



1200mm Hawker Sea Fury FB11 EPO Warbird

USER MANUAL

Sea Fury Specs

- Length: 1100mm
- Wingspan: 1200mm
- Weight: 2100g
- Servos: 9G servos x10
- Motor: Brushless Motor 3648 Out runner KV600
- ESC: 60amp Brushless Speed Control

Features

- Scale Hawker Sea Fury FB11 EPO Foam Warbird
- Magnetic actuated drop tanks
- Working retractable landing gear and gear doors
- Markings of Royal Navy Pilot Peter "Hoagy" Carmichael

Required

- 4S 14.8V 3300mAh 30C LiPo Battery
- 7 Channel Transmitter and Receiver

- Scale 5 blade propeller
- LED Navigational lights
- No glue required, all bolt together construction

Thank you for purchasing the Avios RC 1200mm Hawk Sea Fury model. We hope you enjoy assembling and flying it as we did creating it. The Hawker Sea Fury was the last propeller driven airplane to serve in the Royal Navy. The outline our model is of the FB11 version, which served well into the 1950s and was used during the Korean War. Modeled in the livery of Commander Peter "Hoagy" Carmichael, the only British pilot to in a piston engine aircraft to down a jet driven airplane during that conflict. The all EPO molded foam replica features functional flaps, retracts with gear doors, LED lights, scale 5-blade propeller, wing mounted rockets, and remotely activated drop tanks. With quality being most important to us here at Avios, each model is individually checked at the factory to make sure it meets stringent quality standards.

Please read the instruction manual thoroughly before assembling and flying this model. It is not a toy and if mistreated has the potential to inflict injury or damage property. It is your responsibility to complete final assembly, setup, and pre-flight checks. Always make sure to check for any loose screws or parts, and that the airframe is free from damage that may cause failure in flight. Avios is not responsible for any injury or property damage inflicted due to negligence in assembly or maintenance.

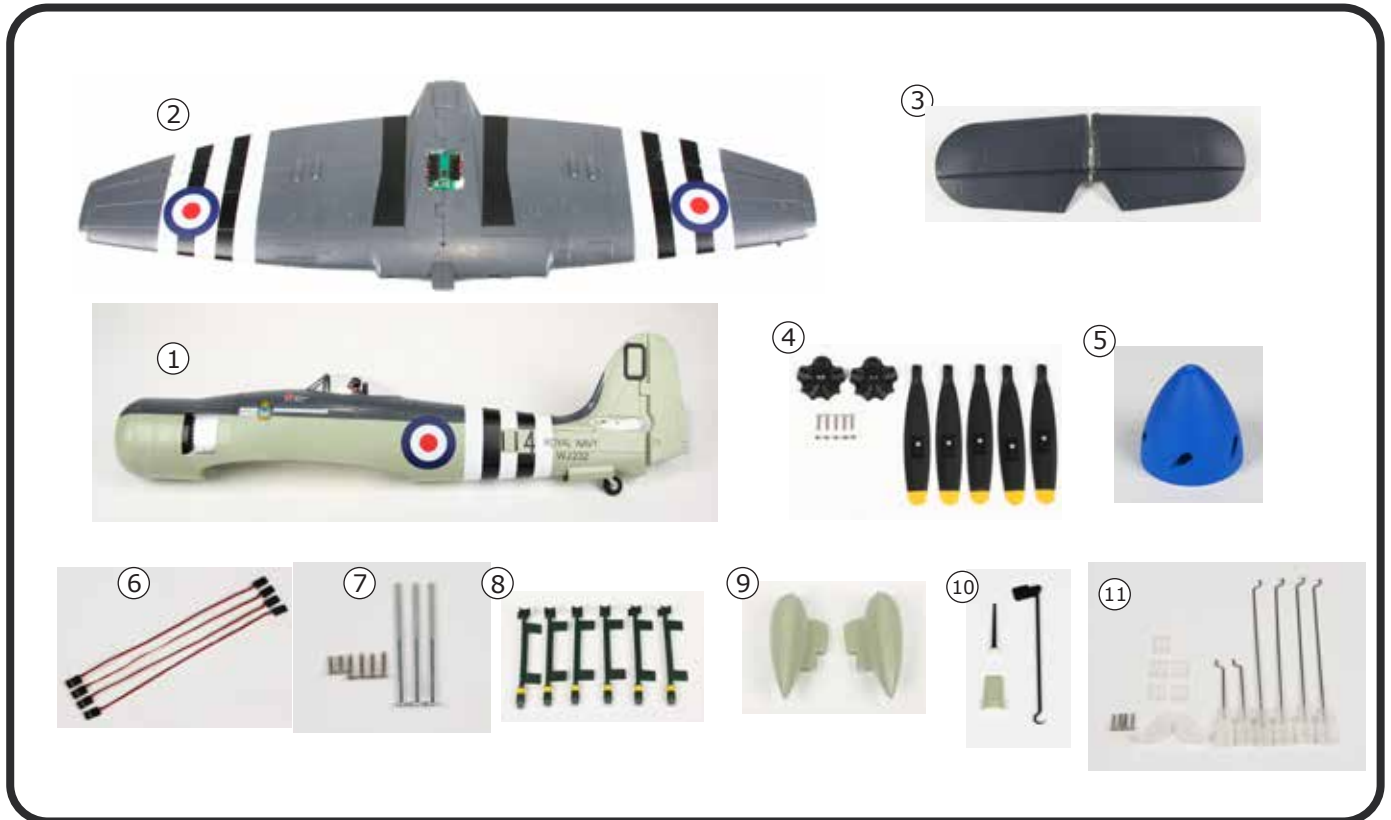
MODEL FLYING PRECAUTIONS:

- Select your flight area carefully. Always choose an open space that is unobstructed from trees and buildings and away from crowded area. Avoid flying in area with roads, electric/telephone poles/wires and water near by or within close proximity to full size air traffic.
- Do not fly this model in poor weather. High winds, low visibility, inclement temperatures, rain and storms are to be avoided.
- Never attempt to catch this model whilst in flight. Even a slow moving model can cause harm to yourself and/others and risks damage to the model.
- This model is recommended for children no younger than 14 years old. All children, not matter what age, should always be supervised by a capable and responsible adult when operating this model.
- Always unplug your model battery when not in use. Never leave the battery installed in the model.
- Please remember to keep clear of the propeller at all times when your flight battery is connected.
- Before flying, always turn on your transmitter first then plug your flight battery into the model.
- After flying, always unplug your battery first then turn off your radio transmitter.
- Exercise caution when charging your batteries and follow in full your battery manufacturers safety guideline when doing so.

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Content of Box:



1. Fuselage

2. Main Wing

3. Horizontal Stabilizer

4. 5-Blade Propeller Set

5. 5-Blade Spinner

6. Wire Set

7. Screw Set

8. Rocket Set

9. Drop Tank Set

10. Scale Accessory Set

11. Control Horn/Pushrod Set

Specification:

Length: 1100mm

Flight weight: 2100g

Wingspan: 1200mm

Servos: 9G servos x 10

Motor: Brushless Motor 3648 Out runner KV600

Battery: 14.8V-3300mAh 30C LiPo Battery

ESC: 60A



ASSEMBLY:

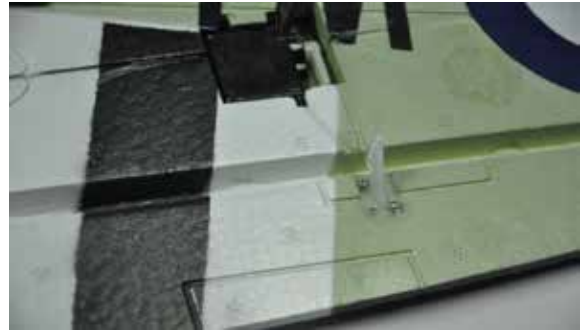
1. Locate the flap control horns and screws. Attach to each flap panel with 2 screws. Repeat for both wing halves. Since the flaps are molded plastic, it is not necessary to attach the small square backing plate included with the control horns.



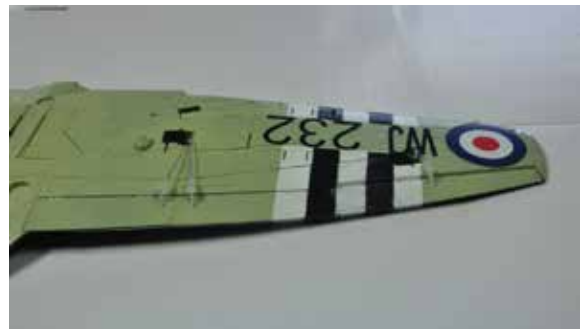
2. Connect the flap control rods to the servo arm and control horns. You may need to enlarge the outer hole in the servo arm to insert both flap control rods. Both control rods should be in the same hole. Repeat for both flaps



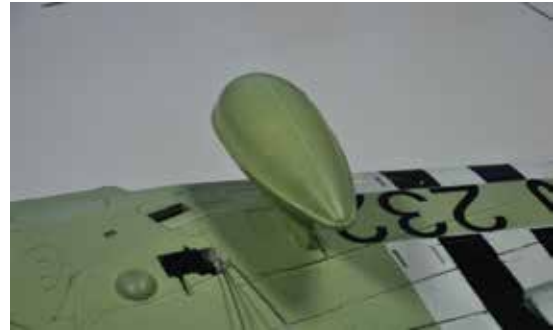
3. Locate aileron hardware bag. Install aileron control horns using two screws per horn. Repeat for both ailerons.



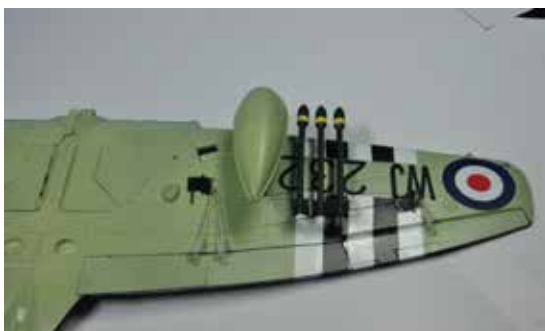
4. Connect aileron control rods to servo arm and control horn. Suggest installing control rod to outer hole on servo and control horn.



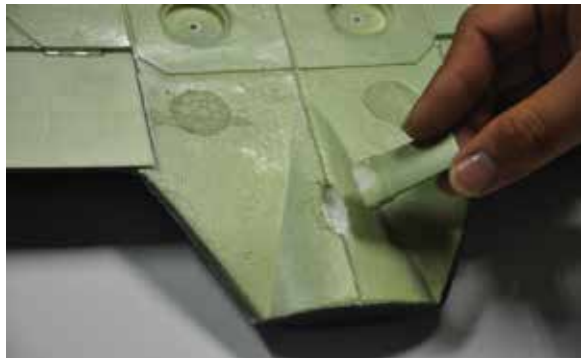
5. To install option drop tanks. Locate the foam insert in outer wing panel. Remove carefully, saving for later if you choose to not use drop tanks. Insert into slot in wing. Drop tanks are magnetically actuated. If the tanks do not firmly seat, the magnetic actuator is in the wrong position. This will be corrected during radio setup.



6. Installing optional rockets. Using foam safe glue, apply a small amount of glue to the rocket as shown in the first photo. Press the rocket into the slots in the wing.



7. Install the scale pitot tube and antenna parts to the wing as shown in the photos. Use a foam safe glue to attach.



8. Locate the elevator control horn bag. Install elevator control horn using the supplied screws.



9. Attached the horizontal stabiliser to the fuselage by first inserting the spar into one stabiliser half. Insert this half into the fuselage. Next insert the other stabiliser half, being careful to line up the elevator joiner in the center.



10. Secure stabiliser halves to the fuselage with supplied machine screws. Connect the elevator and rudder control rods to their respective control horns. You may need to adjust the clevis on the control rod after centering the servos.



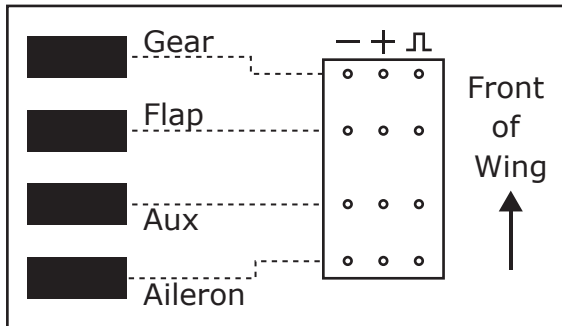
11. Attach the scale tail hook to the aft fuselage using foam safe glue. This accessory can be left off if you fly from grass fields.



12. Attach the wing to the fuselage, securing with the three supplied wing bolts.



13. Connect the male to male servo leads to the PCB board. Refer to the wiring diagram below for connecting to your receiver.



14. Assemble the propeller. Insert each blade into the propeller hub making sure the blades are all assembled in the same direction. Secure the two propeller hub halves with a screw and nylon lock nut in each of the 5 blades.



15. Attach the propeller and spinner to the motor shaft. First install the spinner backplate, then the propeller. The lock nuts on the propeller hub will align into depressions in the spinner backplate. Secure the spinner with a washer and the propeller nut. Attach the spinner by aligning it to the propeller and backplate. Secure with single machine screw at the front.

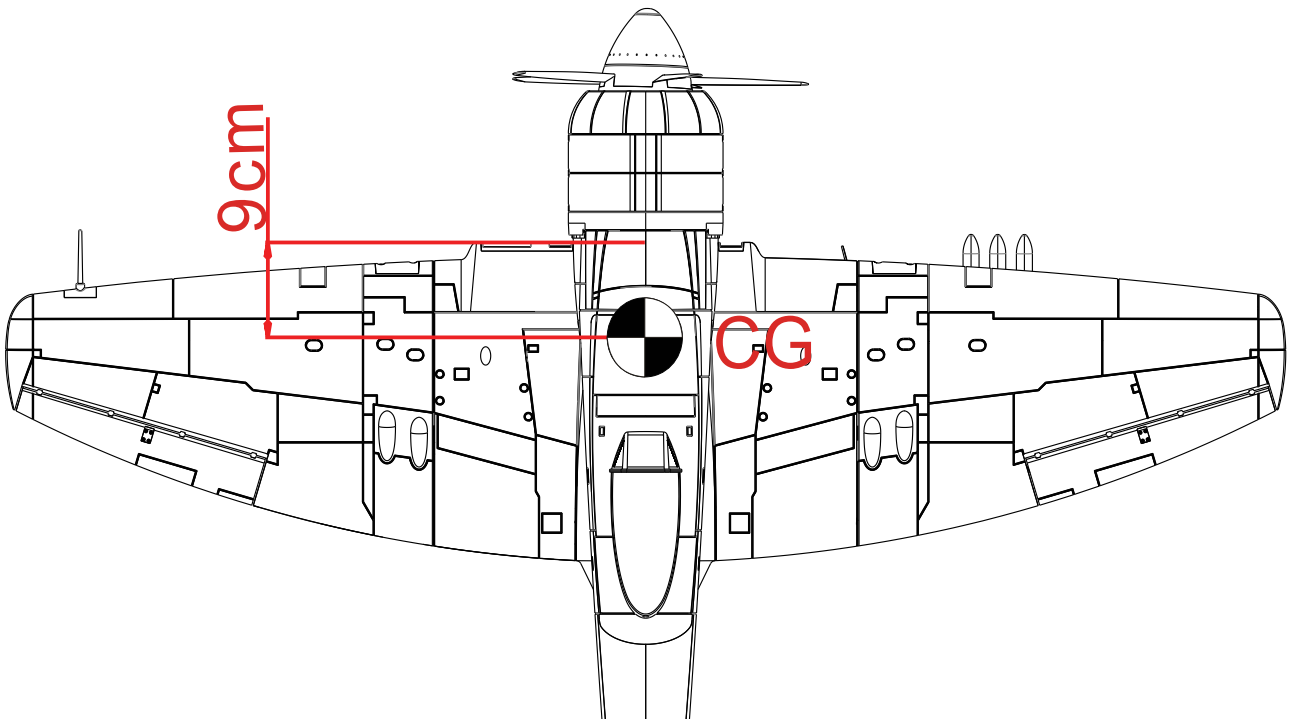


16. Connect the rudder and elevator servo leads to your receiver. Connect the wing servo leads to your receiver. Install the motor pack into the fuselage, securing with Velcro to prevent shifting.

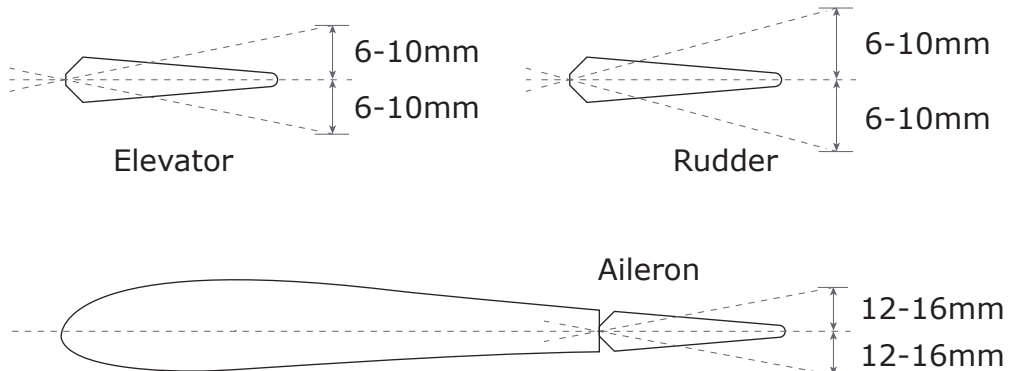


CG LOCATION:


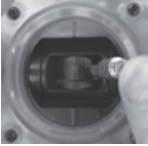


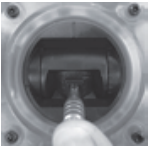







Before flight, check the center of gravity (CG) If the model is found to be nose heavy or tail heavy, the flight battery can be shifted forwards or backwards to achieve the correct balance point. Refer to the drawing below for the correct CG.



Control throws:



- *Elevator 'low rates' 6 mm 'high rates' 10 mm in either direction from neutral.
- *Rudder 'low rates' 8 mm 'high rates' 14 mm in either direction from neutral.
- *Aileron 'low rates' 12 mm 'high rates' 16 mm in either direction from neutral.

 <p>Roll left</p>  <p>Roll right</p>	 	Aileron (Roll)
 <p>Pitch up</p>  <p>Pitch down</p>	 	Elevator (Pitch)
 <p>Yaw left</p>  <p>Yaw right</p>	 	Rudder (Yaw)



SPARE PARTS LISTING:



Fuselage

Part No: 9306000130



Main Wing

Part No: 9306000131



Horizontal Stabilizer

Part No: 9306000132



5-Blade Propeller Set

Part No: 9306000133



5-Blade Spinner

Part No: 9306000134



Wire Set

Part No: 9306000135



Screw Set

Part No: 9306000136



Rocket Set

Part No: 9306000137



Drop Tank Set

Part No: 9306000138



Scale Accessory Set

Part No: 9306000139



Control Horn/Pushrod Set

Part No: 9306000140

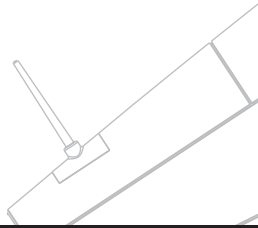
TROUBLE SHOOTING:

Problem	Cause	Solution
<u>Motor does not turn</u>	<ol style="list-style-type: none"> 1. Battery is not fully charged. 2. Transmitter battery low. 3. Motors not connected . 4. The motor is damaged. 5. Reciever is not bound to Tx. 6. ESC in set-up mode. 	<ol style="list-style-type: none"> 1. Charge the batteries. 2. Install a full charged battery. 3. Check for connection between the ESC and motor. 4. Replace motor. 5. Consult Radio manual and go through bind procedure again. 6. Hold model and move throttle to full position then back down to idle.
<u>Model moves backwards</u>	<ol style="list-style-type: none"> 1. Props installed on the wrong motors. 	<ol style="list-style-type: none"> 1. Swap the props around.
<u>Control surfaces not moving with stick input</u>	<ol style="list-style-type: none"> 1. The servo leads connected to Rx incorrectly. 2. The servo is damaged. 	<ol style="list-style-type: none"> 1. Make sure the servo leads are connect properly. 2. Replace servo.
<u>Model does not fly straight</u>	<ol style="list-style-type: none"> 1. Control surface not centered. 2. CoG is not in the correct position. 	<ol style="list-style-type: none"> 1. Adjust the trims on the transmitter. 2. Re-position lipo as suggested.
<u>Model does not climb well</u>	<ol style="list-style-type: none"> 1. The battery is not fully charged. 2. Elevator servo is reversed. 3. CG too far backwards. 	<ol style="list-style-type: none"> 1. Charge the battery. 2. Charge servo direction via Tx. 3. Move battery forwards.
<u>Limited Radio Range</u>	<ol style="list-style-type: none"> 1. Transmitter/Receiver batteries are flat. 	<ol style="list-style-type: none"> 1. Charge/replace batteries.

PRE-FLIGHT CHECKS:

1. Always range check your model before any flight (especially when flying a new model for the first time). Follow your radio manufacturers guidelines for performing this check.
2. Check all screw/bolts and mounting points are firmly secured, including control horns and clevises.
3. Only fly with fully charged batteries (both in your radio and model). Failure to do so could result in loss of control, damage to the model and/or person/property around you. Check your batteries are fully charged.
4. With the model powered up (Transmitter on first, then receiver/model) check that all surface are free from damage/obstructions, moving in the correct directions and freely with stick input.
5. Inspect the model and prop for any damage that may have occurred during transit and listen for any unusual sounds from the electronics when powered up. If in doubt, do not fly.
6. With the model held securely and the prop free of obstructions, increase the throttle just slightly to confirm the rotations of the prop is correct. The model should want to pull straight forward with throttle.
7. If this is your first flight with the model double check the C/G is at the correct position. If not adjust battery position inside model accordingly.
8. If you are an inexperienced model pilot seek the help and assistance of an experinced pilot to perform these final checks and to test fly the model for you.

LA VHS



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