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Miniature Motors SX2319

Miniature Motors 24V 6 Wheeler Lawn Racer Extreme User Manual

Model: SX2319

1. Important Safety Information

Read this manual thoroughly before assembly and operation. Failure to follow safety instructions can result in serious injury or death.

- Always supervise children operating the vehicle.
- Ensure the child wears appropriate safety gear, including a helmet.
- Do not operate the vehicle near roads, steep inclines, swimming pools, or other hazardous areas.
- Only one rider at a time.
- Maximum weight capacity: 110 lbs (49.9 kg).
- Recommended age: 3-8 years.
- Use the remote control for younger children to ensure safety and control.
- This product is certified by CPSIA and ASTM F963-17 for safety and durability.

2. Product Overview

The Miniature Motors 24V 6 Wheeler Lawn Racer Extreme is an electric ride-on vehicle designed for children aged 3-8 years. It features a robust metal frame, 4x75W motors, and 10-inch EVA foam wheels for multi-terrain traction. The vehicle includes a parental remote control for enhanced safety and supervision.



Figure 2.1: The 24V 6 Wheeler Lawn Racer Extreme, showing the vehicle and its remote control.



Figure 2.2: Product dimensions and recommended age range for the ride-on toy.

3. Assembly Instructions

The vehicle comes partially assembled. Final assembly typically involves attaching the wheels and front cover. Refer to the included assembly guide for detailed, step-by-step instructions.

1. Unpack all components and verify against the parts list.
2. Attach the wheels to the axles, ensuring all fasteners are securely tightened.
3. Connect the battery terminals. Ensure the battery is fully charged before first use.
4. Install the front bumper/cover.
5. Apply DIY stickers as desired for customization.

Note: Some reviews mention missing wheel nuts or disconnected batteries upon arrival. Please check all connections and hardware before use. Contact customer service if any parts are missing or damaged.

4. Charging the Battery

The vehicle is powered by two 12V batteries (included). Proper charging is crucial for battery longevity and to maintain warranty.

- After each use, charge the battery for a minimum of 6 hours.
- **Do not charge for longer than 12 hours.** Overcharging can damage the battery and void the warranty.
- Consider using a charging timer to prevent overcharging.
- Ensure the vehicle is turned off during charging.

5. Operating the Vehicle

5.1. Manual Operation

Children can operate the vehicle using the steering wheel and accelerator pedal.

- **Speed Control:** The vehicle has two forward speeds (3 MPH and 6 MPH) and one reverse speed. Use the speed switch to select the desired speed.
- **Direction Control:** Use the steering wheel to turn left or right. The forward/backward switch controls the direction of travel.
- **Acceleration:** Press the accelerator pedal to move the vehicle. Release the pedal to brake.
- **Horn and Music:** Press the buttons on the steering wheel for horn sounds and pre-loaded music.
- **Lighting:** The vehicle features a cool rear working light bar.

5.2. Remote Control Operation

The parental remote control allows adults to fully control the vehicle's movement and speed, providing an essential safety feature, especially for younger children.



Figure 5.1: The vehicle's seat belt and the parental remote control, highlighting key safety features.

- **Pairing:** Follow the remote control's instructions to pair it with the vehicle.
- **Direction:** Use the directional buttons (forward, backward, left, right) to steer the vehicle.
- **Speed:** The remote offers three speed levels.
- **Emergency Stop (Park Button):** Press the "Park" button to immediately stop the vehicle. Press again to resume movement. This feature overrides manual controls.

5.3. Terrain and Performance

The 24V 6 Wheeler Lawn Racer Extreme is designed for multi-terrain use, including uneven lawns and dirt, thanks to its 4x75W motors and 10-inch EVA foam wheels.



Figure 5.2: The vehicle demonstrating its capability on grass, with indicators for max speed (6 MPH), premium EVA wheels, 4x75W drive motors, and 20° slope incline.

- **Slope Climbing:** Capable of climbing slopes up to 20 degrees.
- **Traction:** EVA foam wheels provide superior grip and shock absorption compared to plastic tires.
- **Suspension:** Independent wheel suspension ensures smooth driving on rough terrains.
- **Braking:** Superior braking power allows for quick stops, with a braking time of less than 1 second and a braking distance of less than 2.5 feet.

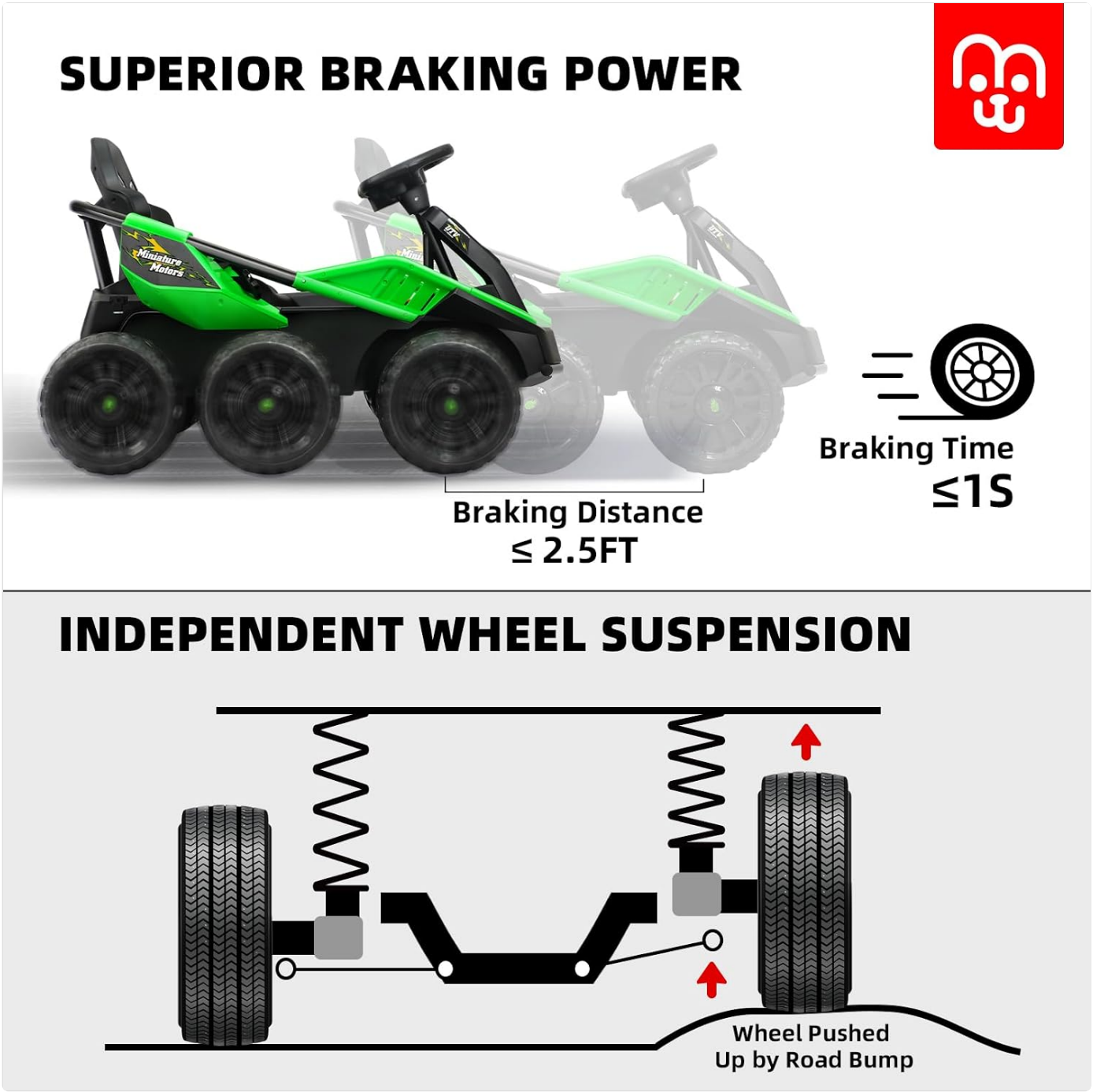


Figure 5.3: Visual representation of the vehicle's superior braking power and independent wheel suspension system.

6. Maintenance and Care

- **Cleaning:** Wipe the vehicle with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the vehicle in a dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Follow charging instructions carefully. If storing for extended periods, charge the battery fully every 3 months to prevent deep discharge.
- **Inspections:** Regularly check all nuts, bolts, and electrical connections to ensure they are secure.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Vehicle does not move.	Battery not charged or disconnected. Remote control "Park" button activated.	Check battery charge and connections. Deactivate "Park" button on remote.
Vehicle moves slowly.	Low battery charge. Overloaded vehicle.	Recharge battery. Ensure rider weight is within limits (max 110 lbs).
Remote control not working.	Remote not paired. Remote battery low.	Re-pair remote control. Replace remote batteries.
Unusual noises during operation.	Loose parts. Debris in wheels/motors.	Inspect for loose components and tighten. Clear any obstructions.

8. Specifications

Feature	Detail
Model Number	SX2319
Product Dimensions (L x W x H)	99.06 x 71.12 x 63.5 cm (39 x 28 x 25 inches)
Product Weight	22.68 kg
Battery	2 x 12V (24V total), 10Ah
Motors	4 x 75W
Max Speed	6 MPH
Wheels	10" Off-road EVA Foam
Max Load Capacity	49.9 kg (110 lbs)
Recommended Age	3 years and up (fits children over 50 inches)
Material	Plastic, Metal
Remote Control	Yes
Safety Certifications	CPSIA, ASTM F963-17



Figure 8.1: Comparison of key specifications between the 24V 6 Wheeler Lawn Racer and a 12V model.

9. Warranty Information

This product comes with a manufacturer's warranty. Please refer to the original purchase documentation or contact Miniature Motors customer support for specific warranty terms and conditions.

Important: Failure to follow the battery charging instructions (charging for at least 6 hours but never longer than 12 hours after each use) will void your warranty.

10. Customer Support

For any questions, technical assistance, or warranty claims, please contact Miniature Motors customer support. Contact details can typically be found on the product packaging or the brand's official website.

Please have your model number (SX2319) and purchase date ready when contacting support.

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