



EV350

BRIEF BUILD GUIDE

Mugin Limited
www.muginuav.com sales@muginuav.com

Table of Contents

01 

Overview of Airframe and Electronics [01]

02 

Boom Assembly [01]

03 

Aileron Installation [05]

04 

Rudder Installation [07]

05 

Elevator Installation [09]

06 

Installation of the Middle Wing [11]

07 

Body installation [14]

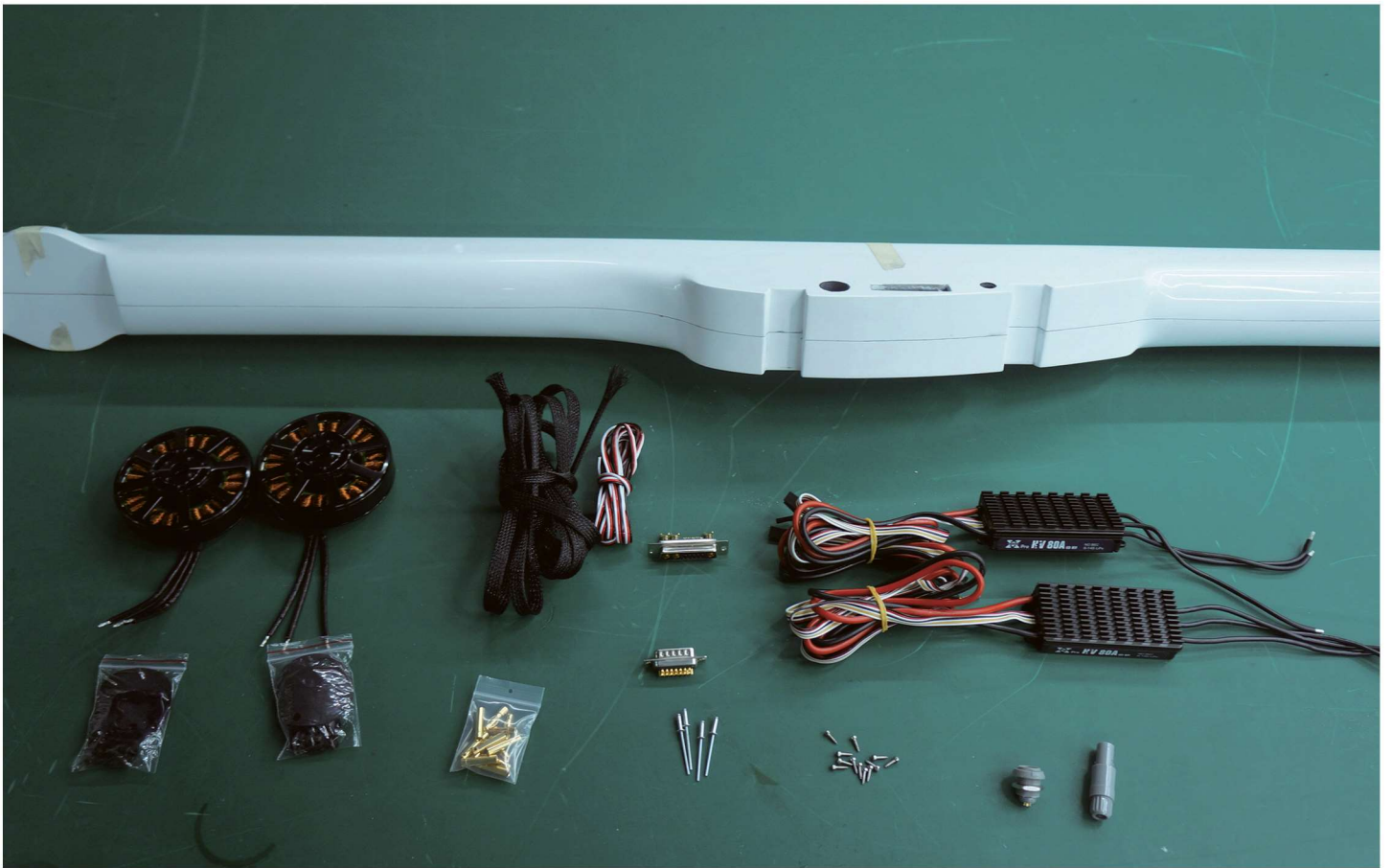
01

📌 Airframe and Electronics

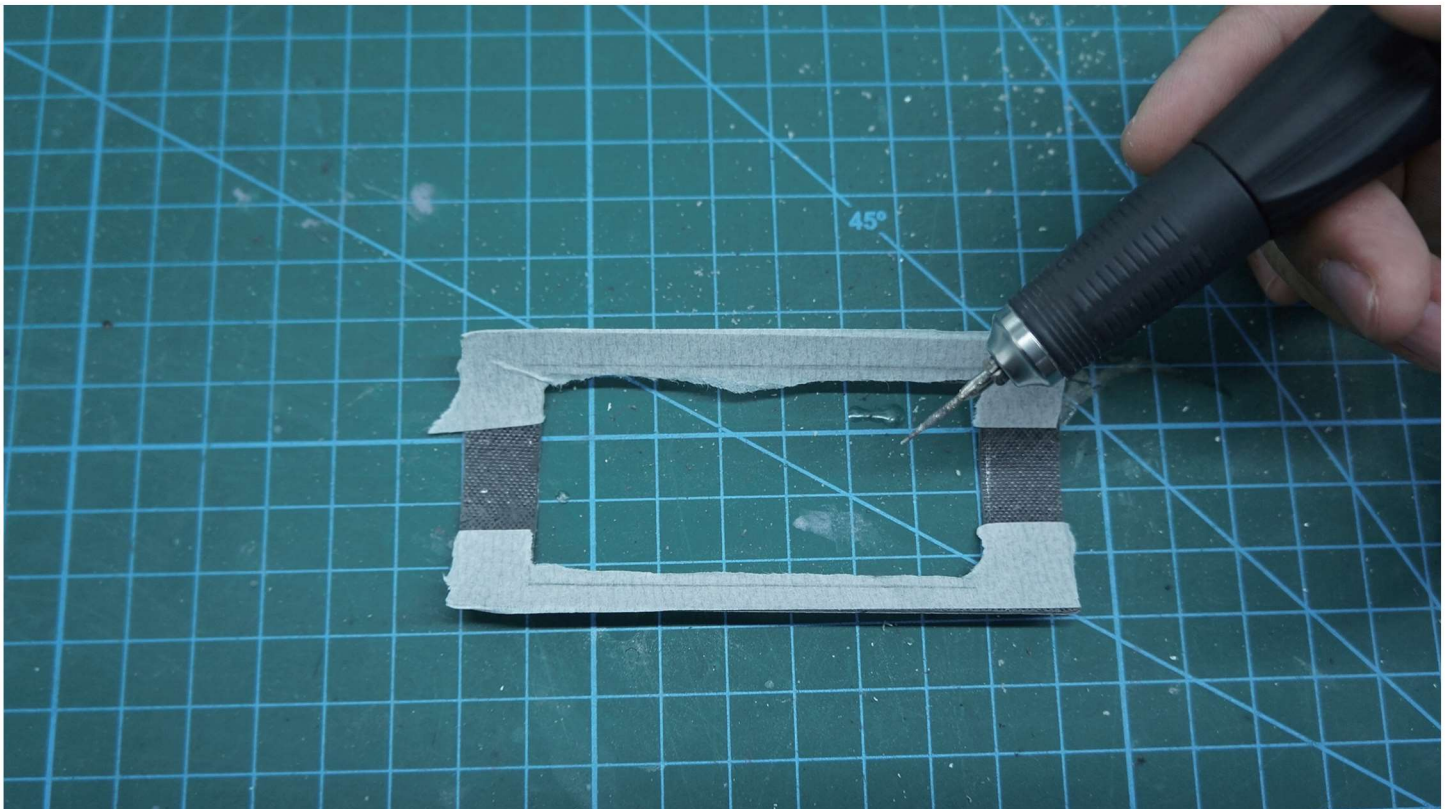


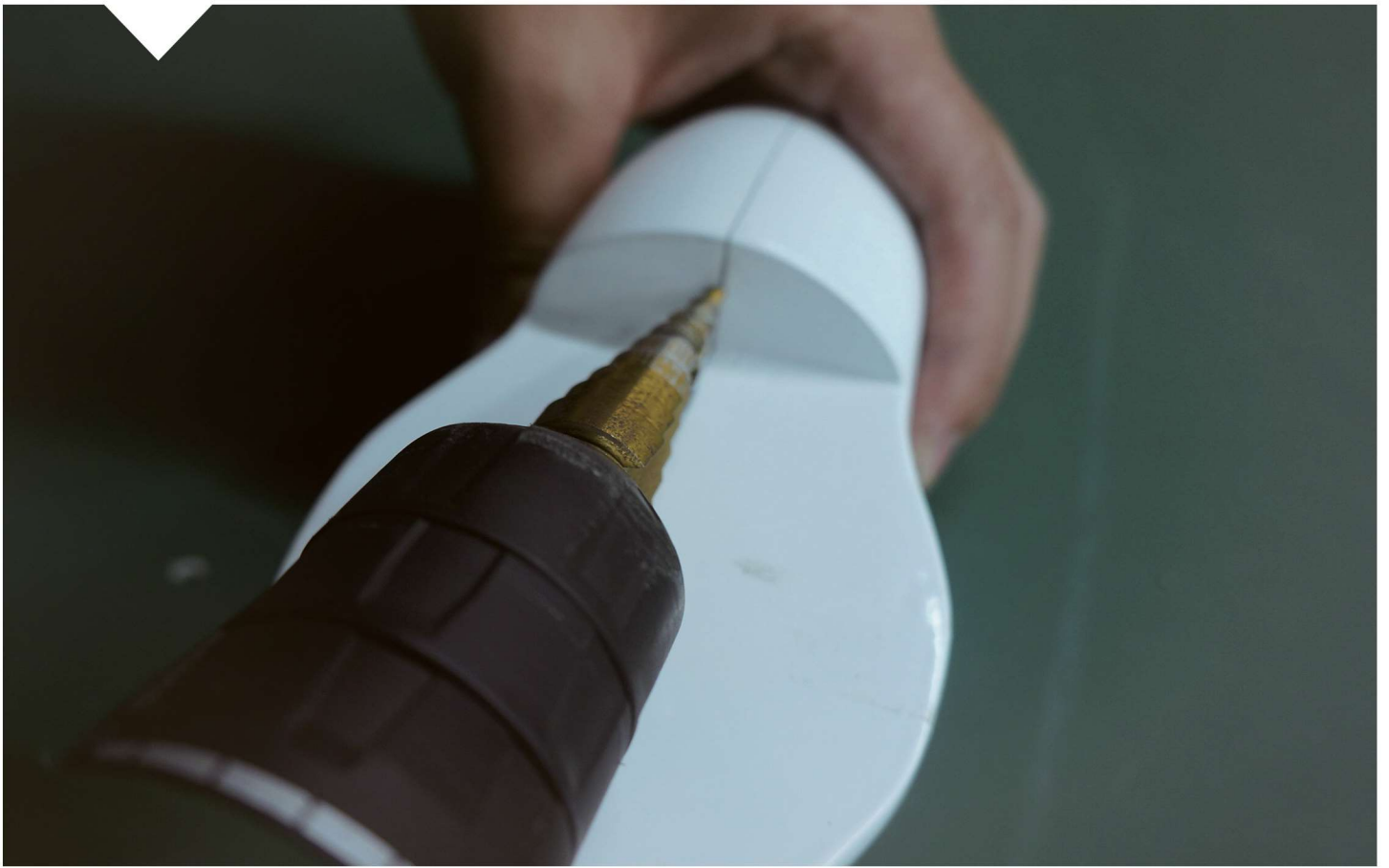
02

📌 Installation of Boom Components



- 1 ► “ Holes for the motor bolts and ESC seat will need to be drilled/cut according to their size. ”

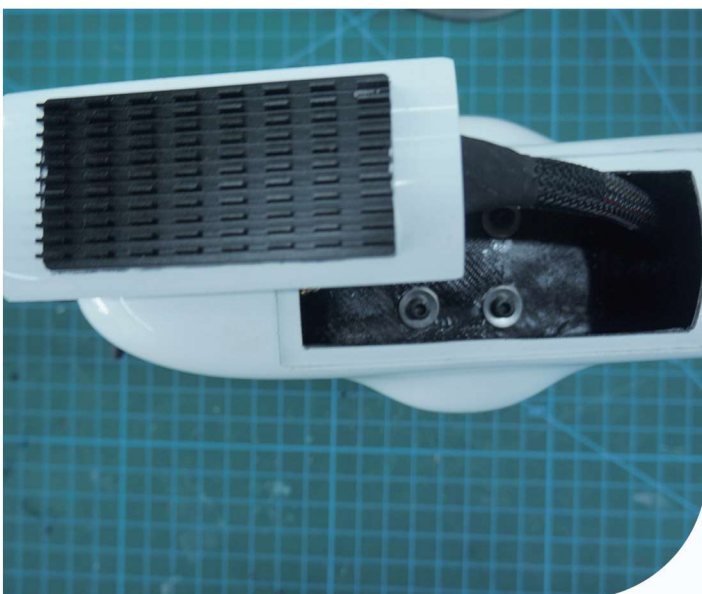
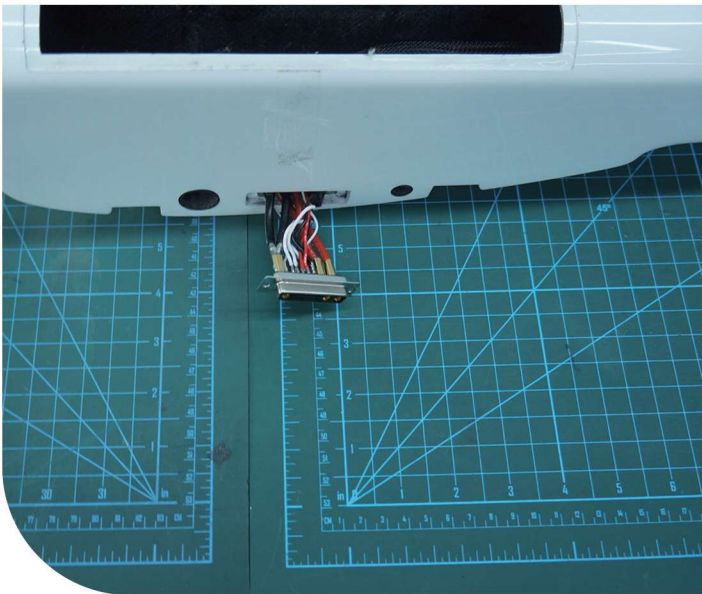




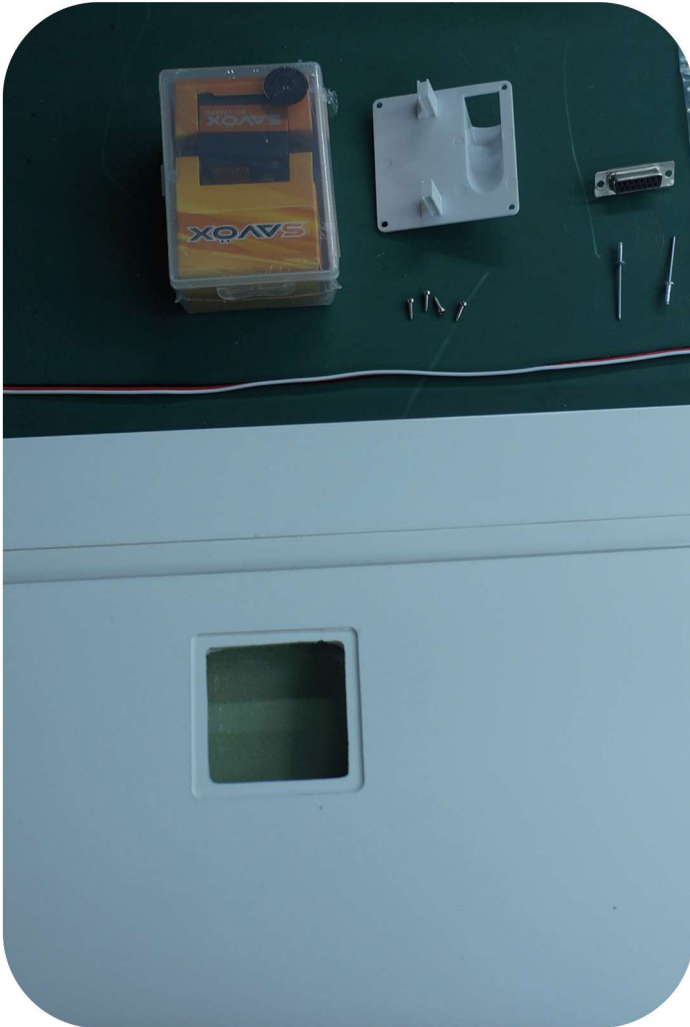
- 2 ▶ “ Install the wiring into the boom before soldering the components. ”

Precautions

- ✓ First install heat shrink tubing.
- ✓ Take care to mark each function of the wiring.
- ✓ Ensure proper polarity for ground and power.
- ✓ Test functionality before finalizing installation.

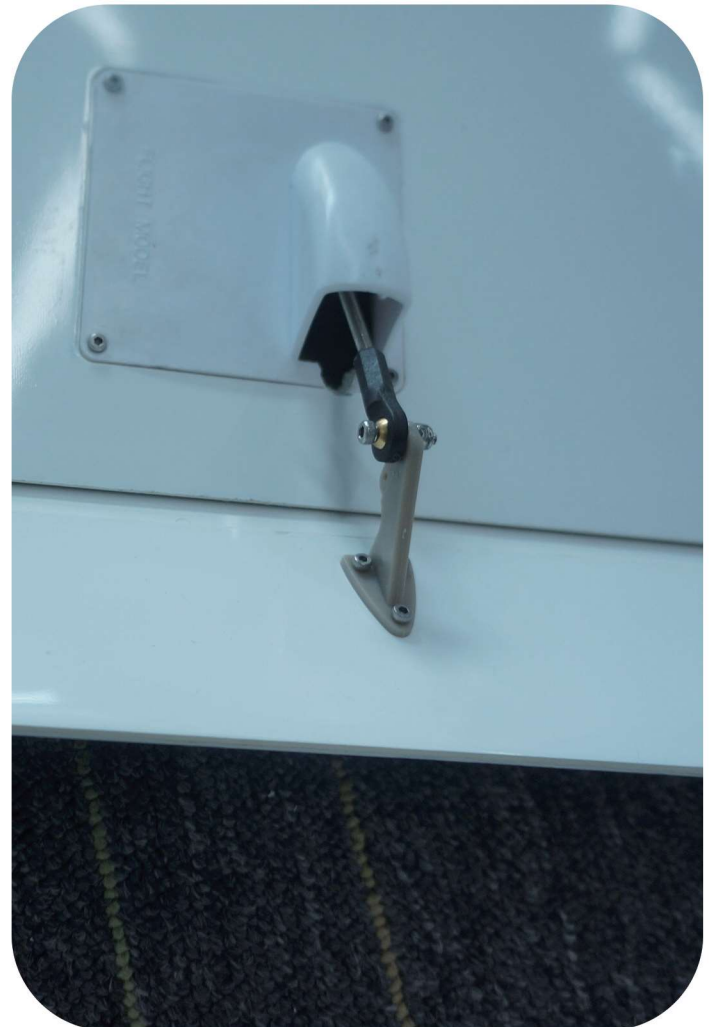


🔍 Aileron Installation



/1

Servo hardware will need to be drilled and prepared for placement.



/2

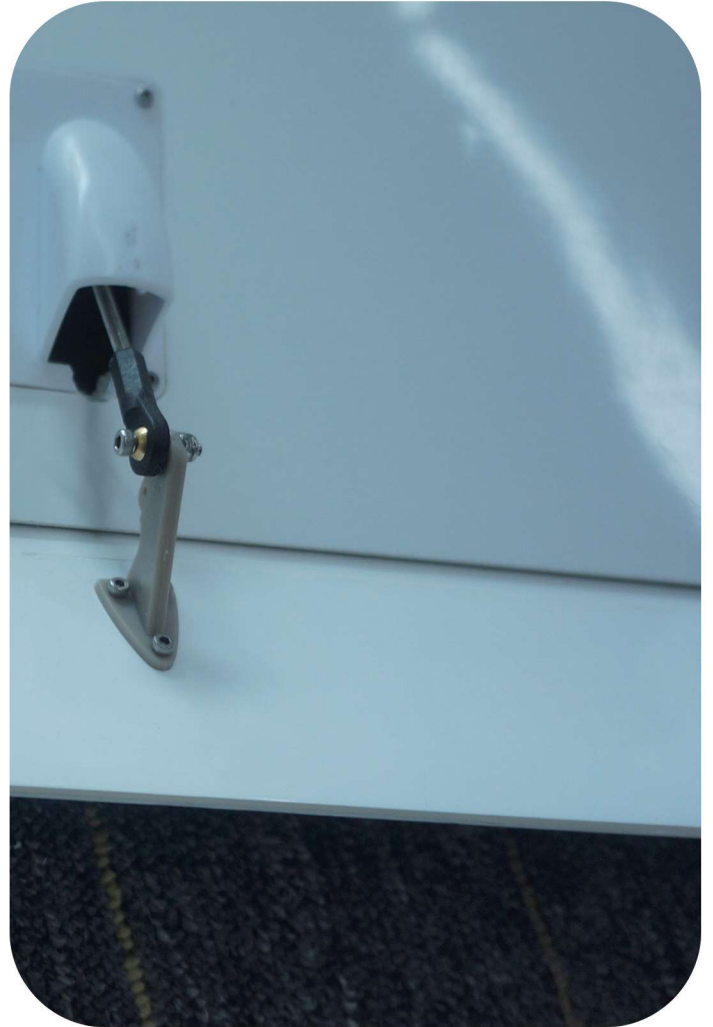
Install servo horn.





/3

Route wiring throughout the wing before soldering DSub connector.



/4

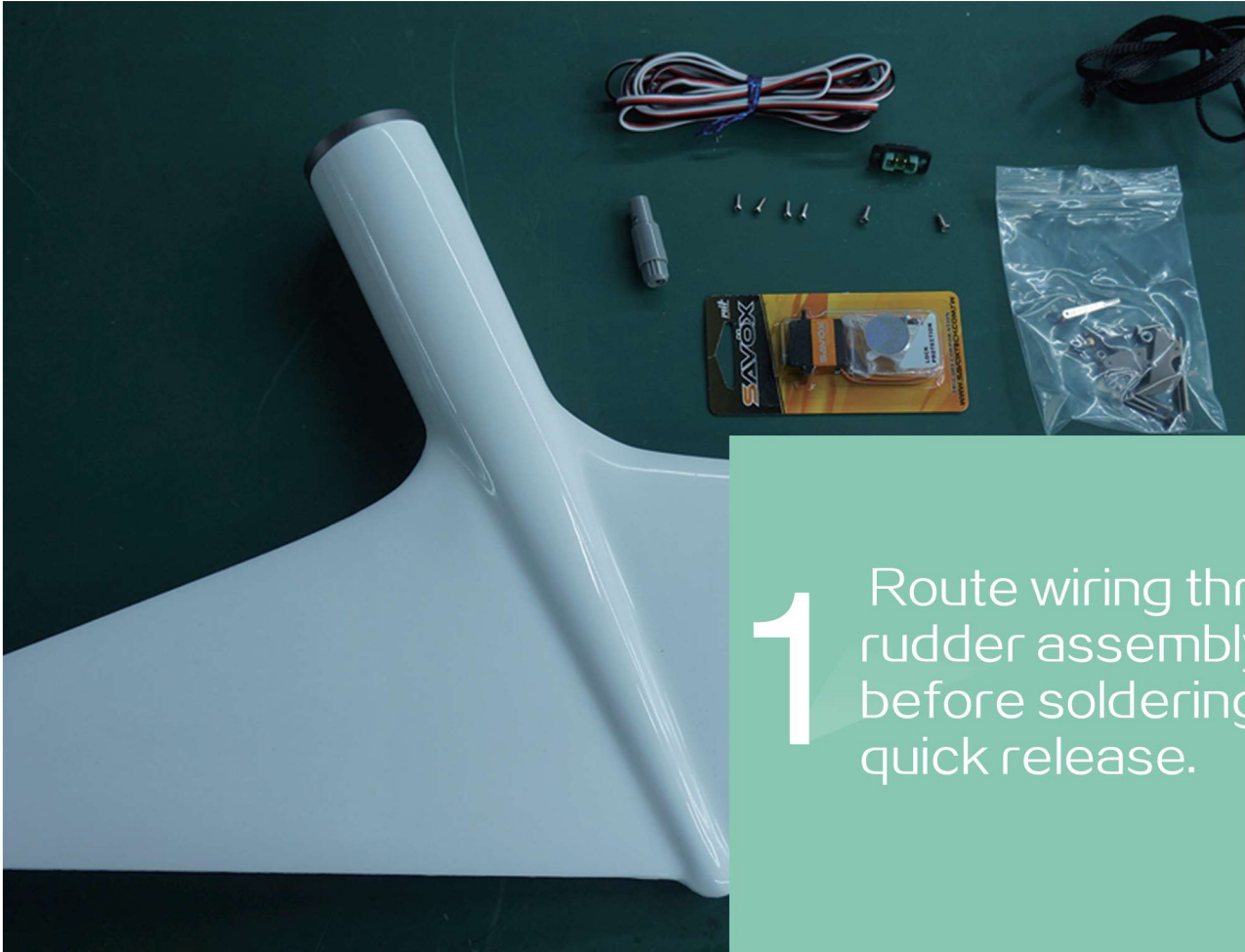
When soldering wires to DSub connectors take care to note function of each pin.



/5 Remember to diagram proper pin function before finishing.

/6 Finalize DSub placement by riveting in place.

🔍 Rudder Installation



1 Route wiring through rudder assembly before soldering to quick release.

2 Install servo hardware.





3 Pay attention to wire order/function before soldering.

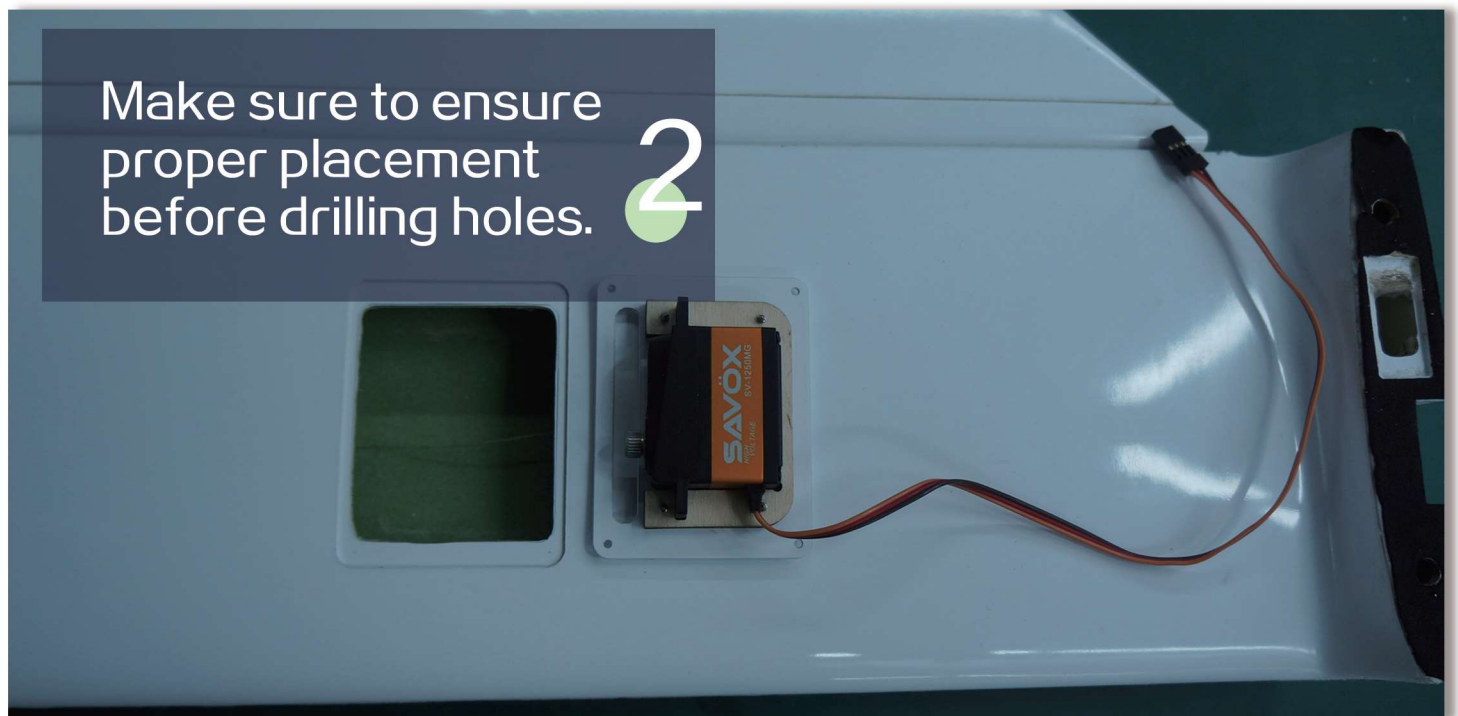
4 Install heat shrink before wiring to quick release.

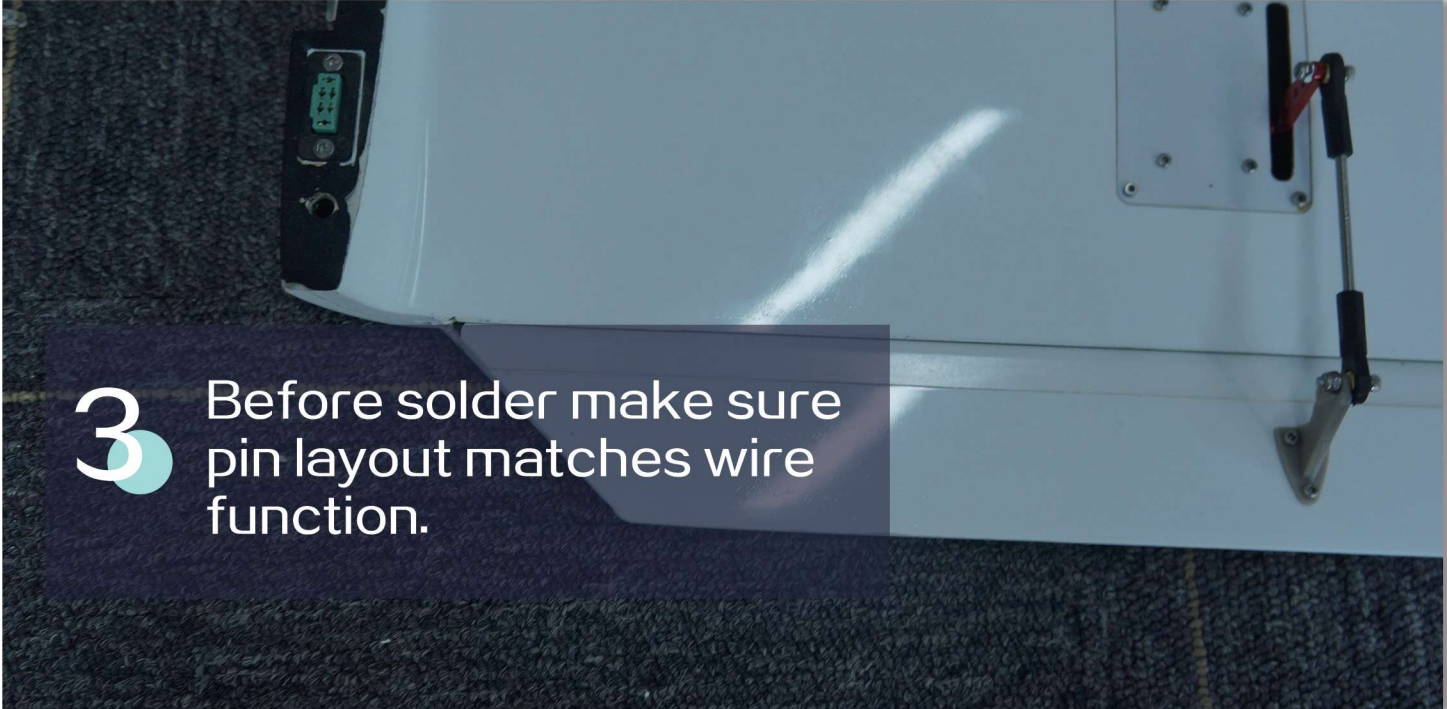


5 Pay attention not to reverse polarize.

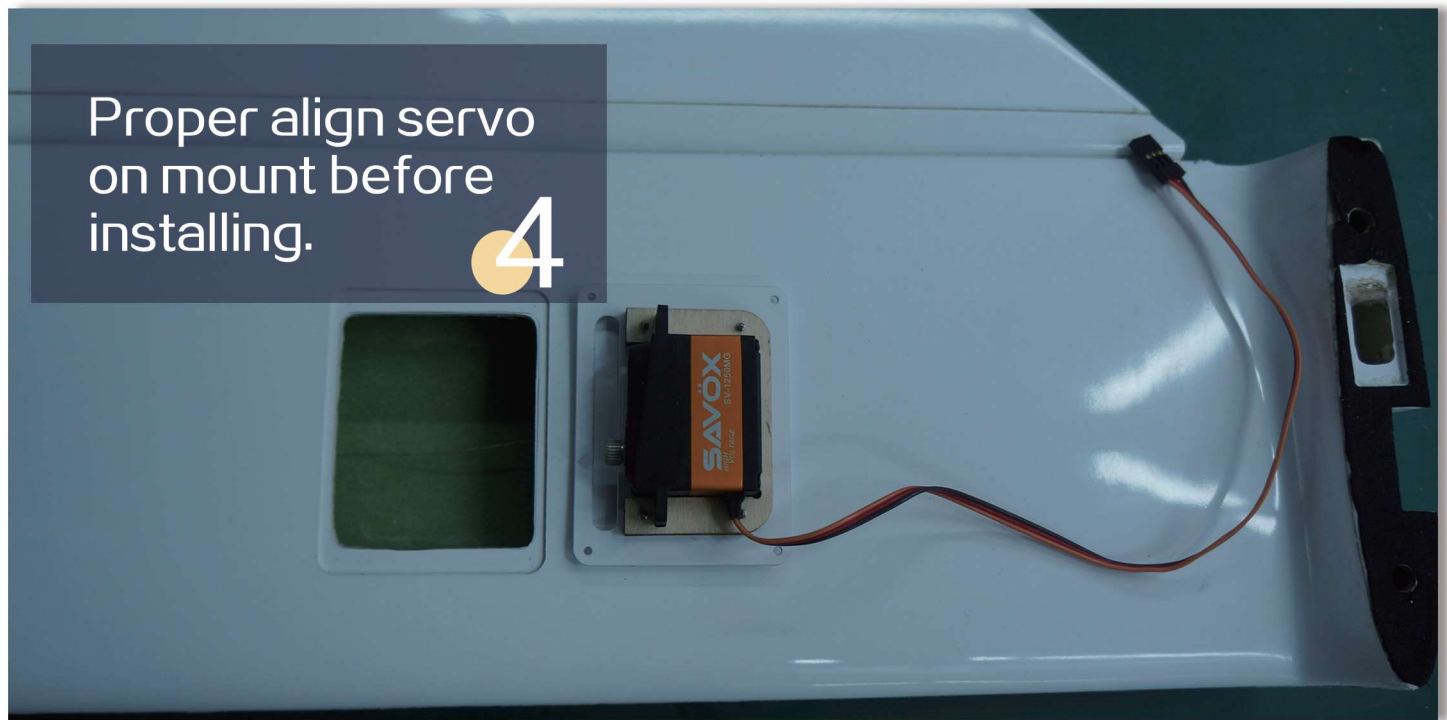


Elevator Installation





3 Before solder make sure pin layout matches wire function.



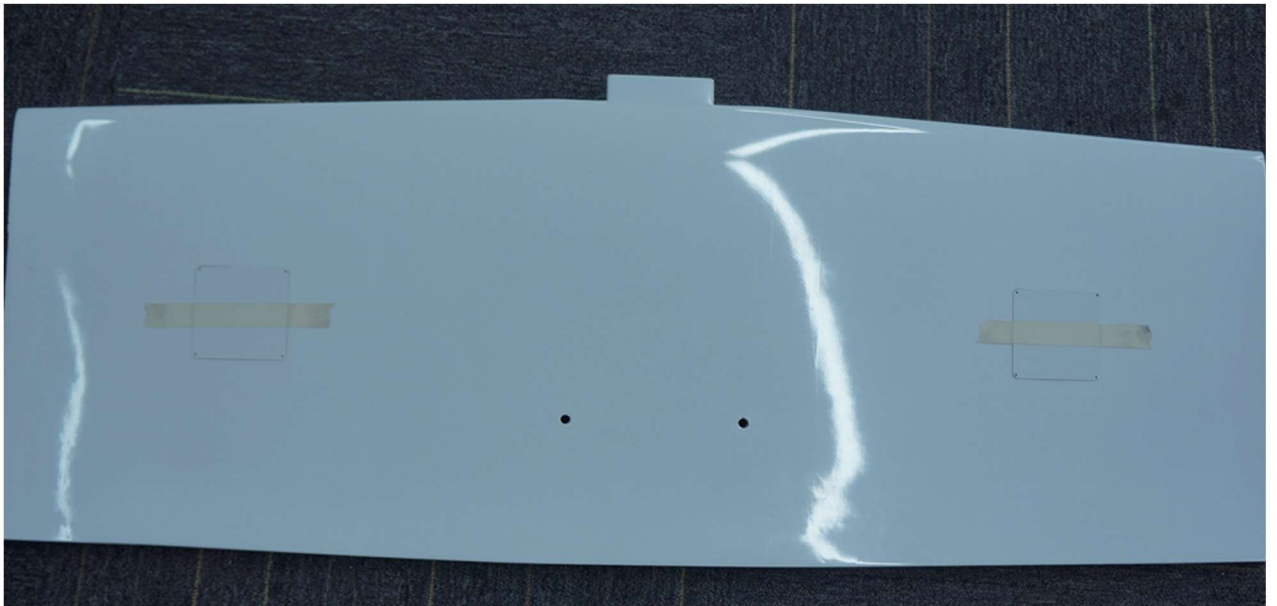
Proper align servo on mount before installing.

4

5 Before soldering to quick releases always make sure to pay attention to pin function.

Center Wing Installation

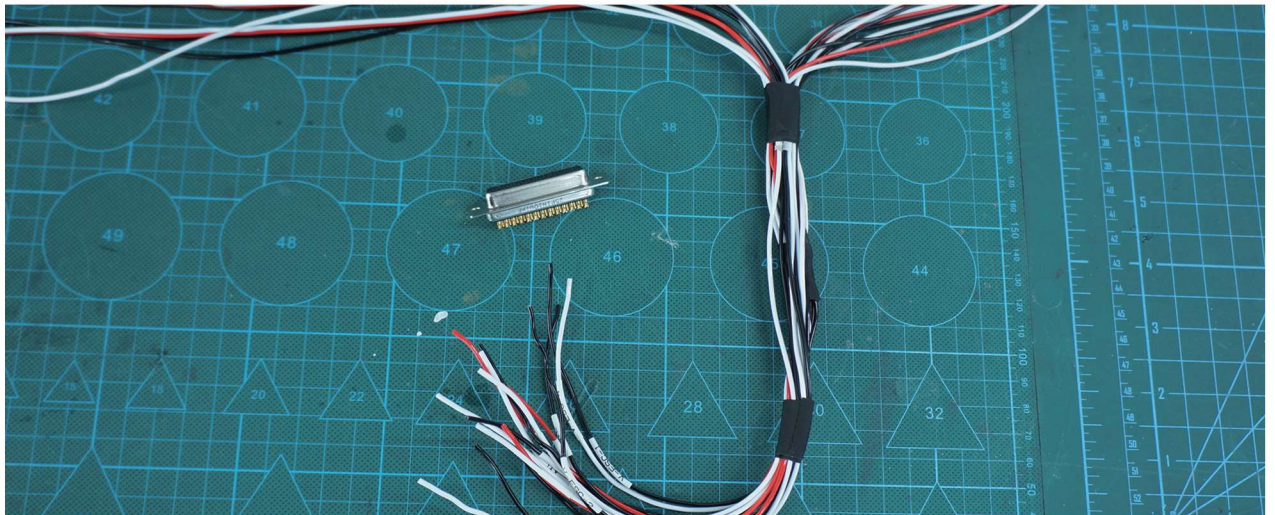
STEP 1 Drill holes for routing wires and mount the power distribution board.



STEP 2 Pay attention not to damage center structural rib support.



STEP 3 Mark the function of each wire before soldering to DSub connector.



STEP 4 Route the wiring through the center wing before soldering DSub connectors.



STEP 5 For a tidy appearance place heat shrink over wires before soldering to Dsub connectors.



STEP 6 Pay attention not to reverse the polarity of the positive and ground wires.



STEP 7 Verify proper wiring to Dsubs by checking with a multi meter before finalizing and installing Dsub connectors with rivets.





Fuselage Installation

- 1 Motor, ESC, and Pitot Tubes will need to have holes drilled by the build team.



- 2 Before drilling holes mark proper position for all placements.



3

Tip: When drilling the hole for the pitot tube, place mount inside fuselage a drill from inside to the outside.



4

Attach pitot tubes screw on mount to the outside nose of the airframe.



- 5 Pay attention to proper wire connections and ensure not to reverse polarize esc.



- 6 Check for proper wire connection with a multi meter before finalizing the installations.



7

After installation is finalized test all wiring with a multi meter. Once wiring has been verified as being correct, connect power and calibrate ESCs.

