SYMA S52H

SYMA S52H Military Transport RC Helicopter Instruction Manual

Model: S52H

1. Introduction

This manual provides essential information for the safe and effective operation of your SYMA S52H Military Transport RC Helicopter. Please read it thoroughly before first use and retain it for future reference. The SYMA S52H is a remote-controlled helicopter designed for recreational flight, featuring a realistic military transport design, altitude hold, and one-key takeoff/landing functions.

Image 1.1: The SYMA S52H Military Transport RC Helicopter.

2. Safety Guidelines

- **Adult Supervision:** Always ensure adult supervision, especially for younger users.
- **Flight Environment:** Fly in open, clear areas free from obstacles, people, and animals. Avoid flying near power lines, trees, or water.
- **Weather Conditions:** Do not fly in strong winds or adverse weather conditions. This helicopter is designed for indoor flight or outdoor use in calm conditions.
- **Battery Safety:** Use only the specified charging cable and follow charging instructions. Do not overcharge or short-circuit batteries. Remove batteries from the controller when not in use.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers. In case of a jam, the smart safety system will auto shut-off to prevent motor damage.
- **Product Care:** Do not expose the helicopter to extreme heat, moisture, or direct sunlight. Do not immerse the toy in water.

3. Package Contents

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

- 1 x RC Helicopter (S52H)
- 1 x Remote Controller
- 1 x USB Charging Cable
- 1 x Screwdriver
- 2 x Spare Blades A
- 2 x Spare Blades B
- 2 x Spare Latch

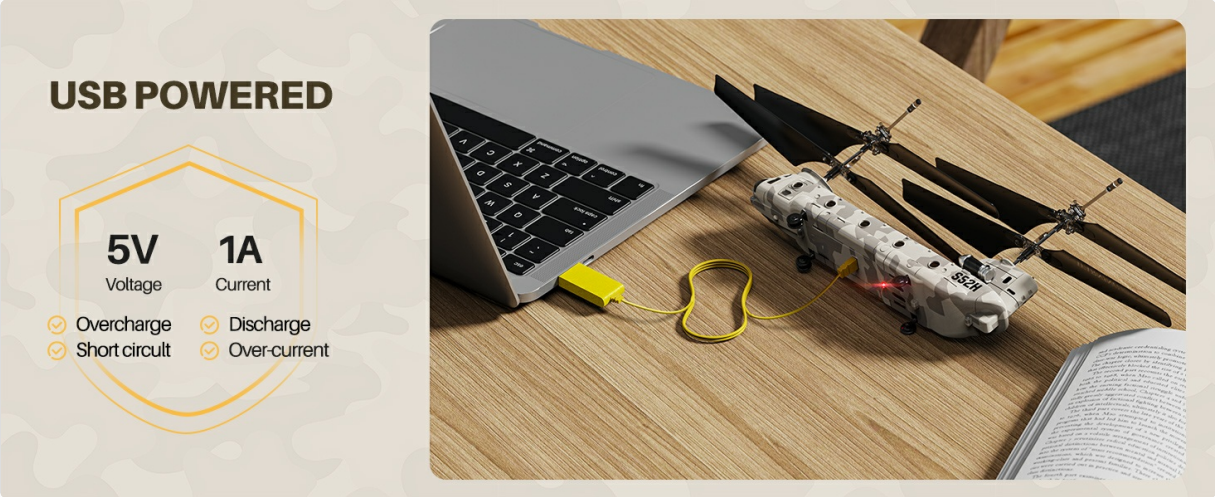

Image 3.1: Visual representation of the SYMA S52H package contents.

4. Setup

4.1. Controller Battery Installation

The remote controller requires 4 x 1.5V AA batteries (not included).

1. Use the provided screwdriver to open the battery compartment on the back of the remote controller.
2. Insert 4 x 1.5V AA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment and secure it with the screw.

4.2. Helicopter Charging

The helicopter has a built-in 3.7V/150mAh Lithium Polymer battery.

1. Switch the helicopter to "OFF".
2. Connect the charging cable to the helicopter's charging port.
3. Plug the other end of the USB cable into a computer's USB port or a 5V/1A USB adapter.
4. The red indicator light on the USB cable will illuminate during charging and turn off when fully charged. Charging time is approximately 60 minutes.

Image 4.1: Charging the helicopter via USB.

4.3. Propeller Check

Before each flight, ensure all propellers are securely attached and free from damage. Replace any damaged blades using the provided spare parts and screwdriver.

5. Operating Instructions

5.1. Power On and Pairing

1. Ensure the helicopter is fully charged and the controller has fresh batteries.
2. Turn on the helicopter by sliding the ON/OFF switch. The helicopter's indicator light will flash rapidly.
3. Turn on the remote controller. Its indicator light will also flash.
4. To pair, push the left joystick (throttle) to the highest point, then pull it back to the lowest point. The indicator lights on both the helicopter and controller will become solid, indicating successful pairing.

5.2. Basic Flight Controls

The remote controller features a user-friendly layout for intuitive flight.

- **One-Key Takeoff/Landing:** Press the dedicated button on the controller for automatic takeoff and safe landing.
- **Altitude Hold:** Equipped with advanced pressure sensors, the helicopter maintains a stable height for smooth hovering, allowing for easier control.
- **Ascend/Descend:** Use the left joystick (throttle) to control vertical movement.
- **Forward/Backward:** Push the right joystick forward or backward.
- **Left/Right Turns:** Push the right joystick left or right to turn the helicopter.

Image 5.1: Basic flight movements of the helicopter.

Image 5.2: One-Key Takeoff/Landing and Altitude Hold functions.

5.3. Low Battery Indicator

The helicopter features a low-battery indicator light that flashes to remind you when it's time to recharge. Ensure to land the helicopter safely when this indicator appears.

Image 5.3: Low battery reminder light on the helicopter.

5.4. Smart Safety System

If the blades become jammed or blocked during flight, the auto shut-off feature will activate to prevent motor damage, enhancing the durability of the product.

6. Maintenance

6.1. Cleaning

Use a dry and soft cloth to clean the helicopter. Avoid using water or cleaning solutions that may damage electrical components.

6.2. Battery Storage

When not in use for extended periods, remove the batteries from the remote controller to prevent leakage and damage.

6.3. Propeller Replacement

If propellers are damaged, replace them with the spare blades provided in the package. Ensure to match the 'A' and 'B' blades correctly to their respective positions.

7. Troubleshooting

Refer to the table below for common issues and their solutions:

Issue	Reason	Troubleshooting
Helicopter does not respond	• Pairing failure • Low voltage protection • Wrong/mixed batteries in remote • Multiple collisions leading to motor damage	• Restart both remote and helicopter, then re-pair. • Charge the helicopter. • Use 4 new 1.5V AA batteries for the remote. • Contact support for motor replacement.
Helicopter doesn't work properly	• Weak remote control power • Interference with same frequency • Unstable air pressure (severe weather) • Battery fully depleted • Motor or barometer sensor damaged	• Change remote batteries. • Fly in an area with no interference. • Avoid bad weather; fly indoors or in calm conditions. • Charge helicopter or use new 1.5V AA batteries for remote. • Replace motor/barometer sensor if damaged.

Issue	Reason	Troubleshooting
Helicopter spins on takeoff / spins in place without flying	• Blades too tight • Missing or misaligned locking clips • Missing or damaged balance rod • Main shaft slipping	• Loosen blades by 1-2 turns for smooth rotation. • Check and replace locking clips if necessary. • Replace the balance rod. • Loosen main shaft mount screws and reinstall shaft correctly.

Table 7.1: Troubleshooting solutions for the SYMA S52H helicopter.

8. Specifications

- **Product Dimensions:** 10 x 1.45 x 4 inches (26.5 x 3.7 x 10 cm)
- **Item Weight:** 9.3 ounces (46.9 g)
- **Item Model Number:** S52H
- **Manufacturer Recommended Age:** 8 years and up
- **Batteries:** 1 Lithium Polymer battery required (built-in) for helicopter, 4 x AA batteries (not included) for remote.
- **Charge Mode:** USB 5V
- **Charge Time:** Approximately 60 minutes
- **Flight Time:** Approximately 7-10 minutes
- **Flight Altitude:** Up to 10 meters
- **Control Distance:** Up to 20 meters
- **Frequency:** 2.4GHz
- **Use Environment:** Indoors or no wind outdoors

Image 8.1: Dimensions of the SYMA S52H helicopter.

Image 8.2: Detailed product features and specifications.

9. Warranty & Support

For warranty information, technical support, or any inquiries regarding your SYMA S52H helicopter, please contact SYMA customer service:

- **Phone (US):** +1 (718) 312-0558
- **Email (US):** usa@symatoys.com
- **Website:** http://www.symatoys.com.cn