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> ZLL Beast SG116 MAX Brushless 1/16 Scale 4WD RC Truck Instruction Manual

## ZLL SG116MAX

# ZLL Beast SG116 MAX Brushless 1/16 Scale 4WD RC Truck Instruction Manual

Model: SG116MAX | Brand: ZLL

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## INTRODUCTION

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This manual provides essential instructions for the safe and effective operation, maintenance, and setup of your ZLL Beast SG116 MAX Brushless 1/16 Scale 4WD RC Truck. Please read this manual thoroughly before first use and retain it for future reference.



Image: The ZLL Beast SG116 MAX RC Truck with its remote control, battery, charger, and tools.

## SAFETY INFORMATION

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**WARNING: Not suitable for children under 3 years due to small parts.**

- Always operate the RC truck in open areas, away from people, pets, and obstacles.
- Avoid operating near public roads, water bodies, or electrical lines.
- Ensure the battery is fully charged and securely installed before operation.
- Do not touch moving parts during operation to prevent injury.
- Always turn off the RC truck and remote control when not in use.
- Store the RC truck and accessories in a cool, dry place.

## WHAT'S IN THE BOX

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Upon unboxing, verify that all components listed below are present:

- SG116MAX TRUCK
- Charging Cable and 7.4V Li-Ion Battery

- Screwdriver and Tool Set
- Product Manual
- Remote Control

## SETUP GUIDE

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### 1. Battery Installation and Charging

1. Locate the battery compartment on the underside of the RC truck.
2. Carefully open the compartment and insert the provided 7.4V Li-Ion battery, ensuring correct polarity.
3. Close the battery compartment securely.
4. To charge the battery, connect the charging cable to the battery and a compatible USB power source. The charging indicator will show the charging status.
5. Allow approximately 1 hour and 30 minutes for a full charge.

### 2. Remote Control Preparation

1. Install 3x AA batteries (not included) into the remote control's battery compartment.
2. Turn on the remote control using the power switch.
3. Turn on the RC truck. The remote control and truck should automatically pair. If not, refer to the troubleshooting section.



Image: Detailed view of the 2.4GHz remote control for the SG116 MAX.

# What is CVT?

SG116MAX  
remote control



Image: The remote control highlighting the three-speed regulation switch.

## 3. Wheelie Bar Attachment (Optional)

The wheelie bar can be attached to the rear of the truck to prevent it from flipping over during high-speed acceleration. Ensure the mounting points are aligned and secure the bar with the provided screws. Note that the mounting points may rotate, requiring careful alignment during installation.

## OPERATING INSTRUCTIONS

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### 1. Basic Controls

- **Steering Wheel:** Turn left or right to control the direction of the truck.
- **Gas Pedal (Trigger):** Pull to accelerate forward, push to brake or reverse. The truck features full proportional steering and throttle for precise control.
- **Speed Modes:** Use the switch on the remote to select between Low, Medium, and High speed modes. This allows adjustment for different skill levels and terrains.
- **Headlights:** The truck is equipped with headlights for visibility. Refer to the remote control diagram for the light switch.

## 2. Driving Tips

- Start in Low speed mode to familiarize yourself with the controls.
- The 4WD system and all-terrain non-slip vacuum tires provide excellent traction on various surfaces including mud, snow, sand, grass, and rough trails.
- The powerful 4000kv 2847 brushless motor allows for speeds up to 60km/h with the included 7.4v Li-ion battery. With a 2S or 3S Lipo battery (not included), speeds can exceed 80km/h.
- Be mindful of battery heat when using 3S batteries, as this can stress the ESC.
- The active use time is approximately 25-30 minutes, depending on the selected speed mode.



Image: The ZLL Beast SG116 MAX demonstrating its off-road capability on gravel.

## 3. Official Product Video

Video: An official overview of the ZLL Beast SG116 MAX RC Truck, showcasing its features and performance.

## MAINTENANCE

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### 1. General Care

- After each use, clean the truck to remove dirt, dust, and debris. A soft brush or cloth can be used.
- The intelligent waterproof ESC provides protection against water splashes, but avoid submerging the vehicle.
- Regularly inspect the tires for wear and tear.

### 2. Component Inspection

- Check for any loose screws or connections and tighten them as necessary.
- Inspect the metal differentials, CVD drive shafts, and spring shock absorbers for any damage. These metal upgrades contribute to the truck's durability.

- The high-strength front bumper and rear swing arm are designed to protect against collisions, but inspect them for cracks or damage after impacts.



Image: Underside view of the RC truck, highlighting the chassis and drivetrain components.



## Metal differential

Front and rear metal differentials with metal rotating shafts. The four-wheel drive linkage power is stronger.



*RACING CAR*

# Brushless motor Power delivery

Achieve high-speed driving. Instant sharp acceleration & deceleration braking. The top speed can reach 80km/h



Image: Close-up of the metal differential, a key durable component.



Image: The spring-loaded shock absorbers providing suspension for rough terrain.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Truck does not respond to remote.	Low battery in truck or remote, or not paired.	Charge truck battery, replace remote batteries, or repair remote (turn both off, then truck on, then remote on).
Reduced speed or power.	Low truck battery, or speed mode set to Low/Medium.	Recharge truck battery, select High speed mode on remote.
Truck stops unexpectedly.	Overheat, overcurrent, or low voltage protection activated (ESC).	Allow truck to cool down, ensure proper battery usage (especially with 3S).
Steering is off-center.	Steering trim needs adjustment.	Use the steering trim dial on the remote control to adjust.

## SPECIFICATIONS

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Feature	Detail
Product Dimensions	12 x 7.5 x 10 inches
Item Weight	5 pounds
Item Model Number	SG116MAX BEAST
Manufacturer Recommended Age	14 years and up
Batteries	1 Lithium Ion battery required (included)
Motor Type	Brushless (4000kv 2847)
ESC	35A 3-wire, intelligent waterproof, 3S compatible
Top Speed	Up to 60km/h (with included battery), up to 80+km/h (with 2S/3S Lipo, not included)
Remote System	2.4GHz, 3 speed modes, full proportional steering and throttle, up to 400 feet range
Drive System	4WD
Upgrades	Metal differentials, CVD drive shafts, spring shock absorbers, high-strength front bumper, rear swing arm

## WARRANTY AND SUPPORT

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For warranty information, technical support, or replacement parts, please refer to the contact details provided with your purchase documentation or visit the official ZLL website. Keep your proof of purchase for warranty claims.