



Worthy Wheels Derby Rules

Year of Construction

The car must be built for the current year's derby; reusing or modifying previous cars is not allowed.

Car Dimensions

- Width: The car must not exceed 2 3/4 inches.
- Length: The car must not exceed 7 inches. (11 inches may be impractical for most tracks; verify track compatibility.)
- Height: The car must not exceed 7 inches to ensure it clears all track components, including the finish line sensor.

Car Weight

The weight of the car, including all modifications and details, must not exceed 5.00 ounces (141.75 grams) as determined by the official race scale.

Wheel and Axle Specifications

- Minimum distance between wheels: 1 3/4 inches.
- Minimum ground clearance: 3/8 inch from the bottom of the car to the track.
- Maximum front-center ground clearance: 1 3/4 inches.
- Only standard TL kit axles and wheels with a 1/4-inch flat circumference are allowed.
- Modifications to the wheels or axles, including reshaping or narrowing, are not permitted.

Prohibited Enhancements

- Wheel bearings, washers, bushings, or similar components are not allowed.
- The car must not ride on springs of any kind.

Lubrication Rules

Only dry lubricants (e.g., graphite, Teflon powder) may be used on wheels and axles, with no residue on the track.

Design and Construction Requirements

- All decorative or functional details added to the car must comply with the specified size and weight limits.
- The car must move solely by gravity, without motors, magnets, or other propulsion devices.
- The car must not contain loose materials, such as lead shot, that could shift or spill during the race.

Additional Safety and Fairness Provisions

- All cars will be inspected before racing. Cars failing to meet rules will be disqualified until adjustments are made.
- The racer must be the car's main builder, with age-appropriate assistance allowed; significant adult assistance may lead to disqualification to ensure fairness.

General Conduct

- Racers shall not modify the track or disrupt others during the race.
- The decision of race officials regarding rules, disputes, and car inspections is final.

Last Revised: 12/15/2024