

GoAssemb C138 Bell 206

GoAssemb RC ERA C138 Bell 206 Helicopter User Manual

Model: C138 Bell 206 | Brand: GoAssemb

1. INTRODUCTION

Thank you for purchasing the GoAssemb RC ERA C138 Bell 206 Helicopter. This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your new remote-controlled helicopter. Please read this manual thoroughly before operating the helicopter to ensure proper function and to prevent damage or injury. This product is recommended for users aged 16 years and up.

2. SAFETY INFORMATION

WARNING: Failure to follow these instructions may result in injury or damage to the product.

- **Age Recommendation:** This product is intended for users 16 years and older. Adult supervision is recommended for younger users.
- **Flight Environment:** Operate the helicopter in open, clear areas, away from people, animals, buildings, power lines, and water. Avoid flying in strong winds.
- **Battery Safety:** Use only the provided charger and battery. Do not overcharge or short-circuit the battery. Discontinue use if the battery shows signs of swelling or damage.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. Always turn off the helicopter and remote control before handling the propellers.
- **Moisture:** Do not expose the helicopter or remote control to moisture or rain.
- **Maintenance:** Regularly inspect the helicopter for any damage. Do not operate if damaged.

3. PACKAGE CONTENTS

Carefully unpack all items and verify that all components are present and in good condition. If any items are missing or damaged, please contact customer support.



Image: The complete package contents, including the helicopter, remote controller, battery, spare propellers, tools, and USB charging cable.

- RC ERA C138 Bell 206 Helicopter (1 pc)
- 2.4G 6CH Remote Controller (1 pc)
- Modular Lithium Battery (1 pc)
- Main Propellers (2 pcs, spare)
- Hex Wrench (1 pc)
- Screwdriver (1 pc)
- USB Charging Cable (1 pc)
- Instruction Manual (1 pc)
- Optical Flow Sensor (pre-installed or included for optional installation)

4. PRODUCT OVERVIEW

The RC ERA C138 Bell 206 is a 1/33 scale remote-controlled helicopter designed for stable and precise flight. It features a 6-axis gyro system for enhanced stability and a 6-channel control system for versatile maneuvers. The helicopter also includes an optical flow sensor for improved altitude hold and positioning.



Image: The RC ERA C138 Bell 206 helicopter in red, black, and white, alongside its remote controller and product box.

Key Features:

- **Stable Flight:** Equipped with a 6-axis gyro system and aerodynamic propeller design for ultra-stable flight.
- **Easy Control:** 6-channel design with 3 digital servos provides precise control, suitable for beginners.
- **Altitude Hold:** Barometer altitude hold feature maintains a steady flight height.
- **Optical Flow Sensor:** Enhances hover stability and reduces flight time collision risks.
- **Modular Battery System:** Designed for quick installation and long-lasting power with intelligent power management. Includes a dedicated USB charger for fast and stable charging.
- **Advanced Functions:** Features include low voltage alarm, stuck protection, loss control protection, one-key takeoff and landing, and three-speed control.

HELICOPTER

Modular battery In exchange for convenience

Easy and quick installation
Effective protection of battery, longer service life



HELICOPTER

A six-axis gyroscope Calibrated steady flight

It has a stable, fast and accurate flight attitude
Especially suitable for novice pilots



Image: Visual representation of the modular battery system for convenience and the six-axis gyroscope for calibrated steady flight.

Components:

- **Main Rotor Blades:** Provide lift and control.
- **Tail Rotor:** Controls yaw (rotation around vertical axis).
- **Fuselage:** The main body of the helicopter.
- **Landing Skids:** Provide stable landing gear.
- **Optical Flow Sensor:** Located on the underside of the fuselage, aids in stable hovering.
- **Battery Compartment:** Houses the modular battery.
- **Power Switch:** Turns the helicopter on/off.



Image: A front view of the helicopter, clearly showing the optical flow sensor mounted on its underside.

5. SETUP

5.1 Charging the Battery

1. Connect the USB charging cable to a USB power adapter (not included, 5V/1A recommended).
2. Connect the other end of the USB charging cable to the helicopter's modular battery.
3. The indicator light on the USB charger will show the charging status (e.g., red for charging, green for fully charged).
4. Charging typically takes approximately 60-90 minutes. Do not leave the battery unattended while charging.

5.2 Installing the Helicopter Battery

1. Ensure the helicopter's power switch is in the OFF position.
2. Locate the battery compartment on the helicopter.
3. Insert the fully charged modular battery into the compartment, ensuring it clicks securely into place.

5.3 Installing Remote Controller Batteries

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



Image: A detailed view of the RC ERA remote controller, showing its joysticks and buttons.

5.4 Pairing the Helicopter and Remote Controller

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

6. OPERATING INSTRUCTIONS

Before your first flight, ensure you are in a safe, open area. Familiarize yourself with the remote controller functions.

6.1 Remote Controller Functions

- **Left Joystick (Throttle/Yaw):** Up/Down for altitude control, Left/Right for yaw (rotation).
- **Right Joystick (Pitch/Roll):** Up/Down for forward/backward flight (pitch), Left/Right for left/right flight (roll).
- **One-Key Takeoff/Landing Button:** Initiates automatic takeoff or landing.
- **Speed Switch Button:** Toggles between low, moderate, and high-speed modes.
- **Trim Buttons:** Used to fine-tune helicopter stability if it drifts in any direction.

6.2 Takeoff and Landing

HELICOPTER

Easy to use One-click takeoff and landing

Easy control of one key lift
A beginner's choice



HELICOPTER

Intelligent anti- stuck protection Avoid propeller damage

"Automatic stall" after propeller obstruction
Refuse security risks, play rest assured



Image: Depicts the ease of one-click takeoff and landing, and the intelligent anti-stuck protection feature to prevent propeller damage.

- **One-Key Takeoff:** After pairing, press the One-Key Takeoff/Landing button. The helicopter will automatically ascend to a stable hovering altitude.
- **Manual Takeoff:** Slowly push the left joystick (throttle) upwards. The propellers will spin, and the helicopter will lift off.
- **One-Key Landing:** During flight, press the One-Key Takeoff/Landing button. The helicopter will automatically descend and land gently.
- **Manual Landing:** Slowly pull the left joystick (throttle) downwards until the helicopter lands. Once landed, pull the throttle all the way down to stop the motors.

6.3 Flight Controls



Image: Illustrates the helicopter's capability for unrestricted multidirectional flight and the enhanced stability provided by air pressure altitude hold and optical flow positioning.

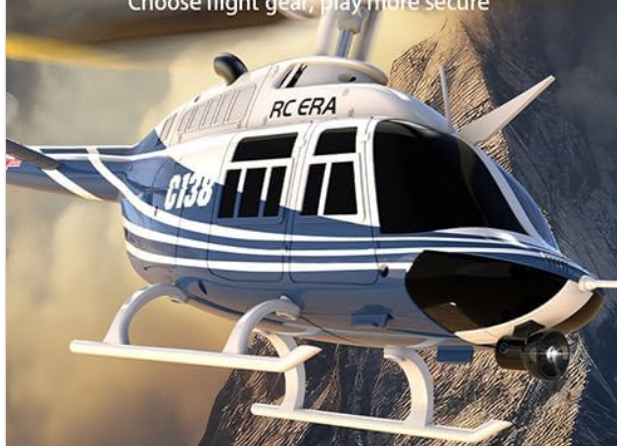
- **Ascend/Descend:** Use the left joystick (throttle) up/down.
- **Forward/Backward:** Push the right joystick up/down.
- **Left/Right Flight (Strafe):** Push the right joystick left/right.
- **Rotate Left/Right (Yaw):** Push the left joystick left/right.

6.4 Speed Adjustment

HELICOPTER

Three speed adjustment A more exciting flight experience

Multiple flight speeds can be configured according to individual operating proficiency
Choose flight gear, play more secure



Low speed 
Moderate speed 
High speed 

HELICOPTER

Six channel variable pitch structure Three steering engines Wind resistance stable no pressure

Model grade, smooth flight
Better handling feel



Image: Highlights the three-speed adjustment feature (low, moderate, high) for varied flight experiences and the six-channel variable pitch structure for stable wind resistance.

Press the speed switch button on the remote controller to cycle through three flight speeds: Low, Moderate, and High. Start with Low speed for beginners and gradually increase as you gain experience.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the helicopter and remote controller. Do not use chemical cleaners or solvents.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace damaged propellers immediately using the provided spare parts and screwdriver.
- **Battery Care:** Store the battery in a cool, dry place. Do not store fully charged or completely depleted for extended periods. Charge the battery at least once every three months if not in use.
- **Storage:** When not in use, store the helicopter and remote control in a dry, cool environment, away from direct

sunlight.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Helicopter does not respond to remote.	Not paired; low battery in remote or helicopter; out of range.	Re-pair the helicopter and remote. Charge helicopter battery. Replace remote batteries. Ensure helicopter is within operating range.
Helicopter cannot take off or flies weakly.	Low helicopter battery; damaged propellers.	Charge helicopter battery fully. Inspect and replace damaged propellers.
Helicopter drifts during flight.	Needs trimming; uneven surface during calibration.	Use trim buttons on the remote to correct drift. Ensure helicopter is placed on a flat, level surface before powering on for calibration.
Propellers stop unexpectedly (Stuck Protection).	Propeller obstruction.	Turn off helicopter, clear obstruction, then restart.
Helicopter loses control (Loss Control Protection).	Out of range; interference.	Bring helicopter closer to the remote. Avoid areas with strong electromagnetic interference.
Low Voltage Alarm.	Helicopter battery is low.	Land the helicopter immediately and charge the battery.

9. SPECIFICATIONS

Feature	Detail
Product Dimensions	12.28 x 3.11 x 3.98 inches
Item Weight	14.3 ounces
Model Number	BRI10VVH12NEFPMJAE200SH5
Manufacturer Recommended Age	16 years and up
Manufacturer	GoAssemb
Control System	2.4G 6CH RC System
Stabilization	6-axis Gyro System
Altitude Control	Barometer Altitude Hold, Optical Flow Positioning
Battery Type	Modular Lithium Battery
Special Features	One-Key Takeoff/Landing, Three-Speed Adjustment, Low Voltage Alarm, Stuck Protection, Loss Control Protection

10. WARRANTY AND SUPPORT

This GoAssemb product is manufactured with high-quality standards. For any questions, technical support, or warranty claims, please contact GoAssemb customer service through your retailer or the official GoAssemb website. Please retain your proof of purchase for warranty purposes.

For more information, visit the [GoAssemb Store on Amazon](#).

© 2023 GoAssemb. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question