

ZLL SG316MAX

ZLL SG316MAX 1:16 Scale 4WD RC Truck Instruction Manual

Model: SG316MAX | Brand: ZLL

1. ABOUT YOUR ZLL SG316MAX RC TRUCK

The ZLL SG316MAX is a 1:16 scale, battery-powered remote control vehicle designed for adult RC car enthusiasts. It features a robust 4WD system with front and rear upright spring shock absorbers and a double wishbone independent suspension system for superior handling on various terrains. The full-proportional 2.4G remote control system provides precise steering and throttle control, allowing for high-speed driving, sudden acceleration, deceleration, braking, reversing, and accurate turns. This vehicle is suitable for use on flat land, sand, mud, and grass.



Figure 1: ZLL SG316MAX RC Truck, showcasing its design and features.

Key Features:

- **Material:** Crafted with high-quality ABS plastics, hardware, and electronic parts for durability.
- **Power System:** Features a 35A brushless ESC and 2847 4000kv brushless motor for versatility and power.
- **Transmitter:** Equipped with a 2.4G frequency, 4CH, and a remote distance of up to 300m (brushless version).
- **Battery:** Includes a 7.4V 1300/1500mAh 10C/15C Li-ion battery with approximately 3-3.5 hours charging time and 30-40 minutes playing time.
- **Design:** 1:16 scale, 4WD, double wishbone independent suspension system, LED lights, and off-road climbing capabilities.

2. IMPORTANT SAFETY INFORMATION

This product is a precision machine that requires proper assembly and setup to avoid accidents. Failure to take caution when operating this product may result in serious injury or property damage. It is the owner's responsibility to operate this product in a safe manner. The manufacturer and its distributors are not responsible in any way for any body injury and/or property damage that may occur from use of this product.

- **Adult Supervision Required:** This product is recommended for users aged 14 and above.
- Always operate the vehicle in open areas, away from people, pets, and obstacles.
- Do not operate near water unless the product is specifically designed for it.
- Ensure all components are securely fastened before operation.
- Read and understand all instructions before first use.
- Use only the provided charger and battery.
- Do not modify the vehicle or its components.

3. PACKAGE CONTENTS

Please check the package contents to ensure all items are present and in good condition:

- ZLL SG316MAX RC Truck
- 7.4V 1300/1500mAh 10C/15C Li-ion battery
- Charger
- Transmitter
- Product Manual (this document)
- Tools

4. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand Name	ZLL
Model Name	SG316MAX
Scale	1:16 Scale
Drive System	4WD
Motor Type	Brushless (2847 4000kv)
ESC	35A Brushless
Transmitter Frequency	2.4G, 4CH
Remote Distance	Up to 300m
Vehicle Battery	7.4V 1300/1500mAh 10C/15C Li-ion
Charging Time	Approx. 3-3.5 hours
Playing Time	Approx. 30-40 minutes
Transmitter Batteries	2 AAA batteries (included)
Maximum Speed	50 Miles per Hour
Suspension System	Double wishbone independent suspension, upright spring shock absorbers
Material Type	Polyamide, ABS plastics, hardware, electronic parts
Dimensions (L x W x H)	13 x 8.3 x 4.3 inches (33cm x 21.5cm x 11.5cm)

Weight	5 Pounds
Color	Blue Black, Silver Purple

5. SETUP GUIDE

5.1. Vehicle Battery Installation

1. Ensure the vehicle's power switch is in the OFF position.
2. Locate the battery compartment on the underside of the vehicle.
3. Open the battery compartment cover.
4. Carefully insert the 7.4V Li-ion battery into the compartment, ensuring correct polarity.
5. Connect the battery connector to the vehicle's power connector.
6. Close the battery compartment cover securely.



Figure 2: Underside view of the ZLL SG316MAX, showing the chassis and potential battery compartment location.

5.2. Transmitter Battery Installation

1. Locate the battery compartment on the back of the transmitter.
2. Open the battery compartment cover.
3. Insert 2 AAA batteries, observing the correct polarity (+/-).
4. Close the battery compartment cover securely.

5.3. Charging the Vehicle Battery

1. Connect the charger to a suitable power outlet.
2. Connect the 7.4V Li-ion battery to the charger.
3. Allow approximately 3-3.5 hours for a full charge. Refer to the charger's indicator lights for charging status.

4. Disconnect the battery from the charger once fully charged. Do not overcharge.

6. OPERATING YOUR RC TRUCK

6.1. Pairing the Transmitter and Vehicle

1. Ensure both the vehicle and transmitter batteries are fully charged and installed.
2. Turn on the transmitter first.
3. Turn on the vehicle's power switch.
4. The transmitter and vehicle should automatically pair. An indicator light on the transmitter will confirm successful pairing.

6.2. Basic Controls

- **Throttle Trigger:** Pull the trigger to accelerate forward. Push the trigger to brake or reverse.
- **Steering Wheel:** Turn the wheel left to steer left, turn right to steer right.
- **Trim Adjustments:** Use the trim dials on the transmitter to fine-tune steering and throttle if the vehicle pulls to one side or moves without throttle input.

6.3. Driving Tips

- Start by practicing in an open, flat area to get accustomed to the controls.
- The 4WD system and independent suspension allow for operation on various terrains including flat land, sand, mud, and grass.
- Avoid driving in deep water or extremely wet conditions to prevent damage to electronics.
- Practice smooth acceleration and braking to maintain control, especially at high speeds.
- The vehicle is capable of high-speed maneuvers, sudden acceleration, deceleration, braking, reversing, left turns, and right turns.



Video 1: ZLL SG316MAX RC Truck in action, demonstrating its speed and off-road capabilities on various terrains.



Figure 3: The ZLL SG316MAX demonstrating its off-road capability on a dirt incline.

7. MAINTENANCE AND CARE

- **Cleaning:** After each use, especially in dirty or dusty conditions, clean the vehicle with a soft brush or compressed air. Avoid using water directly on electronic components.
- **Battery Care:**
 - Always disconnect the battery from the vehicle when not in use.
 - Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
 - Do not fully discharge Li-ion batteries. Charge them to storage voltage if storing for extended periods.
- **Inspections:** Regularly inspect the vehicle for loose screws, damaged parts, or worn tires. Tighten screws and replace damaged components as needed.
- **Lubrication:** Periodically check moving parts for smooth operation and lubricate as recommended by the manufacturer (if applicable, general RC car advice).
- **Storage:** Store the RC truck and transmitter in a dry, safe place when not in use.

8. TROUBLESHOOTING COMMON ISSUES

Problem	Possible Cause	Solution
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Vehicle does not respond to transmitter.	- Vehicle or transmitter not powered on. - Batteries are low or dead. - Not properly paired. - Out of range.	- Ensure both are switched ON. - Replace or recharge batteries. - Re-pair the transmitter and vehicle (refer to Section 6.1). - Bring the vehicle closer to the transmitter.
Vehicle runs slowly or lacks power.	- Vehicle battery is low. - Motor or drivetrain obstruction.	- Recharge the vehicle battery. - Check for debris in the wheels, gears, or motor area.
Steering is erratic or pulls to one side.	- Steering trim needs adjustment. - Damaged steering components.	- Adjust the steering trim on the transmitter. - Inspect steering linkages and servo for damage.
Vehicle makes unusual noises.	- Debris in gears. - Worn or damaged gears/bearings.	- Inspect and clean the gear assembly. - Replace any worn or damaged parts.

9. WARRANTY AND CUSTOMER SUPPORT

For warranty information, technical support, or replacement parts, please contact ZLL customer service through your retailer or the official ZLL website. Keep your purchase receipt as proof of purchase.

Manufacturer: ZLL

Model Number: SG-316MAX