Assembly Instructions for:

SONICMOELL HD WING

Thank you for purchasing the SonicModell HD WING!

It is import to read the manual in its entirety before your maiden flight. This model is intended to be a short to medium range FPV aircraft. The HD Wing is easy to operate with excellent flight characteristics, but we do not recommend a flying wing as a beginner airframe for FPV unless they have assistance from an experienced pilot.

Please obey all current laws and use common sense for safety when operating.

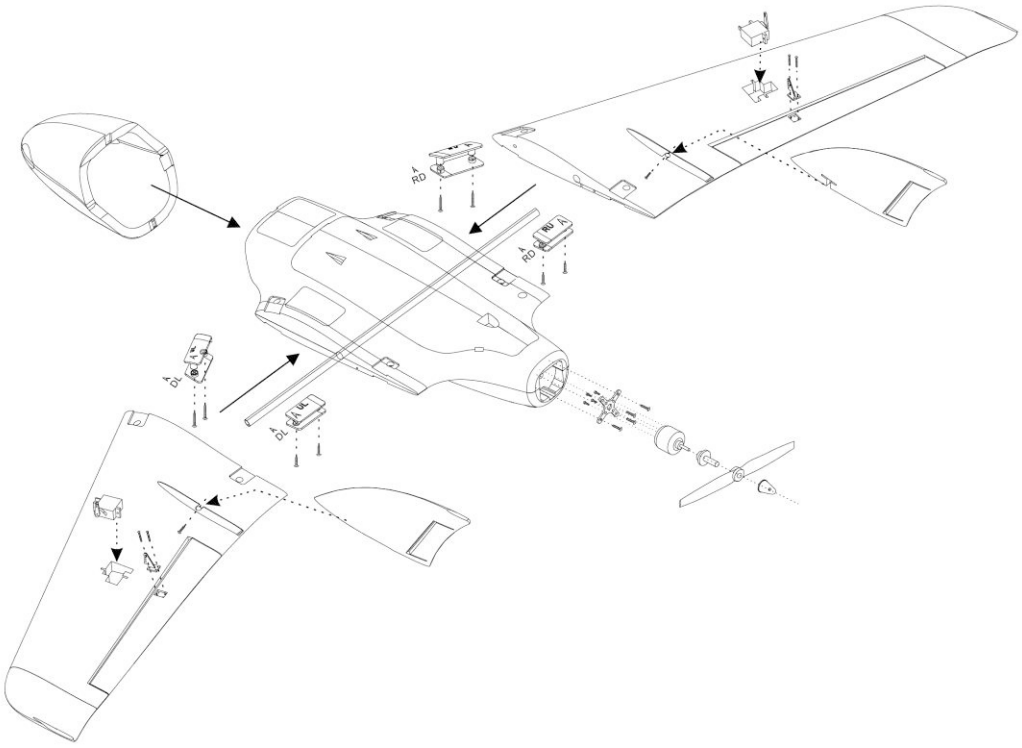
Note: *We reserve the right to modify information presented and cannot be held liable for errors within.*

Required to operate:

- Motor – 2212 2200KV (Included in PNP)
- Propeller – 6x4 E (Included in PNP)
- ESC – Hobby Wing 30A (Included in PNP)
- Servos – 2x 9g (Included in PNP)
- Batteries – 3s 2200-4200

Required for assembly:

- Epoxy or personal choice of glue
- Medium and Small Phillips screw driver
- Hobby Knife
- Servo Centering Tool

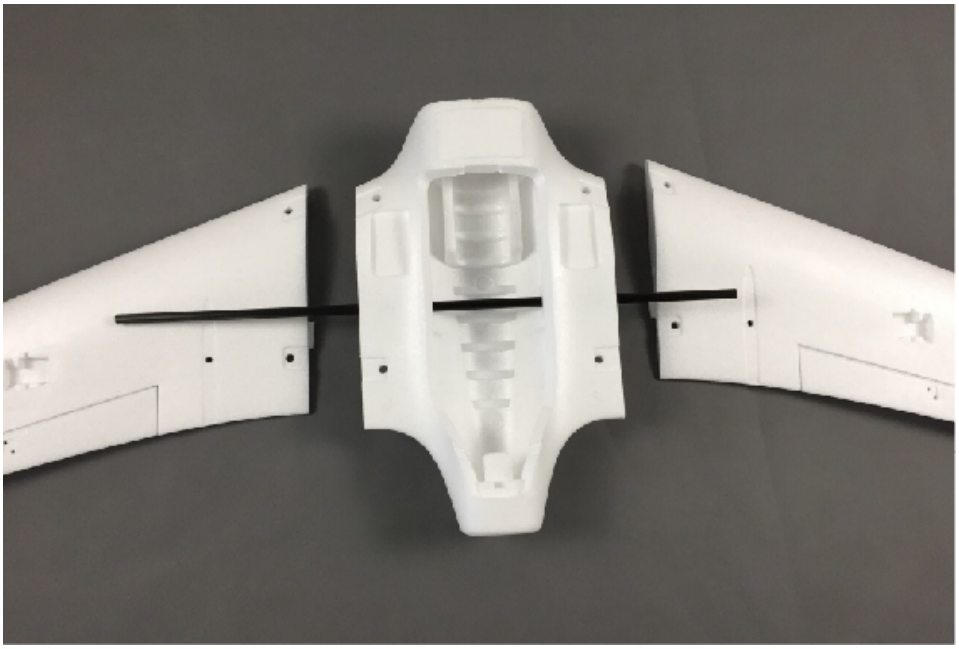


Package Contents: (KIT version Show)

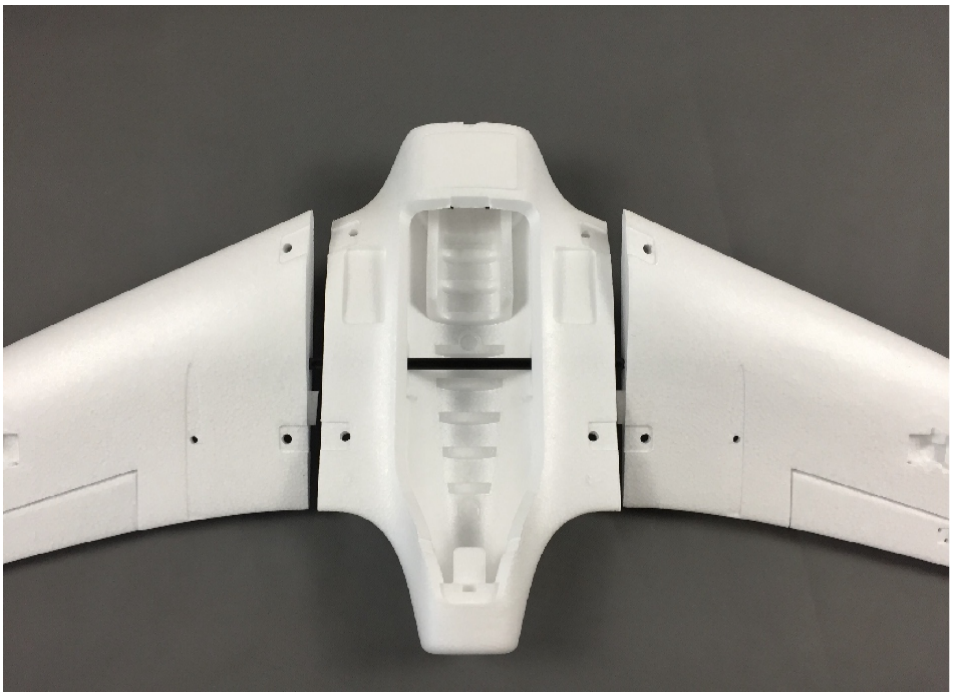
- Fuselage
- Hardware Package
    a. Upper and Lower Wing Bracket Joiners with Screws
    b. Optional Wooden Camera Plate
- Main Wings
- Landing Skids
- Wing Spar
- Optional Nose with Domes
- Rudders
- Decal Sheet

Assembly

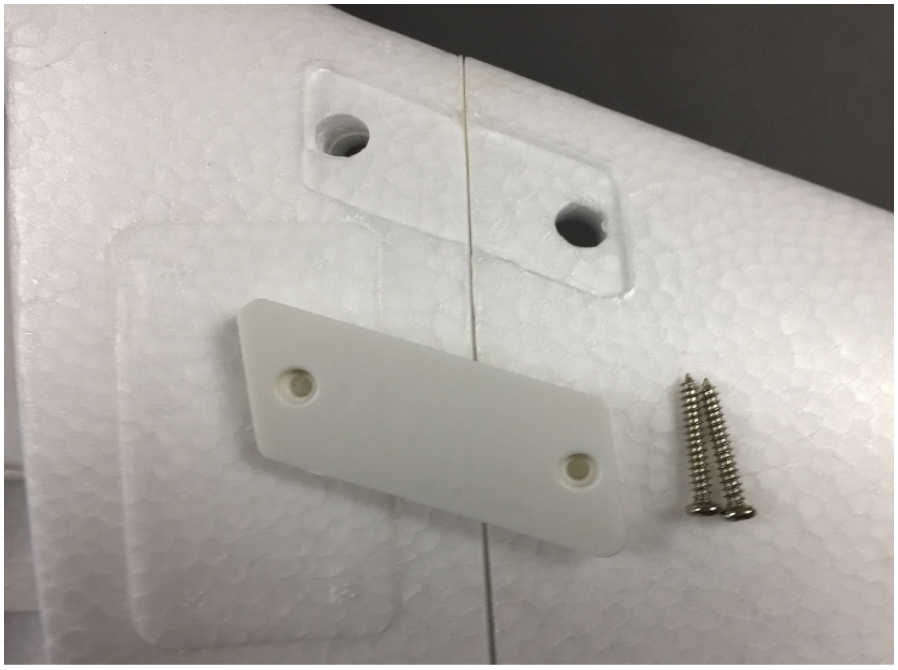
1. **Locate Wing Spar** and feed it half way through the fuselage.



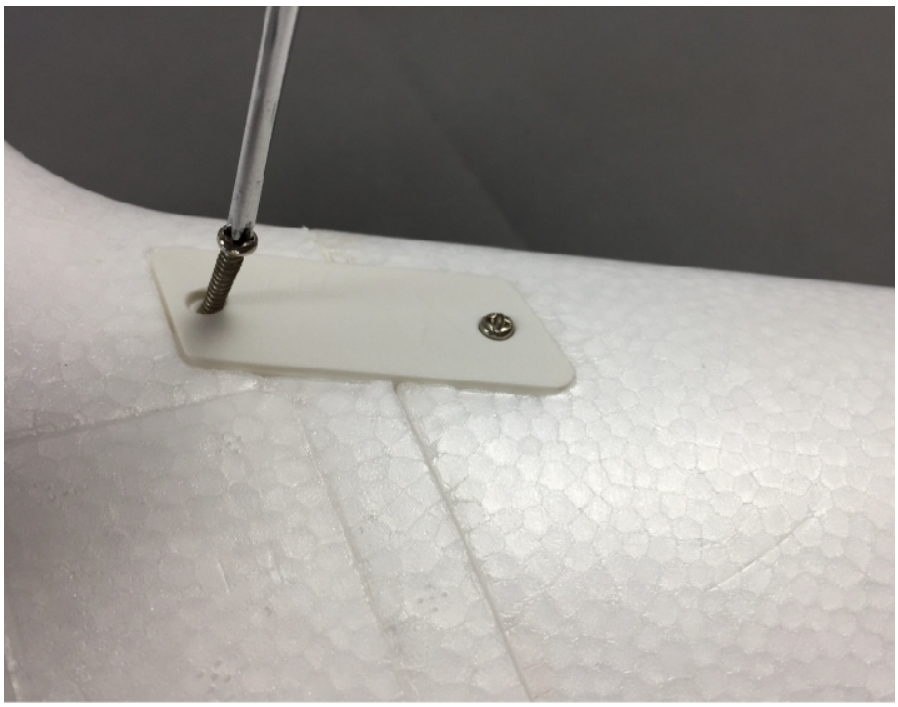
2. **Locate Right and Left wings** and slide each side over the spar until they reach the center. *Aileron servos should be on top.*



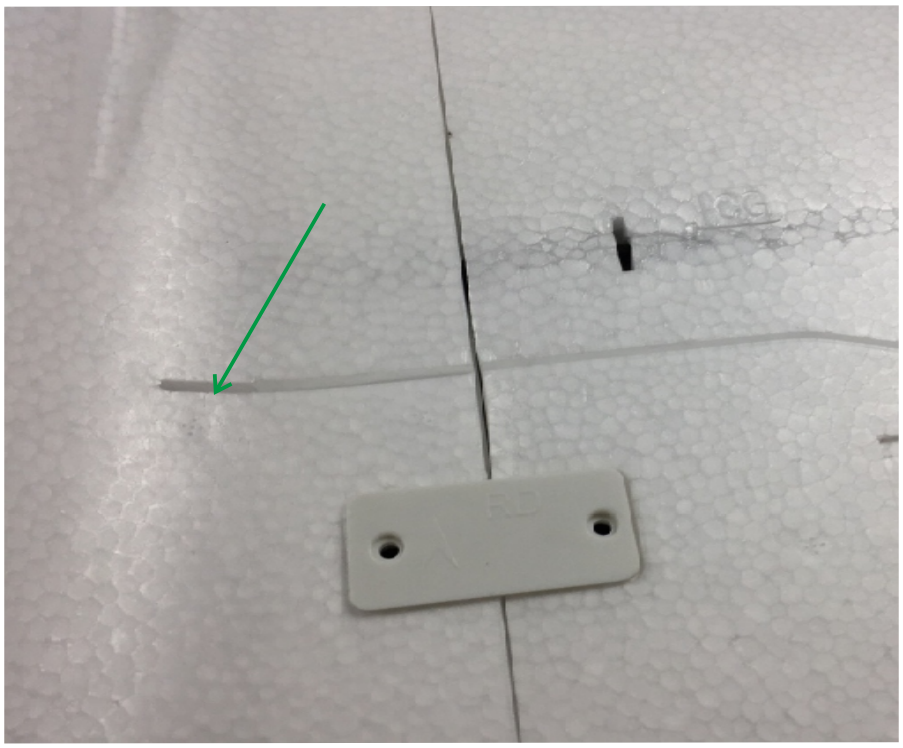
3. **Locate Plastic wing Anchors and Screws.** Each anchor has corresponding letters and a forward pointing arrow in the plastic that note where each one belongs.
    a. Longer screws go in the forward brackets.



    b. All screws insert from the bottom side. If you have any that insert from the top, please double check.
    c. Fasten screws until snug. Do not over tighten and compress foam.

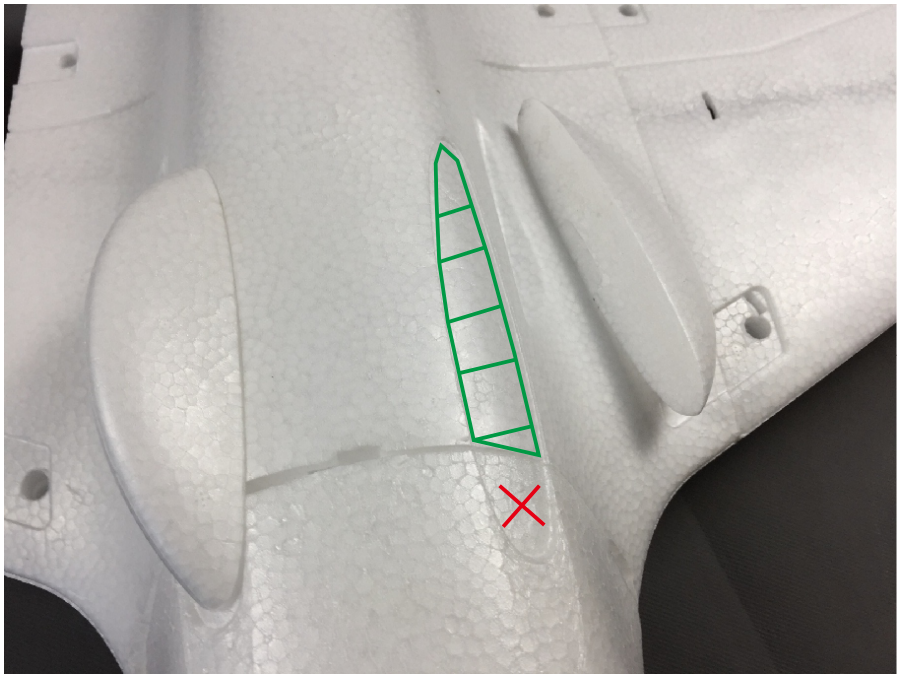


4. **Locate Servo Leads and pass them through to the fuselage.**

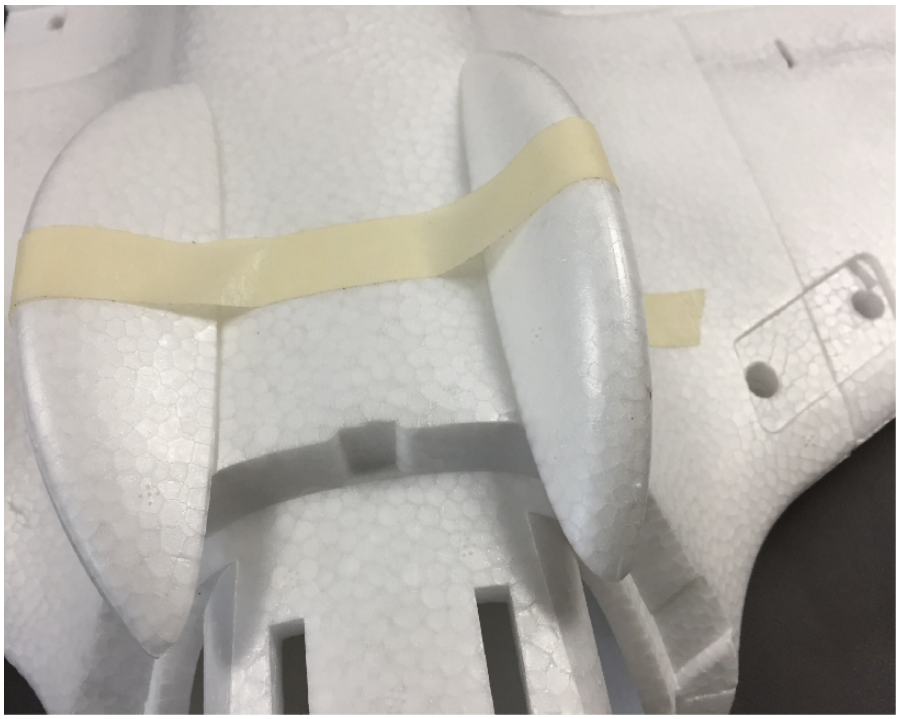


a. You will see a small opening inside the fuselage to pull the lead through.

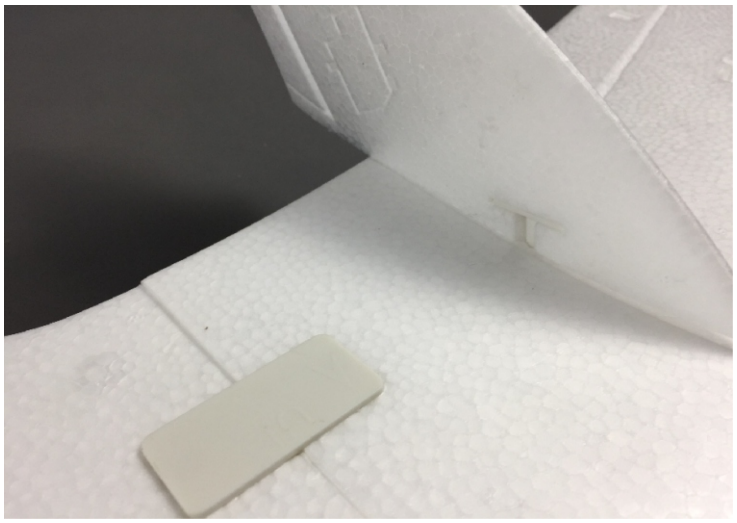
5. **Locate landing skids** and dry fit before gluing into place.
    a. If you use the nose piece to help guide the skids, be careful to not allow glue onto it. We use contact cement.



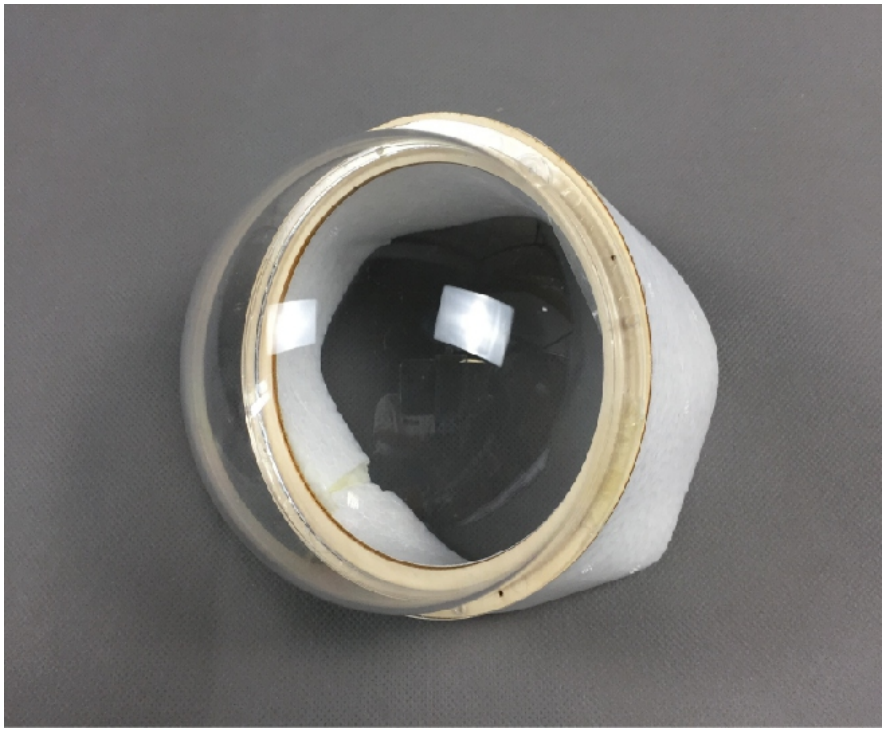
    b. Secure the skids with masking tape while curing.



6. **Locate rudders, screws and secure into place**. It is not necessary to glue the rudders into place.

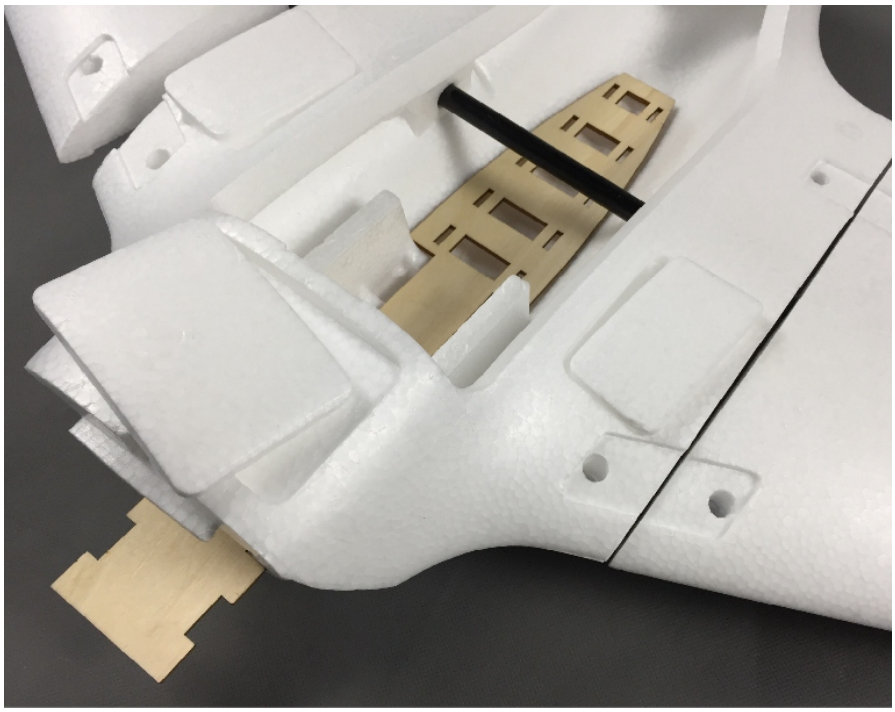


7. **Locate optional dome nose and 2 small screws.**
    a. Secure dome onto nose with screws.



8. **Locate prop adapter, propeller, and adapter rings.** Install onto motor shaft and tighten completely.
    a. It is always best to balance the propeller before flying.
    b. **Note proper direction**. The “letters” printed on the prop always face forward.

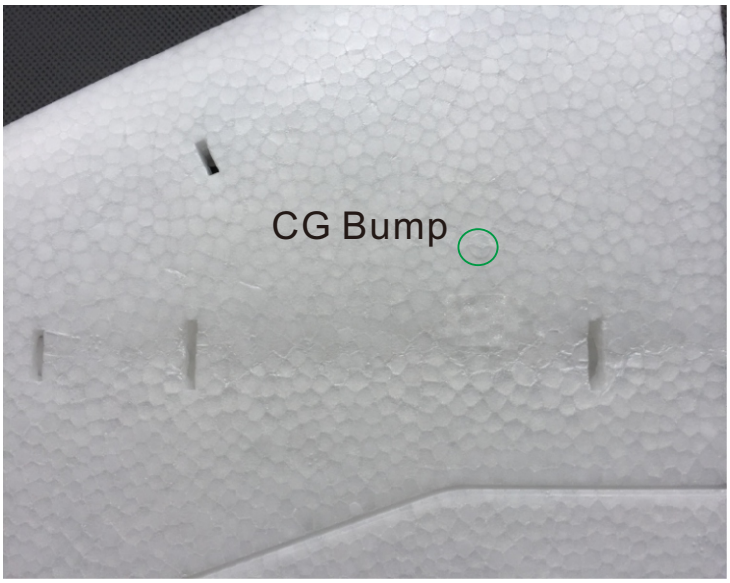
9. **Optional** – If you are not planning on using the equipment cut-outs, you may want to glue or tape them in place before flying.



10. Setting up the HD Wing for maiden flight:

a. After you have successfully installed and bound your radio and receiver, verify that all channels are operating on the correct controller input and in the correct direction for flight. The HD Wing will require "mixing" since it is a model with elevons.
b. Set the elevon throws to 100% or approximately 15mm of travel in both directions. (Measured in relation of the elevon to the wing)
c. Center of Gravity (CG) is achieved directly on the raised lettering on the bottom of the wings (24mm forward of the wing spar). We recommend that the model is slightly nose heavy for the maiden flight.
d. Without FPV gear installed, we fly with an 3300 3s battery.
e. While the HD Wing is an easy plane to hand launch, we recommend having a qualified person to launch for the maiden flight.

Center of Gravity Mark:



Finished the HD Wing

Enjoy your HD Wing ! Please fly responsibly.