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> Redcat Racing TC8 Marksman RC Crawler Instruction Manual

Redcat Racing RER14515

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Model: RER14515 | Brand: Redcat Racing

1. INTRODUCTION

The Redcat Racing TC8 Marksman is a highly capable 1:8 scale ready-to-run trail crawler designed for an ultimate off-road experience. This manual provides essential information for setting up, operating, and maintaining your TC8 Marksman to ensure years of enjoyment.

Key features include:

- **Ultimate Trail Driving Experience:** Features XR247 axles, 1.5mm thick c-channel rails, digital servo, and a proven suspension setup for outstanding performance.
- **Well-Balanced TC8 1:8 Scale Chassis:** Uses an oversized TC8 chassis platform with a front-mounted motor, centrally-mounted divorced transfer case, and a battery tray for excellent weight distribution.
- **High-Quality Brushed Electronics:** Equipped with a HobbyWing 80A ESC and Holmes Hobbies 13T 550 brushed motor for reliable, smooth, and accurate low-end throttle control.
- **Scrape Away Paint System:** The body shell features a unique paint system where the outer green layer reveals a rusty metal-looking color beneath as it scrapes away, adding realism.



Figure 1.1: The Redcat Racing TC8 Marksman RC Crawler in its distinctive green finish.

2. SETUP

The TC8 Marksman comes fully assembled. Before first use, ensure you have the necessary batteries for both the vehicle and the radio transmitter.

2.1 Battery Installation

- **Vehicle Battery:** The TC8 Marksman requires a compatible battery pack (e.g., 2S or 3S LiPo, or 6-7 cell NiMH) for the vehicle. Refer to the ESC specifications for compatible battery types and voltage ranges. Carefully connect the battery to the ESC, ensuring correct polarity. Secure the battery in the designated battery tray.
- **Transmitter Batteries:** Install the required batteries (typically AA batteries) into the radio transmitter. Observe polarity markings inside the battery compartment.

2.2 Initial Checks

- Ensure all screws are tightened and no parts are loose.
- Verify that the wheels are securely attached.
- Check the steering and throttle trim settings on your transmitter.
- Perform a range check in an open area before full operation.



Figure 2.1: The underside of the TC8 Marksman, revealing the chassis and electronic components.

3. OPERATING THE TC8 MARKSMAN

The Redcat Racing TC8 Marksman is designed for trail crawling and off-road adventures. Its robust design and advanced electronics provide excellent control and durability.

3.1 Driving Tips

- **Throttle Control:** The Holmes Hobbies 13T 550 brushed motor and HobbyWing 80A ESC provide incredibly accurate low-end throttle control. Use small, precise throttle inputs for technical crawling over obstacles.
- **Steering:** The digital servo offers precise steering. Practice navigating tight turns and challenging terrain.

- **Waterproof Electronics:** The Hobbywing QuicRun WP 80A programmable ESC, receiver, and servo are all-weather, waterproof, and dustproof. This allows for operation in wet conditions, but avoid full submersion or prolonged exposure to deep water. Always dry the vehicle thoroughly after wet use.
- **Adjustable Wheelbase:** The high-strength frame rails allow for wheelbase adjustments (355mm, 361mm, 367mm (stock), 373mm, and 379mm). Experiment with different wheelbase settings to fine-tune the Marksman's front-to-rear stability for various terrains.



Figure 3.1: The TC8 Marksman excels on challenging rocky terrain.



Figure 3.2: The waterproof electronics allow for confident driving through shallow water.

3.2 ESC Programming

The Hobbywing QuicRun WP 80A programmable ESC has fifteen different programmable parameter items, including running mode, cutoff voltage, maximum start/reverse force, PWM frequency, and BEC voltage. Refer to the separate Hobbywing ESC manual for detailed programming instructions using the Hobbywing Program Card.

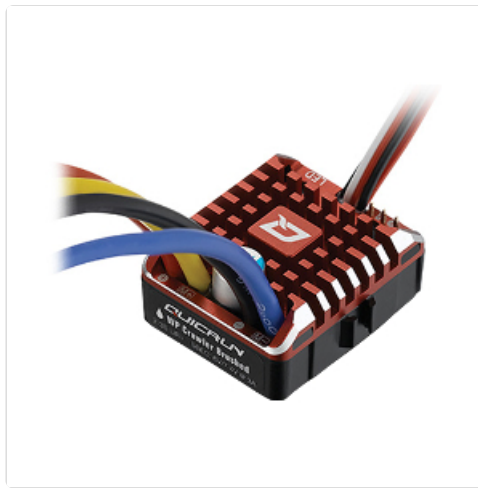


Figure 3.3: The HobbyWing QuicRun WP 80A ESC.



Figure 3.4: The Holmes Hobbies 13T 550 Brushed Motor.



Figure 3.5: The Hobbywing Program Card for ESC adjustments.

4. MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your RC crawler.

- **Cleaning:** After each use, especially after driving in dirt, mud, or water, clean the vehicle thoroughly. Use a soft brush or compressed air to remove debris. For wet conditions, rinse with fresh water and allow to air dry completely.
- **Inspecting Components:** Regularly check all screws, nuts, and bolts for tightness. Inspect the drivetrain (gears, driveshafts) for wear or damage. Ensure the suspension components are moving freely.

- **Lubrication:** Apply appropriate RC-specific grease to moving parts like gears and bearings as needed, following manufacturer recommendations.
- **Battery Care:** Always follow the battery manufacturer's instructions for charging, discharging, and storage. Never leave charging batteries unattended.

5. TROUBLESHOOTING

If you encounter issues with your TC8 Marksman, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power to vehicle	Dead battery, loose connection, ESC off	Charge battery, check connections, turn on ESC
No response from transmitter	Dead transmitter batteries, binding issue	Replace batteries, re-bind transmitter to receiver
Motor not running or running slowly	Motor or ESC overheating, debris in motor, damaged motor/ESC	Allow to cool, clean motor, inspect for damage (replace if necessary)
Poor steering control	Loose servo horn, damaged servo, incorrect trim	Tighten servo horn, replace servo, adjust steering trim

6. SPECIFICATIONS

Feature	Detail
Product Dimensions	26 x 15 x 13 inches
Item Weight	12.92 pounds
ASIN	B09KP4P942
Item Model Number	RER14515
Manufacturer Recommended Age	14 years and up
Release Date	October 29, 2021
Manufacturer	Redcat Racing

7. WARRANTY AND SUPPORT

Redcat Racing is committed to providing a positive experience with their products. For detailed warranty information, parts, and accessories, please visit the official Redcat Racing website or contact their customer support directly.

You can also visit the [Redcat Racing Store on Amazon](#) for more products and information.