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E-flite EFL02650

E-flite P-51D Mustang 1.0M BNF Basic with AS3X and SAFE Select (EFL02650) User Manual

Model: EFL02650 | Brand: E-flite

1. INTRODUCTION

This manual provides essential instructions for the safe operation, setup, and maintenance of your E-flite P-51D Mustang 1.0M BNF Basic model aircraft. The P-51D Mustang 1.0M is a sport-scale replica designed for both low-time pilots transitioning from trainers and experienced pilots seeking a convenient sport-scale model. It features AS3X and SAFE Select technologies for enhanced flight stability and ease of use. Please read this entire manual thoroughly before assembly, setup, or operation to ensure correct usage and to prevent damage or injury.



Image 1: The E-flite P-51D Mustang 1.0M BNF Basic model aircraft, showcasing its detailed design and markings.

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.

3. WHAT'S IN THE BOX

The E-flite P-51D Mustang 1.0M BNF Basic package includes the following components:

- P-51D Mustang 1.0M BNF Basic aircraft with AS3X and SAFE Select technologies



Image 2: Top-down view of the E-flite P-51D Mustang 1.0M, showing wing and fuselage details.

4. NEEDED TO COMPLETE

To operate your E-flite P-51D Mustang 1.0M, the following items are required and sold separately:

- Full-range 6+ channel Spektrum DSMX®/DSM2® compatible transmitter
- 3S or 4S 1300–2200mAh LiPo flight battery with EC3™ or IC3™ connector
- Compatible LiPo charger

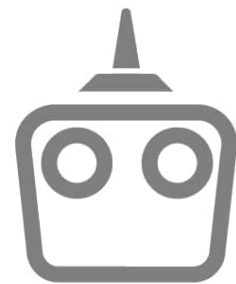
Needed to Complete



Battery



Charger



Transmitter

Image 3: Visual representation of additional items required: Battery, Charger, and Transmitter.

5. SETUP

5.1 Assembly

The P-51D Mustang 1.0M requires minimal assembly. Follow these general steps:

1. Carefully unpack all components from the box.
2. Attach the main wing to the fuselage according to the included quick-start guide or detailed manual. Ensure all connections are secure.
3. Install the horizontal and vertical stabilizers.
4. Secure the propeller and spinner assembly.
5. Perform a visual inspection for any shipping damage or loose parts.

5.2 Binding the Receiver

Your aircraft is equipped with a Spektrum AR631+ receiver. To bind it to your compatible Spektrum transmitter:

1. Ensure your transmitter is powered off.
2. Connect the flight battery to the aircraft's ESC. The receiver will enter bind mode (flashing orange LED).
3. Put your transmitter into bind mode. Refer to your transmitter's manual for specific instructions.
4. The receiver LED will turn solid orange when binding is successful.
5. Disconnect the flight battery and power off the transmitter.
6. Reconnect the flight battery and power on the transmitter to confirm the bind.

5.3 Control Surface Setup

Verify that all control surfaces (ailerons, elevator, rudder) move correctly and in the proper direction relative to your transmitter inputs. Adjust servo directions as needed in your transmitter settings.

5.4 Center of Gravity (CG)

Accurate CG is crucial for stable flight. Refer to the detailed manual for the recommended CG location. Adjust the battery position to achieve the correct balance.

6. OPERATING INSTRUCTIONS

6.1 Pre-Flight Checks

- Ensure the flight battery is fully charged and securely installed.
- Confirm all control surfaces move freely and correctly.
- Check for any loose wires or connections.
- Verify propeller is securely attached and undamaged.
- Perform a range check of your radio system.

6.2 AS3X and SAFE Select Technologies

The aircraft is equipped with AS3X (Artificial Stabilization – 3-aXis) and optional SAFE Select technologies:

- **AS3X:** Provides electronic stabilization that works behind the scenes to smooth out the effects of wind and turbulence, making the aircraft feel larger and more stable.
- **SAFE Select:** Offers flight envelope protection, including pitch and bank angle limits, automatic self-leveling, and easier takeoffs and landings. This feature can be activated or deactivated based on pilot preference and skill level. Refer to the detailed manual for activation/deactivation procedures.



Image 4: The E-flite P-51D Mustang 1.0M in stable flight over a grassy field.

6.3 Takeoff

Choose a clear, open area for takeoff. Advance throttle smoothly. Use rudder for directional control during the ground roll. Once airborne, climb to a safe altitude before attempting maneuvers.

6.4 Flight

Maintain visual contact with the aircraft at all times. Practice basic maneuvers at a safe altitude. If using SAFE Select, familiarize yourself with its capabilities and limitations.



Image 5: The E-flite P-51D Mustang 1.0M banking during flight, showing the underside of the wing.

6.5 Landing

Approach the landing strip into the wind. Reduce throttle and manage descent with elevator. Aim for a smooth touchdown on the main landing gear, then gently lower the tail wheel.



Image 6: The E-flite P-51D Mustang 1.0M in a high-angle flight, showcasing its maneuverability.

7. MAINTENANCE

- **After Each Flight:** Inspect the airframe for damage, check propeller for nicks or cracks, and ensure all control linkages are secure.
- **Battery Care:** Always store LiPo batteries at a storage charge and in a fire-safe container. Do not overcharge or over-discharge.
- **Cleaning:** Use a soft, damp cloth to clean the aircraft. Avoid harsh chemicals.
- **Motor/ESC:** Ensure the motor spins freely and the ESC connections are secure.



Image 7: Side view of the E-flite P-51D Mustang 1.0M, highlighting the fuselage and tail section.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Aircraft does not respond to controls.	Transmitter not bound, low battery (aircraft or transmitter), incorrect model selected.	Re-bind transmitter, charge batteries, select correct model memory.
Motor does not start.	Throttle trim too high, ESC not armed, battery not connected.	Lower throttle trim to minimum, ensure throttle stick is at zero, connect battery securely.
Aircraft flies erratically.	Incorrect CG, damaged control surface, AS3X/SAFE Select not initialized correctly.	Verify CG, inspect and repair damage, ensure aircraft is stationary during power-up for sensor initialization.
Battery straps too long (as per customer review).	Manufacturing variation or specific battery size.	Consider using shorter aftermarket straps or contacting E-flite support for guidance.

9. SPECIFICATIONS

- **Model:** E-flite P-51D Mustang 1.0M BNF Basic
- **Model Number:** EFL02650
- **Product Dimensions:** 44 x 10 x 18.8 inches
- **Item Weight:** 8.53 pounds
- **Recommended Age:** 14 months and up (Note: RC aircraft typically require higher age/skill for safe operation)
- **Batteries Required:** 1 Nonstandard Battery (3S or 4S 1300–2200mAh LiPo)
- **ESC:** 30-amp telemetry-capable
- **Receiver:** Spektrum AR631+ with AS3X and SAFE Select
- **Servos:** Spektrum digital, metal-gearred
- **Manufacturer:** Horizon Hobby

- **Release Date:** November 14, 2024







Image 8: Low-angle view of the E-flite P-51D Mustang 1.0M, emphasizing its undercarriage and scale details.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact Horizon Hobby, the manufacturer of E-flite products. Detailed warranty terms and contact information can typically be found on the manufacturer's official website or in the full product manual included with your purchase. You can also visit the official [E-flite Store on Amazon](#) for additional product information and accessories.

Related Documents - EFL02650

	<p>Manuel d'instructions E-flite UMX P-51D Detroit Miss BNF Basic</p> <p>Manuel d'instructions détaillé pour l'avion RC E-flite UMX P-51D Detroit Miss BNF Basic, couvrant la configuration, le fonctionnement, la sécurité et le dépannage.</p>
	<p>E-flite P-51D Mustang 280 BNF Basic Instruction Manual</p> <p>Comprehensive instruction manual for the E-flite P-51D Mustang 280 BNF Basic radio-controlled aircraft, covering setup, operation, safety, maintenance, and troubleshooting. Features detailed specifications, parts lists, and warranty information.</p>

 <p>E-flite F-15 Eagle 64mm EDF</p> <p>Instruction Manual Assembly/Operation Maintenance Troubleshooting Safety Precautions</p> <p>HORIZON</p>	<p>E-flite F-15 Eagle 64mm EDF BNF Basic/PNP Instruction Manual</p> <p>Comprehensive instruction manual for the E-flite F-15 Eagle 64mm EDF aircraft, covering assembly, setup, operation, safety precautions, and troubleshooting for both Bind-N-Fly (BNF) Basic and Plug-N-Play (PNP) versions.</p>
 <p>E-flite Super Timber 1.7m</p> <p>Instruction Manual Assembly/Operation Maintenance Troubleshooting Safety Precautions</p> <p>HORIZON</p>	<p>E-flite Super Timber 1.7m RC Airplane Instruction Manual</p> <p>Comprehensive instruction manual for the E-flite Super Timber 1.7m radio-controlled airplane, covering assembly, setup, flight controls, safety precautions, and troubleshooting. Includes details on SAFE Select technology and recommended equipment.</p>
 <p>E-flite Micro DRACO 800mm</p> <p>Instruction Manual Assembly/Operation Maintenance Troubleshooting Safety Precautions</p> <p>HORIZON</p>	<p>E-flite Micro Draco 800mm BNF Basic Instruction Manual</p> <p>This instruction manual provides detailed information on the E-flite Micro Draco 800mm BNF Basic, including setup, operation, safety precautions, and troubleshooting. Learn how to assemble, configure, and fly your model with confidence.</p>
 <p>E-flite UMX™ Conscendo</p> <p>Instruction Manual Assembly/Operation Maintenance Troubleshooting Safety Precautions</p> <p>HORIZON</p>	<p>E-flite UMX Conscendo BNF Basic: Instruction Manual & Setup Guide</p> <p>Comprehensive instruction manual for the E-flite UMX Conscendo BNF Basic RC airplane. Learn about setup, binding, safety precautions, flight modes (AS3X, SAFE Select), advanced features, troubleshooting, and specifications.</p>