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Top Race TR-F22B

Top Race Remote Control F-22 Raptor RC Fighter Jet (TR-F22B) Instruction Manual

Model: TR-F22B | Brand: Top Race

1. Introduction and Safety Guidelines

This manual provides essential information for the safe operation and maintenance of your Top Race TR-F22B F-22 Raptor RC Fighter Jet. Please read all instructions carefully before use to ensure proper function and to prevent damage or injury.

Safety Precautions:

- This product is a sophisticated RC hobby product, not a toy. It is intended for advanced fliers.
- Always operate in open, clear areas away from people, animals, and obstacles.
- Ensure the battery is fully charged before each flight.
- Do not operate in strong winds or adverse weather conditions.
- Keep fingers clear of the propeller when the aircraft is powered on.
- Adult supervision is recommended for younger users.

2. Package Contents

Verify that all items are present in the package:

- Top Race F-22 Raptor RC Jet (TR-F22B)
- 2.4 GHz Transmitter
- 3.7V 360 mAh Lithium Polymer Battery
- USB Charger
- Spare Propellers
- Landing Gear
- User Manual

Image: The Top Race F-22 Raptor RC Jet, along with its 2.4 GHz transmitter, 3.7V 360 mAh battery, USB charger, and spare propellers.

3. Setup and Assembly

The TR-F22B RC Jet requires minimal assembly. Follow these steps:

1. **Install Landing Gear:** Carefully insert the front and rear landing gear into their designated slots on the underside of the aircraft. Ensure they click securely into place.
2. **Install Vertical Stabilizer:** Slide the vertical stabilizer (top wing) into the slot on the rear fuselage. Push it firmly until it is fully seated. Some users may choose to apply a small amount of glue for permanent attachment, but it is not strictly necessary for initial flights.
3. **Attach Nose Cone:** Place the silicone nose cone over the front of the aircraft to provide additional protection during landings.

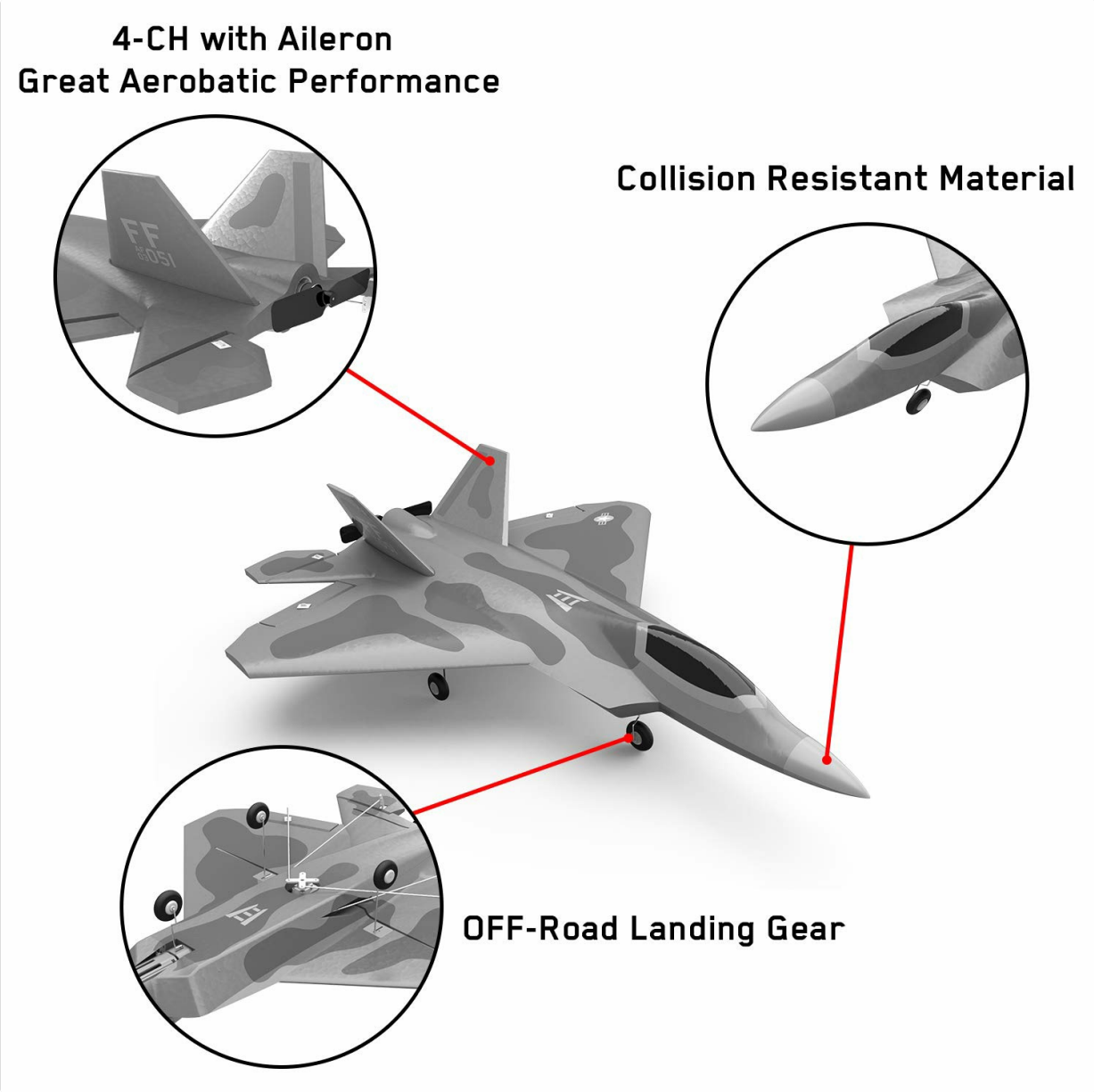

Image: Detailed view of the F-22 Raptor RC Jet highlighting its 4-channel control with ailerons, collision-resistant EPP foam material, and off-road landing gear.

4. Battery Charging

The aircraft uses a 3.7V 360 mAh Lithium Polymer battery. The transmitter requires 4 AA batteries (not included).

Charging the Flight Battery:

1. Connect the flight battery to the provided USB charger.
2. Plug the USB charger into any standard USB port (e.g., computer, laptop, power bank, USB wall adapter).
3. The charger's indicator light will show the charging status (refer to charger instructions for specific light patterns).
4. Once fully charged, disconnect the battery from the charger. Do not overcharge.

Installing Transmitter Batteries:

1. Open the battery compartment on the back of the 2.4 GHz transmitter.
2. Insert 4 AA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment securely.

5. Remote Control and Binding

The 2.4 GHz transmitter provides precise control over the aircraft. It features 4-channel control for throttle, rudder, elevator, and aileron.

Binding Procedure:

1. Ensure the aircraft's battery is connected and the aircraft is powered off.
2. Turn on the transmitter.
3. Power on the aircraft.
4. The aircraft and transmitter should automatically bind. If not, refer to the specific binding instructions in the included user manual.

Image: The Xpilot Stabilization System with three control modes (Beginner, Intermediate, Expert) accessible via the remote control.

6. Operating Instructions

The TR-F22B is designed for advanced fliers, offering maximum maneuverability with its 4-channel control and 6-Axis Gyro.

Take-off:

- Perform a hand-launch by gently tossing the aircraft forward into the wind while simultaneously applying throttle.
- Alternatively, use the landing gear for ground take-offs on a smooth, flat surface.

Flight Controls:

- **Throttle:** Controls engine speed and altitude.
- **Rudder:** Controls yaw (left/right turning).

- **Elevator:** Controls pitch (nose up/down for climbing/descending).
- **Aileron:** Controls roll (wing tilting for banking turns).

Acrobatics:

The aircraft features one-key acrobatics. Press the designated button on the transmitter to perform pre-programmed stunts.

Image: Illustration of the one-key acrobatic feature, allowing the F-22 Raptor RC Jet to perform aerial maneuvers with a single button press.

Landing:

Approach the landing area at a low throttle setting. Gently reduce throttle and use elevator control to flare the aircraft for a smooth touchdown. For grass landings, it is often recommended to remove the landing gear and perform a belly landing to prevent damage.

7. Flight Modes and Stabilization

The TR-F22B is equipped with a 6-Axis Gyro Xpilot Stabilization System, offering multiple control assists for

different skill levels:

- **Beginner Mode:** Provides maximum stabilization and limits control inputs for easier learning.
- **Intermediate Mode:** Offers moderate stabilization, allowing for more aggressive maneuvers while still providing assistance.
- **Expert Mode:** Disables most stabilization, giving the pilot full control for advanced aerobatics.

Switch between modes using the designated button on the transmitter.

8. Maintenance

Regular maintenance ensures the longevity and performance of your RC jet.

- **Cleaning:** Wipe the aircraft clean with a soft, dry cloth after each flight. Avoid using harsh chemicals.
- **Propeller Inspection:** Regularly check propellers for cracks or damage. Replace immediately if any damage is found.
- **Battery Care:** Store batteries in a cool, dry place. Do not leave batteries fully charged or fully discharged for extended periods.
- **Storage:** Store the aircraft in its original packaging or a protective case to prevent damage to the EPP foam.

9. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Aircraft does not respond to transmitter.	Not bound, low transmitter battery, low flight battery.	Re-bind aircraft, replace transmitter batteries, charge flight battery.
Aircraft flies erratically.	Strong winds, damaged propeller, incorrect trim settings.	Fly in calm conditions, replace propeller, adjust trim on transmitter.
Short flight time.	Battery not fully charged, old battery.	Ensure full charge, consider replacing battery if performance degrades.

10. Specifications

- **Model Number:** TR-F22B
- **Wingspan:** 10.5 inches
- **Fuselage Length:** 13.5 inches
- **Material:** Durable, lightweight EPP foam
- **Control Channels:** 4 (throttle, rudder, elevator, aileron)

- **Stabilization:** 6-Axis Gyro Xpilot Stabilization System
- **Transmitter:** 2.4 GHz
- **Range:** Over 300 feet
- **Battery:** 3.7V 360 mAh Lithium Polymer (included)
- **Charger:** USB Charger (included)

11. Warranty and Support

For warranty information or technical support, please refer to the contact details provided in your product packaging or visit the official Top Race website. Keep your proof of purchase for any warranty claims.

12. Official Product Video

Video: A demonstration of the Top Race remote control high-speed airplane in flight, showcasing its speed and maneuverability.

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