GoolRC C186 Remote Control Helicopter

GoolRC C186 Remote Control Helicopter User Manual

Model: C186

1. Introduction

The GoolRC C186 Remote Control Helicopter is an advanced single-propeller, aileronless drone designed for stable and enjoyable flight. Featuring a 6-axis gyroscope for enhanced stability, intelligent altitude hold, and a modular battery system, this helicopter is suitable for both beginners and experienced users. This manual provides essential information for safe and effective operation, maintenance, and troubleshooting.



Figure 1: GoolRC C186 Remote Control Helicopter and its accompanying remote controller.

2. Setup

2.1. Package Contents

Before beginning, ensure all components are present in the package:

- Screwdriver
- Remote Controller
- Flight Battery
- USB Cable
- Spare Propeller
- Wrench
- Tail Propeller
- User Manual (this document)



Figure 2: Visual representation of the items included in the product package.

2.2. Battery Installation and Charging

The GoolRC C186 utilizes a modular battery system for easy installation and replacement. The flight battery is a 350mAh lithium battery, providing approximately 15 minutes of flight time. The remote controller requires 1 AA battery (not included).

1. **Flight Battery:** Insert the fully charged 350mAh lithium flight battery into the helicopter's battery compartment. Ensure it clicks securely into place.
2. **Remote Controller Battery:** Open the battery cover on the back of the remote controller. Insert 1 AA battery, observing the correct polarity (+/-). Close the cover.
3. **Charging:** Connect the flight battery to the provided USB cable. Plug the USB cable into a compatible USB power source (e.g., computer USB port, USB wall adapter). The charging indicator will show the charging status. Disconnect once fully charged.



Figure 3: The modular battery design allows for quick and easy battery replacement.

2.3. Controller Pairing

To establish a connection between the helicopter and the remote controller:

1. Place the helicopter on a flat, level surface.
2. Turn on the helicopter's power switch. The indicator lights will begin to flash.
3. Turn on the remote controller.
4. Move the left joystick (throttle) all the way up, then all the way down. The indicator lights on the helicopter will become solid, indicating successful pairing.

3. Operating Instructions

The GoolRC C186 features a 6-axis gyroscope for stable flight and an aileronless design for strong power and stability.



Figure 4: The 6-axis gyroscope system ensures stable flight, making it suitable for beginners.

3.1. Basic Controls

- **One Key Take-off:** Press the one-key take-off button on the controller, and the helicopter will automatically ascend to a stable altitude.
- **One Key Landing:** Press the one-key landing button, and the helicopter will automatically descend and land gently.
- **Altitude Hold:** The helicopter maintains a stable altitude automatically, allowing for easier control of horizontal movement.
- **Directional Control:** Use the right joystick to control forward/backward, left/right movement. Use the left joystick to control altitude (up/down) and rotation (left/right yaw).



Figure 5: Simplified take-off and landing functions for ease of use.

3.2. Flight Modes

The helicopter offers multiple speed modes to suit different skill levels:

- **Slow Mode:** Ideal for beginners, providing gentle and predictable movement.
- **Medium Mode:** A balanced speed for intermediate users.
- **High Mode:** For experienced pilots seeking faster and more agile flight.



Figure 6: Adjustable flight speeds for varied user experience.

3.3. Night Flying

The helicopter is equipped with a nose searchlight, enhancing visibility and safety during low-light conditions.



Figure 7: The integrated nose searchlight improves visibility for night flights.

4. Maintenance

4.1. Cleaning

Regular cleaning helps maintain the helicopter's performance and longevity. Use a soft, dry cloth to wipe down the body. Avoid using harsh chemicals or excessive moisture.

4.2. Propeller Replacement

In case of damage, propellers can be replaced using the provided spare parts and tools.

1. Identify the damaged propeller (main or tail).
2. Use the provided wrench or screwdriver to carefully remove the damaged propeller.
3. Attach the new spare propeller, ensuring it is securely fastened. Refer to the markings (A/B) on the propellers and motor shafts for correct orientation.



Figure 8: Close-up view of the helicopter's craftsmanship and propeller attachment points.

4.3. Battery Care

To maximize battery life and ensure safe operation:

- Always use the original USB charging cable.
- Do not overcharge or over-discharge the battery.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.

5. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Helicopter does not respond to controller.	Not paired; low controller battery.	Re-pair the controller (Section 2.3); replace controller battery.
Short flight time.	Flight battery not fully charged; aging battery.	Fully charge the flight battery; consider replacing the flight battery.
Unstable flight / Drifting.	Improper calibration; damaged propeller.	Ensure helicopter is on a level surface during power-on; check and replace damaged propellers (Section 4.2).
Helicopter loses power during flight.	Low voltage alarm activated.	Land the helicopter immediately and recharge the flight battery.

6. Specifications

- **Brand:** GoolRC
- **Model:** C186 Remote Control Helicopter
- **Design:** Single Propeller, Aileronless
- **Stabilization:** 6-axis Gyroscope
- **Features:** Altitude Hold, One-Key Take-off/Landing, Nose Searchlight
- **Flight Battery:** 350mAh Lithium Battery (approx. 15 minutes flight time)
- **Controller Battery:** 1 AA battery required
- **Item Weight:** Approximately 1.63 pounds
- **Dimensions:** Approximately 12.95 x 10.31 x 3.39 inches (Package Dimensions)

7. Warranty & Support

GoolRC provides a satisfactory solution if there are any problems with your product. For technical support, warranty claims, or further assistance, please refer to the contact information provided on the product packaging or visit the official GoolRC website.