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MotoTec MT-Raider-48v-1200w_Green

MotoTec Raider Kids UTV User Manual

MODEL: MT-RAIDER-48V-1200W_GREEN

Your comprehensive guide to safe and effective operation, maintenance, and troubleshooting.

1. Safety Information

Operating the MotoTec Raider Kids UTV requires adherence to strict safety guidelines to prevent injury. This vehicle is designed for users **13 years and up**.

- Always wear a **helmet and appropriate safety gear**, including eye protection, gloves, and sturdy footwear.
- **Adult supervision is required** at all times during operation.
- Ensure the seat belt is securely fastened before operating the UTV.
- Operate only in safe, open areas away from public roads, traffic, and obstacles.
- Avoid operating on steep inclines, uneven terrain, or near water bodies.
- Keep hands, feet, and clothing clear of all moving parts.
- This product contains small parts and is not suitable for children under 3 years old.

2. Product Overview

The MotoTec Raider Kids UTV is a powerful electric off-road vehicle designed for recreational use. It features a robust 48-volt 1200-watt shaft drive brushless motor, providing reliable performance. The UTV is equipped with full suspension for a smoother ride over varied terrain.



Figure 2.1: Front 3/4 view of the MotoTec Raider Kids UTV, showcasing its green and black design with large off-road tires and front suspension.



Figure 2.2: Rear 3/4 view of the MotoTec Raider Kids UTV, highlighting the rear suspension, hydraulic disc brake, and taillights.

Key Features:

- Powerful 48V 1200W Permanent Magnet DC Brushless Motor.
- Shaft Drive Transmission for reliable power delivery.
- Forward, Neutral, and Reverse gears.
- Two adjustable speed settings for varied experience levels.
- Full suspension system with dual front and rear shocks for enhanced comfort.
- Roll cage safety bar and seat belt for rider protection.
- Foot-operated Hydraulic Rear Disc Brake for effective stopping power.
- Adjustable seat and metal throttle/brake pedals for ergonomic comfort.

3. Setup

3.1 Unpacking and Assembly:

Carefully remove all components from the packaging. Inspect for any damage during transit. Assembly typically involves attaching the steering wheel, roll bar, and ensuring all connections are secure. Refer to the included assembly diagram for detailed steps.

3.2 Initial Battery Charge:

Before first use, fully charge the UTV's 48V 12Ah Sealed Lead Acid battery.

- Locate the charging port on the UTV.
- Connect the provided charger to the UTV and then to a standard electrical outlet.
- Allow the battery to charge until the charger's indicator light signals a full charge (refer to charger manual for specific light indications). This may take several hours.
- Do not overcharge the battery. Disconnect the charger once charging is complete.

3.3 Pre-Ride Checklist:

- Ensure all nuts and bolts are tightened.
- Check tire pressure (refer to tire sidewall for recommended PSI).
- Verify brake functionality.
- Confirm steering is smooth and responsive.
- Check battery charge level.

4. Operating Instructions

4.1 Starting the UTV:

1. Ensure the rider is seated properly and the seat belt is securely fastened.
2. Insert the key into the ignition and turn it to the "ON" position.
3. Select the desired gear (Forward, Neutral, or Reverse) using the gear selector.
4. Gently press the foot throttle to begin moving.



Figure 4.1: Illustration of the adjustable seat and pedal distance, ensuring comfortable operation for various rider heights.

4.2 Speed Settings:

The MotoTec Raider offers multiple speed settings to accommodate different skill levels and environments. The top speeds are approximately 8mph, 15mph, and 23mph. Consult the UTV's control panel for instructions on how to switch between these settings.

4.3 Braking:

To slow down or stop, release the throttle and gently press the foot-operated hydraulic rear disc brake pedal. Apply steady pressure for smooth braking.

4.4 General Operation Tips:

- Always maintain a safe distance from other vehicles, people, and objects.
- Avoid sharp turns at high speeds to prevent tipping.
- Be aware of your surroundings and potential hazards.
- Do not exceed the maximum rider weight of **165 lbs**.

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Video 4.2: Official MotoTec Raider Kids UTV demonstration video, showcasing its features and operation in an outdoor setting. This video highlights the UTV's maneuverability, suspension, and general performance.

5. Maintenance

5.1 Battery Care:

- Recharge the battery after each use, even if only for a short period, to prolong its lifespan.
- If storing the UTV for an extended period, charge the battery fully once a month.
- Store the UTV and battery in a cool, dry place.

5.2 Cleaning:

Clean the UTV with a damp cloth. Avoid using harsh chemicals or abrasive cleaners. Do not spray water directly onto electrical components.

5.3 General Checks:

- Regularly inspect tires for wear and proper inflation.
- Check brake pads and disc for wear and proper function.
- Ensure all visible wires and connections are secure and undamaged.
- Lubricate moving parts as recommended in the full service manual (if applicable).

6. Troubleshooting

Problem	Possible Cause	Solution
UTV does not start or move.	Battery is low or dead; Power switch is off; Loose wiring connection.	Charge the battery; Turn the power switch to "ON"; Check and secure all electrical connections.
Reduced power or speed.	Low battery charge; Overloaded (exceeding weight limit); Operating on difficult terrain.	Fully charge the battery; Ensure rider weight is within limits; Operate on suitable terrain.
Brakes are not effective.	Worn brake pads; Brake cable adjustment needed.	Inspect and replace brake pads if worn; Adjust brake cable tension (consult a qualified technician if unsure).
Unusual noises during operation.	Loose components; Debris in moving parts; Motor issue.	Inspect for and tighten any loose parts; Clear any debris; If noise persists, contact customer support.

7. Specifications

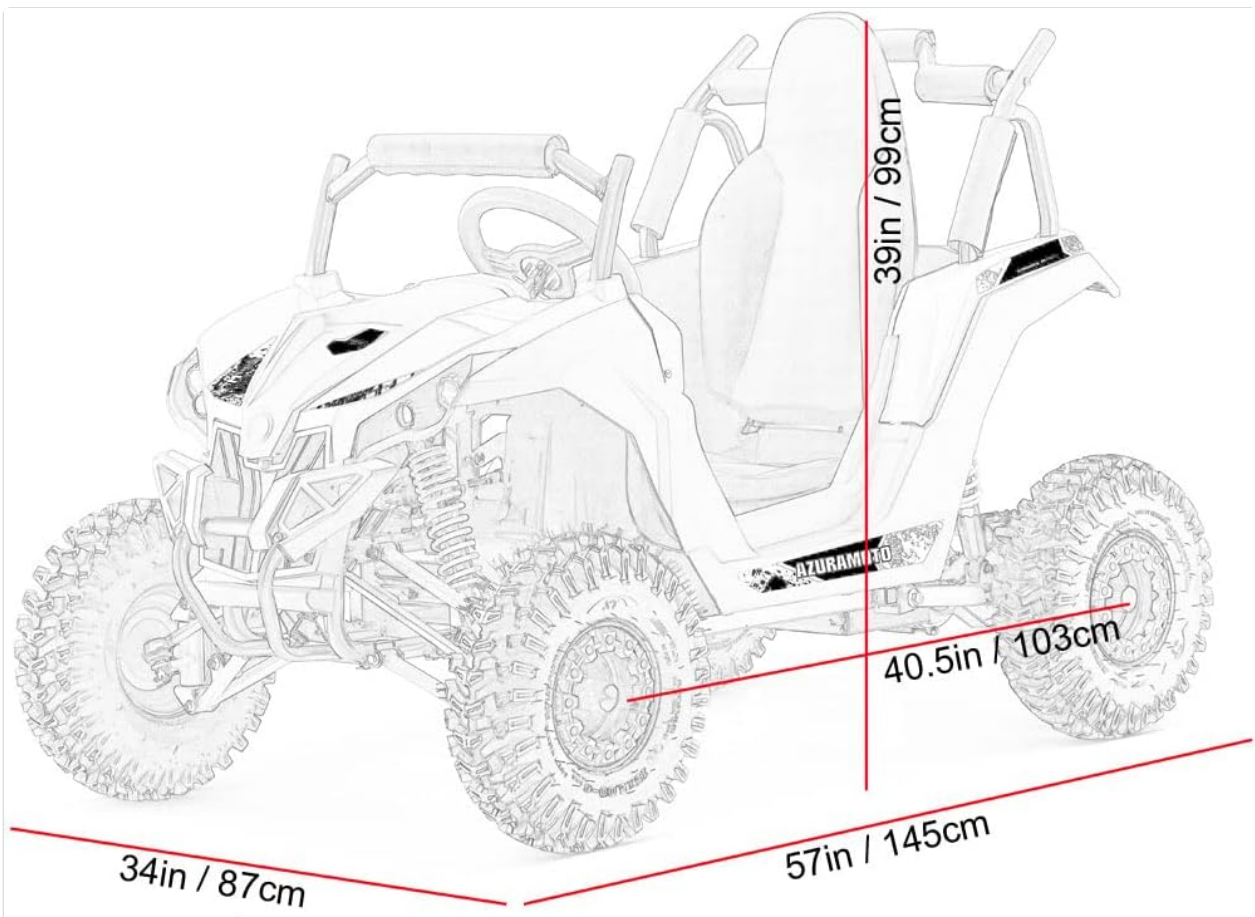


Figure 7.1: Dimensional diagram of the MotoTec Raider Kids UTV, illustrating its length, width, and height.

Feature	Detail
Motor	48V 1200W (Permanent Magnet DC Brushless)
Battery	Four 12V/12Ah Sealed Lead Acid (48V 12Ah Total)
Recommended Age	13 years and up
Gears	Forward / Neutral / Reverse (F/N/R)
Transmission	Shaft Drive
Max Rider Weight	165 lbs
Top Speed	8mph / 15mph / 23mph (adjustable)
Distance Per Charge	5 to 20 miles (dependent on weight, terrain)
Suspension	Dual Front Shock, Dual Rear Shock
Brake	Foot operated Hydraulic Rear Disc
Climbing Angle	15 degrees
Product Dimensions (L x W x H)	57 x 34 x 39 inches
Item Weight	196 lbs
Wheelbase	41 inches
Minimum Ground Clearance	5 inches

Feature	Detail
Front Wheels	15x5.0-6 inches
Rear Wheels	15x5.0-6 inches

8. Warranty and Support

8.1 Warranty Information:

The MotoTec Raider Kids UTV comes with a **60-day parts replacement warranty**. This warranty covers manufacturing defects and material flaws under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Support:

For technical assistance, parts inquiries, or warranty claims, please contact MotoTec customer support. Refer to the product packaging or the official MotoTec website for the most current contact information.

Website: Visit the [MotoTec Store on Amazon](#)