

[Manuals.plus](#) /

› [XFLY-MODEL](#) /

› Eagle Twin 40mm EDF Flying Wing User Manual

## XFLY-MODEL Eagle Twin 40mm EDF Flying Wing

# Eagle Twin 40mm EDF Flying Wing User Manual

Model: Eagle Twin 40mm EDF Flying Wing | Brand: XFLY-MODEL

## INTRODUCTION

This manual provides essential information for the safe and effective operation of your XFLY-MODEL Eagle Twin 40mm EDF Flying Wing. This aircraft features a unique flying wing design with dual 40mm Electric Ducted Fan (EDF) power systems, offering an outstanding power-to-weight ratio. It is equipped with a gyro for enhanced stability and maneuverability, allowing for advanced aerobatics such as rolls and flat spins. The model is factory-assembled, requiring minimal setup before flight.

Please read this manual thoroughly before operating the aircraft to ensure proper setup, safe flight, and optimal performance.

## SAFETY INFORMATION

Operating remote-controlled aircraft requires caution and adherence to safety guidelines. Failure to do so may result in injury or damage to property.

- Always operate the aircraft in open areas, away from people, buildings, and obstacles.
- Maintain a safe distance from the aircraft during flight.
- Never fly near airports or restricted airspace.
- Ensure all batteries are fully charged and properly installed before each flight.
- Check all control surfaces and linkages for proper function before take-off.
- Do not operate in strong winds or adverse weather conditions.
- Keep fingers and loose clothing away from rotating propellers and EDF units.
- Adult supervision is recommended for younger operators.

## PACKAGE CONTENTS

The XFLY-MODEL Eagle Twin 40mm EDF Flying Wing PNP package includes the following components:

- Eagle Twin 40mm EDF Flying Wing (Green)
- Integrated Gyro System
- Receiver and Servos
- User Manual

**Note: Transmitter, external receiver (if not using integrated), and flight battery are NOT included and must be purchased separately.**

## SETUP

### 1. Battery Installation

The Eagle Twin is designed to accommodate a 4S 1800-2200mAh LiPo battery. Ensure the battery is fully charged before installation.

1. Locate the battery bay hatch on the top of the aircraft.
2. Open the hatch carefully.
3. Insert the charged LiPo battery into the bay. Secure it using the provided hook-and-loop strap or equivalent method to prevent shifting during flight.
4. Connect the battery to the aircraft's power connector (typically an XT60 or similar).
5. Close the battery bay hatch securely.



Image: View of the battery bay with a LiPo battery and receiver connected, showing the internal layout.

### 2. Receiver Connection and Gyro Setup

The aircraft comes with an integrated gyro system. You will need to connect your compatible receiver to the gyro board. Refer to the wiring diagram for correct connections.

1. Identify the channels on your receiver (AIL, ELE, THR, RUD, AUX, etc.).
2. Connect the corresponding servo leads from the aircraft's gyro board to your receiver. The diagram below illustrates a typical connection for Aileron, Elevator, and EDF units.

3. Ensure the gyro board is securely mounted within the aircraft.
4. Power on your transmitter, then connect the flight battery to the aircraft. The gyro will initialize. Do not move the aircraft during initialization.
5. Once initialized, test all control surfaces (elevons) and EDF units to ensure they respond correctly to transmitter inputs. Adjust servo directions on your transmitter if necessary.



Image: Close-up view of the integrated gyro and receiver board, showing connection pins.

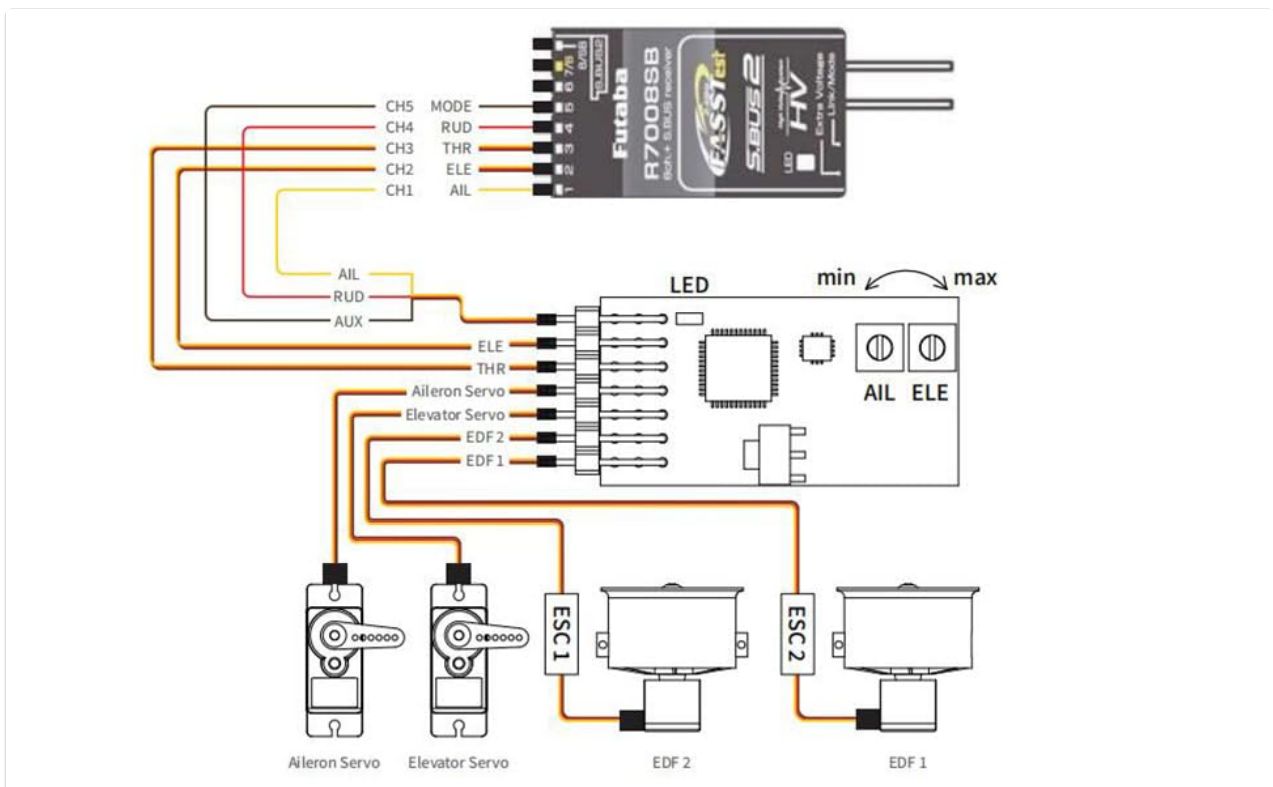


Image: Detailed wiring diagram illustrating connections between a typical receiver, the gyro board, aileron servo, elevator servo, and the two EDF units.

### 3. Center of Gravity (CG)

Proper CG is crucial for stable flight. The recommended CG for the Eagle Twin is approximately 162mm from the nose, as indicated in the diagram below. Adjust battery position within the bay to achieve the correct balance.

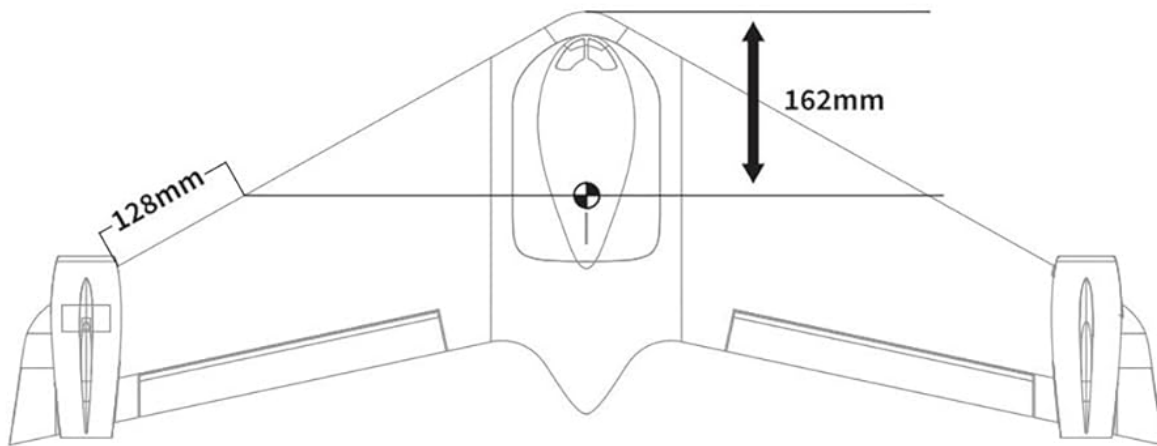


Image: Technical diagram of the aircraft from a top-down perspective, indicating the recommended Center of Gravity (CG) at 162mm from the nose.

## OPERATING INSTRUCTIONS

### Pre-Flight Checks

- Ensure transmitter and aircraft batteries are fully charged.
- Verify all control surfaces move freely and in the correct direction.
- Check for any loose connections or damage to the airframe.
- Confirm the gyro is initialized and functioning correctly.

### Take-Off

The Eagle Twin is typically hand-launched. Hold the aircraft firmly from the underside, apply full throttle, and gently push it forward into the wind. Do not throw it downwards.

### Flight

The integrated gyro assists in maintaining stable flight. You can perform various maneuvers, including rolls and flat spins, by utilizing differential thrust and elevon control. Practice at a safe altitude before attempting complex maneuvers.



Image: The red version of the Eagle Twin flying wing aircraft in clear blue sky, demonstrating its flight capabilities.

## Landing

Reduce throttle and approach the landing area into the wind. Maintain sufficient airspeed to keep control. Gently flare just before touchdown to reduce speed and land smoothly.

## MAINTENANCE

- **Cleaning:** Wipe down the airframe with a soft, damp cloth after each flight to remove dirt and debris. Avoid using harsh chemicals.
- **Inspection:** Regularly inspect the airframe for cracks, dents, or damage. Check control surfaces, linkages, and EDF units for proper function and wear.
- **Motor/EDF Maintenance:** Ensure the EDF units are free of obstructions. If performance degrades, inspect the fan blades for damage.
- **Storage:** Store the aircraft in a cool, dry place, away from direct sunlight and extreme temperatures. Remove the flight battery if storing for extended periods.



Image: A close-up view of one of the 40mm Electric Ducted Fan (EDF) units, showing the intake and fan blades.



Image: Detail of the top surface of the wing, highlighting the vents for airflow and the smooth finish of the material.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Aircraft does not respond to controls.	Transmitter not bound, low battery, loose connection.	Ensure transmitter is on and bound. Check battery levels. Verify all connections are secure.
Aircraft flies erratically or is unstable.	Incorrect CG, gyro not calibrated, damaged control surface.	Adjust battery for correct CG. Re-initialize gyro. Inspect control surfaces for damage.
EDF units not spinning or low power.	Low battery, obstruction in EDF, ESC issue.	Charge battery. Clear any debris from EDF. Check ESC connections.
Control surfaces not moving fully.	Damaged servo, binding linkage, incorrect transmitter settings.	Inspect servos and linkages. Check transmitter's end-point adjustments.

## SPECIFICATIONS

Feature	Detail
Model	Eagle Twin 40mm EDF Flying Wing
Brand	XFLY-MODEL
Power System	Dual 40mm EDF
Recommended Battery	4S 1800-2200mAh LiPo

Feature	Detail
Gyro	Integrated Gyro System
Package Dimensions	42 x 18 x 6 inches
Item Weight	5.54 pounds
Manufacturer Recommended Age	14 months - 14 years (Note: RC aircraft typically require higher age/maturity)

## WARRANTY AND SUPPORT

XFLY-MODEL products are designed for quality and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official XFLY-MODEL website. In general, defects in materials and workmanship are covered for a limited period from the date of purchase.

For technical support, troubleshooting assistance, or spare parts inquiries, please contact XFLY-MODEL customer service through their official channels. You may find contact information on their website or on the product packaging.

### Online Resources:

- XFLY-MODEL Official Store: [Visit Store](#)