HScopter N516

HScopter 4WD RC Monster Truck N516 Instruction Manual

Model: N516

Brand: HScopter

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your HScopter 4WD RC Monster Truck, Model N516. Please read this manual thoroughly before using the product to ensure proper function and longevity.

2. Package Contents

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

- 1x 1:10 Scale RC Monster Truck
- 1x 2.4G Transmitter (Remote Control)
- 2x 7.4V 1600mAh Li-po Batteries
- 1x Balance Charger
- 4x Body Clips
- 1x Hex Wrench
- 1x User Manual (this document)



Image 2.1: HScopter RC Monster Truck N516 with included remote control, two batteries, charger, and tools.

3. Setup

3.1. Charging the Li-po Batteries

1. Connect the 7.4V 1600mAh Li-po battery to the balance charger.
2. Plug the balance charger into a suitable power outlet.
3. Allow the battery to charge fully. Refer to the charger's indicator lights for charging status.
4. **Important:** Always use the provided balance charger. Do not overcharge or leave batteries unattended during charging.



Image 3.1: Illustration of connecting the Li-po battery to the balance charger for safe charging.

3.2. Installing Batteries in the RC Truck

1. Remove the body clips and lift the truck's body shell.
2. Locate the battery compartment.
3. Insert a fully charged 7.4V 1600mAh Li-po battery into the compartment.
4. Connect the battery connector to the truck's power connector.
5. Secure the battery within the compartment and reattach the body shell with the clips.



Image 3.2: Underside view of the RC truck, highlighting the battery placement and internal components.

3.3. Installing Batteries in the Transmitter

1. Open the battery cover on the back of the 2.4G transmitter.
2. Insert the required batteries (typically AA, not included) according to the polarity markings.
3. Close the battery cover securely.

3.4. Pairing the Transmitter with the RC Truck

1. Ensure both the RC truck and the transmitter have fresh or fully charged batteries installed.
2. Turn on the RC truck first using its power switch.
3. Immediately turn on the transmitter. The indicator light on the transmitter should blink and then become solid, indicating a successful connection.
4. If pairing fails, turn off both devices and repeat the process.

4. Operating Instructions

4.1. Basic Controls



Image 4.1: The 2.4GHz remote control, showing the steering wheel for left/right turns and the trigger for forward/reverse movement.

- **Steering Wheel:** Rotate the steering wheel left or right to control the direction of the truck.
- **Throttle Trigger:** Pull the trigger towards you to move the truck forward. Push the trigger away from you to brake or reverse.

4.2. Speed Modes

The transmitter features two speed modes for varied driving experiences:

- **Low Speed Mode:** Ideal for beginners or indoor use, offering more controlled handling.
- **High Speed Mode:** Provides maximum speed (up to 30 mph / 46 km/h) for experienced users and outdoor driving.

Refer to the transmitter diagram (Image 4.1) for the location of the speed mode switch.

4.3. Driving on Various Terrains

The HScopter N516 is designed for all-terrain use, including sand, rock, grass, and mud, thanks to its 4WD system and robust suspension.



Image 4.2: The RC truck demonstrating its capability across various terrains including sand, rock, grass, and mud.

- **Waterproof Level:** The truck features an IPX6 waterproof level, protecting it from splashing water and waves. Avoid full submersion.
- **Rough Terrain:** The metal shock absorbers and 4-wheel independent suspension help maintain stability over uneven surfaces.



Image 4.3: The RC truck operating in shallow water, illustrating its IPX6 waterproof rating.

5. Maintenance

5.1. Cleaning

- After each use, especially in dirty or wet conditions, clean the truck.
- Use a soft brush or compressed air to remove dirt and debris from the chassis, wheels, and suspension components.
- Wipe the body with a damp cloth. Ensure all parts are dry before storage.

5.2. Battery Care and Storage

- Always disconnect batteries from the truck and charger when not in use.
- Store Li-po batteries in a cool, dry place, away from direct sunlight and flammable materials.
- Do not store fully charged or completely discharged Li-po batteries for extended periods. Charge them to a storage voltage (around 3.8V per cell) if storing for more than a few days.
- If a battery appears damaged, swollen, or overheated, discontinue use immediately and dispose of it properly according to local regulations.

5.3. General Inspection

- Regularly inspect the truck for loose screws, damaged parts, or worn tires.
- Tighten any loose fasteners. Replace damaged components promptly to ensure optimal performance and safety.

6. Troubleshooting

Problem	Possible Cause	Solution
Truck does not respond to transmitter.	Batteries in truck or transmitter are low/dead. Truck and transmitter are not paired. Power switch is off.	Charge/replace batteries. Re-pair the truck and transmitter (Section 3.4). Ensure power switches are ON.
Reduced speed or short run time.	Battery not fully charged. Battery degradation. Driving on challenging terrain.	Ensure battery is fully charged. Consider replacing old batteries. Performance may vary based on terrain.
Truck pulls to one side.	Steering trim adjustment needed. Damaged steering components.	Adjust the steering trim dial on the transmitter. Inspect steering linkages and servo for damage.

7. Specifications

Feature	Detail
Model Number	N516
Scale	1:10
Drive System	4-Wheel Drive (4WD)
Motor	Dual 390 Brushed Motors
Max Speed	Up to 30 mph (46 km/h)
Control Range	Up to 328 feet (100m)
Battery (Truck)	2x 7.4V 1600mAh Li-po (included)
Waterproof Level	IPX6 (Splash-proof)
Product Dimensions	13.58 x 12.01 x 6.5 inches
Item Weight	3.37 pounds
Recommended Age	14 years and up

8. Safety Guidelines

Adhere to the following safety guidelines to prevent injury or damage:

- Operate the RC truck in open areas, away from people, pets, and obstacles.
- Do not operate near public roads or in crowded environments.
- Keep fingers, hair, and loose clothing away from moving parts.
- Adult supervision is recommended for users under 14 years of age.
- Do not modify the product. Unauthorized modifications may void the warranty and compromise safety.
- Always turn off the truck and transmitter when not in use.

9. Warranty and Support

HScopter is committed to providing quality products and customer satisfaction. While specific warranty details are not provided in this manual, please retain your proof of purchase for any warranty claims. For technical support, replacement parts, or further assistance, please contact HScopter customer service through the retailer where the product was purchased or visit the official HScopter store online.

HScopter is a professional manufacturer engaged in the research, development, production, sale, and service of RC toy products.