

## Redcat Racing RAMPAGE-XT

# Redcat Racing Rampage XT 1/5 Scale Gas Truck Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your Redcat Racing Rampage XT 1/5 Scale Gas Truck. The Rampage XT is a high-performance, gas-powered remote-controlled monster truck featuring a 30cc HY 2-stroke engine, 4-wheel drive, and durable construction designed for off-road use.

Please read this manual thoroughly before operating your vehicle to ensure proper function and to maximize its lifespan. Retain this manual for future reference.

## 2. SAFETY INFORMATION

Operating a gas-powered RC vehicle requires adherence to specific safety precautions. Failure to follow these guidelines may result in injury, property damage, or voiding of your product warranty.

- **Adult Supervision Required:** This product is recommended for users 14 years and older. Adult supervision is required for all operation.
- **Engine and Electronics:** Never attempt to re-assemble the motor, Electronic Speed Controller (ESC), or receiver. These components are factory-calibrated. Any malfunction incurred by unauthorized upgrading or modification will void all warranty.
- **Fuel Handling:** Gasoline is highly flammable. Always refuel in a well-ventilated area away from open flames, sparks, or heat sources. Store fuel in an approved container.
- **Hot Components:** The engine and exhaust pipe become extremely hot during operation. Avoid touching these parts to prevent burns. Allow the vehicle to cool completely before handling or performing maintenance.
- **Moving Parts:** Keep hands, face, and loose clothing away from all rotating parts (wheels, drivetrain, engine fan) during operation to prevent entanglement or injury.
- **Operating Environment:** Operate the vehicle in open areas, away from people, pets, and obstacles. Do not operate near public roads, water, or in confined spaces.
- **Exhaust Fumes:** The 2-stroke engine produces exhaust fumes. Operate only in well-ventilated outdoor areas.
- **Battery Safety:** Ensure the receiver battery is properly charged and installed. Follow all battery charging and handling instructions.

### 3. SETUP AND INITIAL PREPARATION

Before your first run, carefully perform the following steps:

1. **Unboxing and Inspection:** Carefully remove the truck and all accessories from the packaging. Inspect for any visible damage.
2. **Charge Receiver Battery:** Locate the receiver battery pack and charge it fully using the provided charger according to its instructions. This battery powers the steering and throttle/brake servos, and the radio receiver.
3. **Radio System Setup:** Install batteries into your 2.4GHz radio transmitter. Turn on the transmitter first, then the vehicle's receiver. Verify proper steering and throttle response. Adjust trim settings as needed.
4. **Fuel Preparation:** The 30cc HY 2-stroke engine requires a pre-mixed unleaded gasoline/oil mixture. Consult the engine manual for the correct mixing ratio (typically 25:1 or 30:1). Fill the 500cc fuel tank, ensuring not to overfill.
5. **Pre-Run Checks:**
  - **Fasteners:** Check all screws and bolts for tightness, especially on the chassis, suspension, and engine mounts. Apply thread-locking compound to metal-to-metal fasteners where appropriate.
  - **Suspension:** Verify that the aluminum-bodied oil-filled shocks move freely and are properly installed. Adjust ride height, toe angle, and camber as desired.
  - **Linkages:** Ensure all steering and throttle/brake linkages are secure and move without binding.
  - **Tires:** Check tire pressure and ensure wheels are securely attached.



Figure 3.1: Front 3/4 view of the Redcat Racing Rampage XT 1/5 Scale Gas Truck with its blue body shell. This image shows the overall design and aggressive stance of the vehicle.



Figure 3.2: Side view of the Redcat Racing Rampage XT 1/5 Scale Gas Truck, highlighting its large wheels and suspension travel. The blue body shell is visible.

## 4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation:

1. **Engine Break-in:** For new engines, follow the specific break-in procedure outlined in the separate engine manual. This typically involves running the engine at varying RPMs with a rich fuel mixture for the first few tanks to ensure proper seating of internal components.
2. **Starting the Engine:**
  - Ensure the radio transmitter is ON.
  - Push the primer bulb on the carburetor several times until fuel is visible.
  - Rotate the choke lever to the 'ON' or 'CLOSED' position.
  - Pull the starter cord firmly and smoothly until the engine starts. Do not pull the cord to its full extension.
  - Once the engine starts, open the choke lever to the 'OFF' or 'OPEN' position. Allow the engine to warm up for a short period before driving.
3. **Driving:** Use the transmitter's throttle trigger to control speed and the steering wheel to direct the vehicle. Start with gentle throttle inputs until you are familiar with the vehicle's response.
4. **Braking:** The Rampage XT features a dual disc brake system. Apply the brake by pushing the throttle trigger forward. Practice braking at various speeds to understand its effectiveness.
5. **Stopping the Engine:** To stop the engine, either use the engine kill switch (if installed) or close the choke fully until the engine stalls.

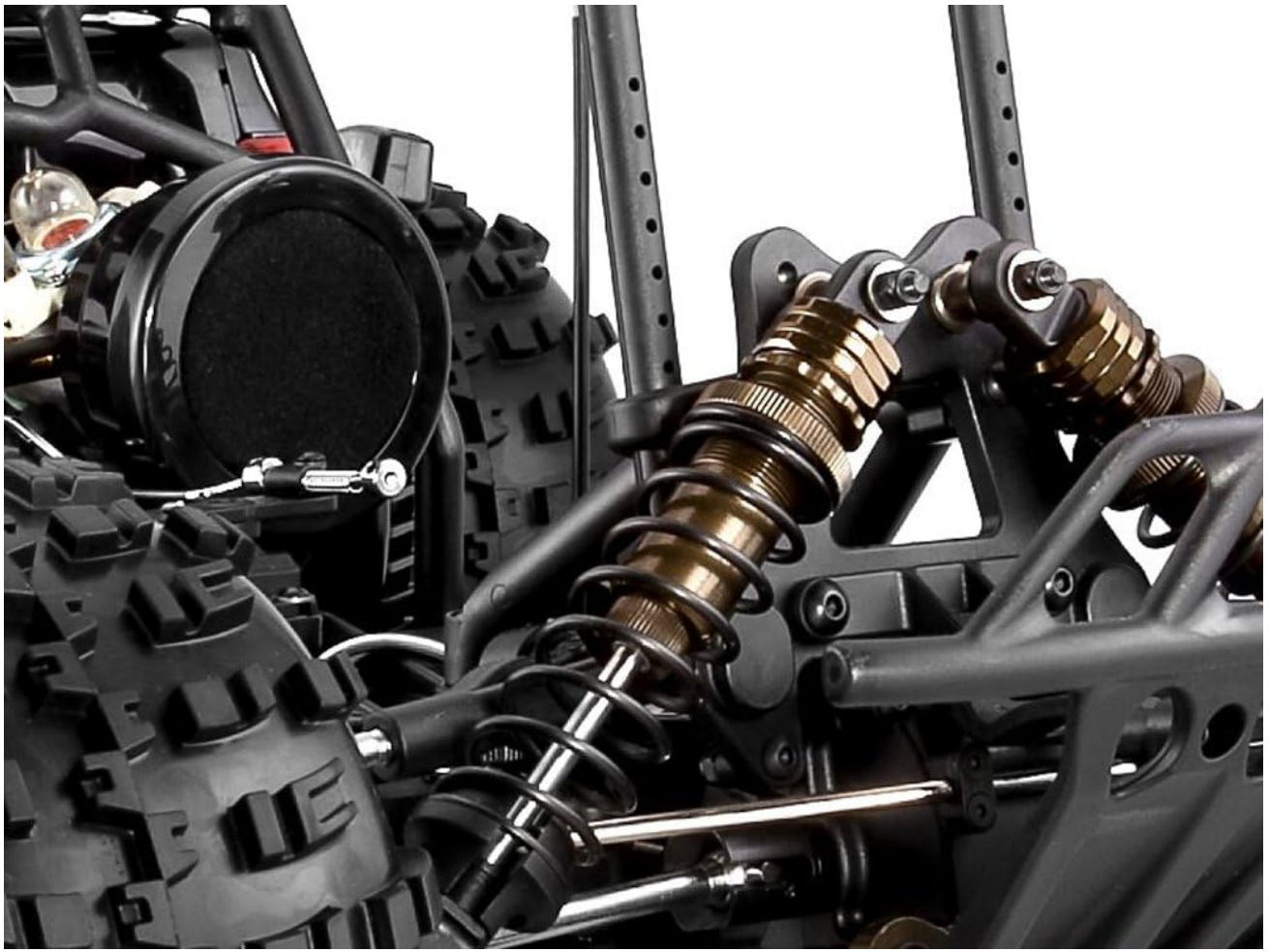


Figure 4.1: Detailed view of the 30cc HY 2-stroke engine, showing the pull start mechanism and fuel lines. This is the power unit for the Rampage XT.

## 5. MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your Rampage XT.

- **After Each Run:**

- Clean the vehicle: Remove dirt, dust, and debris from the chassis, suspension, and engine using a soft brush or compressed air.
- Inspect for damage: Check for bent or broken parts, loose screws, and worn tires.
- Check air filter: Clean or replace the engine's air filter as needed to ensure proper engine performance and prevent dirt ingestion.
- Check fuel lines: Ensure fuel lines are securely connected and free from cracks or leaks.

- **Periodic Maintenance:**

- **Engine:** Refer to the engine manual for detailed maintenance, including spark plug inspection/replacement and carburetor adjustments.
- **Suspension:** Inspect the aluminum-bodied oil-filled shocks for leaks and proper damping. Replace shock oil if performance degrades.
- **Drivetrain:** Check the shaft-driven 4-wheel drive system, including gear differentials, steel drive cups, and large diameter drive shafts, for wear or damage. Lubricate moving parts as recommended.
- **Bearings:** Inspect all ball bearings for smooth operation. Clean and re-lubricate or replace as necessary.
- **Fasteners:** Periodically re-check all fasteners for tightness, especially after aggressive driving.



Figure 5.1: Top-down view of the Rampage XT chassis, revealing the engine, exhaust, fuel tank, and drivetrain components. This perspective is useful for maintenance and inspection.

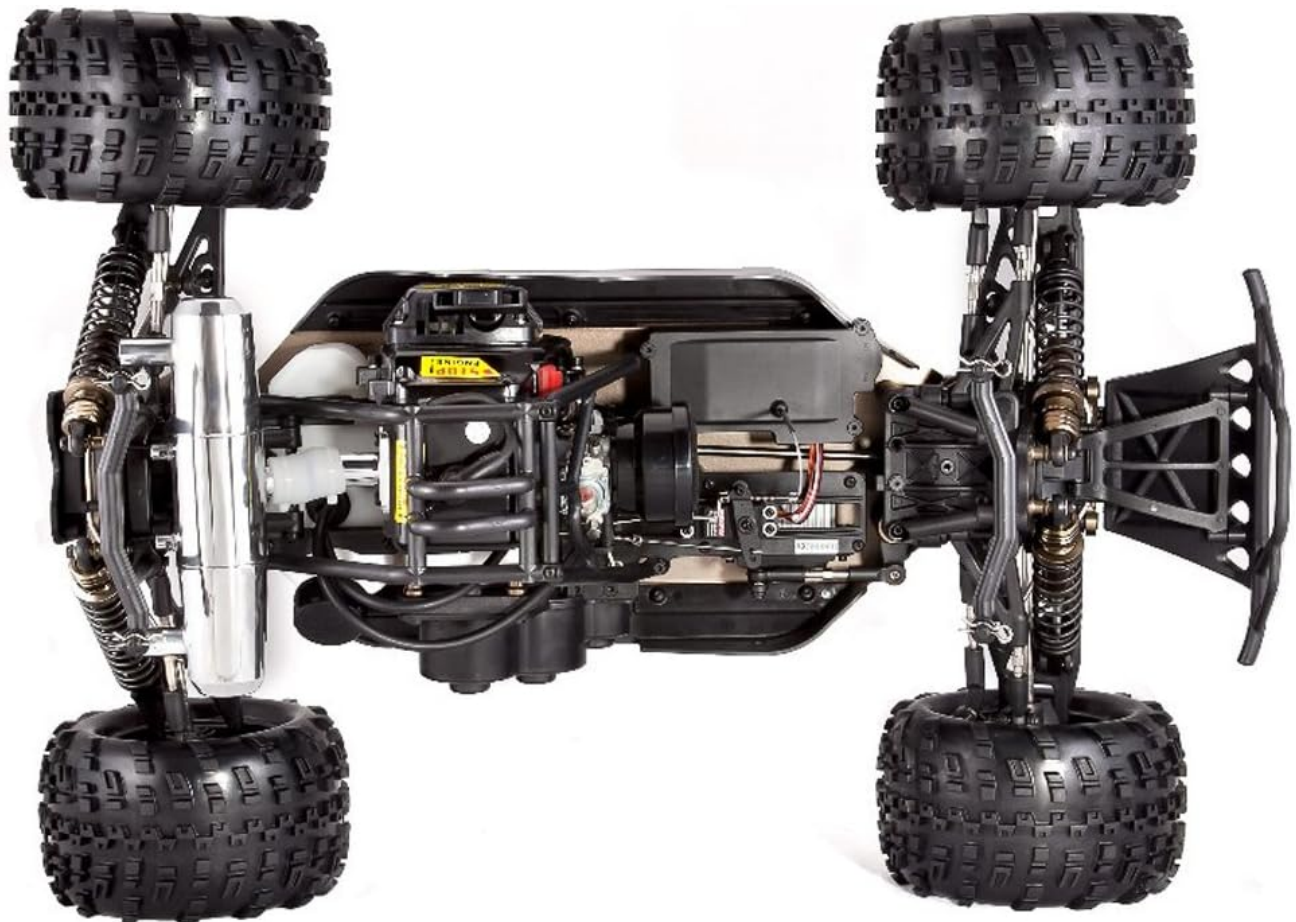


Figure 5.2: Close-up of the front suspension, showing the aluminum-bodied oil-filled shocks and steering linkages. Regular inspection of these components is vital for control.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Rampage XT.

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem                          | Possible Cause                                                                              | Solution                                                                                                                                              |
|----------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engine will not start            | No fuel, incorrect choke position, fouled spark plug, low receiver battery, engine flooded. | Check fuel level and mixture. Adjust choke. Inspect/clean/replace spark plug. Charge receiver battery. Clear flooded engine (refer to engine manual). |
| Loss of control/Erratic behavior | Low transmitter/receiver battery, radio interference, damaged servo/linkage.                | Replace/charge batteries. Move to a different operating area. Inspect servos and linkages for damage or looseness.                                    |
| Vehicle lacks power/speed        | Incorrect engine tuning, dirty air filter, worn clutch, low fuel.                           | Adjust carburetor settings (refer to engine manual). Clean/replace air filter. Inspect clutch. Refuel.                                                |
| Excessive vibration/noise        | Loose wheel, damaged drivetrain component, unbalanced tire.                                 | Tighten wheel nuts. Inspect axles, drive shafts, and differentials for damage. Check tire balance.                                                    |
| Power switch issues              | Dirt/debris ingress into the switch.                                                        | Relocate the power switch if possible, or regularly clean it to prevent malfunction.                                                                  |

## 7. SPECIFICATIONS

Key specifications for the Redcat Racing Rampage XT 1/5 Scale Gas Truck:

- **Model:** RAMPAGE-XT
- **Scale:** 1/5
- **Engine:** 30cc HY 2-Stroke Gas Engine
- **Drive System:** Shaft Driven 4-Wheel Drive
- **Chassis:** 4mm 6061 T6 Aluminum
- **Shocks:** Aluminum Bodied Oil Filled
- **Differentials:** Front and Rear Gear Differentials
- **Radio System:** 2.4GHz
- **Servos:** High Torque Throttle/Brake Servo, High Torque 1/5 Scale Steering Servo
- **Brakes:** Dual Disc Brake System
- **Fuel Tank Capacity:** 500cc
- **Product Dimensions:** 29.75 x 21.25 x 12.75 inches
- **Item Weight:** 21.6 pounds
- **Recommended Age:** 14 years and up
- **Manufacturer:** Redcat Racing

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please refer to the documentation included with your product or visit the official Redcat Racing website. Warranty terms and conditions typically cover manufacturing defects and may vary. Unauthorized modifications or improper use can void your warranty.

**Contact Information:** Please refer to the Redcat Racing official website for the most current support contact details.

## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question