

# INSTRUCTION MANUAL



# RAVEN

Thanks for purchasing Raven ARF model. Raven is a lightweight but strong semi-scale low wing model, flies as a trainer with normal control settings, converts to aerobatic role with increased throws. Comes with pre painted ABS cowling, a clear canopy, set of stickers and all necessary hardware. Wing comes fully assembled in one piece, reducing assembly time. Hinges are factory installed.

## *Specifications*

- Wing Span: 1016mm
- Wing Loading: 6kg/m<sup>2</sup>
- Fuselage length: 1048mm
- Flying Weight: 1080g
- Motor required: 2834-910 Brushless Motor
- ESC: 40 Amps
- Battery: 3s 1800-2200 MAH Lipo

# FINAL ASSEMBLY

1- Epoxy Rudder and Elevator in fuselage and install control horns on rudder and elevator. Insert Z Bend end of steel pushrod in control horn and slide the remaining pushrod through Plastic tubes installed in fuselage.



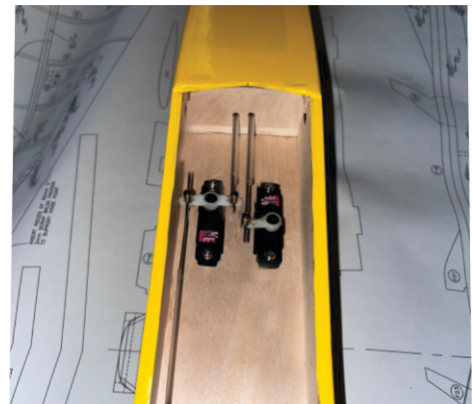
2- Add rudder and elevator servos and receiver.



4- Fit the nose leg, steering wire & steering arm in nose block.



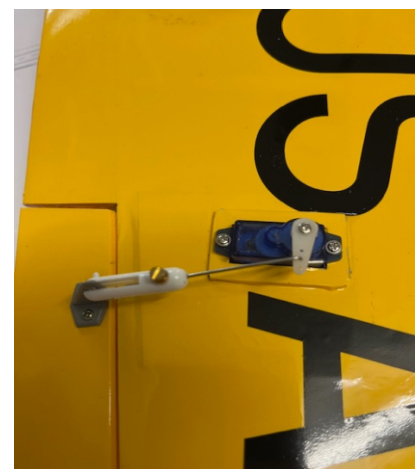
3- Fix E z connectors and centralise the servo horns in neutral position with servos activated. The rudder, elevator and steering should be in neutral position. Apply thread lock to E Z Connector nuts so these don't come off due to vibration.



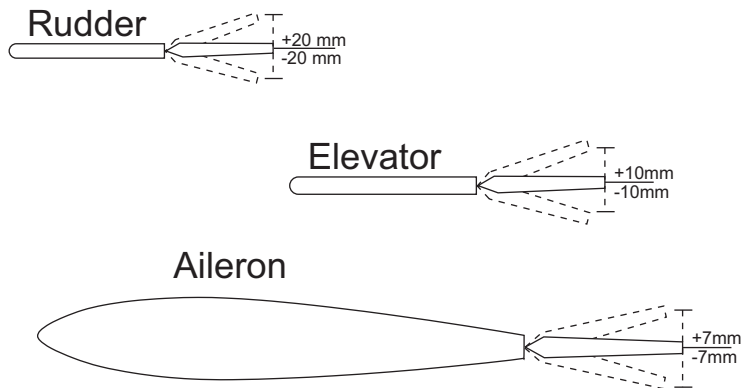
5- 3mm holes are pre-drilled drilled in UC mount. Main Undercarriage is held and secured in place with saddle clamps and screws.



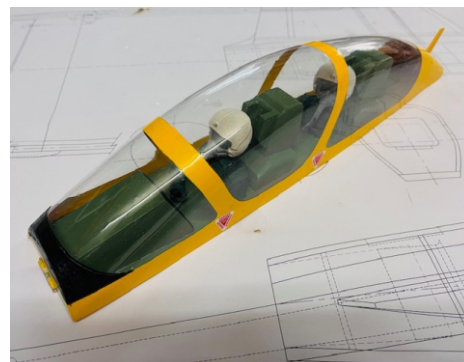
6- Fix the aileron pushrods as shown, with Z Bend on servo side and nipple link on the horn side.



7- Adjust throws on control surfaces as below:



8- Glue canopy to the edge of canopy base after any further internal detailing. Apply black sticker on front of canopy as shown.



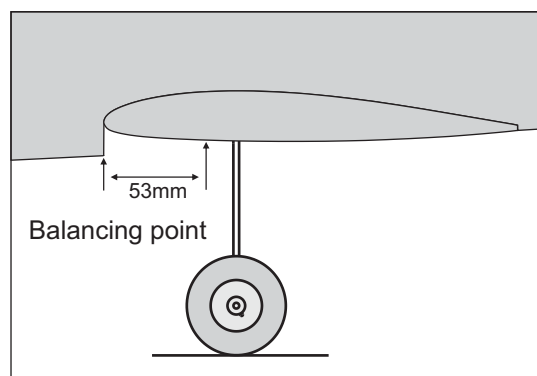
9- Cut and apply all stickers as shown.

10- Epoxy winglet to wing tip ensuring proper Alignment.



## Flying Notes:

The Balance point is 53mm from L.Edge at the center section ribs. Balance by adjusted the battery pack to and fro. Balancing point is critical and should not be deviated.



The model is quite light in weight and should only be flown when wind conditions are between 0-10 Knotts.

Model should be trimmed at half power for level flight.

The model will have sufficient power to take off from short grass. Use full power to take off and use rudder to keep the model tracking straight.

When flying speed has been achieved, apply elevator and the model should gently rise off the ground.

Gain height and throttle back to about half power and then trim the model for a level flight.

The model will have sufficient power to carry out mild aerobatics.

Landing will need a small amount of power to keep the model stable and controllable.

We do hope you Enjoy flying your PC Raven.