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› [E-flite](#) /

› E-flite UMX WACO RC Airplane Instruction Manual - Model EFLU53550

E-flite EFLU53550

E-flite UMX WACO RC Airplane Instruction Manual

Model: EFLU53550

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your E-flite UMX WACO RC Airplane. The UMX WACO is a scale replica of the YMF-5 biplane, featuring AS3X and optional SAFE Select technologies for enhanced flight stability and ease of use. This model is designed for both indoor and outdoor flight in suitable conditions. Please read this manual thoroughly before assembly, setup, or operation to ensure proper use and to prevent damage or injury.



Image 1.1: The E-flite UMX WACO RC Airplane, showcasing its biplane design and red and white trim scheme.

2. SAFETY INFORMATION

WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to

operate the product correctly can result in damage to the product, personal property, and cause serious injury. This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. The product manual contains instructions for safety, operation, and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

- Always operate your model in open areas away from people, vehicles, and buildings.
- Avoid flying near power lines, trees, or water.
- Ensure all batteries are fully charged and properly installed before each flight.
- Perform pre-flight checks on all control surfaces and radio links.
- Never attempt to catch a flying model.
- Disconnect the battery after each flight and during storage.

3. WHAT'S IN THE BOX

Your E-flite UMX WACO package includes the following components:

- (1) E-flite UMX WACO 550mm RC Airplane
- (4) Spektrum Linear Servos (pre-installed)
- (1) Spektrum Brushless Outrunner Motor (pre-installed)
- (1) Spektrum Control Unit with Receiver and Brushless ESC (pre-installed)
- (1) UMX WACO 550mm Product Manual (this document)

4. NEEDED TO COMPLETE

To operate your E-flite UMX WACO, you will need the following items, which are not included in the box:

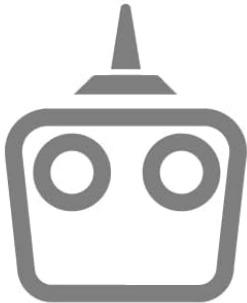
Needed to Complete



Battery



Charger



Transmitter

Image 4.1: Visual representation of required accessories: Battery, Charger, and Transmitter.

- **Transmitter:** A compatible Spektrum™ DSMX®/DSM2® 2.4GHz aircraft transmitter (DXS, DXe, DX6e, DX8e, DX6, DX8, DX9, iX12, iX20, etc.).

- **Flight Battery:** A 2S or 3S LiPo battery (e.g., 280–300mAh 2S or 3S LiPo with JST-PH connector).
- **Battery Charger:** A compatible LiPo battery charger.

5. SETUP

Follow these steps to prepare your UMX WACO for its first flight:

1. **Charge Flight Battery:** Fully charge your LiPo flight battery using a compatible LiPo charger. Always follow the charger's instructions and safety guidelines.
2. **Install Flight Battery:** Carefully open the battery hatch on the aircraft. Connect the charged flight battery to the ESC/receiver unit. Secure the battery to prevent movement during flight.
3. **Bind Transmitter:**
 - Ensure your transmitter is powered off.
 - Connect the flight battery to the aircraft. The receiver LED will begin to flash rapidly.
 - Put your transmitter into bind mode (refer to your transmitter's manual for specific instructions).
 - The receiver LED will turn solid when binding is complete.
 - Disconnect the flight battery from the aircraft, then power off your transmitter.
4. **Control Surface Check:**
 - Power on your transmitter, then connect the flight battery to the aircraft.
 - Verify that all control surfaces (ailerons, elevator, rudder) move correctly in response to your transmitter inputs.
 - Ensure the AS3X system is active by gently moving the aircraft; control surfaces should make small, rapid corrections.
5. **Center Control Surfaces:** Ensure all control surfaces are centered when the transmitter sticks are at neutral. Adjust linkages if necessary.



Image 5.1: The UMX WACO in a stable flight posture, demonstrating its readiness for operation after proper setup.

6. OPERATING

The UMX WACO is equipped with AS3X and optional SAFE Select technologies to enhance your flying experience.

6.1 AS3X Technology

AS3X (Artificial Stabilization – 3-aXis) works behind the scenes to smooth out the effects of wind and turbulence, making the aircraft feel like a much larger, expertly tuned model. It provides a locked-in feel without interfering with your control inputs.

6.2 SAFE Select Technology (Optional)

SAFE Select offers additional flight envelope protection, making it easier to fly for beginners or when you need an extra layer of stability. It provides:

- **Pitch and Bank Angle Limits:** Prevents the aircraft from over-pitching or over-banking.
- **Automatic Self-Leveling:** Returns the aircraft to level flight when the sticks are released.
- **Panic Recovery Mode:** Instantly returns the aircraft to level flight with the press of a button (if configured).

Refer to your transmitter and receiver manual for instructions on enabling and configuring SAFE Select.

6.3 Flight Preparation

- Choose an open flying area free from obstacles.
- Check weather conditions; avoid strong winds.
- Perform a range check of your radio system.

6.4 Takeoff and Landing

- **Takeoff:** Apply throttle smoothly and steer with the rudder. Once sufficient speed is gained, gently apply up elevator to lift off.
- **Landing:** Reduce throttle and align the aircraft with the runway. Maintain a slight nose-up attitude and gradually reduce throttle to a gentle touchdown.



Image 6.1: The UMX WACO in mid-flight, showcasing its agility and stability.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your UMX WACO.

- **Post-Flight Inspection:** After each flight, inspect the airframe for any damage, cracks, or loose components. Check control surface hinges and linkages.
- **Motor and Propeller:** Ensure the propeller is securely attached and free from nicks or cracks. Check the motor for any debris or signs of overheating.
- **Battery Care:** Store LiPo batteries at a storage charge (approximately 3.8V per cell) when not in use. Do not overcharge or over-discharge.
- **Cleaning:** Clean the aircraft with a soft, dry cloth. Avoid using solvents or harsh chemicals.
- **Storage:** Store the aircraft in a cool, dry place, away from direct sunlight and extreme temperatures.



Image 7.1: Front view of the UMX WACO, highlighting the propeller and landing gear, key areas for maintenance checks.

8. TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Aircraft does not respond to transmitter.	Not bound, low transmitter/receiver battery, incorrect model memory.	Re-bind aircraft, check/charge batteries, select correct model memory on transmitter.
Motor runs but propeller does not spin.	Loose propeller, damaged motor shaft.	Tighten propeller, inspect motor for damage.
Aircraft flies erratically or is difficult to control.	Control surfaces not centered, damaged control linkages, AS3X/SAFE calibration issue.	Check and center control surfaces, inspect linkages, re-calibrate AS3X/SAFE (refer to receiver manual).
Short flight times.	Battery not fully charged, old/damaged battery, aggressive flying.	Ensure full charge, replace old batteries, adjust flying style.

9. SPECIFICATIONS

Key specifications for the E-flite UMX WACO RC Airplane:

- **Model Number:** EFLU53550
- **Product Dimensions:** 21.5 x 8.5 x 21.4 inches
- **Item Weight:** 2.99 pounds
- **Manufacturer:** E-flite
- **Recommended Age:** 14 months and up (Note: RC aircraft typically require higher age and skill for safe operation. Adult supervision is always recommended.)

- **Features:** AS3X & SAFE Select technologies, 2S and 3S compatible outrunner motor and ESC, real-time battery voltage telemetry (with compatible Spektrum transmitters).

10. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact E-flite customer service or visit their official website. Keep your proof of purchase for any warranty claims.

[Visit the E-flite Store on Amazon](#)

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question