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## SIMREX TOY2407

# SIMREX 1:12 Scale All-Terrain Remote Control Truck (Model TOY2407) Instruction Manual

Model: TOY2407 | Brand: SIMREX



Figure 1: SIMREX 1:12 Scale All-Terrain Remote Control Truck.

## INTRODUCTION

This manual provides comprehensive instructions for the safe operation, setup, and maintenance of your

SIMREX 1:12 Scale All-Terrain Remote Control Truck, Model TOY2407. Please read this manual thoroughly before operating the vehicle to ensure proper function and longevity.

## SAFETY INFORMATION

**Important:** Use only as directed. This product is suitable for children aged 6 and above, as well as adolescents and adults. Adult supervision is recommended for younger users.

- Always operate the RC truck in open areas, away from people, pets, and obstacles.
- Do not operate near public roads, water bodies, or high-voltage lines.
- Ensure all batteries are correctly installed and charged before use.
- Avoid exposing the vehicle to extreme temperatures or direct sunlight for extended periods.
- The vehicle has an IPX4 waterproof rating, meaning it can resist water splashes from any direction. It is not designed for submersion in water.
- Turn off the vehicle and remote control when not in use.
- Keep small parts out of reach of young children to prevent choking hazards.

## PACKAGE CONTENTS

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

- SIMREX 1:12 Scale All-Terrain Remote Control Truck (1 unit)
- 2.4GHz Remote Control (1 unit) - *Requires 3 'AA' batteries (not included)*
- USB Charger (1 unit)
- 7.4V 650mAh Lithium Battery (2 units)
- Screwdriver (1 unit)

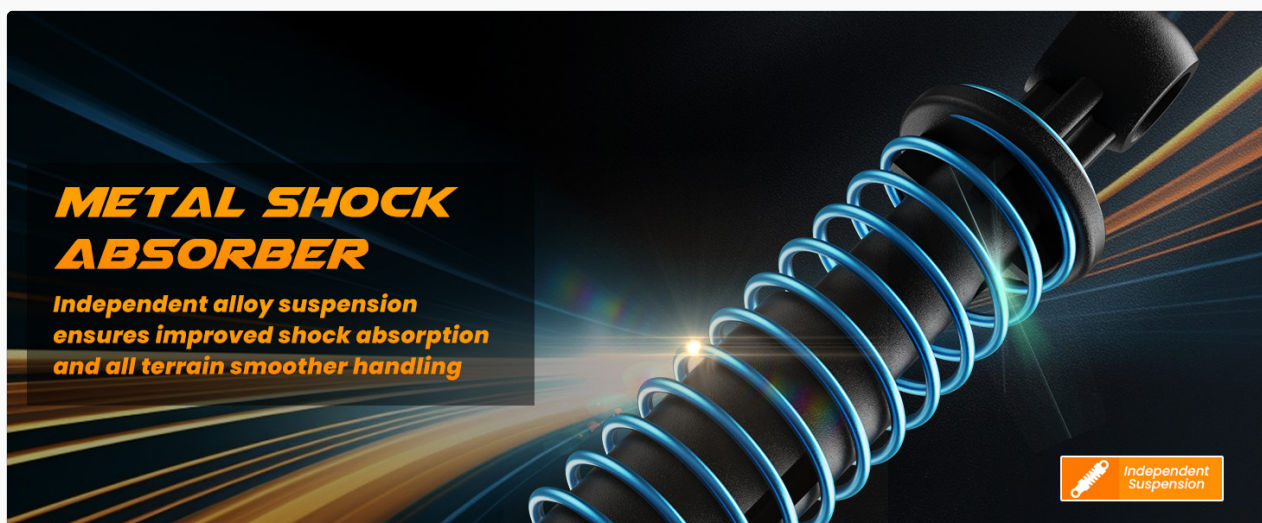


Figure 2: Contents of the SIMREX RC Truck package.

## SETUP GUIDE

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### 1. Charging the Vehicle Batteries

1. Connect the 7.4V 650mAh lithium battery to the USB charger.
2. Plug the USB charger into a compatible USB power source (e.g., computer USB port, USB wall adapter).
3. The indicator light on the USB charger will show the charging status. Refer to the charger's specific instructions for light indications (typically red for charging, off or green for fully charged).
4. Charging time is approximately 60-90 minutes per battery. Do not overcharge.

### 2. Installing Vehicle Batteries

1. Locate the battery compartment on the underside of the RC truck.
2. Use the provided screwdriver to open the battery compartment cover.
3. Insert a fully charged 7.4V 650mAh lithium battery into the compartment, ensuring correct polarity.
4. Connect the battery connector to the vehicle's power port.
5. Close the battery compartment cover and secure it with the screwdriver.

### 3. Installing Remote Control Batteries

1. Open the battery cover on the back of the 2.4GHz remote control.
2. Insert 3 'AA' batteries (not included) into the compartment, observing the correct polarity (+/-).
3. Close the battery cover securely.

## OPERATING INSTRUCTIONS

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### 1. Power On and Pairing

1. Ensure the vehicle battery is installed and fully charged.
2. Turn on the RC truck using the power switch located on the vehicle. The vehicle's lights may flash.
3. Turn on the remote control. The indicator light on the remote will flash.
4. The remote control and vehicle will automatically pair. Once paired, the indicator lights on both the vehicle and remote will become solid.
5. If pairing fails, turn off both devices and repeat the steps.

### 2. Driving Controls

The 2.4GHz remote control offers precise and flexible driving capabilities with a range of approximately 328 feet (100 meters).

- **Throttle Trigger:** Pull the trigger to move forward, push it to brake or reverse. The full-ratio steering allows for adjustable acceleration.
- **Steering Wheel:** Turn the steering wheel left or right to control the vehicle's direction. The full-ratio steering adjustable steering gear system provides precise control.





Figure 3: Remote control and steering system.

### 3. Speed Adjustment and Performance

The vehicle is powered by a high-torque 370 strong magnet motor, allowing it to climb slopes of 50-60 degrees and reach a maximum speed of approximately 20 Km/h. Speed settings can be adjusted on the remote control to suit different driving scenarios and skill levels.





Figure 4: Vehicle climbing ability and motor details.



Figure 5: Demonstrating the truck's climbing capability.

## 4. LED Lighting System

The vehicle features front and rear LED high-definition turn signals that synchronize with remote steering to indicate left and right turns. Double-blinking during reverse enhances safety during nighttime or poor visibility conditions.

## 5. All-Terrain Adaptability

This RC truck is designed for multi-terrain adaptability, performing well on roads, gravel, sand, grasslands, and during rock climbing. Its powerful four-wheel drive and independent suspension system ensure stable driving performance and impressive shock absorption.



Figure 6: The RC truck's versatility across different terrains.

## MAINTENANCE

### 1. General Care

- After each use, inspect the vehicle for any loose parts, damage, or debris.
- Ensure all screws are tightened and connections are secure.



- The frame is made of alloy steel structure with metal protective plates, metal cooling fins, and all-metal bearings for durability. Key components like underbody and protective frames are high-strength engineering nylon.
- All four wheels are equipped with independent suspension systems and high-performance coil springs for shock absorption.



Figure 7: Metal structure of the car body.



Figure 8: Metal shock absorber detail.



Figure 9: All-metal transmission components.



Figure 10: Inflated rubber tire detail.

## 2. Cleaning

- Use a soft, dry cloth to wipe down the vehicle after each use.
- For stubborn dirt, a slightly damp cloth can be used, but avoid excessive moisture.
- Do not use chemical cleaners or solvents, as these may damage the vehicle's finish or components.
- Remove any debris (e.g., grass, small stones) from the wheels, suspension, and chassis.

## 3. Storage

- Store the RC truck and remote control in a cool, dry place, away from direct sunlight and moisture.
- Remove all batteries from both the vehicle and remote control if storing for an extended period to prevent leakage.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Vehicle does not respond to remote control.	Low battery in vehicle or remote; Not paired; Out of range.	Charge/replace batteries; Re-pair vehicle and remote; Operate within 328 ft range.
Vehicle runs slowly or inconsistently.	Low vehicle battery; Debris in wheels/drivetrain; Motor obstruction.	Charge vehicle battery; Clean debris; Check for obstructions. The smart anti-stall mechanism will cut off power if obstructed.
Steering is not precise.	Steering trim not adjusted; Damage to steering components.	Adjust steering trim on remote control; Inspect steering linkages for damage.
Short operating time.	Battery not fully charged; Old battery; Aggressive driving.	Ensure battery is fully charged; Consider replacing old batteries; Moderate driving style. Each battery provides 20-30 minutes of runtime.



PACKAGE LIST



Figure 11: Smart Anti-Stall Mechanism.

SPECIFICATIONS

Feature	Detail
Model Number	TOY2407
Scale	1:12
Drive System	4-Wheel Drive (4WD)
Motor	High-torque 370 strong magnet motor
Max Speed	Approx. 20 Km/h
Remote Control Frequency	2.4 GHz
Remote Control Range	Approx. 328 FT (100 meters)
Vehicle Battery	2 x 7.4V 650mAh Lithium Batteries (included)
Battery Life (per battery)	Approx. 20-30 minutes
Remote Control Battery	3 x 'AA' batteries (not included)
Waterproof Rating	IPX4 (splash-proof)
Product Dimensions	14 x 8 x 7 inches (35 x 20 x 18 cm)
Item Weight	4.62 pounds
Recommended Age	6 years and above



## ALL METAL TRANSMISSION COMPONENT

**Metal Drive Shafts and Pure Metal Gear for  
maximum 4X4 4-wheel drive power output**

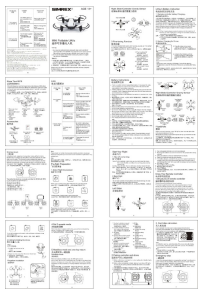

Figure 12: Product dimensions and remote control features.

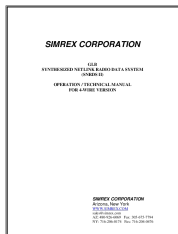
## WARRANTY AND SUPPORT

For any questions, technical support, or warranty inquiries regarding your SIMREX RC Truck, please contact SIMREX customer service. Refer to the product packaging or the official SIMREX website for the most current contact information.

Please retain your purchase receipt as proof of purchase for warranty claims.

## Related Documents - TOY2407

	<p><a href="#">Simrex X900 Mini Foldable Drone: User Manual &amp; Flight Guide</a></p> <p>Comprehensive guide for the Simrex X900 Mini Foldable Drone, covering setup, safety instructions, flight operations, controller functions, and battery management for optimal flying.</p>
	<p><a href="#">SIMREX 2799-GPS Drone Instruction Manual</a></p> <p>Comprehensive instruction manual for the SIMREX 2799-GPS drone, covering flight safety, controls, modes, calibration, and battery care. Learn how to operate your drone safely and effectively.</p>



Simrex GLB SNRDS II 4-Wire Operation and Technical Manual

Comprehensive operation and technical manual for the Simrex GLB Synthesized Netlink Radio Data System (SNRDS II) 4-Wire Version. Covers installation, configuration, adjustments, and commands for qualified technicians.



Shenzhen SIMREX Technology Co., Ltd. Letter of Authorization for Drone Models

Letter of Authorization from Shenzhen SIMREX Technology Co., Ltd. authorizing LGAI Technological Center S.A. for matters concerning drone equipment, including FCC applications. Lists various drone model numbers.