

INSTRUCTION MANUAL



Kestrel

RADIO CONTROLLED GLIDER

Kestrel is designed as a sailplane for thermal flying or as an electric powered glider for gentle flying sessions, makes an ideal trainer for beginners. Strong airframe is built using selected balsa & ply wood. Before flying choose a safe flying place free of obstacles. Do not fly near people or near to electric poles.

Pay special attention to this symbol!



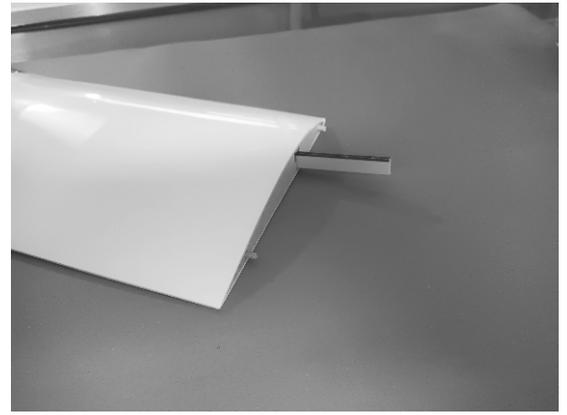
IMPORTANT

Specifications

- Wing Span: 1520mm
- Length: 930mm
- Flying Weight: 750-800 Grams
- Motor Required: 2212 W/30A ESC

FINAL ASSEMBLY

Mix epoxy and spread on half portion of Dihedral Brace, insert brace in wing slot, make sure the center line mark on dihedral brace is barely visible. Epoxy dowels immersed half way through W-1 rib. When Epoxy is dry move to next step.



IMPORTANT

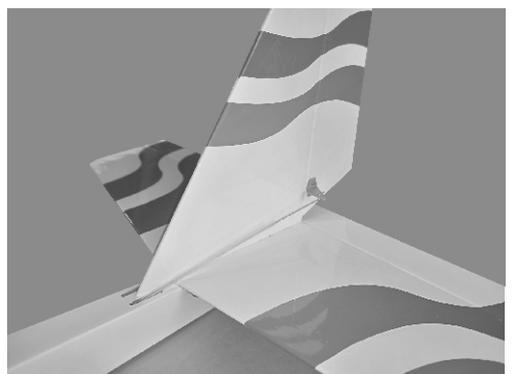
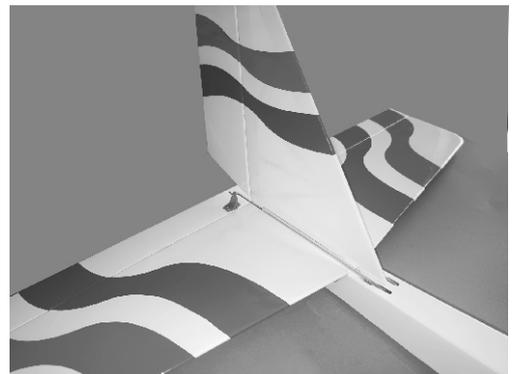
Spread epoxy liberally on center section rib "W-1" of both wing panels, dowels and dihedral brace. Carefully join two wing panels ensuring dihedral brace and dowels enter in their respective locations. Apply sufficient epoxy for a strong center section joint. Clean excess epoxy with alcohol. Retain two wing panels together with masking tape applied in the center.



Epoxy stabilizer & rudder in their respective slots.

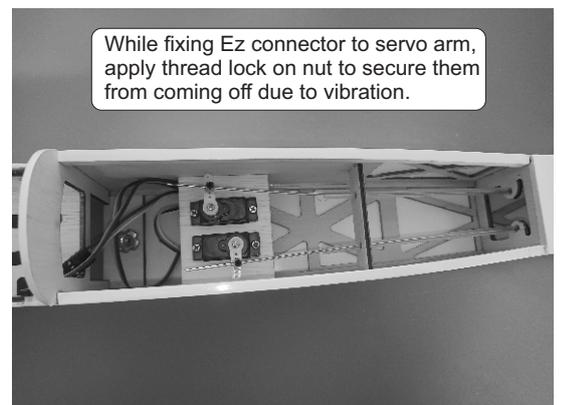


Pass Z bend side of pushrods through control horn, insert the pushrod in plastic tube and fix control horns to rudder & stabilizer with screws..

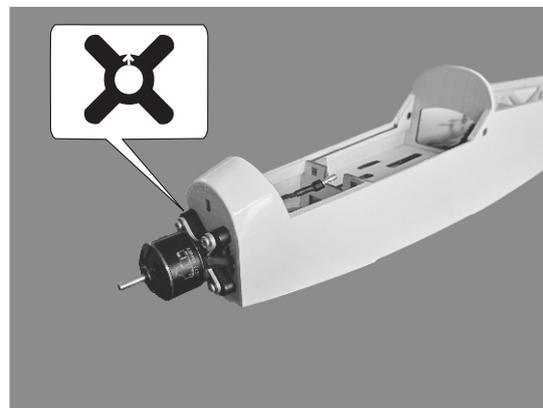


Fix rudder & elevator servos in fuselage with screws. Fix Ez connectors on horns. Pass steel pushrod through Ez connector, keep rudder & elevator in neutral position before tightening Ez connector screws.

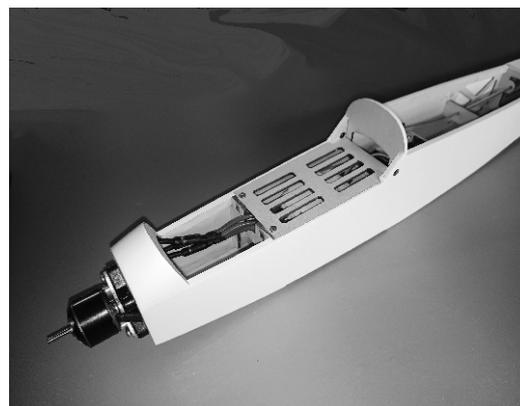
While fixing Ez connector to servo arm, apply thread lock on nut to secure them from coming off due to vibration.



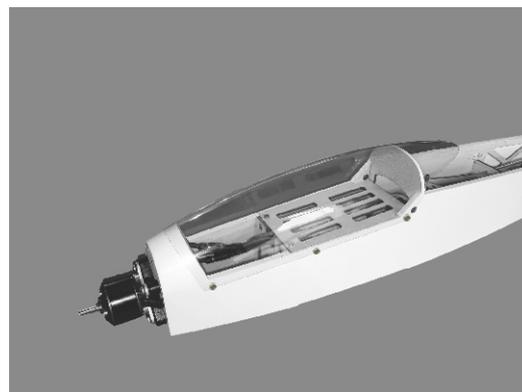
Fix motor on the firewall former with shim placed in between for right thrust. Keep the arrow marked on shim upwards.



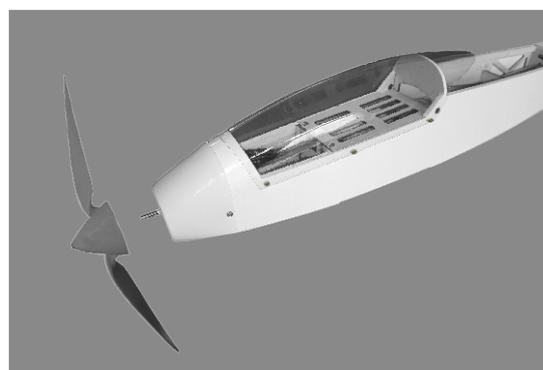
Remove ESC compartment cover screws and attach ESC wires to motor, route battery connector to battery compartment attach receiver lead of Esc to receiver. Fix Esc compartment cover with screws.



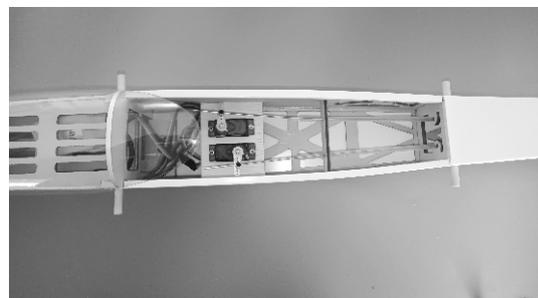
Use a scissor to cut canopy along the cutting lines marked. Drill holes in the canopy. Canopy is fixed to fuselage with six screws.



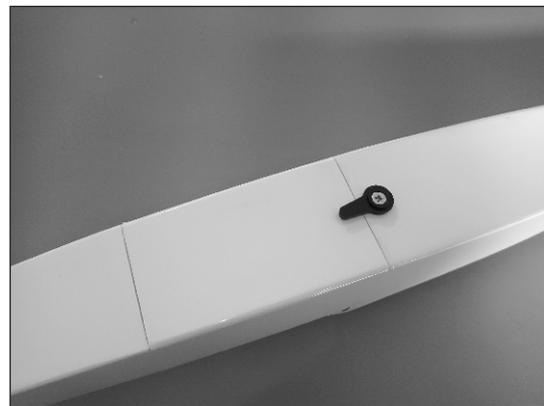
Cut cowling to size & fix to fuselage with screws. Fix propeller on the motor.



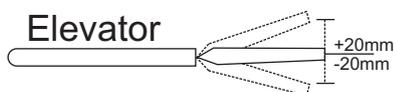
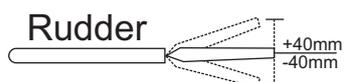
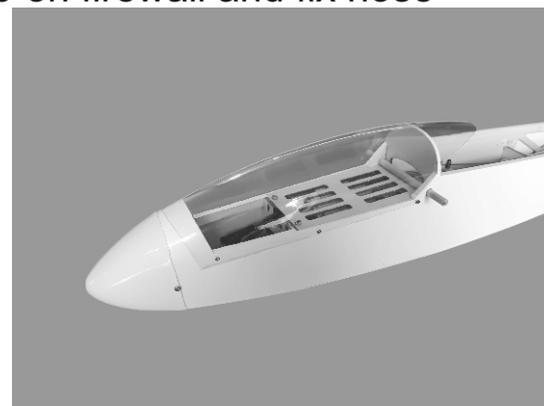
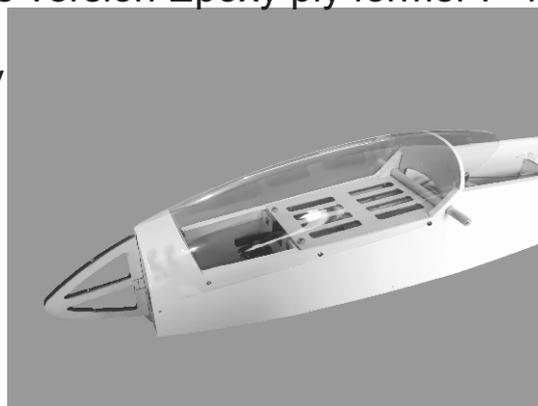
Fix dowels in fuselage.



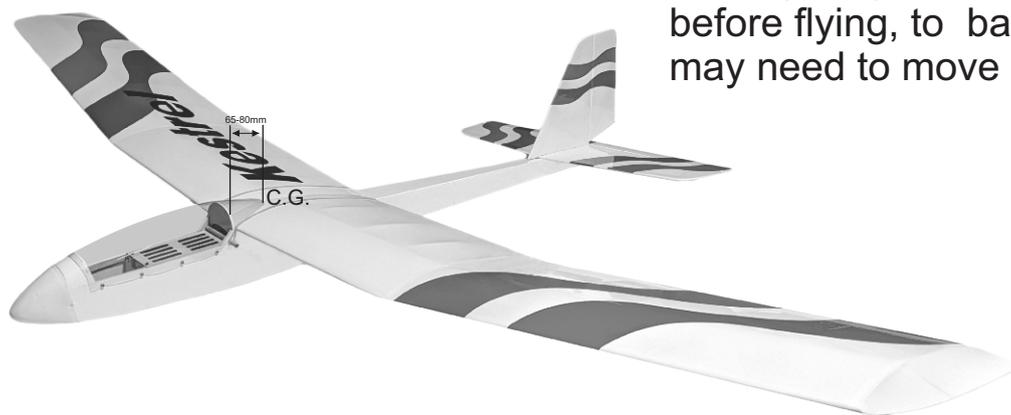
Apply Velcro tape to battery and battery compartment. Secure battery in the battery compartment. Before flying connect battery connector to the ESC connector and close the hatch.



If you opt for sailplane version Epoxy ply former F-19 on firewall and fix nose cowling with screws balance the model by placing nose weight in the nose compartment.



Adjust control throws as shown. These throws are good for general flying. Later you may adjust throws according to your personal preference.



The C.G. range is 65-80mm behind the leading edge of wing. Check the C.G. before flying, to balance the model you may need to move battery to & fro.

PRECAUTIONS:

- Always remove li-po battery from the plan. Do not operate the model with low transmitter batteries.
- While charging li-po battery, follow all safety instructions. Careless handling may lead to fire hazards.
- Once flight battery is installed, be careful to keep throttle stick to low position, any accidental movement of throttle stick may cause injuries.
- While fixing Ez connectors, always apply thread lock on the retaining nut, so that these do not come-off due to vibration.