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› [SYMA](#) /

› [SYMA F3 RC Helicopter User Manual](#)

SYMA F3

SYMA F3 RC Helicopter User Manual

Model: F3



INTRODUCTION

Thank you for purchasing the SYMA F3 2.4G 4CH LCD Remote Control RC Single Rotor Helicopter. This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your new helicopter. Please read this manual thoroughly before operating the helicopter to ensure proper use and to maximize your flying experience.

IMPORTANT SAFETY GUIDELINES

- **Adult Supervision:** This product is not a toy and requires adult supervision for operation by minors.
- **Flight Environment:** Operate the helicopter in open, clear areas, away from people, animals, buildings, and power lines. Avoid flying in strong winds.
- **Battery Safety:** Use only the specified batteries and charger. Do not overcharge or short-circuit batteries. Dispose of batteries properly.
- **Rotor Blades:** Keep hands, face, and loose clothing away from rotating blades. Blades can cause serious injury.
- **Water Exposure:** Do not expose the helicopter or remote control to water or moisture.
- **Pre-Flight Check:** Always perform a pre-flight check to ensure all parts are secure and functioning correctly.

PACKAGE CONTENTS

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

- 1 x SYMA F3 RC Helicopter
- 1 x Remote Controller
- 2 x 3.7V 150 mAh Li-polymer Batteries
- 1 x Battery Charger
- 1 x USB Data Cable
- Spare Rotor Blades (typically included, though not explicitly listed in "whats_in_the_box", but visible in images)



Image: Contents of the SYMA F3 package, including the helicopter, remote control, USB charging cable, spare blades, and battery charger.

SETUP GUIDE

1. Charging the Helicopter Battery

1. Connect the USB charging cable to a USB power source (e.g., computer USB port, USB wall adapter).
2. Connect the helicopter battery to the charging cable.
3. The charging indicator light will show the charging status (refer to charger instructions for specific light behavior).
4. Charging time is approximately 60 minutes for a full charge. Do not overcharge.



Image: Close-up of the 3.7V 150 mAh Li-polymer battery and the USB charging cable.

2. Installing Remote Controller Batteries

- The remote controller requires 4 x 1.5V AA batteries (not included).
- Open the battery compartment on the back of the remote controller.
- Insert the batteries, ensuring correct polarity (+/-).
- Close the battery compartment securely.

3. Installing Helicopter Battery

- Carefully insert the charged Li-polymer battery into the helicopter's battery compartment.
- Connect the battery connector to the helicopter's power port.
- Ensure the battery is securely seated and the wires are not pinched.

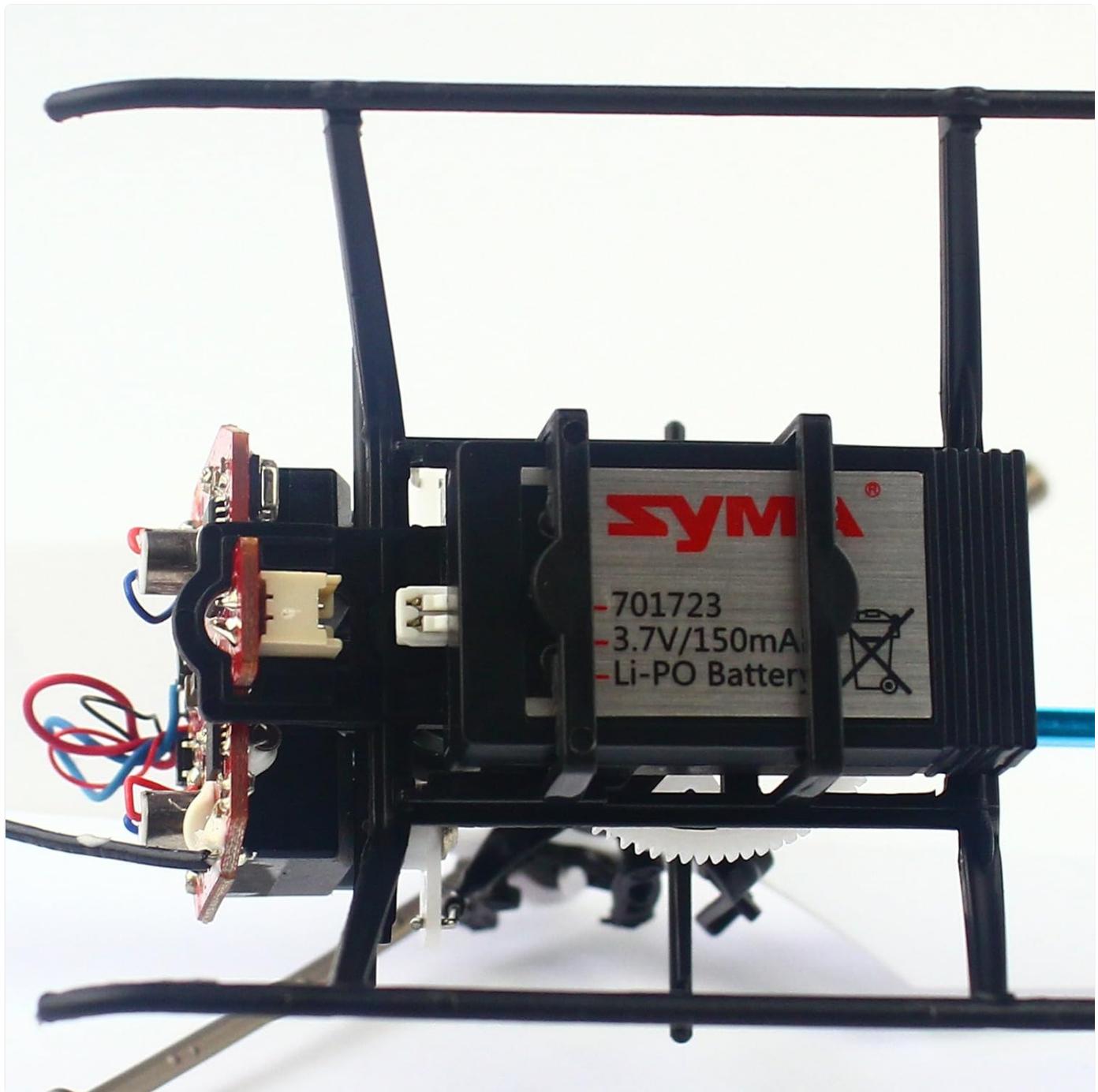


Image: Detailed view of the SYMA F3 helicopter's battery compartment, showing the 3.7V 150mAh Li-PO battery installed.

4. Binding 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. The remote's indicator light will flash.
4. Push the throttle stick (left stick) all the way up, then all the way down.
5. The indicator lights on both the helicopter and remote control should become solid, indicating a successful binding.
6. If binding fails, turn off both devices and repeat the process.

OPERATING INSTRUCTIONS

Remote Controller Functions



Image: The SYMA F3 helicopter alongside its 2.4G LCD remote control.

- **Left Stick (Throttle/Yaw):**

- Up/Down: Controls altitude (throttle).
- Left/Right: Controls yaw (rotation around vertical axis).

- **Right Stick (Pitch/Roll):**

- Up/Down: Controls pitch (forward/backward movement).
- Left/Right: Controls roll (sideways movement).

- **Trimming Buttons:** Used to fine-tune the helicopter's stability if it drifts in any direction. Adjust in small increments until stable.
- **LCD Screen:** Displays flight information such as throttle position, trim settings, and battery level.

Basic Flight Operations

1. **Take-off:** Slowly push the left stick (throttle) upwards. The helicopter will ascend. Increase throttle gradually until it lifts off the ground.
2. **Hovering:** Adjust the throttle stick to maintain a stable altitude. Use the right stick and trim buttons to keep the helicopter stationary.
3. **Forward/Backward Flight:** Gently push the right stick forward or backward.
4. **Sideways Flight:** Gently push the right stick left or right.
5. **Turning:** Use the left stick left or right to rotate the helicopter.
6. **Landing:** Slowly pull the left stick (throttle) downwards. Reduce throttle gradually until the helicopter gently lands. Cut throttle completely once on the ground.

Tip: Practice hovering at a low altitude first to get a feel for the controls before attempting more complex maneuvers.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the helicopter and remote control. Do not use water or solvents.
- **Blade Inspection:** Regularly check rotor blades for damage (cracks, bends). Replace damaged blades immediately to ensure safe flight.



Image: Close-up view of the SYMA F3 helicopter's tail rotor assembly.

- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted batteries for extended periods.
- **Storage:** When not in use, store the helicopter and remote control in a safe place, away from direct sunlight and extreme temperatures.
- **Component Check:** Periodically check all screws and connections to ensure they are secure.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Helicopter does not respond to remote.	Not bound, low battery (helicopter or remote), power switch off.	Ensure both are powered on. Re-bind helicopter and remote. Charge helicopter battery. Replace remote batteries.

Problem	Possible Cause	Solution
Helicopter drifts during flight.	Needs trimming, damaged blades, uneven surface for take-off.	Use trim buttons on the remote. Inspect and replace damaged blades. Take off from a flat surface.
Helicopter does not lift off.	Low helicopter battery, damaged main rotor blades, motor issue.	Charge helicopter battery fully. Check and replace main rotor blades. Contact support if motor issue suspected.
Short flight time.	Battery not fully charged, aging battery.	Ensure battery is fully charged. Consider replacing battery if it's old.

SPECIFICATIONS

- Model:** SYMA F3
- Fuselage Length:** 245mm
- Fuselage Height:** 90mm
- Fuselage Width:** 55mm
- Helicopter Battery:** 2 x 3.7V 150 mAh Li-polymer battery
- Controller Battery:** 4 x 1.5V AA (not included)
- Charging Time:** Approximately 60 minutes (USB Charging)
- Flying Time:** Approximately 5 - 6 minutes
- Control Distance:** Approximately 30 meters
- Frequency:** 2.4GHz
- Channels:** 4CH



Image: Diagram showing the dimensions of the SYMA F3 helicopter (24.5cm length, 9cm height, 5.5cm width) and various color options.

WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact SYMA customer service. Refer to the product packaging or the official SYMA website for the most current contact details.

SYMA Official Website: www.symatoys.com

