

Goosky S2

Goosky Legend S2 Electric High-Performance Micro RC Helicopter User Manual

Model: S2 | Brand: Goosky

PRODUCT OVERVIEW

The Goosky Legend S2 is a high-performance, innovative, and aerobatic micro RC helicopter designed for both indoor and outdoor flying. It incorporates advanced features such as dual direct-drive brushless motors, a compact GTS control system, and mobile app parameter adjustments, offering a precise and exhilarating flight experience for enthusiasts. Its robust design and advanced technology make it suitable for various skill levels.



Figure 1: The Goosky Legend S2 RC Helicopter (pink and black) shown alongside its T8 remote control unit. The helicopter features main rotor blades, a tail rotor, and landing skids. The remote control has joysticks and various switches for operation.

PACKAGE CONTENTS

Upon opening the package, ensure all the following items are present and in good condition:

- 1 x Goosky Legend S2 Helicopter
- 1 x EPP Box (for storage and transport)
- 1 x Battery (11.1V 750mAh 45C)
- Some Spare Screws
- 3 x Servo Arms
- Main Axis & Horizontal Axis components
- 1 x T8 Remote Control (included in RTF version, not in BNF version)

IMPORTANT SAFETY INFORMATION

Operating an RC helicopter requires caution and adherence to safety guidelines to prevent injury or damage.

- **Age Restriction:** This product is not suitable for children. It is intended for adult users or those with appropriate supervision and experience in RC models.
- **Flying Environment:** Always operate the helicopter in open, clear areas, away from people, animals, buildings, and power lines. Avoid flying in strong winds or adverse weather conditions.
- **Battery Safety:** Use only the specified battery and charger. Do not overcharge or short-circuit the battery. Discontinue use if the battery shows signs of swelling or damage.
- **Propeller Safety:** The main and tail rotors spin at high speeds and can cause serious injury. Keep hands, face, and loose clothing clear of the propellers when the helicopter is powered on.
- **Pre-Flight Check:** Before each flight, inspect the helicopter for any damage, loose parts, or obstructions. Ensure all controls are functioning correctly.
- **Emergency Procedures:** Familiarize yourself with the emergency shutdown procedure for the helicopter and remote control.

INITIAL SETUP

1. Unpacking and Inspection

Carefully remove all components from the EPP box. Inspect the helicopter for any visible damage that may have occurred during shipping. Check that all parts listed in the "Package Contents" section are present.

2. Battery Charging

The helicopter is powered by an 11.1V 750mAh 45C battery. Before the first flight, fully charge the battery using the provided charger.

1. Connect the battery to the charger according to the charger's instructions.
2. Plug the charger into a suitable power source.
3. The typical charging time is approximately 20 minutes. Do not leave the battery unattended during charging.
4. Once charging is complete, disconnect the battery from the charger.

3. Transmitter (T8) Overview and Pairing

If you have the RTF (Ready-to-Fly) version, your package includes the Goosky T8 remote control.

1. Ensure the T8 remote control's battery is charged (2800mAh 3.7V, Type-C charging interface).
2. Power on the T8 remote control.
3. Connect the helicopter's battery. The helicopter will enter binding mode (refer to the helicopter's LED indicator for status).
4. Follow the T8 manual for specific pairing instructions. The T8 is designed for brief operation with no complex setup menus.
5. Once paired, test the control surfaces (cyclic, collective, rudder) to ensure they respond correctly to transmitter inputs.

4. Mobile APP Parameter Adjustment

The Goosky Legend S2 features a GTS control system with wireless program upgrade and mobile APP parameter adjustment via Bluetooth.

1. Download the official Goosky mobile application from your device's app store.
2. Ensure Bluetooth is enabled on your mobile device.
3. Power on the helicopter and the remote control.
4. Open the Goosky APP and connect to your S2 helicopter via Bluetooth.

5. Through the app, you can adjust various parameters such as gyro settings, control throws, pitch curves, and head speeds to fine-tune the helicopter's performance to your preference.

OPERATING YOUR GOOSKY LEGEND S2

1. Pre-Flight Checks

1. Verify battery is fully charged in both helicopter and transmitter.
2. Ensure main and tail rotor blades are securely attached and free from damage.
3. Check all linkages and servo arms for free movement and secure connections.
4. Confirm the flying area is clear of obstacles, people, and animals.

2. Basic Flight Controls

Familiarize yourself with the T8 remote control's stick functions:

- **Left Stick (Throttle/Collective):** Controls the main rotor speed and blade pitch for altitude control (up/down).
- **Left Stick (Rudder):** Rotates the helicopter left or right on its vertical axis.
- **Right Stick (Aileron/Cyclic Roll):** Tilts the helicopter left or right for sideways movement.
- **Right Stick (Elevator/Cyclic Pitch):** Tilts the helicopter forward or backward for forward/backward movement.

Start with gentle movements and practice hovering in a controlled environment before attempting more complex maneuvers.

3. Advanced Flight Modes and Aerobatics

The GTS flight controller system offers two flight modes for varying skill levels. Consult the mobile APP for details on switching between modes and configuring advanced settings for aerobatic flight. The S2 is designed for high-performance maneuvers, including inverted flight and 3D aerobatics.

MAINTENANCE AND CARE

Regular maintenance ensures the longevity and optimal performance of your Goosky Legend S2.

- **Cleaning:** After each flight, gently wipe down the helicopter with a soft, dry cloth to remove dust, dirt, or debris. Avoid using harsh chemicals.
- **Rotor Blades:** Inspect main and tail rotor blades for cracks, chips, or deformities. Replace damaged blades immediately. Ensure they are securely fastened.
- **Motors:** The S2 features dual brushless direct-drive motors. Keep them free from obstructions and debris. Listen for unusual noises during operation.
- **Linkages and Servos:** Check all control linkages for free movement and ensure servo arms are tight. The DS15 control actuators are all-metal gear digital servos; ensure they operate smoothly.
- **Battery Storage:** Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to approximately 50% capacity.
- **Frame and Landing Gear:** Inspect the one-piece lightweight high-toughness nylon landing gear and the two-layer board fuselage for any signs of stress or damage. The CNC metal reinforcements should also be checked.

TROUBLESHOOTING GUIDE

This section addresses common issues you might encounter with your Goosky Legend S2.

Problem	Possible Cause	Solution
Helicopter does not power on.	Battery not charged or improperly connected; power switch off.	Ensure battery is fully charged and securely connected. Turn on the helicopter's power switch.
No response from controls.	Transmitter not paired; transmitter battery low; helicopter not powered on.	Re-pair transmitter and helicopter. Charge transmitter battery. Power on helicopter.
Unstable flight or drifting.	Improper trim settings; damaged rotor blades; gyro calibration needed.	Adjust trim on transmitter. Inspect and replace damaged blades. Perform gyro calibration via mobile APP.
Tail rotor not responding correctly.	Tail rotor motor issue; damaged tail rotor blade; linkage problem.	Check tail rotor blade for damage and replace if necessary. Inspect tail motor for obstructions.
Mobile APP connection issues.	Bluetooth not enabled; helicopter not powered on; app not updated.	Ensure Bluetooth is on. Power on helicopter. Update Goosky APP to the latest version.

TECHNICAL SPECIFICATIONS

Detailed specifications for the Goosky Legend S2 Helicopter and T8 Remote Control.

Goosky S2 Helicopter

Parameter	Value
Model	S2
Length	436mm
Height	144mm
Main Rotor Length	193mm
Main Rotor Diameter	440mm
Tail Rotor Diameter	78mm
Takeoff Weight	345g
Battery	11.1V 750mAh 45C
Charging Time	Approx. 20 min
Flight Time	Approx. 10 min

Parameter	Value
DS15 Control Actuator	10g 5V 0.08sec / 60 degree 1.65kg.cm (All-metal gear digital servo)

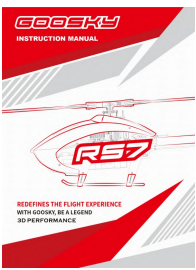

T8 Remote Control (Optional)





Parameter	Value
Product Model	T8
Size (L*W*H)	153*93*154 mm
Remote Control Distance	300m
Capacitor Specifications	2800mAh 3.7V
Operating Voltage	3.7V
Charging Interface	Type-C
Low Voltage Alarm	3.35V
Weight	335g

WARRANTY AND CUSTOMER SUPPORT

For specific warranty details and customer support inquiries, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your proof of purchase for any warranty claims.

Related Documents - S2

	<p>GOOSKY RS7 RC Helicopter - User Manual</p> <p>Detailed information on the GOOSKY RS7 RC Helicopter, developed by GOOSKY and distributed by XLPower RC SA. This model is designed for flying stability, catering to beginners in the RC helicopter market.</p>
	<p>GOOSKY E2 Helicopter Instruction Manual</p> <p>Comprehensive instruction manual for the GOOSKY E2 radio control helicopter, covering assembly, operation, safety precautions, and specifications. Learn how to safely assemble, maintain, and fly your E2 helicopter.</p>

	<p>GooSky E2 Helicopter Instruction Manual</p> <p>This manual provides detailed instructions for the assembly, operation, and maintenance of the GooSky E2 radio-control helicopter. It covers safety precautions, component identification, assembly steps, flight parameter settings, and transmitter descriptions.</p>
	<p>Goosky T8 Remote Control Instruction Manual</p> <p>Comprehensive guide for the Goosky T8 remote control, covering setup, operation, binding, and maintenance. Learn to use your Goosky remote control effectively.</p>
	<p>GOOSKY S1 Instruction Manual: Assembly and Operation Guide</p> <p>Comprehensive instruction manual for the GOOSKY S1 radio control helicopter, covering assembly, safety precautions, specifications, and flight parameter settings.</p>
	<p>GOOSKY S2 Quick Start Guide</p> <p>A quick start guide for the GOOSKY S2 aerobatic helicopter, covering setup, controls, and app connectivity.</p>