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BEHORSE F22 Raptor Model Toy Airplane Glider

BEHORSE F22 Raptor RC Plane User Manual

Model: F22 Raptor Toy Airplane Glider

INTRODUCTION

This user manual provides essential information for the safe and effective operation of your BEHORSE F22 Raptor RC Plane. Designed for beginners, this fully assembled fighter plane offers an easy-to-master flying experience. Please read this manual thoroughly before first use to ensure proper setup, operation, and maintenance.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x RC Plane (F22 Raptor Model)
- 1 x Remote Control
- 3 x 3.7V 150mAh Lithium Batteries
- 2 x Forward Propellers
- 2 x Reverse Propellers
- 1 x USB Charging Cable
- 2 x Landing Gear Sets
- 1 x Double Wing Lamp Belt (LED light strip)
- 1 x English Instruction Manual



Figure 1: All components included in the BEHORSE F22 Raptor RC Plane package, including the plane, remote control, batteries, propellers, USB charging cable, landing gear, and LED light strip.

SPECIFICATIONS

Feature	Detail
Product Name	F22 Remote Control Fighter
Wingspan	250mm
Aircraft Length	340mm
Glider Battery	3.7V 150mAh Li-po battery (3 pcs included)
Transmitter Battery	3 x 1.5V AA batteries (not included)
Charging Time	Approximately 40 minutes

Flying Time	Approximately 12 minutes
Control Distance	Approximately 120 yards (109 meters)
Material	EPP foam + ABS plastic
Charger	1S USB charger
Functions	Move forward, up/down, turn left/right
Single Glider Weight	Approximately 24g

SETUP

1. Charging the Aircraft Battery

1. Connect the 3.7V 150mAh Li-po battery to the included 1S USB charger.
2. Plug the USB charger into a standard USB power source (e.g., computer USB port, USB wall adapter).
3. The charging indicator light on the USB charger will typically show the charging status (refer to charger's specific indicator behavior if available).
4. Charging takes approximately 40 minutes. Do not overcharge the battery.
5. Once charged, disconnect the battery from the charger.

Important: Always charge the battery before use. Remove batteries from the aircraft and remote control when not in use.

2. Installing Remote Control Batteries

1. Locate the battery compartment on the back of the remote control.
2. Open the battery compartment cover.
3. Insert 3 x 1.5V AA batteries (not included) into the compartment, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 2: The F22 Raptor RC plane and its remote control, illustrating the components involved in the setup process.

OPERATING INSTRUCTIONS

1. Pairing the Aircraft and Remote Control

1. Ensure both the aircraft battery is charged and installed, and the remote control has fresh batteries.
2. Turn on the aircraft first, then turn on the remote control.
3. The remote control and aircraft will automatically pair. A successful pairing is usually indicated by a solid light on the aircraft or a specific sound.

2. Flight Controls

The F22 Raptor RC Plane features a 2-channel control system, making it easy for beginners to learn.

- **Throttle (Up/Down):** Controls the aircraft's altitude (climb/descend).
- **Direction (Left/Right):** Controls the aircraft's turning using motor differential.
- **Forward:** The plane is designed to move forward when throttle is applied.

2.4Ghz 2 Channel Remote Control Airplane

Easy to fly even if you have never flown a model before



Figure 3: The 2.4GHz 2-channel remote control system in action, demonstrating ease of flight for beginners.

3. Takeoff Methods

Your F22 Raptor RC Plane supports two takeoff methods:

- **Hand Throwing Off:** Hold the plane firmly and gently throw it forward while simultaneously applying throttle.
- **Sliding Off (with Landing Gear):** Attach the landing gear. Place the plane on a smooth, flat surface. Apply throttle and allow the plane to gain speed and lift off.

4. Night Flying with LED Lights

The included double wing lamp belt allows for dazzling and colorful night navigation. Attach the light strip to the designated areas on the wings for enhanced visibility and fun during evening flights.



Stick the light bar Flying at night is more fun

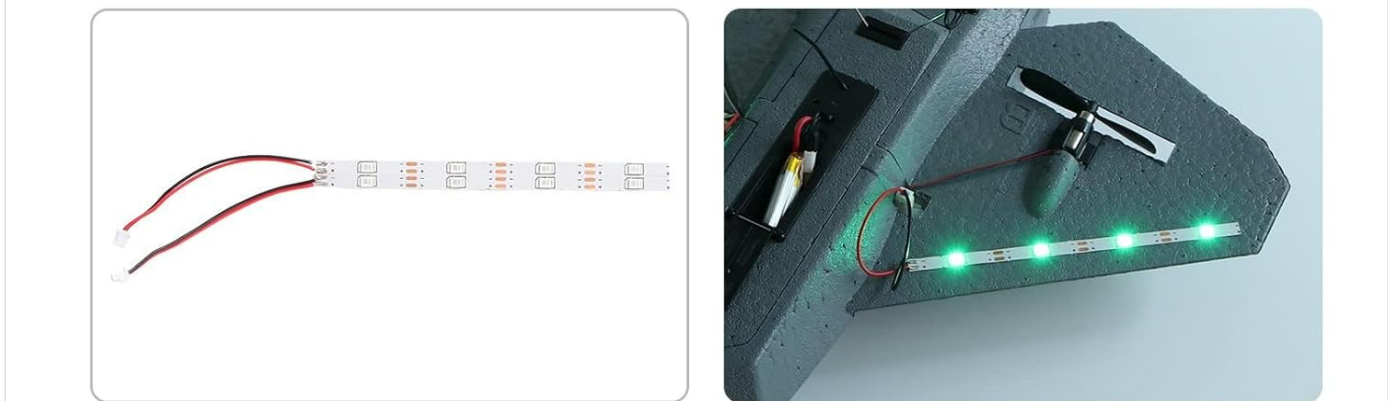


Figure 4: The F22 Raptor RC plane equipped with its LED light strip, making it suitable for night flights and improving visibility.

MAINTENANCE

- **EPP Foam Care:** The aircraft is made of EPP foam, which is highly impact-resistant and flexible. While durable, avoid excessive bending or sharp impacts to maintain its structural integrity.
- **Battery Storage:** When not in use, store the lithium batteries in a cool, dry place. Do not leave them fully charged or fully discharged for extended periods. Remove batteries from the aircraft and remote control after each use.
- **Cleaning:** Wipe the aircraft and remote control with a soft, dry cloth. Do not use harsh chemicals or solvents.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately to ensure optimal flight performance and safety.



Figure 5: The durable and flexible EPP foam material used in the F22 Raptor RC plane, designed for impact resistance.

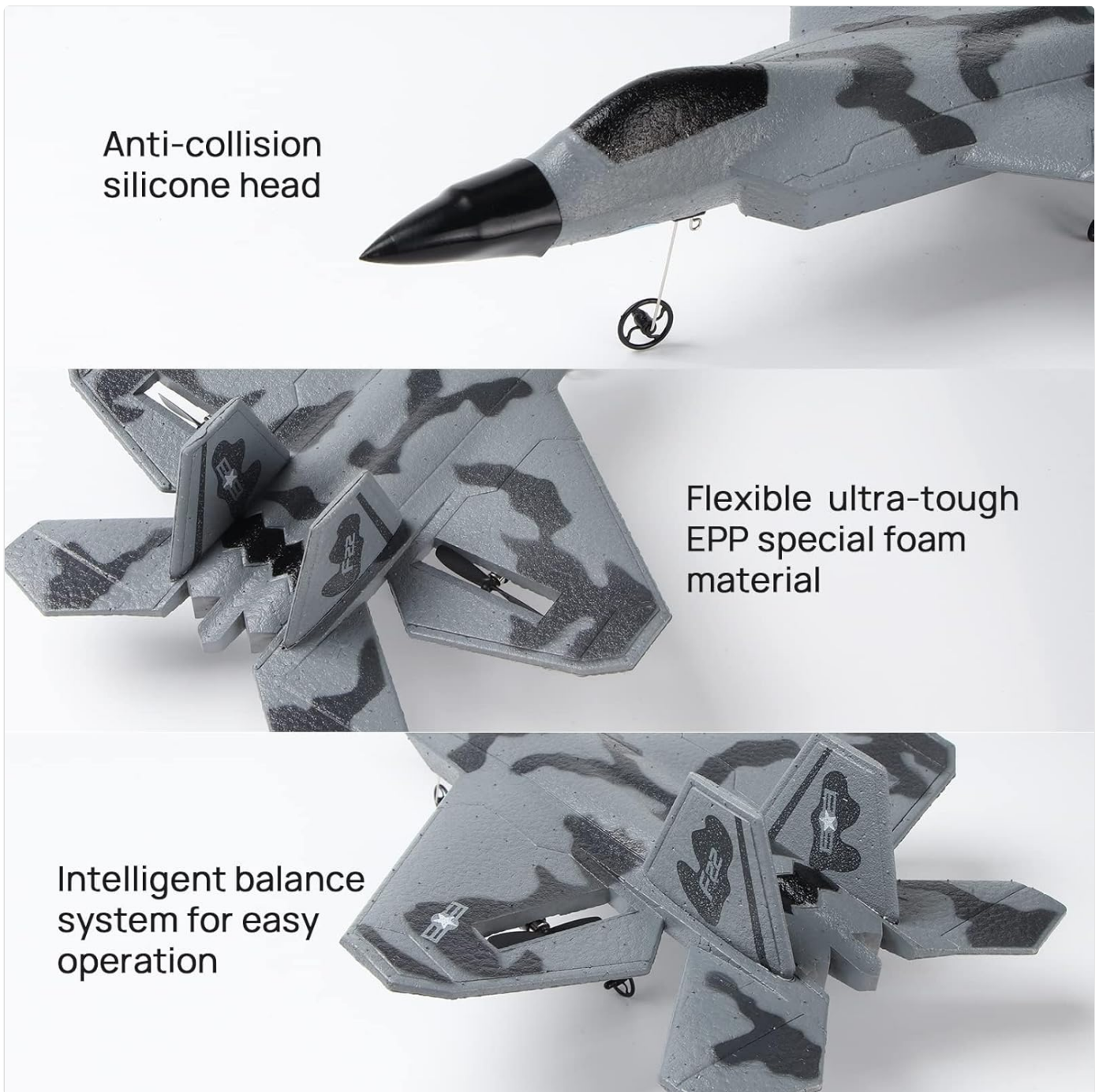


Figure 6: Design features contributing to the plane's durability and ease of use, including the anti-collision nose and flexible EPP material.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Aircraft does not respond to remote control.	Batteries low or not installed correctly. Not paired correctly. Out of control range.	Check and replace batteries in both aircraft and remote. Re-pair the aircraft and remote control. Ensure you are within the 120-yard control distance.
Short flight time.	Battery not fully charged. Battery degradation.	Ensure battery is fully charged (approx. 40 mins). Consider replacing the battery if it's old or frequently used.

Aircraft difficult to control or unstable flight.	<p>Strong wind conditions.</p> <p>Damaged propellers.</p> <p>Improper calibration (if applicable).</p>	<p>Do not fly in wind speeds over 3 m/s (approx. 6.7 mph).</p> <p>Check and replace any damaged propellers.</p> <p>The built-in 3-axis gyroscope self-stabilization system should assist with stability.</p>
Aircraft does not take off.	<p>Insufficient throttle.</p> <p>Not enough space for sliding takeoff.</p> <p>Propellers not spinning correctly.</p>	<p>Apply full throttle during takeoff.</p> <p>Ensure a long enough, smooth surface for sliding takeoff, or use hand-throwing method.</p> <p>Check for obstructions or damage to propellers/motors.</p>

SAFETY PRECAUTIONS

- **Adult Supervision:** Children's first operation requires adult guidance and supervision.
- **Flying Environment:** Play the plane in an open area. Do not fly near tall trees, buildings, power lines, or crowds.
- **Wind Conditions:** The plane is lightweight and cannot fly in wind speeds over 3 m/s (approximately 6.7 mph). Do not fly when wind speed exceeds 5 meters per second (approximately 11.2 mph).
- **Battery Safety:**
 - Use only the provided charger.
 - Do not puncture, short-circuit, or disassemble batteries.
 - Do not expose batteries to extreme temperatures or direct sunlight.
 - If batteries swell or leak, discontinue use immediately and dispose of them properly.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers.
- **Practice:** Practice is essential for beginners to control the plane well. Start with gentle movements in a safe, open space.



Figure 7: The F22 Raptor RC plane is an excellent choice for a child's first RC airplane, suitable for open outdoor spaces.

WARRANTY AND SUPPORT

BEHORSE is committed to providing quality products and customer satisfaction. If you encounter any problems when operating your RC aircraft, please do not hesitate to contact our customer service for assistance. We are dedicated to resolving almost all your issues.

Please refer to your purchase documentation or the seller's contact information for specific warranty details and support channels.