OMPHOBBY®

Global Professional RC Model Brand



Installation Manual

OMPHOBBY 60” 70E Edge 540 Kevlar Reinforced
Balsa Airplane

Zhuhai Edge Smart Drive Technology Co., Ltd.
www.omphobby.com

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OMPHobby 60” Balsa Airplane



OMPHobby 60” 70E EDGE 540, not only has the low speed stability, low stall point, excellent 3D performance, but also very fast roll rate of traditional EDGE, and precise navigation control. The traditional securing method of the motor base and the landing skid base have been changed, preventing the loosening of the anti-grasping nut. Wing, wing fence, new quick disassembly design, significantly reduced the installation time. The horizontal tail and the fuselage are connected by a slot Securing design, which increases the strength of the horizontal tail and makes the installation more accurate and convenient. Each aircraft has a metal nameplate with a unique serial number.

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OMPHobby 60” Balsa Airplane

Parameter Specification

Item:	**OMPHOBBY 60”EDGE 540**	Color Option	**Green-Black** **Red-White** **Yellow-White** **Orange-White**
WingSpan:	**1524mm(61in)**	Full Length:	**1500mm(60in)**
Flight Weight:	**2.75~2.85KG**	The Center of Gravity (CG):	**Approx.86-95mm**
Wing Area:	**42.32dm²**	Wing Load:	**64.98~67.34g/dm²**
Wing Angle of Incidence:	**0°**	Motor Thrust Angles:	**Down 0° & Right 2.8°**
Pack Dimension	**130*44*22 (L*H*W)cm**	Gross Weight:	**10KG**

Servo: **13~15 Kg.cm*4 (Aileron*2,Elevator*1, Rudder*1)**

Electric Power (Recommended):

	Option 1:	Option2:
Motor:	**X4120 550KV**	**4125 515KV**
ESC:	**80-100A**	**100A**
Propeller:	**Eolo 15x8**	**Eolo 16x8**
Lipos:	**6s 3300mah-4000mah**	**6s 3300mah-4000mah**





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➢ Package contents (ARF version)



Fuselage	Cowl	Left & Right Wings	Horizontal Tail	Rudder	Wing Tips
					
Wheel Cowling	Spinner	Landing Gear Fairings	Wing Tube	Fastening Strap	Landing gear cover plate
					
Rudder Hardware	Extra Hardware	Rubber Coil	Wing Hardware	Wheels	Cowl Hardware
					
Tail wheel landing gear Hardware	Elevator Hardware	Landing Gear Hardware	Rocker Arm Hardware	Hinges	Decal Sticker
					

➢ Tools and Gear needed



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Cowl and Engine Assembly





- **Motor Installation**

1. Unscrew socket head screws from the head plate of fuselage.
2. Put the screws into motor mount and put aluminum columns to the other side of screws.
3. Apply glue to the screws and install motor to motor holder.









- **ESC Installation**

1. Attach the connected ESC to ESC holder with double-sided tape and Secure with cable ties.
2. Tie the wires of ESC and motor with fastening strap.











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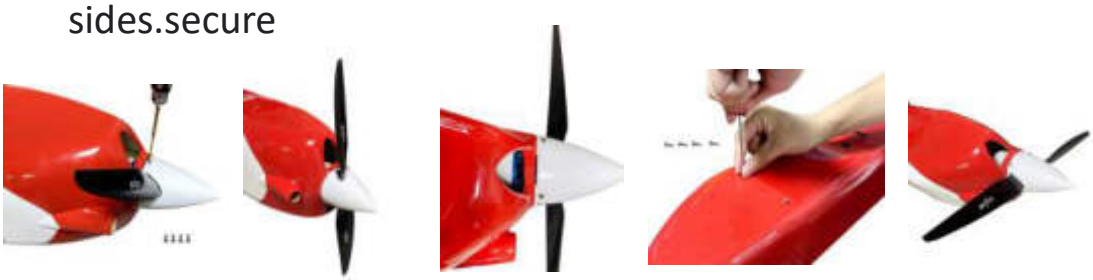
Cowl Part Assembly

- **Cowl , Propeller, Spinner Installation**

1. Install cowl to fuselage (please take note that motor must be in center position)
2. Remove the propeller spinner adapter and screw gasket, install the aluminum spinner back-plate, propeller, propeller spinner adapter and screw gasket in succession.



3. Secure the spinner with screws, please pay attention that spinner must be located in the centre position of the cowl, and spinner edge is parallel to the cowl, gap is about 1.5mm.
4. Secure the cowl with screws, two screws for each of two sides.secure



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Landing gear Assembly

➢ Landing Gear Installation

1. Unscrew hexagon screws on the landing gear plate.
2. Apply glue to hexagon screws, use it to secure the carbon fiber landing gear to landing gear plate.
3. Put landing gear cover plate into a slot and stick it with transparent tape.










4. Install landing gear cuffs, Secure it with electrical tape.




5. Install wheels, Secure wheels with gasket and screw. (Apply glue to screws)







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Landing gear Assembly

6. Install wheel cowls, tighten screws.





Tail wheel Assembly

➢ **Tail Wheel Installation**

1. Find the securing hole of the tail wheel frame, secure the tail wheel bracket with screws.









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Elevator Assembly

➢ Elevator Servo Installation

1. Find a 60-core extension cable on the fuselage, tear off the sticker, then connect it with elevator servo.
2. Find the white polyester thread in the fuselage frame, gently pull it until the servo is placed into the opened servo hole.
3. Run the elevator servo extension wires through the conduit located inside the fuselage and then place the extension wires into frame holes.
4. Secure the servo using the screws.








➢ Horizontal Tail Installation

1. Carefully locate the slot which has been made on horizontal tail, lightly cut through the covering but not into the balsa sheeting.



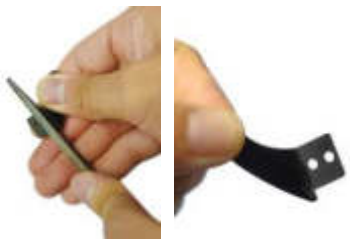



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Elevator Assembly

➢ Horizontal Tail Installation

2. Use sand paper to roughen the root of control arm. Try to insert it into the mounting slot to adjust the position at first, then take it out, apply glue to the slot and the root of the control arm, insert it to the slot to secure it.





3. Remove the secured plate used for filling the horizontal tail slot, insert the horizontal tail into fuselage, please take note that it must be fully inserted into the fuselage.





4. Insert secured plate to fill the horizontal tail slot, use 502 gluing the gap all around the horizontal tail.




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Elevator Assembly

➢ **Horizontal Tail Installation**

5. After the glue is dried, assemble the servo arm and control horn with ball head pull rod, secure the cup head hexagonal screw, gasket, ball head to the servo arm, secure it with iron pliers, adjust the ball head pull rods to proper length.
6. Secure screw, washer, ball head to control horn.
7. Check the angle between the servo arm and control horns. (Make sure the control horn is at 90 degrees against servo.)





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Rudder Assembly

➢ **Rudder Installation**

1. Carefully locate the slot which has been made on the vertical tail, lightly cut through the covering but not into the balsa sheeting.
2. Grind the root of control horns, try it first to insert it into the slot to adjust the position, then take it out, apply glue to the slot and the root of the control horn, insert it to the slot to secure it .



3. Remove 4 hinges which are inserted in the rudder. Inject AB glue into the holes, apply glue to 4 hinges with appropriate length from its bottom,then insert 4 hinges into the rudder.
4. Inject AB glue into the holes in fuselage, apply glue to the other end of hinges with appropriate length, then insert it into fuselage.



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Rudder Assembly

6. Apply grease or engine oil on all joints between rudder and fuselage, and around the hinges, to avoid affecting the sensitivity of rudder after glue dried.
7. Tie rudder with masking tape while glue is still wet to prevent loosening.
8. Make sure the shaft is in the middle position, and keep the gap between rudder and fuselage within 1mm.





9. Find the center position to secure the tail wheel bracket to rudder, drill a hole, secure the tail wheel bracket with screws. (No need to fully screwed in)
10. After the glue is dried, secure the servo arm and control arms with a ball head pull rod.
11. Make sure the angle of servo and control horns is 90° and 180°oblique, ensure rudder is symmetrical to the 2 sides of fuselage.













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Wings Assembly

➢ Aileron Servo Installation

1. Carefully locate the slot which has been made on the wing tail, lightly cut through the covering but not into the balsa sheeting.
2. Use sand paper to roughen the root of control arm. Try to insert it into the mounting slot to adjust the position at first, then take it out, apply glue to the slot and the root of the control arm, insert it to the slot to secure it.



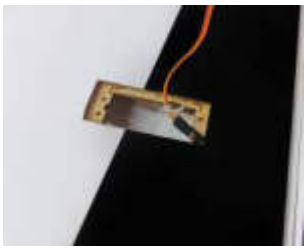






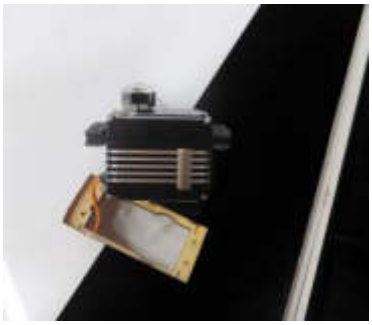

3. Pull out the white polyester thread from the servo hole with tweezers, tie up with aileron servo connector.





4. Find the other head of white polyester thread from wing side, pull it until aileron servo is placed in servo hole.





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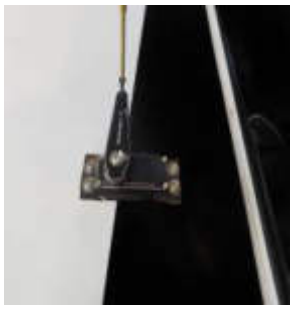
Wings Assembly

5. Remove black rubber ring from the wing side,pass aileron servo wire into the black rubber ring and secure it to the original position.





6. Secure aileron servo arm and control horns with ball head pull rod, put the cup head hexagonal screw, gasket, ball head on servo arm, secure it with iron pliers, adjust the ball head pull rods to proper length.
7. Secure screw, washer, ball head to control arm, control arm is at 90 degrees against servo.
8. Check the degrees between servo arm and control arms.








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Wings Assembly

9. Assemble the wing tube into the fuselage then install wings, turn white screws to secure the wings.





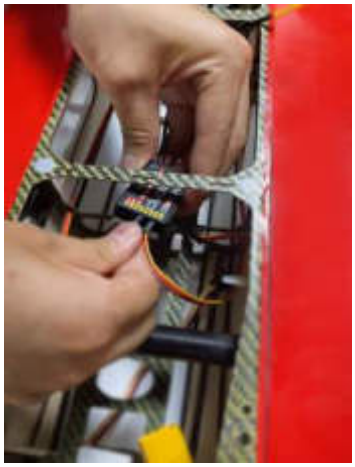
10. Unscrew the retaining screws on the wing, install wingtip.







Connect Receiver and Battery





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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 aircra ft.
- 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 foll owing link: www.modelaircraft.org/files/100.pdf

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