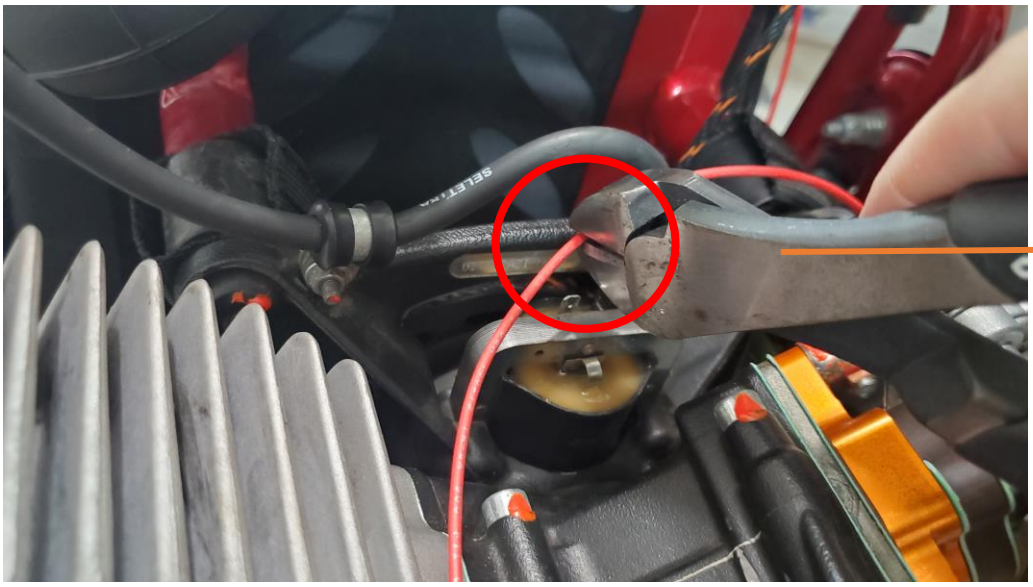
Cut the cable.

The end of the cable will be prone to fraying



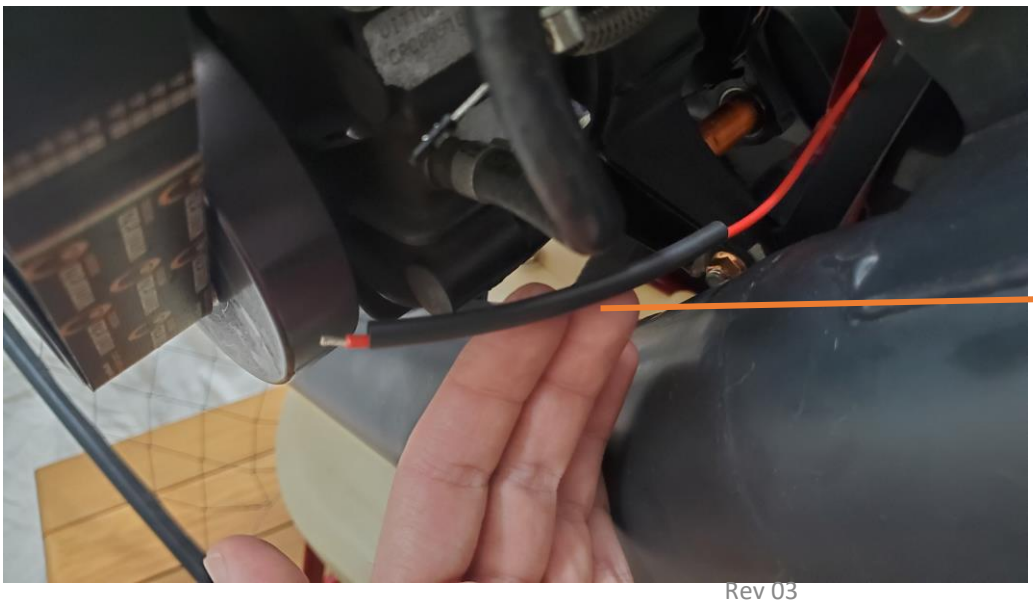
Slide the cap over the cable end

Crimp the cap over the cable.

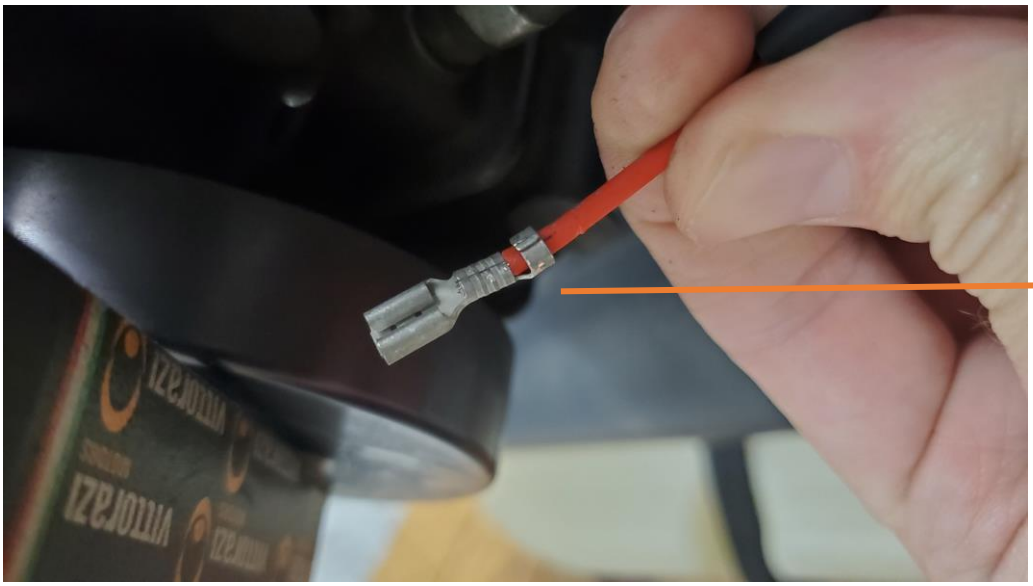


Feed the kill switch wire around the motor as desired and cut the wire to length.

Strip the end of the wire.



Slide heat shrink over the wire.



Crimp the kill switch OQ connector to the wire.

Note: The provided QD connector will not necessarily work with every motor. Ensure the correct connector before crimping to the wire. The wire is 16AWG.

Slide the heat shrink over the connector

Use a heat gun to shrink the heat shrink around the connector and wire

Feed the kill switch connecter through the motor as desired

Connect the kill switch.

Note: Kill switch connection may vary based on the make and model of paramotor.

Setting and Using the Cruise Control

After throttle is connected to the motor, get a feel for the controls and layout of the throttle before taking flight.

Turn the catch adjustment wheel as shown to move the catch downward.

Continue to turn the wheel until the white notch is at or below the third dot on the side housing.

The pilot should now take off and use the throttle in the manual setting until flying at a safe elevation, Above 1000’ AGL recommended.

While in flight, keep pressure on the throttle lever and press down on the throttle lock as shown.

Keeping pressure on the throttle lock, slowly release pressure on the throttle lever. You will feel the lock engaging the catch internally.

When the lock engages the internal catch, slowly let go of the throttle lever as shown.

The mechanism is now in the locked position and does not require input from the pilot to maintain the engine RPM.

The engine should be running at low RPM based on the pre-set from earlier. Use the adjustment wheel to increase/decrease engine power until a desired cruise level is met.

When the desired engine RPM is reached, the system will remain locked in this position until the throttle lever is reengaged.

To disengage the cruise control, slightly pull the throttle lever inward as shown.

The throttle lock will snap out of position, disengaging the cruise control and bringing the pilot back in manual control.

The throttle is back in manual control but the internal catch will remain in the last used position.

The cruise control can now be quickly reengaged to the previously used setting

The cruise control can now be set, adjusted and disengaged easily by the pilot

Note: The cruise control mechanism can be completely ignored by adjusting the internal catch to the bottom of the window. This will move the catch too low to possibly engage with the throttle lock.