

E-flite EFL01450

E-flite F-14 Tomcat Twin 40mm EDF BNF Basic Instruction Manual

Model: EFL01450

1. PRODUCT OVERVIEW

The E-flite F-14 Tomcat Twin 40mm EDF BNF Basic is a scale replica of the iconic F-14 Tomcat fighter jet, designed for an authentic and unique flight experience. This electric ducted fan (EDF) model features functional 3-position variable-sweep wings and full-flying stabilators. It is compatible with popular 4S 2200mAh 30+C batteries and provides real-time battery voltage, current, speed, and other telemetry data via compatible transmitters.



Image: The E-flite F-14 Tomcat Twin 40mm EDF BNF Basic remote-controlled aircraft.

2. SAFETY INFORMATION

Attention: Read the entire instruction manual to become familiar with the product's features before operation. Failure to operate the product correctly can result in damage to the product, personal property, and cause 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 modify the 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 instructions and warnings in the manual prior to assembly, setup, or use to operate correctly and avoid damage or serious injury.

3. WHAT'S IN THE BOX

- (1) E-flite® F-14 Tomcat Twin 40 mm EDF
- (2) Brushless outrunner motors (pre-installed)
- (2) 40 mm Ducted Fan Units (pre-installed)

- (3) Linear servos (pre-installed)
- (1) 3-position linear actuator (pre-installed)
- (1) Spektrum™ Receiver with (2) Brushless ESCs (pre-installed)
- (1) Instruction Manual

4. SETUP AND ASSEMBLY

Before operating your E-flite F-14 Tomcat, ensure all necessary components are ready and correctly assembled.

4.1 Components Needed to Complete

The BNF Basic version requires additional components to be purchased separately for full operation. These typically include:

- Compatible Spektrum™ DSMX®/DSM2® transmitter (minimum 6-channel recommended)
- 4S 2200mAh 30+C LiPo flight battery
- Compatible LiPo charger

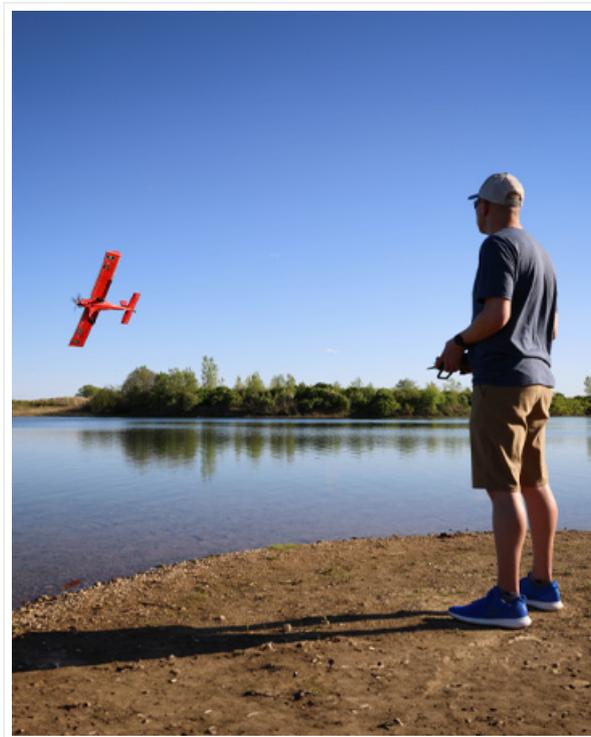


Image: Visual representation of additional components required: Battery, Charger, and Transmitter.

4.2 Initial Assembly Steps

Your F-14 Tomcat comes largely pre-assembled. Follow the detailed instructions in the included manual for specific steps on attaching wings, tail surfaces, and landing gear if not already installed. Ensure all control surfaces move freely and correctly.



Image: A pilot holding the E-flite F-14 Tomcat, demonstrating its compact size and readiness for flight.

Binding the Receiver: Refer to your Spektrum™ transmitter's manual for the binding procedure. Ensure the aircraft's receiver is properly bound to your transmitter before attempting flight.

5. OPERATING INSTRUCTIONS

The E-flite F-14 Tomcat is designed for experienced pilots.



Skill Level 3 Experience Required

Skill Level 3 aircraft are suitable for more experienced pilots who already have experience assembling, setting up and flying similar class models.

Image: Skill Level 3 - Experience Required. This aircraft is suitable for more experienced pilots.

Familiarize yourself with the controls and flight characteristics before your first flight.

5.1 Pre-Flight Checks

- Ensure the flight battery is fully charged and securely installed.
- Verify all control surfaces (ailerons, elevator, rudder, stabilators, variable-sweep wings) respond correctly to transmitter inputs.
- Check for any loose connections or damaged components.
- Perform a range check of your radio system.
- Ensure the flight area is clear of obstacles and people.

5.2 Takeoff and Flight

For takeoff, apply throttle smoothly and maintain a straight path. The F-14's twin 40mm EDFs provide ample power. Utilize the variable-sweep wings to optimize performance for different flight regimes:

- **Wings Forward:** For slower flight, improved maneuverability, and shorter takeoffs/landings.
- **Wings Swept Back:** For higher speeds and improved stability.



Image: The F-14 Tomcat in mid-air with its wings in a forward position, suitable for slower flight and turns.



Image: The F-14 Tomcat flying with its wings swept back, indicating higher speed flight.

5.3 Landing

Approach the landing strip with reduced throttle and wings in the forward position for better control. Gradually decrease altitude and speed, flaring gently just above the ground for a smooth touchdown.



Image: The F-14 Tomcat descending for landing, with its landing gear extended.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your F-14 Tomcat.

- Inspect the airframe for any damage after each flight.
- Check all control linkages and servos for proper function and freedom of movement.
- Ensure the EDF units are free of debris and the fan blades are intact.
- Regularly check battery connectors for wear and tear.
- Store the aircraft in a cool, dry place away from direct sunlight.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting tips:

- **No response from controls:** Check battery connections, ensure the transmitter is on and bound to the receiver, and verify all servo connections.
- **Poor flight performance:** Check for damaged propellers/fans, ensure control surfaces are properly aligned, and verify battery charge level.

- **Aircraft not powering on:** Ensure the flight battery is charged and connected correctly. Check for any visible damage to the ESCs or wiring.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	90.17 x 58.93 x 25.4 cm
Item Weight	2.68 kg
Recommended Age	14 years and up
Model Number	EFL01450
Scale	1:14
Material Type	Ethylene Vinyl Acetate
Battery Type (Required)	1 Lithium Polymer (4S 2200mAh 30+C LiPo recommended)
Remote Control Included	No (BNF Basic requires separate transmitter)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please refer to the official E-flite or Horizon Hobby website. Keep your proof of purchase for warranty claims.