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> HPI Racing Vorza 4.6 Truggy Instruction Manual

## HPI Racing Vorza 4.6 Truggy

# HPI Racing Vorza 4.6 Truggy Instruction Manual

Model: Vorza 4.6 Truggy (HP160180)

## INTRODUCTION

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This manual provides essential information for the safe and effective operation, setup, and maintenance of your HPI Racing Vorza 4.6 Truggy. Please read this manual thoroughly before operating the vehicle to ensure proper function and to prevent damage or injury.

The HPI Vorza 4.6 Truggy is a factory-assembled, pre-painted 1/8 scale 4WD nitro-powered remote control truggy, equipped with a powerful Nitro Star F4.6 V2 engine and a 2.4Ghz radio system. It is designed for off-road performance and durability.



Image: Top-down view of the HPI Racing Vorza 4.6 Truggy, showcasing its orange and black body with aggressive styling and large off-road tires.

## SAFETY GUIDELINES

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**WARNING: This product is not a toy. It is a high-performance model vehicle that requires careful handling and adherence to safety procedures. Failure to do so may result in serious injury or property damage.**

- Always operate your Truggy in open areas, away from people, pets, and obstacles.
- Never operate near public roads or in residential areas.
- The engine operates at high temperatures. Avoid touching the engine, exhaust pipe, or other hot components during or immediately after operation.
- Nitro fuel is highly flammable. Store fuel in a cool, well-ventilated area, away from ignition sources. Always use appropriate safety gear when handling fuel.
- Keep hands, hair, and loose clothing away from moving parts, especially the engine flywheel and gears.
- Always turn off the receiver and then the transmitter when finished operating.
- Adult supervision is required for users under 18 years of age.

## PACKAGE CONTENTS

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The HPI Racing Vorza 4.6 Truggy comes factory-assembled and ready-to-run (RTR). Please verify all components are present upon unboxing.

### Included in the Box:

- HPI Vorza F4.6 Big Block 1/8 RTR 4WD Nitro Truggy
- 2.4Ghz Radio Transmitter
- Pre-mounted all-terrain tires (4x)

### Items Required for Operation (Not Included):

- 20-25% Nitromethane fuel
- Glow igniter
- Fuel bottle
- AA batteries for transmitter (4x)
- NiMH pack for receiver (1x)
- Compatible charger for NiMH pack



Image: The product packaging for the HPI Racing Vorza 4.6 Truggy, displaying the vehicle and key features.

## SETUP

Follow these steps to prepare your HPI Vorza 4.6 Truggy for its first run.

1. **Transmitter Battery Installation:** Open the battery compartment on the 2.4Ghz radio transmitter. Insert four (4) AA batteries, ensuring correct polarity. Close the compartment securely.
2. **Receiver Battery Charging & Installation:** Charge the NiMH receiver pack using a compatible charger according to the charger's instructions. Once charged, install the NiMH pack into the enclosed receiver box on the Truggy. Ensure all connections are secure.
3. **Fueling the Truggy:** Using a fuel bottle, carefully fill the 125cc racing fuel tank with 20-25% Nitromethane fuel. Ensure the fuel cap is securely closed after filling. The tank features a clunk system to help maintain fuel flow even

when the vehicle is inverted.

4. **Glow Igniter Preparation:** Ensure your glow igniter is fully charged and ready for use. The glow igniter is essential for starting the nitro engine.
5. **Pre-Run Checks:** Before starting, visually inspect the Truggy for any loose screws, damaged parts, or obstructions. Check that the steering and throttle linkages move freely and are correctly adjusted.



Image: Side profile of the HPI Racing Vorza 4.6 Truggy, highlighting its low-slung chassis and large wheels.

## OPERATING INSTRUCTIONS

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Once the Truggy is set up, you can proceed with starting and operating it.

1. **Turn On Radio System:** First, turn on the transmitter. Then, turn on the receiver switch on the Truggy. Verify that the steering servo responds to transmitter inputs.
2. **Starting the Engine:**
  - Place the glow igniter onto the glow plug on top of the engine cylinder head.
  - Ensure the throttle is slightly open (or use the throttle trim on the transmitter to open it slightly).
  - Firmly and smoothly pull the starter cord on the engine. Do not yank the cord. Repeat until the engine starts.
  - Once the engine starts, remove the glow igniter. The engine should idle smoothly. If it stalls, re-attach the igniter and pull the cord again.
3. **Driving the Truggy:** Use the steering wheel on the transmitter to control direction and the throttle trigger to control speed. Practice in an open area to get accustomed to the controls.
4. **Stopping the Engine:** To stop the engine, either pinch the fuel line to cut off fuel supply or apply the brake fully and hold it until the engine stalls. Never attempt to stop the engine by blocking moving parts. After the engine stops, turn off the receiver switch on the Truggy, then turn off the transmitter.



Image: Another top view of the HPI Racing Vorza 4.6 Truggy, emphasizing its wide stance and robust design.

## MAINTENANCE

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Regular maintenance is crucial for the longevity and performance of your HPI Vorza 4.6 Truggy.

- **Engine Maintenance:**

- After each run, clean the engine exterior to remove dirt and debris.
- Regularly inspect and clean the high-density foam air filter. A dirty air filter can restrict airflow and damage the engine. Re-oil the filter after cleaning.
- Check the glow plug condition periodically and replace if worn.
- Ensure all engine screws and fasteners are tight.

- **Chassis and Drivetrain Inspection:**

- Inspect the 4mm aluminum chassis and shock towers for any bends or damage.
- Check the hardened steel spur and pinion gears, and the oil-filled 4-gear differentials for wear or damage.
- Ensure the rubber-sealed ball bearings are clean and spinning freely. Replace any seized bearings.
- Verify the threaded 16mm Big Bore oil-filled shocks are not leaking and provide consistent damping.

- **Tire and Wheel Care:**

- Clean dirt and debris from the pre-mounted all-terrain tires and wheels after each use.
- Check for tire wear or damage. Replace tires if they are excessively worn or torn.

- **General Cleaning:** Use a soft brush or compressed air to remove dirt and dust from the entire vehicle, paying attention to the suspension components, linkages, and electronics box.



Image: Underside view of the HPI Racing Vorza 4.6 Truggy, showing the aluminum chassis, engine, exhaust, and drivetrain components.

## TROUBLESHOOTING

This section addresses common issues you might encounter with your Truggy.

Problem	Possible Cause	Solution
Engine won't start	No fuel, dead glow igniter, flooded engine, dirty air filter, bad glow plug	Check fuel level, charge glow igniter, clear flooded engine (remove glow plug and pull starter), clean/replace air filter, replace glow plug
Engine stalls frequently	Improper engine tuning, low fuel, dirty air filter, engine overheating	Adjust engine tuning (refer to advanced tuning guides), refuel, clean air filter, allow engine to cool
Loss of control/range	Low transmitter/receiver batteries, radio interference, damaged antenna	Replace/charge batteries, move to a different location, inspect and repair antenna

Problem	Possible Cause	Solution
Vehicle pulls to one side	Steering trim off, damaged suspension component, uneven tire wear	Adjust steering trim on transmitter, inspect suspension for damage, check tire condition

## SPECIFICATIONS

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- **Scale:** 1/8
- **Length:** 580mm
- **Width:** 408mm
- **Height:** 200mm
- **Wheelbase:** 375mm
- **Drivetrain:** Shaft driven 4WD
- **Engine:** Nitro Star F4.6 V2 (4.6cc / .28 cubic inch, 2.9hp)
- **Chassis:** 4mm Aluminum
- **Shocks:** Threaded 16mm Big Bore oil-filled
- **Differentials:** Tough oil-filled 4-gear
- **Radio System:** 2.4Ghz
- **Fuel Tank Capacity:** 125cc with clunk system
- **Steering Servo:** High torque metal geared
- **Air Filter:** High density foam
- **Exhaust:** Aluminum tuned pipe
- **Additional Features:** Front and rear sway bars, Nylon stone and dirt guards, Full set of rubber-sealed ball bearings, Enclosed receiver box, Super low center of gravity (CG)

## WARRANTY AND SUPPORT

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For specific warranty information, please refer to the documentation included with your purchase or visit the official HPI Racing website. HPI Racing provides customer support for product inquiries, technical assistance, and spare parts. Please retain your proof of purchase for any warranty claims.

For further assistance, contact HPI Racing customer service through their official channels.