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› GoolRC WLtoys F959S RC Airplane Sky-King Instruction Manual

GoolRC CRE6253068669542OY

GoolRC WLtoys F959S RC Airplane Instruction Manual

Model: CRE6253068669542OY | Brand: GoolRC

1. INTRODUCTION

The GoolRC WLtoys F959S Sky-King is a 3-channel remote control glider designed for both beginners and experienced enthusiasts. It features a durable EPO construction, a 6-axis gyroscope for stable flight, and a folding propeller for reduced resistance during gliding. This manual provides essential information for assembly, operation, maintenance, and troubleshooting to ensure a successful and enjoyable flying experience.



Image 1.1: The GoolRC WLtoys F959S RC Airplane and its accompanying remote control.

Key Features:

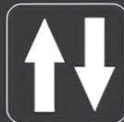
- **Three-channel backward pusher glider:** Designed for efficient flight and easy control.
- **EPO Construction:** Ensures strong impact resistance and durability.
- **Built-in 6-axis gyro:** Provides enhanced flight stability and smoothness, suitable for beginners.
- **High discharge rate battery:** Offers approximately 15 minutes of flying time and over 20 minutes of gliding time.
- **Folding propeller:** Reduces drag when gliding, improving efficiency.
- **Lightweight Streamline Fuselage:** Weighing only about 100g, contributing to stable flying performance.

SKY-KING

F959S 3CH 6-Axis Gyro Airplane



USB Fast Charging



3CH 2.4GHz
LCD PRO Transmitter



7.4V 300mAh/20C
Battery

Image 1.2: Overview of key features including USB fast charging, 2.4GHz transmitter, and battery specifications.

BUILT-IN 6-AXIS GYROSCOPE

Built-in 6-axis gyro design, making the flight more stable and smooth



Image 1.3: Illustration of the integrated 6-axis gyroscope, which enhances flight stability.

LIGHT STREAMLINE FUSELAGE

Ultralight body, only about 100g. Streamline shape, very stable flying performance, suitable for beginners



LIGHTWEIGHT STREAMLINE BODY

Image 1.4: The ultralight, streamline body design, weighing approximately 100g, contributes to stable flight.

2. PACKAGE CONTENTS

Before beginning assembly, please verify that all components listed below are present in your package:

- WLtoys F959S body
- Left wing
- Right wing
- Wing spar
- 7.4V 300mAh LiPo battery
- X4 transmitter (mode 2, left hand throttle)

- USB charger
- English user manual



Image 2.1: All items included in the product package.

3. SETUP AND ASSEMBLY

3.1 Wing and Nose Assembly

The F959S features a detachable fixed-wing design and a detachable nose for easy assembly and transport. Carefully attach the left and right wings to the main body, ensuring they are securely in place. The nose cone can also be attached or detached as needed.

DETACHABLE FIXED-WING

Gravity of the airplane matters a lot to the flight, please make sure the gravity centre placed about 30-33cm away from the frontline of the wing



Image 3.1: The detachable fixed-wing and nose components. Ensure the center of gravity is correctly positioned for optimal flight.

3.2 Battery Installation and Charging

1. **Aircraft Battery:** Insert the provided 7.4V 300mAh LiPo battery into the designated compartment within the aircraft body. Ensure the connectors are properly aligned and secured.
2. **Charging:** Connect the LiPo battery to the USB charger. Plug the USB charger into a compatible USB power source (e.g., computer USB port, USB wall adapter). The charging time is approximately 30-40 minutes. Do not overcharge the battery.
3. **Transmitter Battery:** Open the battery compartment on the back of the X4 transmitter. Insert 4 x 1.5V AA batteries (not included), observing the correct polarity. Close the compartment securely.

4. OPERATING INSTRUCTIONS

4.1 Pre-Flight Check

- Ensure both the aircraft battery and transmitter batteries are fully charged.

- Verify all parts are securely assembled (wings, nose).
- Check that the propeller is free from obstructions and can fold correctly.
- Perform a range check to ensure the 2.4G signal is strong (control distance up to 200 meters).

4.2 Take-Off Method

For optimal take-off, hold the aircraft firmly and throw it with a gentle, flat, level motion. Avoid throwing it with the nose pointing too far up or down, as this can lead to an unstable initial flight path.

TAKE-OFF METHOD

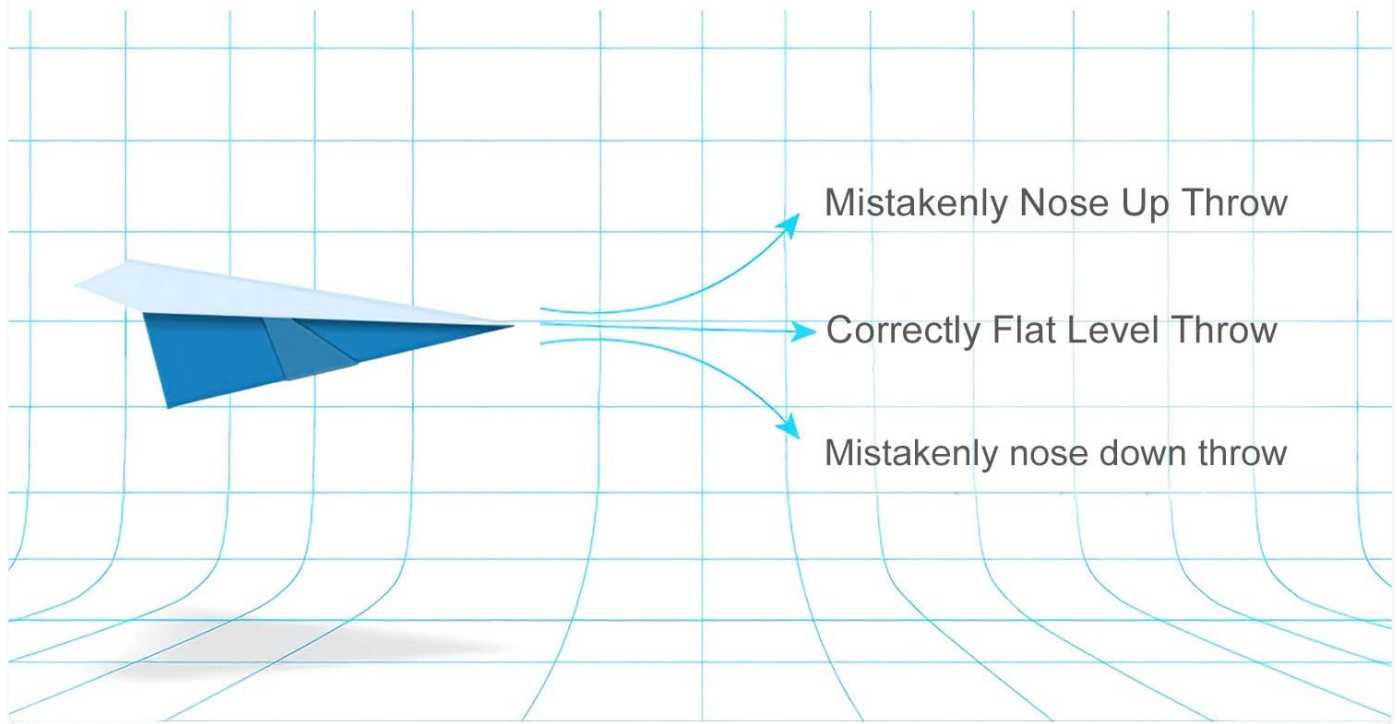


Image 4.1: Proper take-off technique involves a correctly flat level throw. Avoid mistakenly nose-up or nose-down throws.

4.3 Flight Controls and Characteristics

The F959S is a 3-channel aircraft, providing control over throttle, rudder, and elevator. The built-in 6-axis gyro assists in maintaining stable and smooth flight, making it forgiving for new pilots.

- **Throttle:** Controls the motor speed and altitude.
- **Rudder:** Controls the yaw (left/right turning) of the aircraft.
- **Elevator:** Controls the pitch (nose up/down) of the aircraft.

Utilize the rudder channel to execute slides and spirals. You can turn off the motor during flight to allow the aircraft to glide freely, extending flight time and practicing gliding maneuvers.

THE RUDDER CONTROLLING SLIDE AND SPIRAL



Image 4.2: The rudder allows for slide and spiral control. The system operates on a 2.4GHz frequency with a range exceeding 200 meters.



RUDDER CONTROL SLIDE AND SPIRAL

Use RUDDER channel to make airplane tilt and turn, then turn off the motor, letting it freely slide and spiral

Image 4.3: The folding propeller mechanism and how the rudder can be used to control slides and spirals by turning off the motor.

5. MAINTENANCE

5.1 General Care

- **Cleaning:** After each flight, gently wipe down the aircraft body with a soft, dry cloth to remove any dirt or debris. Avoid using harsh chemicals or solvents.
- **Inspection:** Regularly inspect the wings, fuselage, propeller, and control surfaces for any signs of damage, cracks, or loose connections. Address any issues before the next flight.
- **Propeller:** Ensure the folding propeller mechanism operates smoothly and is free from obstructions.

5.2 Battery Care and Storage

- **Storage:** Store the LiPo battery in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to store LiPo batteries at a storage charge (around 3.8V per cell), not fully charged or fully discharged.
- **Charging Safety:** Always charge batteries on a non-flammable surface and never leave charging batteries unattended.

- **Disposal:** Dispose of damaged or old LiPo batteries responsibly according to local regulations.

5.3 Storage of Aircraft

When not in use, store the aircraft in its original packaging or a protective case to prevent damage. Detaching the wings and nose can help save space and protect components during storage.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your GoolRC WLtoys F959S RC Airplane.

Problem	Possible Cause	Solution
Aircraft does not power on.	Battery not connected, battery discharged, damaged battery/wiring.	Ensure battery is fully charged and correctly connected. Check for visible damage to battery or connectors.
No connection with remote control.	Transmitter batteries low/incorrectly installed, binding issue, interference.	Replace transmitter batteries. Follow binding procedure in the user manual. Ensure no strong interference sources nearby.
Aircraft crashes or nose-dives immediately after take-off.	Incorrect take-off throw, improper center of gravity, control surface issues.	Refer to Section 4.2 for correct take-off method. Ensure the center of gravity is balanced (approx. 30-33cm from wing frontline). Check if control surfaces (rudder, elevator) move freely and correctly.
Short flight time.	Battery not fully charged, old/degraded battery, continuous high throttle.	Ensure battery is fully charged before each flight. Consider replacing old batteries. Practice gliding to extend flight duration.
Missing parts upon arrival.	Packaging error.	Immediately contact the seller or manufacturer's customer support with your order details and a list of missing items. Refer to Section 2 for package contents.

7. SPECIFICATIONS

Detailed technical specifications for the GoolRC WLtoys F959S RC Airplane:

Feature	Specification
Item No.	F959S
Item Name	Sky-King 3CH RC Airplane
Color	Blue (optional Red)

Feature	Specification
Charger	USB
Material	EPO
Wingspan	750mm
Overall Length	570mm
Frequency	2.4G
Airplane Battery	7.4V 300mAh (included)
Transmitter Battery	4 * 1.5V AA (not included)
Flying Time	About 15 minutes
Gliding Time	Over 20 minutes
Charging Time	30-40 minutes
Control Distance	200 meters
Driving Motor	N60
Net Weight	100g
Package Dimensions	58 * 27 * 14cm (Product: 24.4 x 10.4 x 5.6 inches)
Package Weight	1004g (Product: 3.53 ounces)
Manufacturer Recommended Age	14 years and up

8. WARRANTY INFORMATION

GoolRC products are manufactured to high quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official GoolRC website. Typically, warranty covers manufacturing defects for a limited period from the date of purchase. Please retain your proof of purchase for any warranty claims.

9. CUSTOMER SUPPORT

If you encounter any issues not covered in this manual, or require further assistance, please contact GoolRC customer support. You can typically find contact information (email, phone, or support portal) on the official GoolRC website or through the retailer where you purchased the product. When contacting support, please provide your product model number (F959S) and a detailed description of the issue.

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