

INSTRUCTION MANUAL

Navigator



Thanks for purchasing Navigator ARF model aeroplane and welcome to the exciting hobby of flying model aeroplanes. Navigator is an advanced trainer with symmetrical air-foil wing, that makes flying comfortable in calm conditions as well as in windy conditions.

Assemble the model by following step-by-step instructions of the manual, paying special attention where the **⚠ IMPORTANT** sign appears. Ensure all flying surfaces are true and square. A precisely assembled model shall make flawless flying possible. Two Types of glues are required for assembly:

(a) Two Parts Clear Epoxy: Mentioned as Epoxy

(b) Cyanoacrylate (Medium Viscosity): Mentioned as CA in the Instruction Book.

Pay special attention to this symbol!

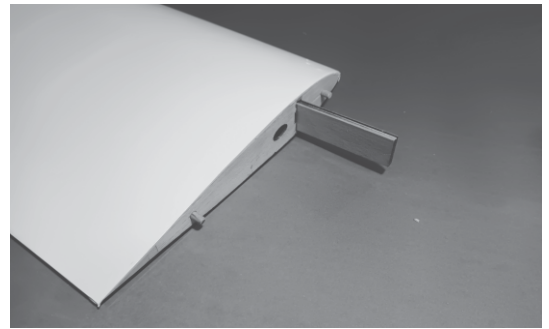


Specifications:

- Wing Span: 1500 mm
- Wing Area: 36dm²
- Wing Loading: ca.42g/dm²
- Length: 960mm
- Flying Weight: 1400-1500 Grams
- Motor Required:C3542-05 ESC: 50Amp.
- Battery: 3s2200mAh-3s/3700mAh

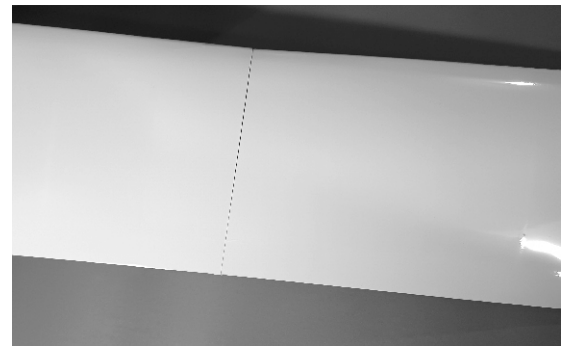
FINAL ASSEMBLY

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

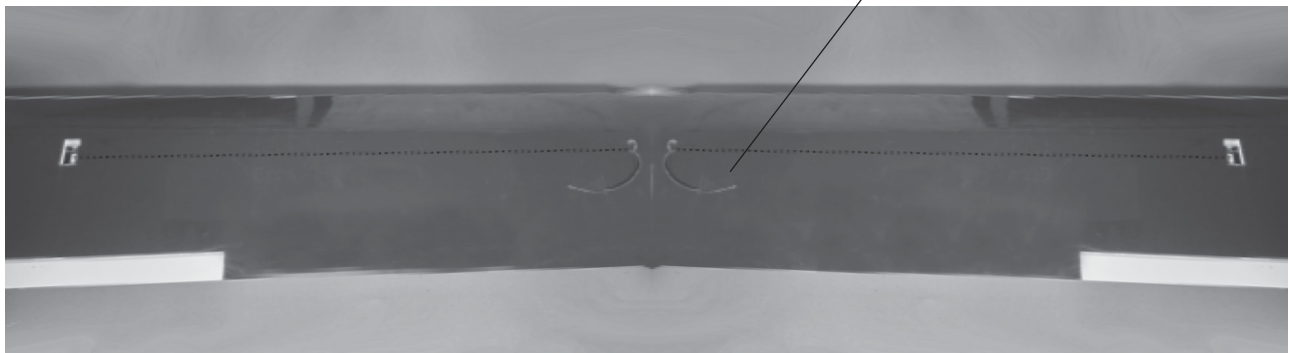


IMPORTANT

Mix epoxy, spread 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 into 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.



Aileron Servo Lead

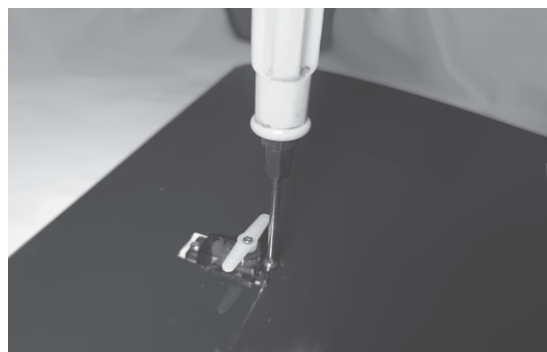


Servo lead pull thread is already installed in each wing panel. Attach lead thread to servo wire, and carefully pull servo extension wire through the wing.

Secure with shrinking sleeve

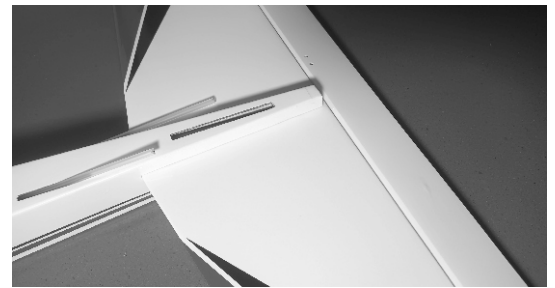
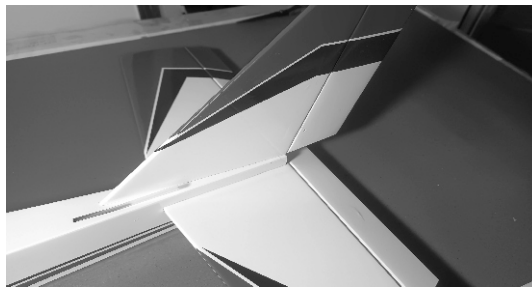


Fix aileron servo with screws to servo mount on each wing panel. Fix Ez connector in servo arm. Fix control horn on aileron with screws. Install pushrod wire passing Z Bend through control horn at one end and Ez connector at the other end. Tighten Ez connector screw with aileron at neutral position.

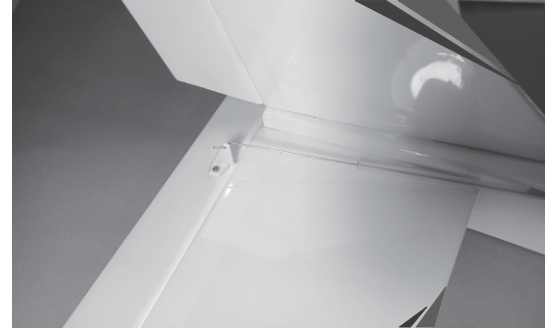
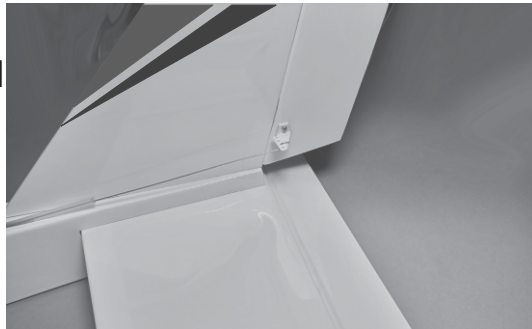


Tighten Ez connector screw with aileron at neutral position.

Epoxy rudder and stabilizer in their appropriate slots. Make sure these are at 90° to each other.

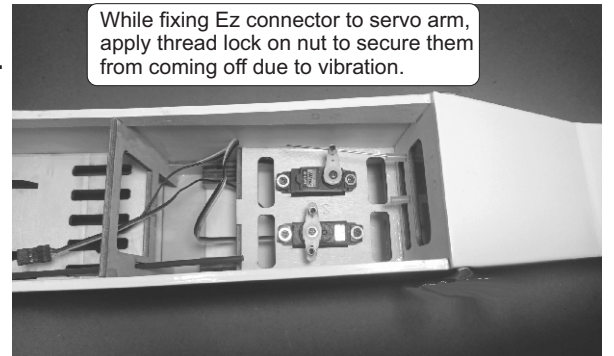


Pass Z bend side of pushrods through control horn, insert the pushrod in plastic tube and fix control horns to rudder & stabilizer with screws.

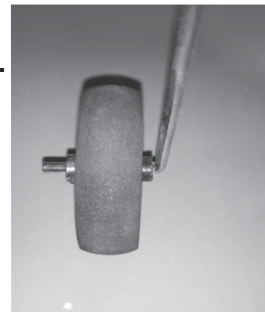


Fix rudder & elevator servos in fuselage with screws. Fix Ez connectors on horns. Link elevator pushrod with Z bend side inserted in elevator control horn and the other side of pushrod attached to servo through Ez connector. Keep elevator in neutral position before tightening Ez connector screw.

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

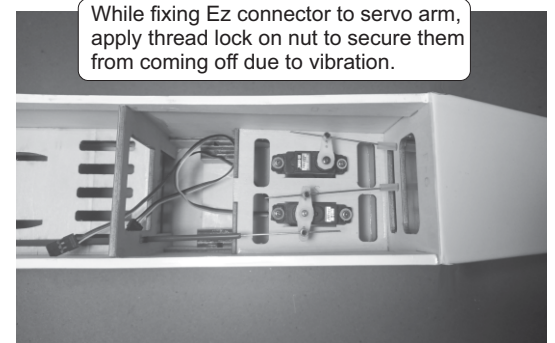


Fix nose wheel with wheel collars on either side. (CA plastic wheel collar on inner side and metal wheel collar on the outer side) Insert L/Gear along with steering arm in the nose Gear Mount. Connect nose gear pushrod to rudder servo arm with keeper.

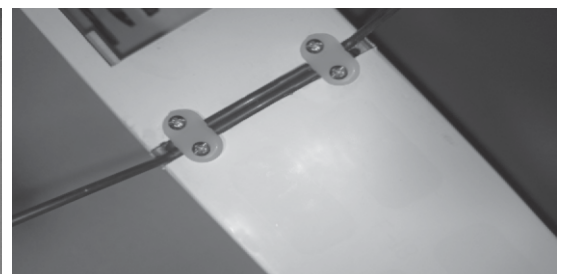
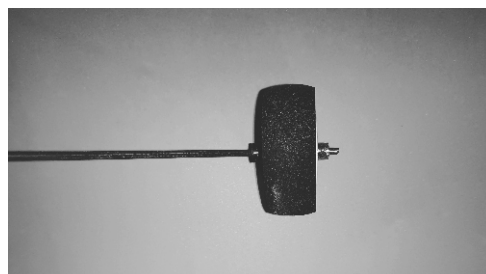


Link rudder pushrod to control surface, with Z bend of pushrod inserted in Rudder Control Horn and other end fixed through Ez connector with rudder in neutral position.

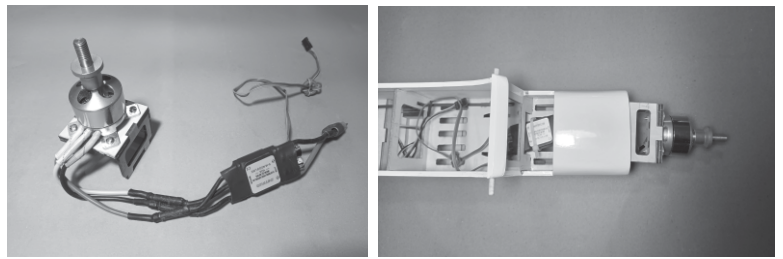
While fixing Ez connector to servo arm, apply thread lock on nut to secure them from coming off due to vibration.



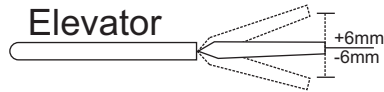
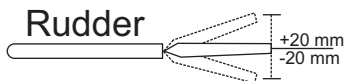
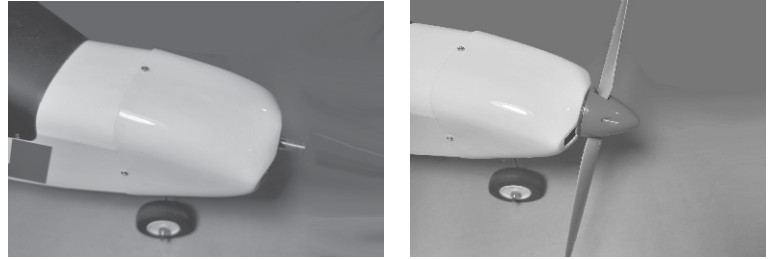
Fix wheels to the main landing gears, retain with wheel collars. Fix landing gears in fuselage slot and screw the landing gear clips in place.



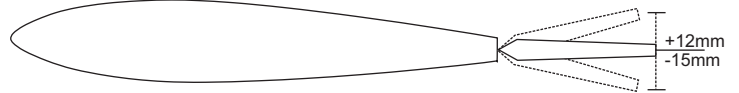
Install motor to motor mount with screws, connect ESC and slide ESC through F-1 in ESC compartment, hold ESC in place with wrap-tie, epoxy motor mount to F-1.



Fix cowling with screws, allow right thrust adjustment at front of cowl. Next Fix spinner and propellor.

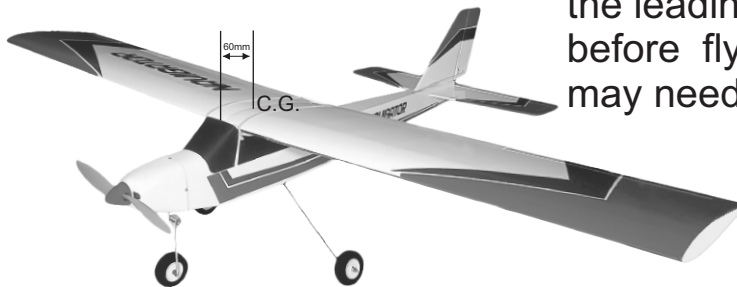


Aileron



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

⚠ IMPORTANT



The ideal C.G. position is 60mm behind the leading edge of wing. Check the C.G. before flying, to balance the model you may need to move battery to & fro.

Apply hook & loop tape to battery and battery compartment. Secure battery in battery compartment with hook and loop strap. Before flying connect battery connector to the ESC connector and close the hatch.



⚠ IMPORTANT Radio Controlled Model airplanes are not toys. Before flying choose a safe flying place free of obstacles. Do not fly near people or near to electric poles. If you are a new entrant to hobby, take assistance from some senior flyers. Always fly the plane keeping safe distance in mind. Remember you are solely responsible for ensuring safe flying.

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 case injuries.
- While fixing Ez connectors, always apply thread lock on the retaining nut, so that these do not come-off due to vibration.