

# BIGHORN



OMP Hobby 49" Bighorn is a sport RC model airplane built in the traditional way: balsa and film cover. The airplane features light yet strong structure, and abundant power, making the airplane easy to fly and capable of a lot of advanced aerobatics, such as hover. The big wheels provide enough clearance for easy takeoff and landing on grass field. Flaps (if equipped) of the airplane makes it ideal for short field takeoff and landing, and air brake in crow configuration.

The optional 49" Bighorn receiver ready version is an almost completed finished kit in factory. Motor, ESC, servos, Ailerons, flaps, elevator, are all installed. Landing gear is preassembled. Propeller is included in the kit. It takes no more than an hour to put the kit together and ready for the sky.

Wingspan 49 in (1250mm)	Length 41 in (1040mm)	CG: 58 - 66mm from the leading edge of main wings
Wing Area: 27.4dm <sup>2</sup> or 425 square inches	Wing Loading: 49.7~51.5g/dm <sup>2</sup>	Flying Weight: 1365~1410g
Motor: Sunnysky X2820 1100KV Outrunner	ESC: 40A	Battery: 3S 11.1V LiPo, 2200~3000mAh
Propeller: SunnySky Eolo 12x6.5" electric propeller	Servos: 6 (flap version) or 4 (non-flap version) of 17g OMPHOBBY metal gear digital servos.	Flight time: 5~12 minutes

# BIGHORN

Three color schemes available



Package contents (receiver ready version)



1. Fuselage
2. Left half wing
3. Right half wing
4. Horizontal stabilizer
5. Rudder
6. Tube
7. Adhesive Velcro
8. Spinner
9. Link Rods
10. Landing gear
11. Propeller



## Main Features of the Airplane (receiver ready version)



↑  
\*Main landing gear has been assembled in factory.

\*All ball tie rods are preassembled. →

\*All servo horns have already been installed.

\*All ball joints have been installed.

\*Hinge slots are cut in factory.

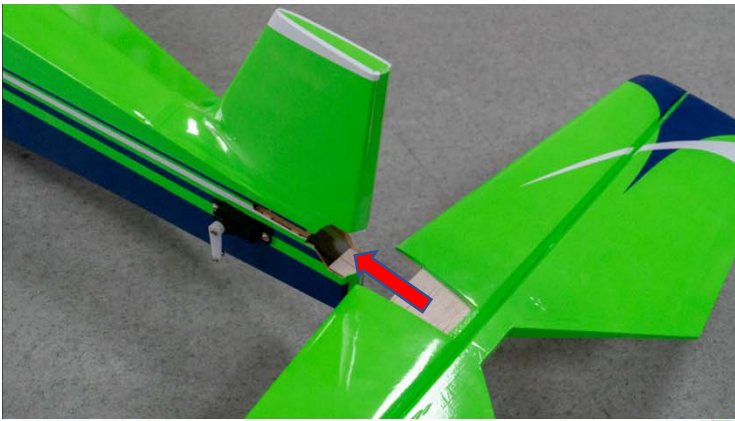


↑  
\*Servo leads taped for easy access.

\*The cowl is installed in factory. →



## Horizontal stabilizer and elevator installation

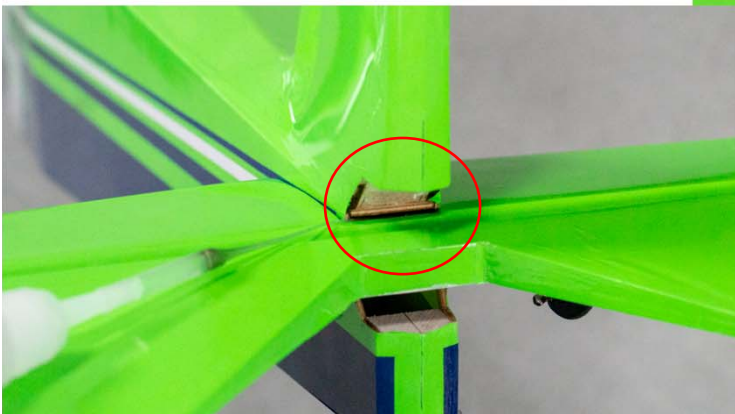


1. Insert the horizontal stabilizer into the fuselage.



2. Insert the carbon tube of main wings into fuselage, to ensure that the horizontal stabilizer is parallel to the carbon tube.

3. Apply CA glue to secure horizontal stabilizer.

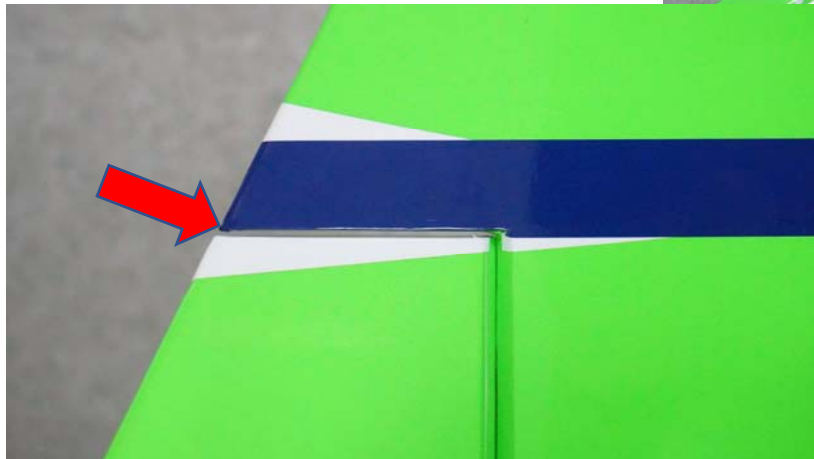
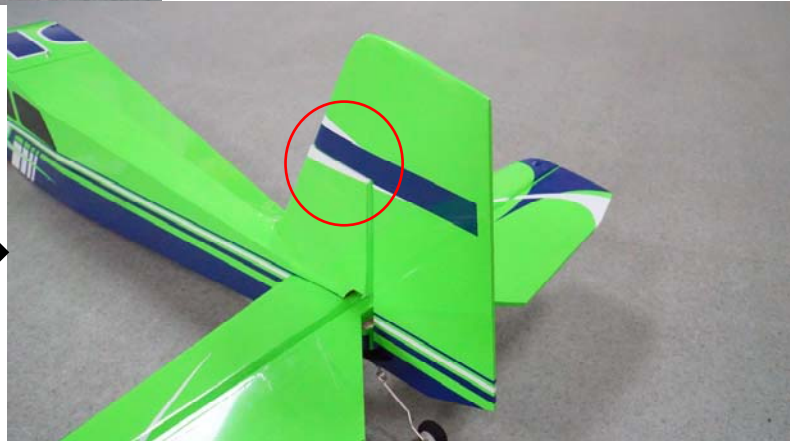




# Rudder Installation

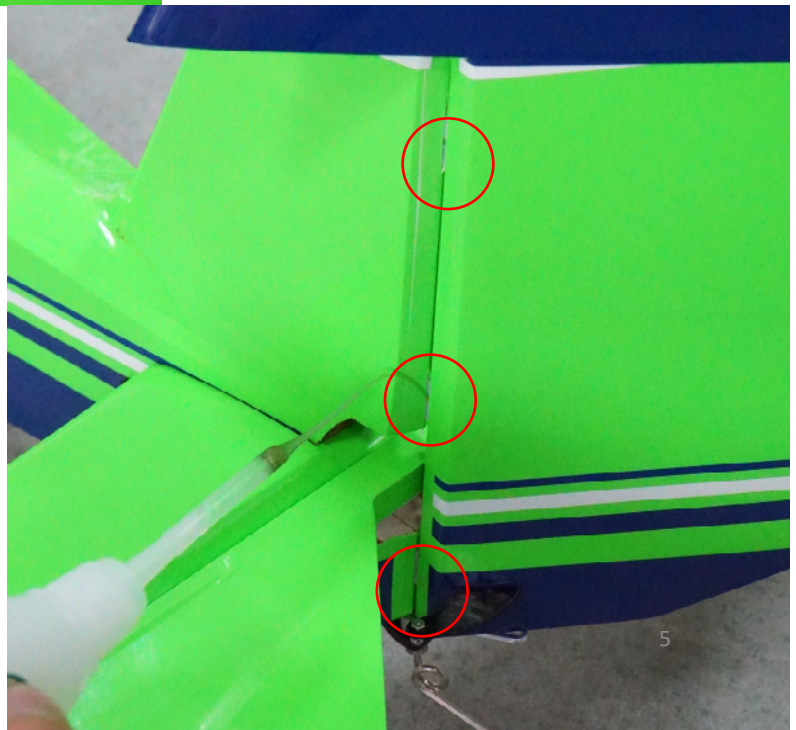


1. Insert rudder hinges into slots in vertical stabilizer.

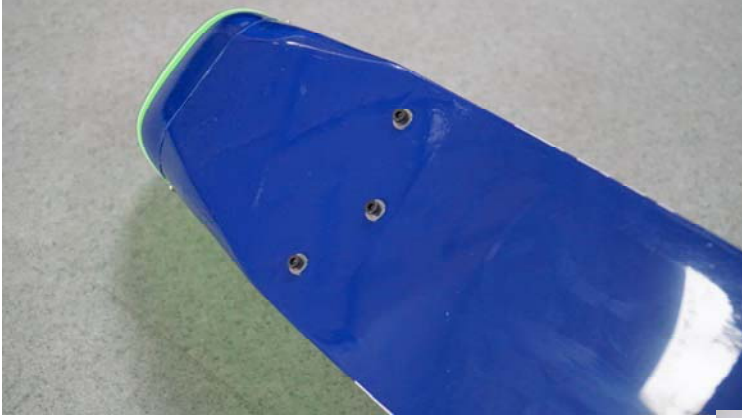


2. Ensure that there is 1 ~ 2mm clearance between fuselage and rudder.

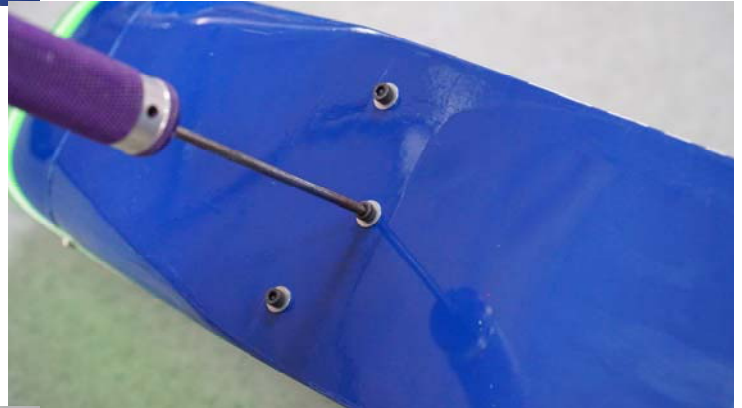
3. Apply thin CA glue to secure the hinges.



# Landing Gear Installation



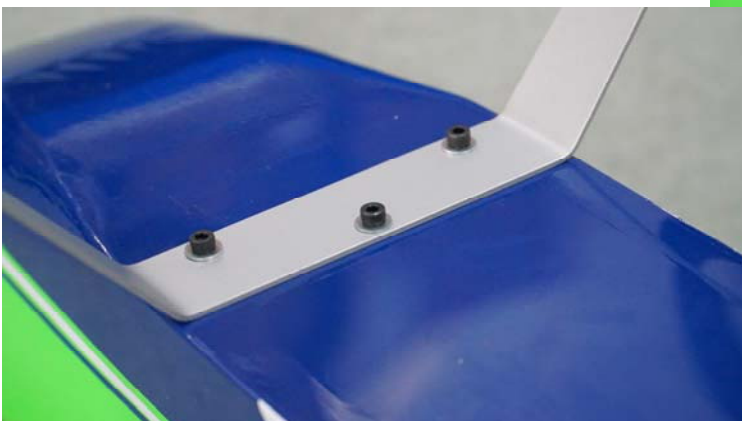
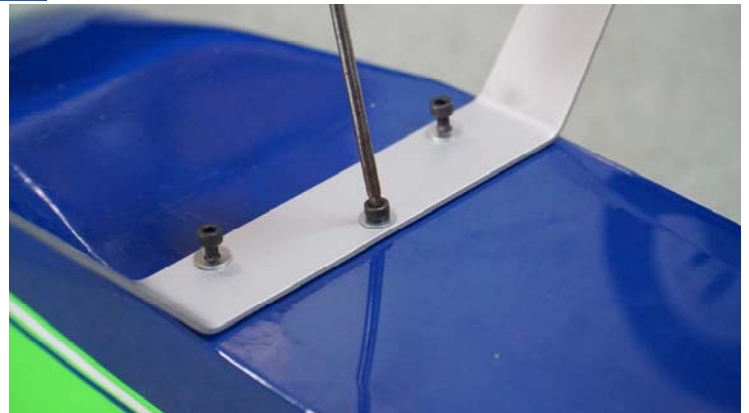
1. The mounting screws of landing gear are installed on the fuselage to prevent missing parts.



2. Take out the screws from the bottom of fuselage with 2.5mm Alan screwdriver.



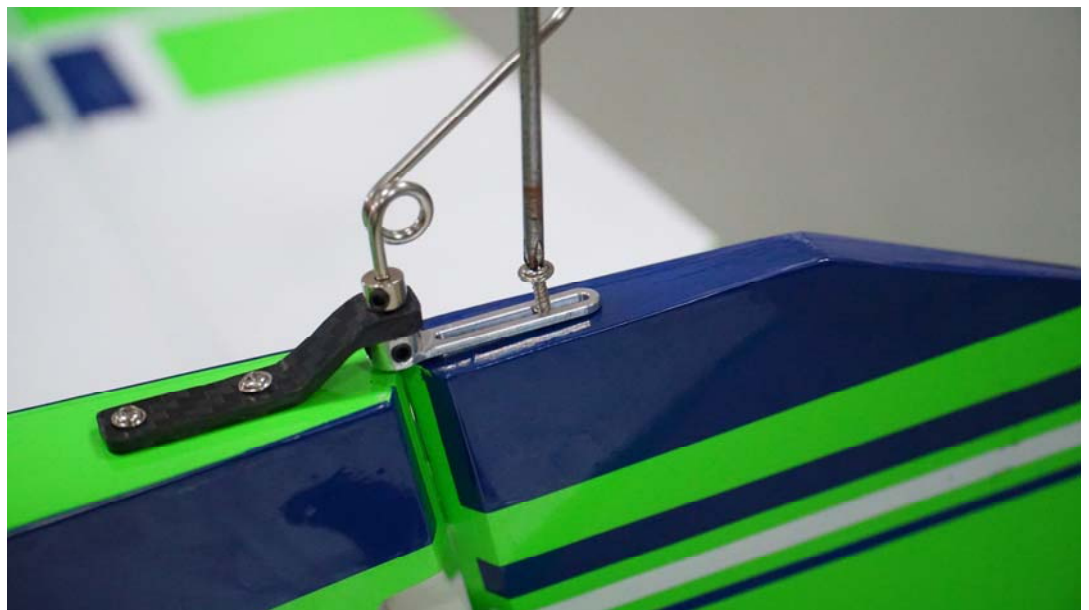
3. Align the landing gear to the hole locations and tighten the three screws. Application of threadlocker is highly recommended.





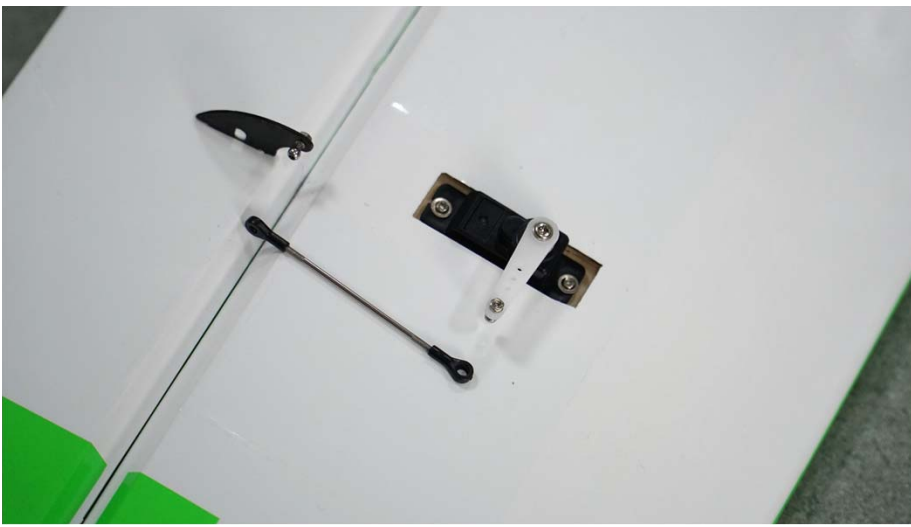
## Installation of Tail Wheel

Align tail wheel assembly to the rear bottom of fuselage as shown in the photos. Make sure the gear is centered and pivot is aligned to rudder hinges. Install screws at locations as shown in the photos.





## Installation of Servo Link Rods

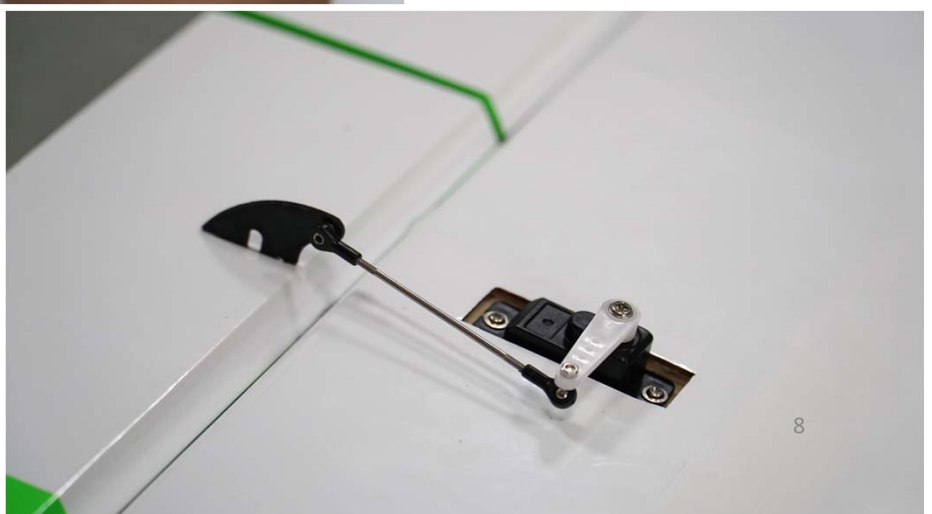


1. Servo horns are installed at center position in factory. Hook servos to a receiver to check center point if necessary.
2. Level the control surfaces, and set rudder arms at 90 degree positions.

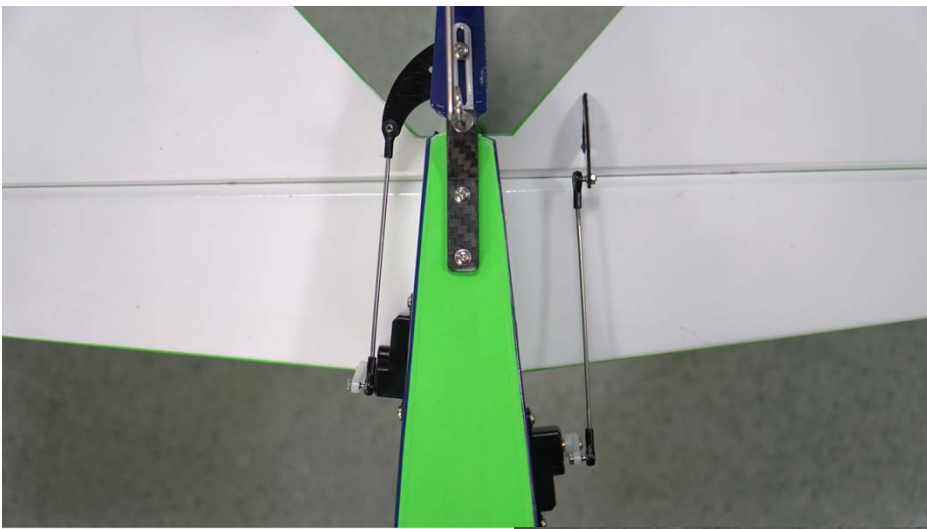


3. Adjust the link rod length by turning the ball joints to appropriate positions.

4. Push the ball joint head to the ball head by using pliers or hand.

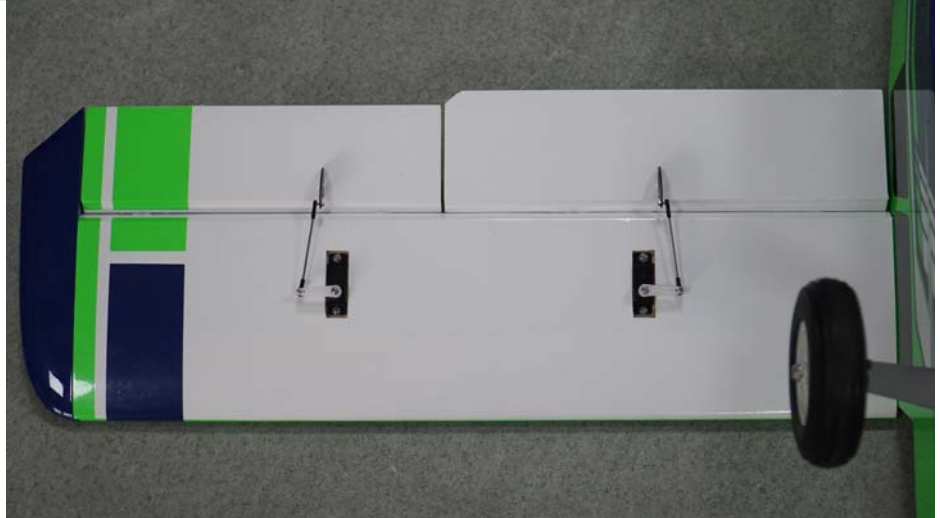






## Installation of Servo Link Rods (continued)

5. Electrify the servos to make sure all the control surfaces are installed in the center positions.



## Installation of Spinner

Installation sequence of spinner parts:  
aluminum alloy base plate →  
propeller → washer → nut →  
spinner → two screws.



# Recommended Settings of Dual Rates and Exponentials of Control Surfaces

	Low rate	Low rate exp	High rate	High rate exp
Ailerons	60	40%	100	40%
Elevator	50	30%	100	30%
Rudder	60	30%	100	30%
Flaps	80	~	100	~



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### Disclaimer and Safety

- This product is not a toy. It is not recommended for children under age 14.
- Fly the airplane by abiding by local laws and rules.
- Fly the airplane in a designated location, and always maintain visual contact of the aircraft.
- Avoid flying directly over unprotected people, moving vehicles, and occupied structures.
- Read the safe code of AMA before flight. The guideline can be downloaded from the following [link: www.modelaircraft.org/files/100.pdf](http://www.modelaircraft.org/files/100.pdf)