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Top Race TR-C385

Top Race TR-C385 4-Channel RC Airplane User Manual

Model: TR-C385

1. Introduction

Thank you for purchasing the Top Race TR-C385 4-Channel RC Airplane. This remote control aircraft is designed for both adults and advanced children, offering a stable and enjoyable flying experience with its 6-axis gyro stabilizer. It features a 20-inch wing span and is constructed from durable EPP foam. This manual provides essential information for safe operation, assembly, and maintenance of your RC airplane.

Image 1.1: The Top Race TR-C385 RC Airplane with its included accessories.

2. Package Contents

Please inspect the package contents to ensure all items are present and in good condition:

- 1x Top Race TR-C385 RC Airplane
- 1x Remote Control Transmitter
- 2x 3.7V 360mAh LiPo Batteries
- 3x Spare Propellers
- Propeller Savers (pre-installed or included separately)
- 1x USB Charging Cable
- 1x User Manual (this document)

Image 2.1: Overview of all items included in the Top Race TR-C385 package.

3. Safety Guidelines

Adherence to these safety guidelines is crucial for preventing injury and damage to the aircraft.

- **Age Recommendation:** This product is recommended for users aged 14 years and up.
- **Flight Environment:** Fly in open, clear areas away from people, buildings, trees, power lines, and water. Avoid flying in windy conditions.
- **Pre-Flight Check:** Always ensure the aircraft and remote control batteries are fully charged before each flight. Verify all controls are functioning correctly.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. The propeller can cause injury.
- **Battery Handling:** Use only the provided charging cable and batteries. Do not overcharge or short-circuit batteries. Discontinue use if batteries show signs of damage or swelling.
- **Material Caution:** The aircraft is made of EPP foam. Handle with care to avoid damage.
- **Supervision:** Younger users should always be supervised by an adult.

4. Setup and Assembly

4.1 Battery Charging

1. Connect the USB charging cable to a USB power source (e.g., computer, USB wall adapter).
2. Connect the battery to the charging cable. The indicator light on the USB cable will show charging status (refer to charger instructions for specific light patterns).
3. Once fully charged, disconnect the battery from the charger. Do not leave batteries unattended while charging.

4.2 Propeller Installation and Propeller Saver

The TR-C385 features a propeller saver mechanism designed to protect the propeller and motor during impacts. If the propeller detaches during a crash, simply reattach it to the motor shaft. Ensure it is securely fitted.

Image 4.1: The propeller saver technology helps prevent damage during impacts.

4.3 Aircraft and Transmitter Preparation

1. Insert the charged battery into the battery compartment of the airplane. Secure it to prevent movement during flight.
2. Turn on the airplane's power switch.

3. Install 4x AA batteries (not included) into the remote control transmitter.
4. Turn on the transmitter. The airplane and transmitter should automatically pair. If not, refer to the troubleshooting section.

5. Operating Instructions

The TR-C385 is a 4-channel RC airplane, providing control over throttle, rudder, elevator, and ailerons. It also features a steerable tail wheel for ground control.

Image 5.1: Key control surfaces of the TR-C385 airplane.

5.1 Transmitter Controls

- **Throttle:** Controls motor speed and altitude.
- **Rudder:** Controls yaw (left/right turning on the horizontal axis).
- **Elevator:** Controls pitch (nose up/down for climbing/descending).
- **Ailerons:** Controls roll (tilting wings left/right for banking turns).
- **Steerable Tail Wheel:** Allows for directional control during taxiing on the ground.

5.2 Flying Modes

The TR-C385 offers three levels of flying assistance: Easy, Medium, and Hard. These modes adjust the sensitivity of the controls and the level of gyro stabilization. Start with 'Easy' mode and progress as your skills improve.

- **Easy Mode:** Maximum gyro stabilization for beginners, providing stable flight.
- **Medium Mode:** Reduced gyro assistance, allowing for more agile maneuvers.
- **Hard Mode:** Minimal gyro assistance for experienced pilots, enabling full control and advanced aerobatics.

5.3 Take-off, Flight, and Landing

1. **Take-off:** Place the airplane on a flat surface facing into the wind. Gradually increase throttle while applying slight elevator input to lift off. Alternatively, hand-launch the plane with a gentle toss forward.
2. **Flight:** Use the control sticks to maneuver the airplane. Practice gentle turns and altitude changes.
3. **Landing:** Reduce throttle and approach the landing area. Maintain a slight nose-up attitude with elevator control to slow down and gently touch down.

6. Stunt Flying Features

The TR-C385 is capable of performing various stunts with ease, especially in Medium or Hard flying modes.

6.1 One-Key Aerobatics

With a simple push of a button on the transmitter, the airplane can perform pre-programmed stunts such as loops and spirals. Ensure sufficient altitude and clear airspace before activating stunt functions.

Image 6.1: The TR-C385 performing a one-key aerobatic loop.

Image 6.2: The transmitter features a dedicated button for one-key stunts and return functions.

7. Battery Information

The TR-C385 uses 3.7V 360mAh LiPo batteries. Proper battery care ensures optimal performance and longevity.

- **Battery Type:** 3.7V 360mAh LiPo (Lithium Polymer)
- **Charging Time:** Approximately 60-90 minutes (varies by power source).
- **Flight Time:** Up to 15 minutes per fully charged battery, depending on flying style and conditions.
- **Storage:** Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not store fully charged or fully discharged for extended periods.

8. Maintenance and Care

Regular maintenance will extend the life of your TR-C385 RC airplane.

- **Cleaning:** Wipe the aircraft with a soft, dry cloth after each flight to remove dirt or debris. Avoid using harsh chemicals.

- **EPP Foam Care:** The EPP foam material is durable but can be damaged by sharp objects or excessive force. Minor dents can sometimes be smoothed out with gentle heat (e.g., warm water, hairdryer on low setting, from a distance).
- **Propeller Replacement:** If a propeller is damaged beyond reattachment, replace it with one of the spare propellers provided. Ensure the new propeller is securely fitted.
- **Storage:** Store the airplane in its original packaging or a protective case to prevent damage. Remove batteries from both the airplane and transmitter during long-term storage.

9. Troubleshooting

Problem	Possible Cause	Solution
Airplane does not respond to transmitter.	Low battery in airplane or transmitter; not paired; interference.	Charge batteries; ensure both airplane and transmitter are on and paired; move to an area with less interference.
Short flight time.	Battery not fully charged; old battery; aggressive flying.	Ensure battery is fully charged; consider replacing old batteries; fly more gently.
Airplane flies erratically or drifts.	Trim settings incorrect; damaged control surface; strong wind.	Adjust trim on transmitter; inspect control surfaces for damage; avoid flying in windy conditions.
Propeller not spinning.	Propeller detached; motor damaged; battery issue.	Reattach or replace propeller; contact support if motor is damaged; check battery connection.

10. Specifications

- **Model:** TR-C385
- **Brand:** Top Race
- **Channels:** 4 (Throttle, Rudder, Elevator, Aileron)
- **Stabilization:** 6-Axis Gyro
- **Wing Span:** 20 inches (approx. 50.8 cm)
- **Length:** 14 inches (approx. 35.6 cm)
- **Weight:** 1 pound (approx. 0.45 kg)
- **Motor:** 10mm Coreless Motor
- **Battery:** 3.7V 360mAh LiPo
- **Transmitter Frequency:** 2.4GHz
- **Material:** EPP Foam
- **Recommended Age:** 14 years and up

11. Warranty and Support

Top Race products are designed for quality and performance. For any questions, technical assistance, or warranty claims, please contact Top Race customer support. Keep your purchase receipt as proof of purchase.

For further assistance, please visit the official Top Race website or contact their customer service department directly. Contact information can typically be found on the product packaging or the brand's official online

presence.

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