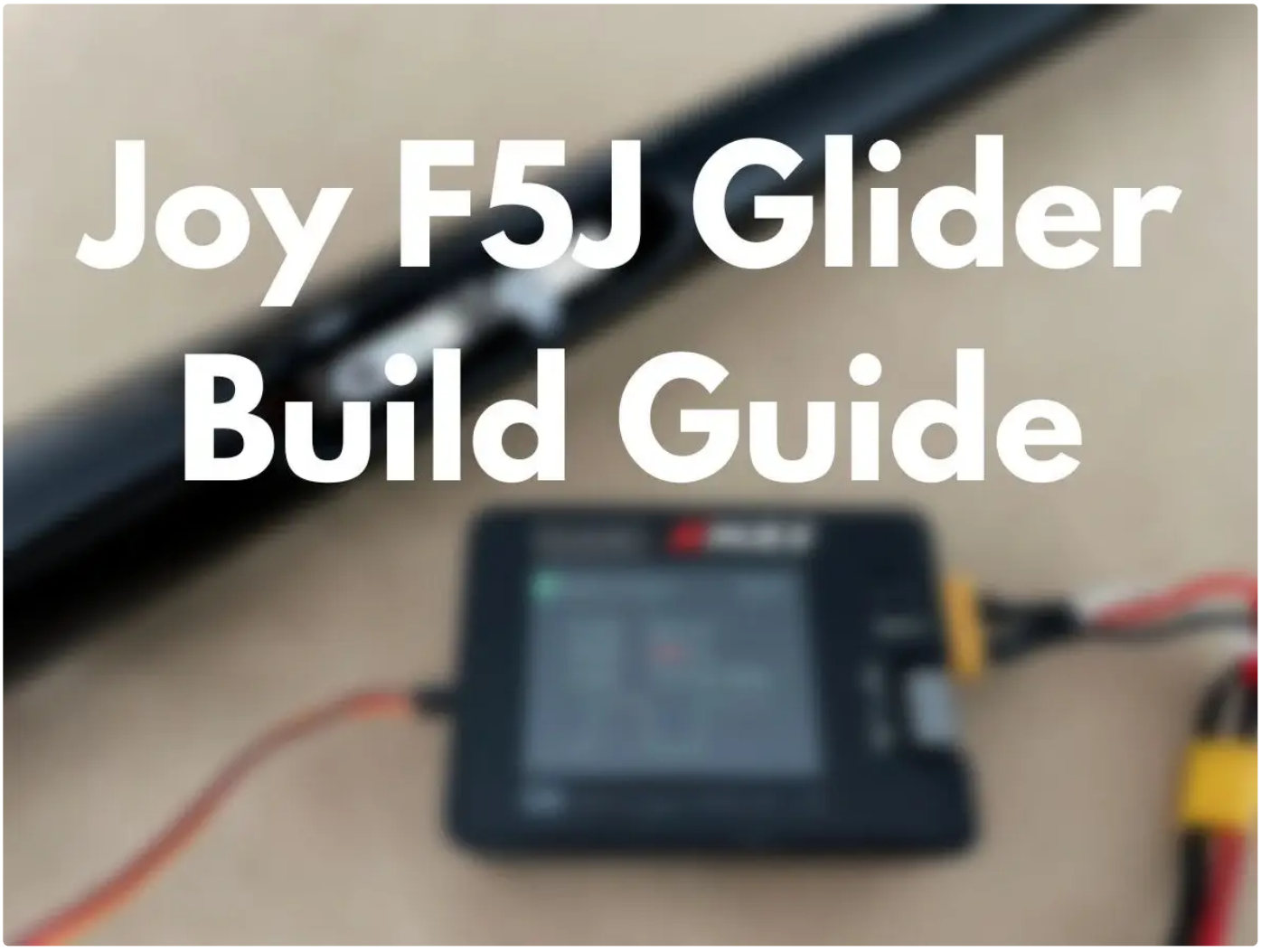
Posted on **July 28, 2022** by **Evgen** — **Leave a comment**

Joy F5J Build Instruction



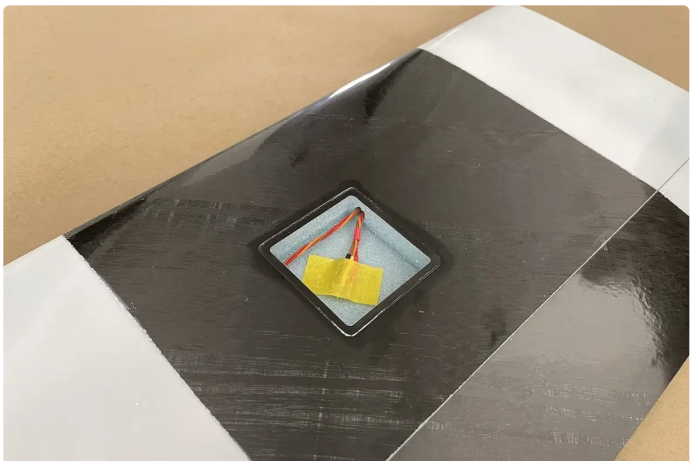
Joy is a 2.5-meter F5J glider that is provided by the Falcon and Hawk manufacturers in Ukraine.

during the pause between the competition rounds.

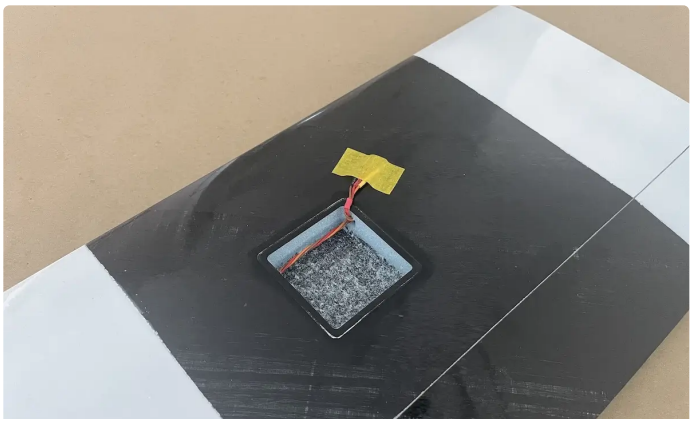
The wingspan is only 2.5 meters which allows pilots to hunt for low-level thermals, just like with the 4-meter ships.

You can purchase this model as a kit and build it on your own or **choose a Receiver Ready option** and let our professional team build it to your preference – with servos and powertrain.

If you prefer to build it on your own, please, refer to the images below.

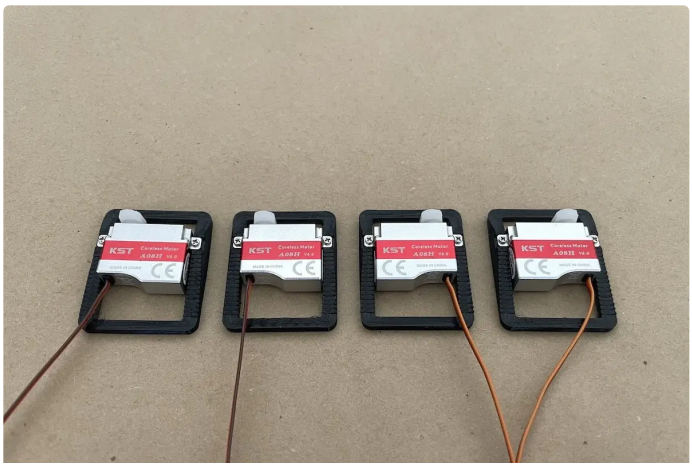


The wing harness comes pre-installed in the wings

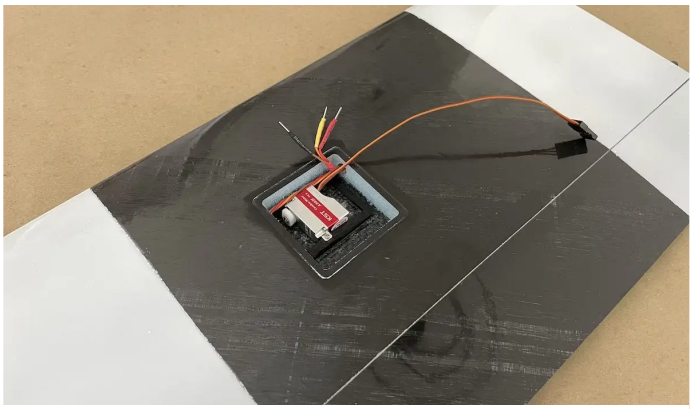


Remove the foam from the servo openings to get the naked carbon skin

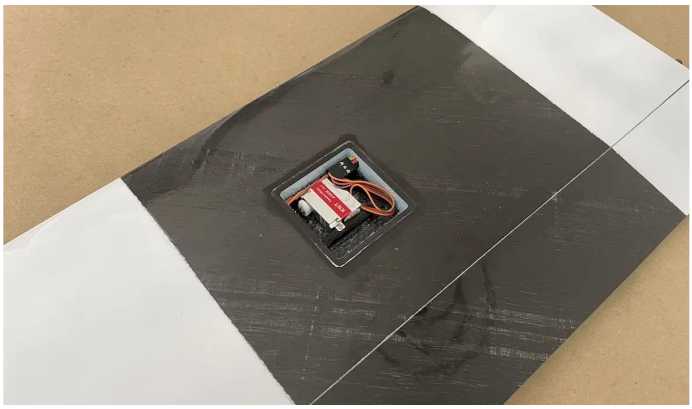
Center the servos, trim and install the servo arms. For ailerons, you might want to make a hole as close to the shaft as possible.



Install your servos in frames



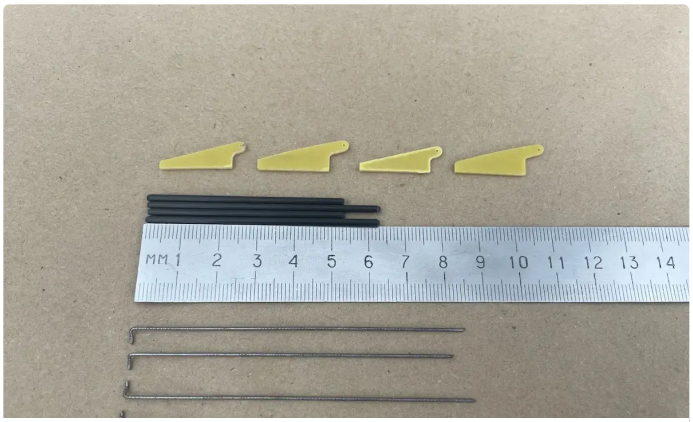
Glue the frames into the wings



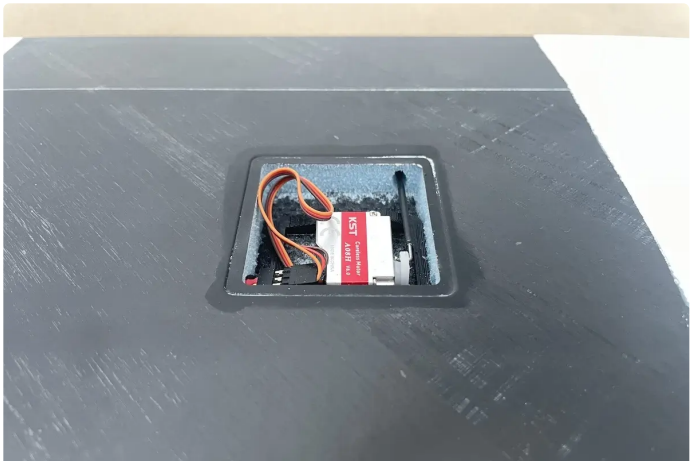
Connect your servos, double-check polarity of the wires

Make a pushrod channel with a provided 2x1mm CF tube

Make sure the CF tube moves freely inside the channel and have some extra vertical gap



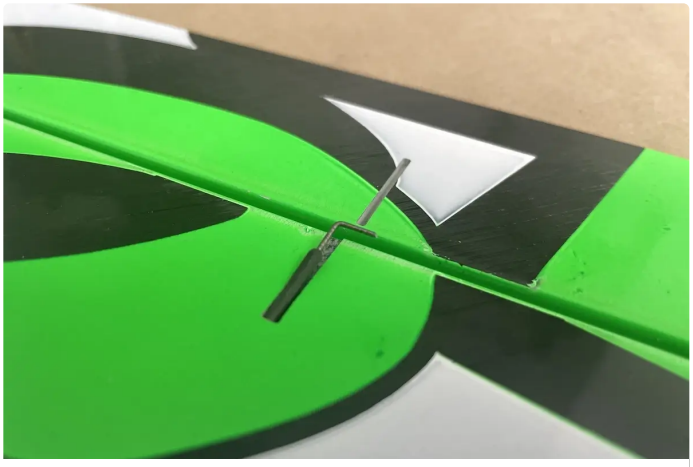
Prepare the pushrod wires, cut 2x1mm CF tube, and prepare your Conrol horns



Put the pushrod wire into 2×1 CF sleeve

Connect your servo to a servo tester with a provided harness and dry-fit your control horns

Set Flap servos to Full-Up, move your Flap accordingly, and mark the place where you need to make an L-band. Center the Aileron servo and flatten the control surface with the wing bottom for Ailerons.

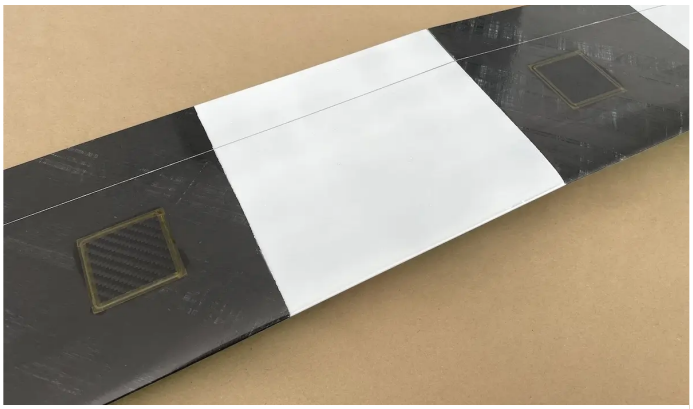


Make your L-Bands

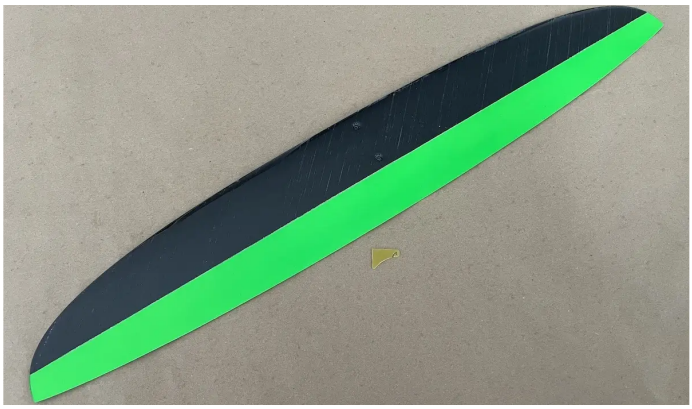
Install control horns onto the L-bands and clue the last in place

Put a drop of CA on the link to remove any possible slop

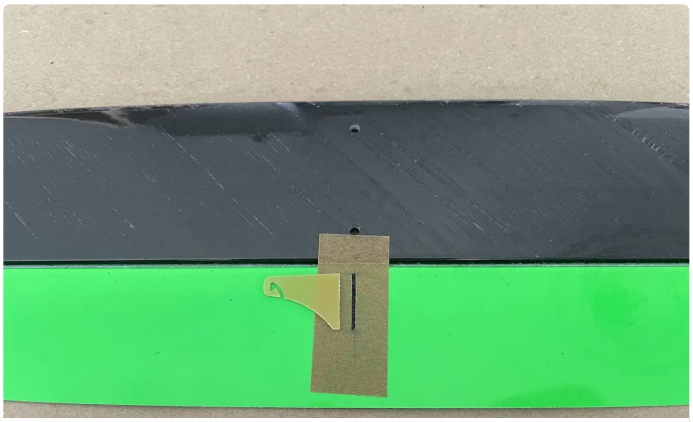
Repeat for all wing control surfaces



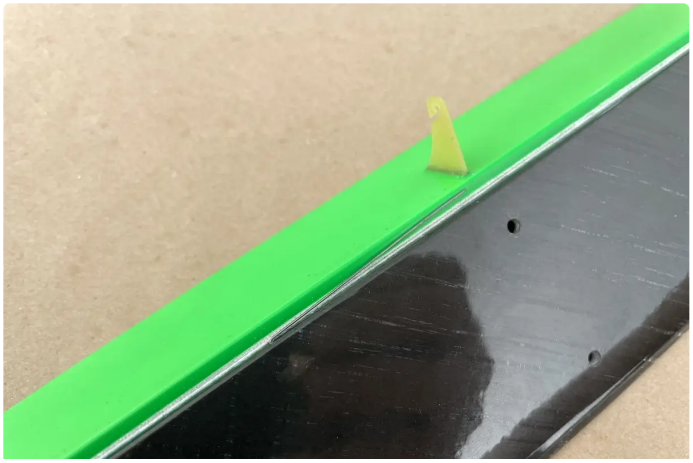
Laslty, install the servo covers



Find an Elevator control horn



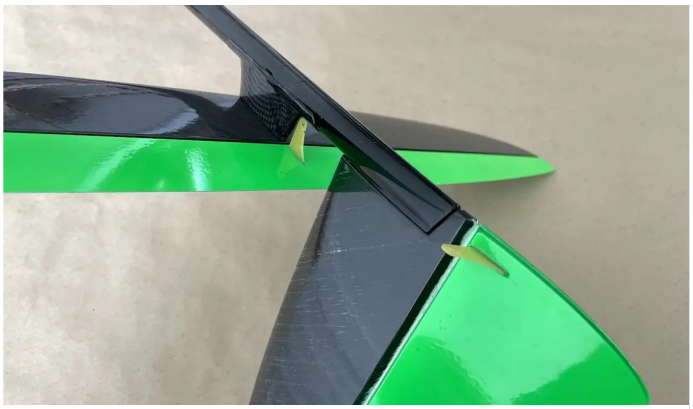
Mask, mark and cut the opening for the control horn in the elevator



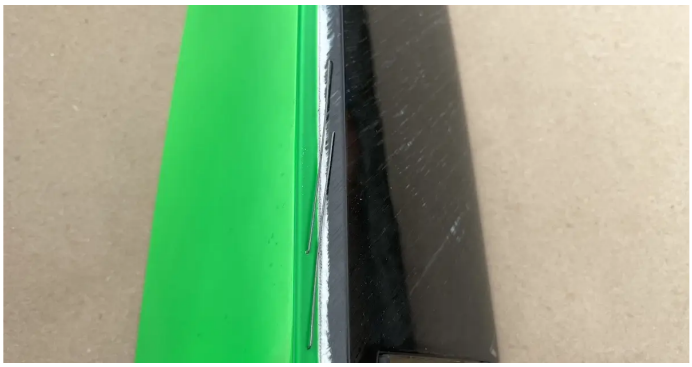
Clue the horn in place and install the torsion spring

Mask the Rudder and the boom where the cable opening will be

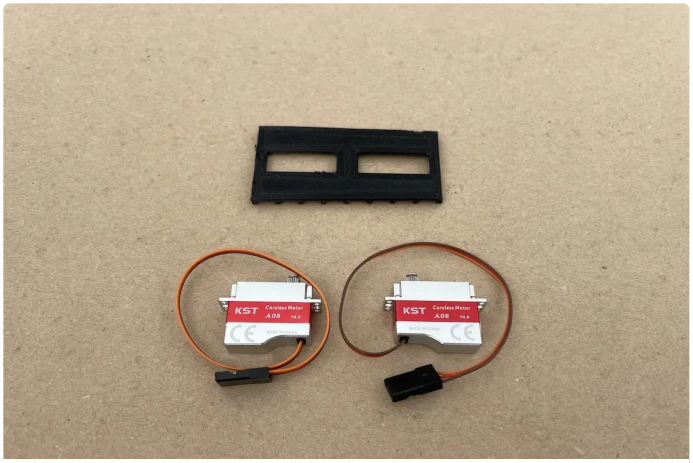
Make an openings with the sharp knife. The rotary tool with diamond bit/disc will come in handy as well



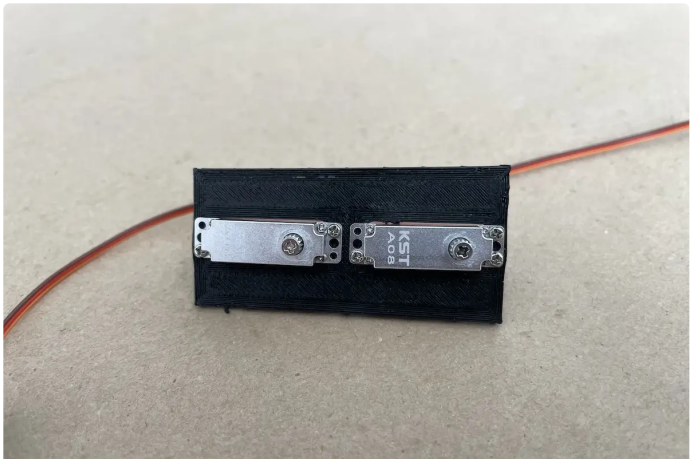
Clue the Rudder horn in place



Install TWO torsion springs into the rudder to prevent flattering in high speeds

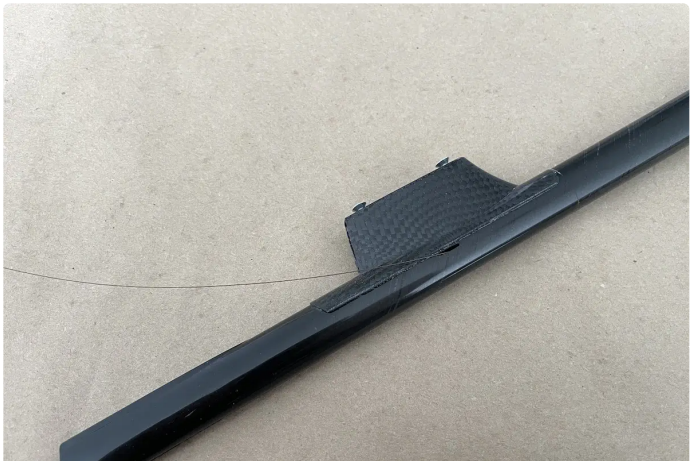


Prepare fuselage servos and a servo frame



Install your servos

Position the servo plate inside the fuselate, as close to the “top” of the fuselage as possible

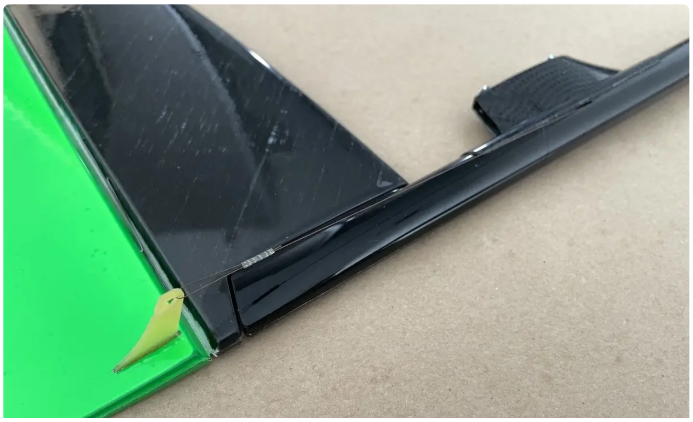


Push the cable through the opening in the boom

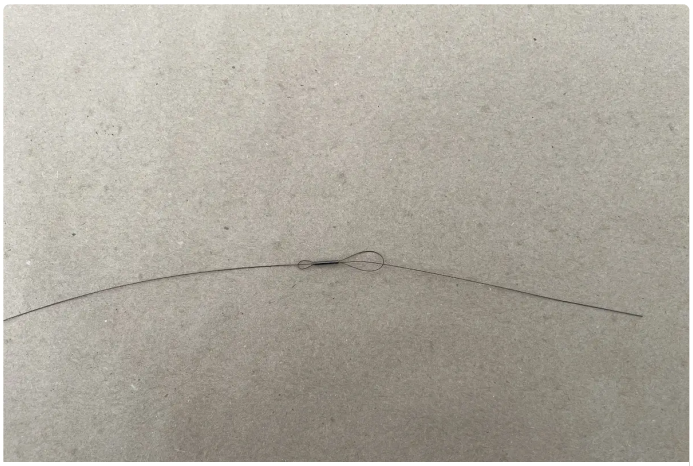
Trim and the Rudder servo arm

Crimp the cable on the servo arm

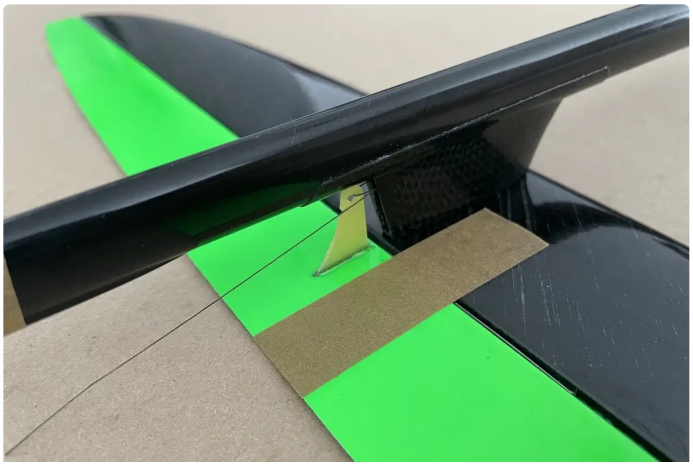
Center the Rudder (rear) servo and install the servo arm on the servo shaft



Center your Rudder make a nice tension on the cable and crimp it with a provided tube



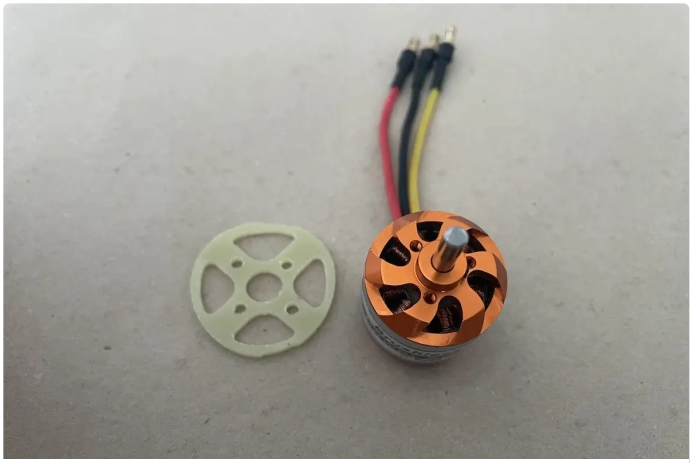
Create a loop with a pigtail for the Elevator pull-cable



Install the Elevator and hook up the pull cable

Trim the elevator servo arm, you'll need a long one to have a good deflection

Center the Elevator (front) servo and install the servo arm. Make nice tension on the cable and crimp it with pliers



Prepare your motor and firewall

Put the both parts into the fuse separately and attach the firewall onto the motor once inside. Pay attention to the fuselage seam location and as well as the corresponding spots on the firewall.

Position the motor inside, install your spinner w/ prop, fix it in place and glue the firewall in.

Once done, you'll be ready to install your Rx and battery and start with the radio setup.

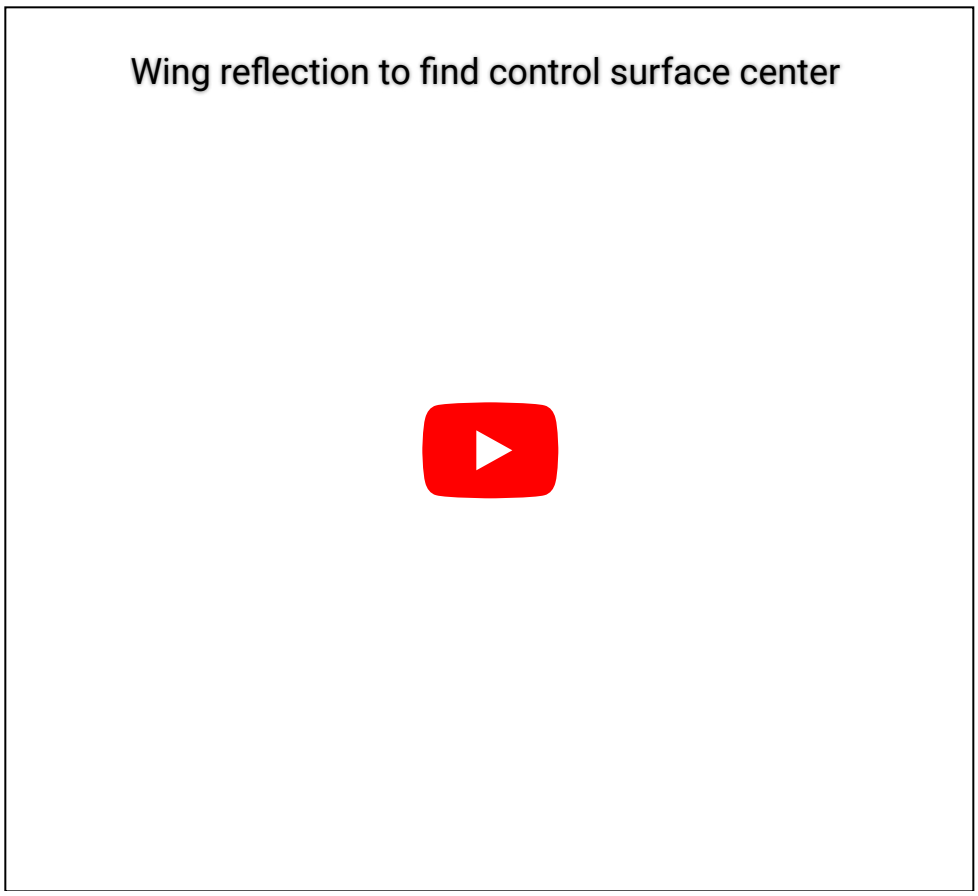
Joy F5J Setup Tips

For FrSky or OpenTX / EdgeTX users, we recommend SoarOTX F5J template for radio setup.

It is free and extremely easy to use.

Additionally, it provides a flight scoring system that will come in handy during training or simple timekeeping.

Since the wing has a composite construction, check the video below for identifying a “flat” position of the control surfaces relative to the wing body.



Recommended throws and camber settings

For the initial setup, please, use the following recommendations on the settings and adjust them depending on your preference.

CG Position	At the ballast tube spot in the wing
Rudder	+/- 25mm
Elevator	+/- 15mm
Ailerons	+/- 14mm (Ail to Flap: +/- 6mm)
Brakes	Flaps: 25-30mm down, Ailerons: 15mm down or 7mm up
Cruise	Flat bottom of the wing (0mm)
Speed	1-3mm up
Thermal 1	3mm down
Thermal 2	8mm down

Happy flying!

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Aaron Hadley | July 19, 2023

This glider is a thing of beauty and I have no doubt it will fly as well as it looks. I ordered the glider in the ARF with servos pre-installed. The nose cone and pod layout is spacious for a 1m dlg and I have no doubt that installation would be a breeze had I chosen to do it myself. The glider was boxed and shipped expertly.
More importantly, Gene the…

Read full review

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