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› RhinoRC YUE ONE V2 Crawler Frame Chassis Kit User Manual

RHINOESC YUE-V2 Set

RhinoRC YUE ONE V2 Crawler Frame Chassis Kit User Manual

Brand: RHINOESC | Model: YUE-V2 Set

1. INTRODUCTION AND OVERVIEW

The RhinoRC YUE ONE V2 Crawler Frame Chassis Kit is engineered for 1/10 scale RC crawler cars, providing a robust and adaptable foundation for high-performance builds. Constructed from high-quality 4.0mm 3K real carbon fiber and featuring titanium alloy links, this chassis is designed for exceptional durability and lightweight rigidity. Its innovative design includes multiple fixing points, allowing for extensive customization and tuning to optimize the vehicle's climbing capabilities.

This kit is ideal for enthusiasts looking to build a custom crawler with superior ground clearance and a strong, flexible chassis that can handle challenging terrains.

2. WHAT'S IN THE BOX

Upon opening your RhinoRC YUE ONE V2 Crawler Frame Chassis Kit, please verify that all components listed below are present and in good condition:

- YUE ONE V2 Chassis (Carbon Fiber Frame)
- Titanium Alloy Link Kit
- Rod Ends Kit
- Screws Kit
- Stand-Off Kit



YUE ONE V2 Included:

- YUE ONE V2 Chassis
- Titanium alloy Link Kit
- Rod Ends kit
- Screws kit
- Stand-Off Kit



The Chassis patent number
2024300077826



Figure 2.2: Visual representation of the YUE ONE V2 kit contents.

3. SETUP AND ASSEMBLY

Assembly of the YUE ONE V2 chassis requires careful attention to detail and compatibility with other RC components. This kit provides the core chassis, and additional components such as axles, gearbox, shock absorbers, power system, and battery are required to complete your RC crawler.

3.1 Component Recommendations

- **Axles:** For optimal performance with the YUE ONE V2, Axial Capra Axles (VP version) are recommended. Ensure your chosen gearbox has a mounting hole of 38mm for compatibility.
- **Gearbox:** The Rhino GB867 GearBox is highly recommended for this chassis.
- **Shock Absorbers:** RhinoCrawler S095 shock absorbers are suggested. Use a 0.9NUMBER spring for the front shock absorber and a 0.8NUMBER spring for the rear shock.
- **Power System:** Consider using the Rhino VE40A & Rhino RM-S12 Brushless motor for reliable power.
- **Battery:** An 850mAh battery is recommended for balanced performance.

3.2 Chassis Compatibility and Customization

While the YUE ONE V2 chassis is designed to be versatile and can be used with various axles, the length of the pull rods may need to be customized by the user to achieve proper geometry and suspension travel. The chassis supports a 38mm gearbox installation hole.

When pairing the YUE ONE V2 with Capra Axles (VP Version), it is recommended to use a drive shaft set (2pcs 65-81mm, 1pcs 101-154mm) and a Rhino Transfer Case.



Figure 3.1: Titanium Link TC4 components for the chassis.



Figure 3.2: Measurement of the 4.0mm 3K real carbon fiber chassis thickness.



Figure 3.3: Example of an assembled YUE ONE V2 chassis.

4. OPERATING INSTRUCTIONS

Once your RhinoRC YUE ONE V2 crawler is fully assembled with all necessary components, it is ready for operation. The design of this chassis is specifically optimized for extreme off-road crawling, offering superior articulation and ground clearance.

4.1 Maximizing Performance

- **Suspension Tuning:** The chassis features many shock mount points. Experiment with different mounting positions and shock settings to fine-tune your crawler's suspension for various terrains and obstacles.
- **Weight Distribution:** Proper weight distribution is crucial for crawling performance. Adjust the placement of components like the battery and electronics to achieve optimal balance and traction.
- **Driving Technique:** Practice slow and controlled movements, utilizing the chassis's high articulation to navigate challenging rock formations and steep inclines.

Video 4.1: Demonstration of the YUE V2 Set's climbing capabilities on various terrains.

5. MAINTENANCE

Regular maintenance is essential to ensure the longevity and optimal performance of your RhinoRC YUE ONE V2 chassis and associated components.

- **Cleaning:** After each use, especially in dusty or muddy conditions, clean the chassis and all components to remove dirt and debris. Use a soft brush or compressed air.
- **Inspection:** Periodically inspect all screws, nuts, and links for tightness. Carbon fiber parts should be checked for any signs of damage or stress cracks.
- **Lubrication:** Apply appropriate lubricants to moving parts such as universal joints and bearings as recommended by the manufacturers of those specific components.
- **Shock Absorbers:** Regularly check shock absorbers for leaks and proper damping. Rebuild or replace seals as needed.

6. TROUBLESHOOTING

This section addresses common issues that may arise during the assembly or operation of your RC crawler with the YUE ONE V2 chassis.

Problem	Possible Cause	Solution
Loose or detached C-clips/pins on driveshafts	Vibration during operation, improper installation, wear.	Ensure C-clips are fully seated during assembly. Periodically check and replace worn clips or pins. Consider using thread locker on small screws if applicable.
Shock absorber leaking fluid	Damaged O-rings, loose caps, overfilling.	Disassemble the shock, inspect O-rings for damage, replace if necessary. Ensure caps are tightened properly. Fill with the correct amount of shock oil.
Difficulty aligning shocks or finding compatible driveshafts	Component incompatibility, lack of specific instructions for custom builds.	Refer to the component recommendations in Section 3.1. Customization of pull rod lengths may be required. Consult online RC forums or experienced builders for specific build advice.
Reduced climbing ability or stability	Incorrect suspension tuning, unbalanced weight distribution, worn tires.	Adjust shock mounting points and spring rates. Re-evaluate component placement for optimal weight distribution. Ensure tires are in good condition and have adequate grip.

7. SPECIFICATIONS

Product Dimensions: 9.05 x 5.9 x 0.98 inches

Item Weight: 1.12 ounces

Item Model Number: YUE-V2 Set

Manufacturer: RhinoESC

8. SAFETY INFORMATION

This product is intended for users aged 14 years and older. Adult supervision is recommended for younger users. Always operate RC vehicles in a safe environment, away from people, pets, and obstacles. Do not operate in wet conditions unless the electronic components are specifically designed to be waterproof. Always disconnect the battery when not in use.

9. WARRANTY AND SUPPORT

For any questions, technical support, or concerns regarding your RhinoRC YUE ONE V2 Crawler Frame Chassis Kit, please contact the manufacturer, RHINOESC. You can find more information and contact details by visiting the official RHINOESC Store on Amazon: [RHINOESC Store](#).

Please retain your proof of purchase for any warranty claims or support inquiries.