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RIAARIO RZ001B-C

RIAARIO 1/10 Brushless RC Monster Truck Instruction Manual

Model: RZ001B-C | Brand: RIAARIO

1. SAFETY INFORMATION

WARNING: CHOKING HAZARD — Small parts. Not for children under 3 years. This product is recommended for ages 12 years and up.

- Always operate the RC truck in open areas, away from people, pets, and obstacles.
- Do not operate near public roads or in crowded areas.
- Keep fingers, hair, and loose clothing away from moving parts.
- Ensure batteries are charged correctly and handled with care.
- Always turn off the vehicle and remote control when not in use.
- Adult supervision is recommended for younger users.

2. PRODUCT OVERVIEW

The RIAARIO 1/10 Brushless RC Monster Truck (Model RZ001B-C) is a high-performance, 4WD remote-controlled vehicle designed for off-road use. It features a brushless motor system, durable construction, and advanced control capabilities.



Figure 2.1: RIAARIO 1/10 Brushless RC Monster Truck, Model RZ001B-C.

Key Features:

- **Brushless Motor System:** Equipped with a 3650 2650KV motor, metal heatsink, and cooling fan for high-speed operation.
- **Advanced Electronics:** Includes a 7075 gear servo with 11kg torque, a gyroscope for stability, a 5-channel independent receiver, and a 60A ESC.
- **Durable Drivetrain:** Features a sturdy intermediate differential shaft, CNC central differential, 1M-34T CNC-driven teeth, and 1M-11T CNC bevel gear.
- **Robust Chassis:** Constructed with a 2.5mm hardened aluminum alloy chassis and a 4.5mm swing arm fixing block.
- **Carbon Fiber Components:** Second floor plate and shock tower are made from carbon fiber for enhanced strength.
- **Suspension System:** Multi-terrain airless tires and adjustable oil-filled absorbers for various terrains.
- **Waterproof Design:** Designed to withstand splashes and wet conditions.
- **Advanced Remote Control:** 2.4GHz 5-channel transmitter with a data-enabled screen and adjustable throttle limits (0-25-70-100%).

A FULL SET OF POWERFUL ELECTRONIC EQUIPMENT SYSTEM



3650-2650 KV
24-27T CNC Gear



60A ESC With Cooling Fan
Independent Controller



11 KG Metal Servo
With 7075 Gear



5 Channel Receiver
With Gyro

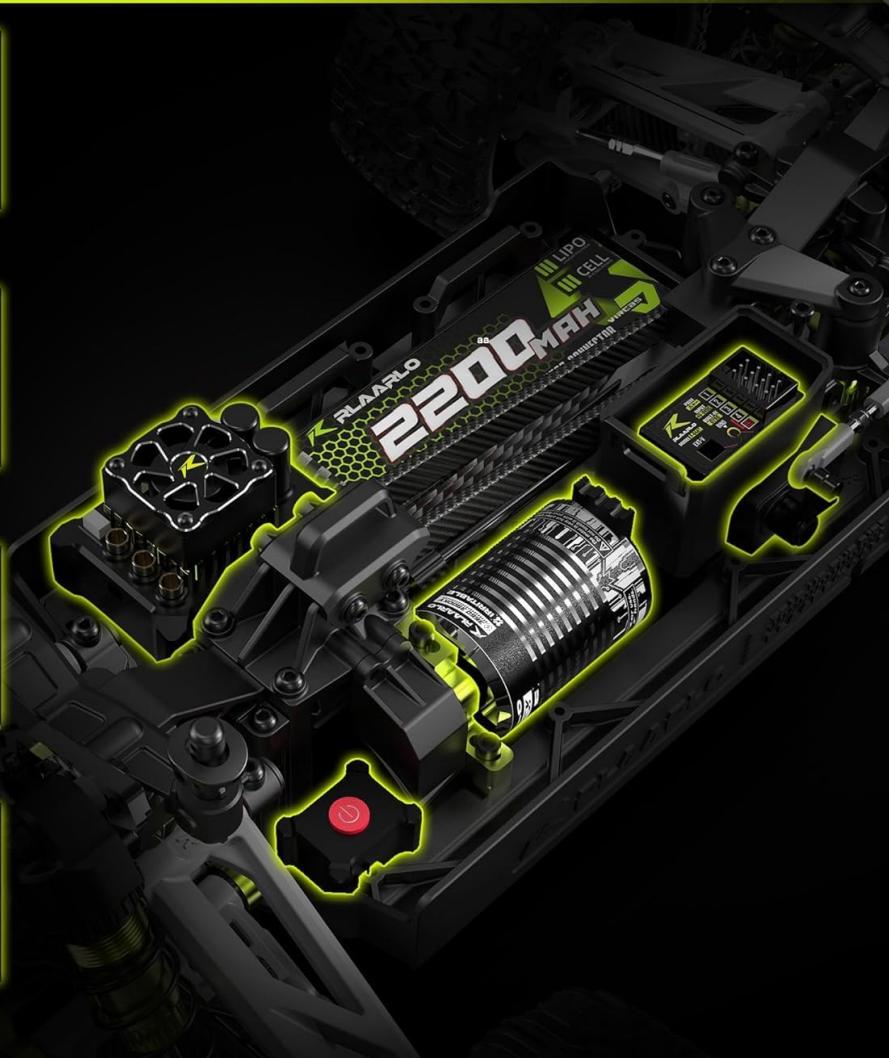
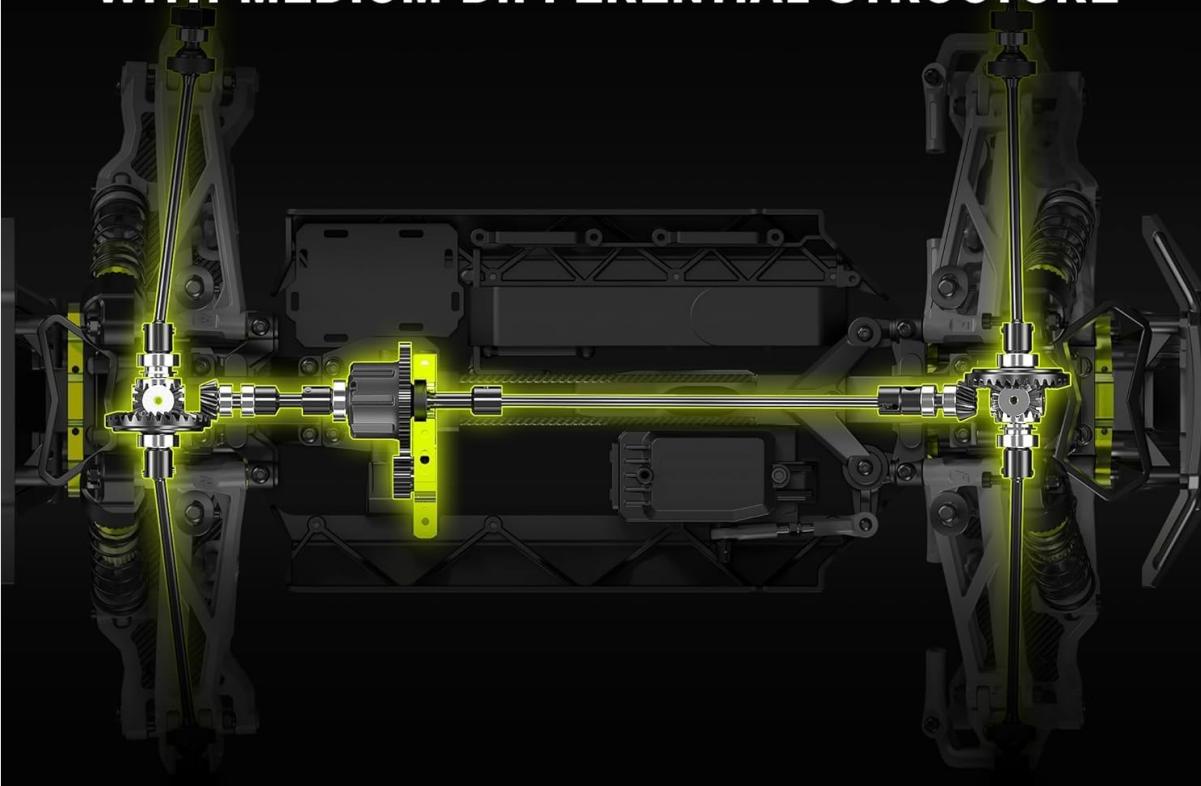


Figure 2.2: A full set of powerful electronic equipment system.

CENTRAL TRANSMISSION SYSTEM WITH MEDIUM DIFFERENTIAL STRUCTURE



0.53/48P 65T
CNC Medium Differential Gear



1M-11T
CNC Spiral Conical Gear



1M-34T
CNC Differential Gear



0.53M/48P
24-27T CNC Motor Gear

Figure 2.3: Central transmission system with medium differential structure.



Figure 2.4: Adjustable oil-filled shocks and head-up wheels for stability.

3. PACKAGE CONTENTS

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



Figure 3.1: Included accessories and tools.

- RIAARIO 1/10 Brushless RC Monster Truck (RZ001B-C)
- 2.4GHz 5-channel Transmitter
- 12V Battery (included, quantity 1)
- Cross socket (1)
- Motor gear (1)
- H1.5 wrench (1)
- H2.0 wrench (1)
- H2.5 wrench (1)
- Zip ties (2)
- Double-sided tape (1)
- EVA pads (2)
- Machine screws (1)
- Flat head screws (6)
- Pan head screws (4)
- Product Instruction Manual (this document)

4. SPECIFICATIONS

Detailed specifications for the RIAARIO RZ001B-C RC Monster Truck:

Problem	Possible Reason	Solution
Sluggish performance	Battery damaged or not fully charged	Battery damaged or not fully charged
	Transmitter Throttle Trim is incorrectly set	Throttle trim needs to be set to zero
	Motors dirty or damaged	Clean , check condition or replace
	Drive train is dirty or damaged	Clean , check condition or replace
Short range or no control on vehicle	Transmitter battery is weak or installed incorrectly	Check transmitter batteries
	Servo wires of receiver loose or connected incorrectly	Reinstall signal wires to ESC receiver
	Transmitter and ESC receiver are not paired correctly	Transmitter and ESC receiver need to be repaired per manual
	Steering trim set out	Adjust steering trim
Vehicle wanders left /right	Steering components are damaged	Clean, check, or replace
	Drive train is dirty or damaged	Clean, check, or replace
	"TH.REV" or "ST.REV" on the transmitter is set reversely	Adjust the "TH.REV" or "ST.REV" on the transmitter per the manual
	Check the wires from ESC to the motor are connected correctly	Disconnect and reconnect
Warning Alarm on Transmitter	Low Voltage Warning, lower than 4.4V for 1S battery.	Fully charge the battery, or change the new one
	7.1V for 2S battery, 10.8V for 3S battery	Use one old battery to instead of the new one
	High Voltage Warning, total voltage of 4 batteries exceed 6V	Choose the higher speed level on Throttle Limiter
	Use the lower speed level on Throttle Limiter	Adjust the Throttle Trim to patch it
The speed is lower than claimed	No function on partial travel when pressing the throttle trigger	Disassemble Motor Mount to adjust the Pinion Gear
	The Pinion Gear was jamming against the Motor Mount.	

Figure 4.1: Detailed product specifications.

Feature	Detail
Product Dimensions	16.14 x 11.33 x 6.89 inches
Item Weight	4.4 pounds
Motor	3650-2650KV Brushless with Heat Sink and Fan
ESC	60A, supports 2-3S
Battery	2200 mAh 3S (included)
Steering Gear	11KG Metal 7075 Gear
Remote Control	2.4GHz 5-channel, 1148+ FT range, with data screen
Chassis	2.5mm Hardened Aluminum Alloy
Second Floor Slab	Carbon Fiber
Body Shell	1.2mm Thick PC
Recommended Age	12 years and up



Figure 4.2: Product dimensions.

5. INITIAL SETUP

5.1. Battery Installation and Charging

The RC truck requires one 12V battery (included). The remote control requires 4 AA batteries (not included).

- 1. Charge the Vehicle Battery:** Use the provided USB cable charger. Connect the USB cable to a 5V 1A adapter (not included). The solid red light indicates charging. A blinking green light after 3-4 hours indicates a defective battery.
- 2. Install Vehicle Battery:** Open the battery compartment on the RC truck. Insert the fully charged battery, ensuring correct polarity. Secure the battery compartment cover.
- 3. Install Remote Control Batteries:** Open the battery compartment on the back of the remote control. Insert 4 AA batteries, observing correct polarity. Close the cover.

Problem	Possible Reason	Solution
Vehicle can not move	Batteries are incorrectly assembled in remote controller	Check transmitter batteries and refit see model transmitter manual
	Weak or damage battery in the car	Install fully charged batteries
	Worn or broken ESC wires or motor	Check condition, reconnect and insulate
	ESC shut down due to overheating	Stop driving, ESC or motor has to cool down
	Motor is damaged	Replace with new unit
	ESC or Receiver is damaged	Replace with new unit
	Possible problem on transmission	Check components and replace
Vehicle can not reverse	Low voltage cutoff function on ESC is activated to protect battery	Remove, cool down and re-charge the battery
	ESC or Receiver is damaged	Replace with new unit
Short runtime	Battery damaged or not fully charged	Check condition, replace or recharge
	Motor is dirty or damaged	Check condition, replace or recharge
	Terrain resistance causes excessive power consumption	Play on other kinds of terrain
Limited steering angle	The button of Transmitter SteeringRate is set incorrectly	Adjust Transmitter Steering Rate button per the manual
	Damaged steering components	Check components and replace
Steering /Throttle works intermittent	ESC shuts down due to overheating	Stop driving, ESC or motor has to cool down
	Transmitter and ESC receiver are not paired correctly	Check if any interference sources, or repair the transmitter and ESC receiver

Figure 5.1: Battery compartment and compatible battery sizes.

5.2. Transmitter Overview

Familiarize yourself with the remote control functions:

2.4GHz 6CH Radio Control Distance:1148 FT+



Figure 5.2: Remote control layout.

Problem	Solution
Steering not working properly	1. Replace the batteries of the remote with brand new ones and fully charge the car battery. 2. Turn off the switch on the remote controller, and pair again; Do not touch the throttle when pairing. 3. Make sure the steering arms are still connected properly. 4. Unplug the wires connected the ESC and servo, then pair the car with the transmitter again. Above are to check the defective part, if the car pairs with the remote controller, then the servo might be the problem.
Steering not working properly	1. Inspect all the pieces are in place and no foreign objects were blocked inside. 2. Check the front and rear differentials if they works properly with both the axles and main drive shaft. Make sure the gears of the differential and main driving shaft are not stripped.
Wheels are not spinning properly	1. Tighten the locknuts hold the wheels in place. 2. If all parts are intact, the differentials may be broken and needs to be replaced.
Battery/USB cable not working	1. Use the adaptor of output 5V 1A to connect the USB cable and charge the battery. 2. Solid red light on the USB cable- charger is plugged in. 3. Green light on the USB cable is blinking- battery is under charging. 4. The green light on the USB cable is become solid- battery is fully charged. 5. Blinking green light after 3-4hrs discharging- battery is defective.
Rebinding the remote control with the car	Turn on the remote control first and within 3 seconds turn on the car for rebinding them, if not successful, repeat the action 2-3 times, or press the switch on the receiver for 3 seconds to restart the receiver; If the pairing is still not successful, the remote controller and ESC or receiver needs to be replaced.

Figure 5.3: Remote control functions and descriptions.

- **Built-in Antenna:** Increases signal strength.
- **Return Voltage:** Screen displays voltage data.
- **Throttle Trim+:** Adjusts the throttle neutral point.
- **Steering Wheel:** Controls vehicle turning (right/left).
- **Throttle Trigger:** Controls vehicle movement (forward/backward) and brake.
- **Channel 4/SWB Channel:** Press to activate/deactivate Channel 4 function.
- **Channel 3/SWB Channel:** Press to activate/deactivate Channel 3 function.
- **Channel 5, Channel 6:** Additional channel controls.
- **Steering Dual Rate:** Adjusts the size of the throttle direction.
- **Throttle Limiter:** Limits throttle output to 0-25-70-100%.
- **Steering Trim-:** Adjusts the steering center point.
- **Hybrid Control:** Controls hybrid mode.
- **Channel Reverse:** Controls channel reverse.

5.3. Pairing the Remote Control

To pair the remote control with the RC truck:

1. Ensure the vehicle battery is fully charged and installed.
2. Turn on the RC truck.
3. Turn on the remote control.
4. Within 3 seconds of turning on the remote, press the bind button (refer to remote control diagram for location).
5. The indicator light on the receiver should become solid, indicating successful pairing.
6. If pairing fails, repeat the process 2-3 times. If issues persist, press the switch on the receiver for 3 seconds to restart it.

6. OPERATING INSTRUCTIONS

6.1. Basic Operation

- **Forward/Backward:** Pull the throttle trigger towards you to move forward. Push it away from you to brake, then push again for reverse.
- **Steering:** Turn the steering wheel left or right to steer the vehicle.
- **Throttle Limiter:** For beginners, set the throttle limiter to 0-25% or 70% to control speed. Gradually increase as you gain experience.
- **Gyroscope:** The built-in gyroscope helps maintain stability, especially at high speeds or on uneven terrain. Ensure it is enabled for optimal control.

6.2. Driving Modes

The truck is designed to handle various situations:

X OMNI-TERMINATOR RZ001B-C Version	
MOTOR	3650-2650KV
MOTOR HEAT SINK AND FAN	YES
ESC	60A SUPPORTS 2-3S
BATTERY	2200 MAH 3S BATTERY
BATTERY COMPARTMENT	LARGE AND SMALL BATTERIES CAN BE SWITCHED
STEERING GEAR	11KG METAL 7075 GEAR
REMOTE CONTROL	350M 6-CHANNEL REMOTE CONTROL (WITH SCREEN AND DATA RETURN)
MOTOR GEAR	0.53M/43P --2-27T (CHROME STEEL GEAR)
REDUCTION GEAR	0.53M/43P-65T (CHROME STEEL GEAR)
MOTOR BASE	SUPPORT 3S MOTOR SLIDER MOTOR BASE
BEVEL GEAR	1M-11T CHROME STEEL SPIRAL GEAR
DIFFERENTIAL DRIVEN TEETH	1M-34T CHROME STEEL SPIRAL GEAR
CENTRAL DRIVE SHAFT	MEDIUM DIFFERENTIAL TRANSMISSION (CARBON STEEL)
TRANSFER METHOD	CENTER DIFFERENTIAL DRIVE
DRIVE SHAFT	CARBON STEEL CV
SHOCK TOWER	4MM 7075CNC
SHOCK ABSORBER	METAL HYDRAULIC
SHOCK ABSORBER SHEATH	NYLON
SWING ARM	DOUBLE A-SHAPED NYLON SWING ARM CARBON FIBER REINFORCED
SWING ARM FIXED BLOCK	4.5MM HARDENED ALUMINUM ALLOY
CHASSIS	2.5MM HARDENED ALUMINUM ALLOY
SECOND FLOOR SLAB	CARBON FIBER
TURN TO CONTINUOUS PIECE	ALUMINUM ALLOY
TIRE DIAMETER	104MM
BODY SHELL	1.2MM THICK PC
CAR SHELL BUCKLE	ANTI-LOST R BUCKLE

Figure 6.1: Illustrates rollover, power flip, and normal operating states.

- **Normal Mode:** Standard driving on various terrains.
- **Rollover State:** The truck can withstand rollovers due to its durable design.
- **Power Flip:** The truck may be capable of self-righting or performing flips with proper technique.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your RC truck.

7.1. General Care

- **Cleaning:** After each use, especially in dirty or wet conditions, clean the truck to remove dirt, dust, and debris. Use a soft brush or compressed air. Avoid using water directly on electronic components.
- **Inspection:** Regularly inspect all screws, nuts, and moving parts for looseness or damage. Tighten as necessary.
- **Lubrication:** Periodically lubricate moving parts such as gears and bearings with appropriate RC-grade lubricant.
- **Storage:** Store the RC truck in a dry, cool place away from direct sunlight. Remove batteries from both the truck and remote control during long-term storage.

7.2. Component Access and Disassembly

The truck is designed for easy access to key components for maintenance and repair.



Figure 7.1: Quick disassembly methods for differential and motor module.

- **Differential Access:** The differential can be quickly disassembled for cleaning or replacement by removing the indicated screws.
- **Motor Module:** The motor module is designed for quick assembly and disassembly, facilitating maintenance of the motor and associated gears.
- **Gears:** Inspect the chromium steel spiral gears and other drivetrain components for wear. Replace worn parts as needed.

- **Shock Towers:** The 4mm shock towers provide robust support. Inspect them for damage after impacts.



Figure 7.2: Chromium Steel Spiral Gears.

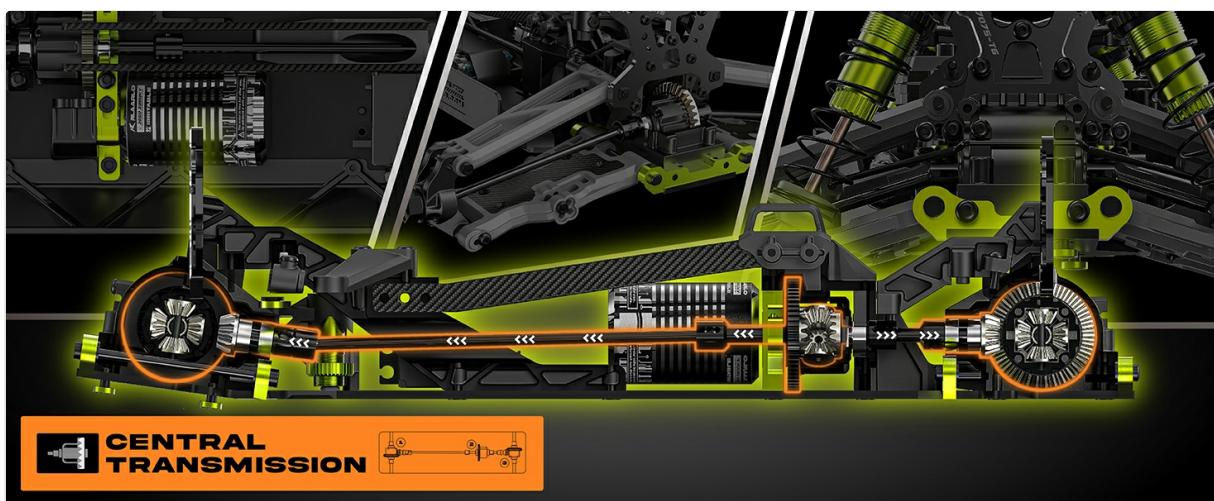


Figure 7.3: Front and rear 4mm shock towers.

8. TROUBLESHOOTING

Refer to the tables below for common problems and their solutions.



Figure 8.1: Troubleshooting guide for steering and battery issues.

OMNITERMINATOR RZ001B-C



Figure 8.2: Troubleshooting guide for vehicle movement and runtime issues.

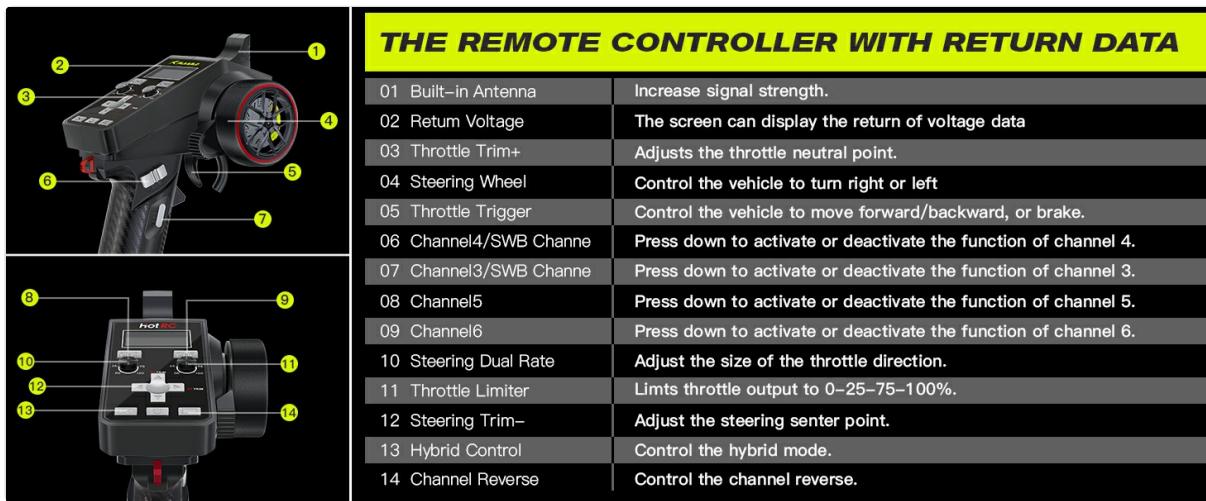


Figure 8.3: Troubleshooting guide for sluggish performance and control issues.

If you encounter problems not listed here, or if the suggested solutions do not resolve the issue, please contact RIAARIO customer support.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact RIAARIO customer service. Details can typically be found on the product packaging or the official RIAARIO website.

Contact Information: Refer to your purchase documentation or the RIAARIO brand store on Amazon for the most current support contact details. The seller for this product is "RIAARIO STORE".

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Related Documents - RZ001B-C



[DRIVEN R/C Monster Truck Waves - User Manual and Instructions](#)

Official user manual and instructions for the DRIVEN R/C Monster Truck Waves. Learn how to start playing, troubleshoot, and manage batteries for model WH1265/WH1265Z.

 <p>Team Corally Punisher XP 6S RTR 1/8 Scale RC Monster Truck Quick Start User Guide</p>	<p>Official Quick Start User Guide for the Team Corally Punisher XP 6S RTR 1/8 Scale 4WD RC Monster Truck. Includes setup, operation, safety precautions, and warranty information.</p>
 <p>Team Corally Kagama 4 RTR Monster Truck Instruction Manual</p>	<p>Comprehensive instruction manual for the Team Corally Kagama 4 RTR Monster Truck, covering operation, maintenance, safety precautions, warranty, and parts identification. Includes quick start guide and technical specifications.</p>
 <p>Monster DNA MAX Bluetooth Speaker: User Manual and Specifications</p>	<p>Comprehensive guide to the Monster DNA MAX portable Bluetooth speaker, covering functions, pairing, charging, Monster Share™ Party Mode, product specifications, safety, and compliance.</p>
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