



AMUGderby Rules and Race Procedures Revised October 29, 2024

Race Date: Wednesday, April 2, 2025

Location: Hilton Chicago, Normandie Lounge

Check-in Time: 4:00 - 5:45 pm CDT

Race Start Time: 6:00 pm CDT (start time may be adjusted prior to the race)

Race Registration: Advanced registration is suggested ([click here](#)) but not required.

Race Categories: Standard and Open

Eligibility

Participants must be registered AMUG Conference attendees.

There is no restriction on the number of entries by the same company. However, only one entry per attendee is allowed.

Car Design & Fabrication (both categories)

Body Material/Fabrication

Main body of the car must be 3D printed (in any material) and free of material that may contaminate the track (such as loose powder).

Main body of the car may be painted, coated, or decorated.

Any additions, such as weights, must be securely attached to the main body of the car.

Car Dimensions

Overall length shall not exceed 7 inches.

Overall width shall not exceed 2.75 inches.

Overall height shall not exceed 4 inches.

Must have 1.75-inch minimum clearance between the wheels.

Must have 0.375-inch minimum ground clearance (body to track).

Front Edge of Car

When placed in the starting position, the front edge of the car will rest on a retractable starting pin that protrudes upward from the center of the track. No part of the car (including the front wheels) may extend forward beyond the starting pin.

The front edge of the car should be at least 0.5 inch wide at the center of the car.

Race Procedure

Car must pass inspection prior to racing.

- Cars that do not pass inspection may be modified to meet the criteria.
- Once a car passes inspection, only race committee members may handle it.

If the car loses a wheel or is otherwise damaged, the racer may make repairs within 5 minutes.

- Repaired cars must pass inspection prior to racing.

Each car will race a total of 3-6 qualifying runs, with an average taken of the run times.

The top 3-6 average times in each category will advance to the championship round for a best-of-one-round race.

Prizes awarded to the Championship winner in each category and for the "Best Design."

- Best Design to be chosen by the race committee.



Standard Category

Car Weight

Weight shall not exceed 6 ounces.

Wheels and Axles

Official BSA® wheel kits (wheels + axles) must be used and can be purchased [online](#).

Axles may be sanded and/or polished to remove blemishes.

Only graphite powder may be used to lubricate the axles. No liquid lubricants are allowed.

Axles may not be bent or angled.

No adjustment of the wheels is allowed (e.g., cutting, beveling, drilling, or rounding).

Car must use all 4 wheels.

- At least 3 wheels must be flat on the track (or gauge used in inspection).

Car Modifications Not Allowed

No propellants or propulsion mechanisms may be used.

No loose items are allowed on the car.

Open Category

Car Weight

Weight shall not exceed 10 ounces.

Wheels and Axles

Wheels must be unfilled polymer (no metal, glass, carbon, or ceramic filler allowed).

Any surface that will come in contact with the track must be unfilled polymer.

Bearings and axles can be purchased or designed and printed. Secondary machining processes are allowed.

Only graphite powder may be used to lubricate moving parts. No liquid lubricants are allowed.

Car Modifications Allowed

Springs or other mechanical propulsion.

Car Modifications Not Allowed

No electronic, chemical, or pressurized propulsion mechanisms may be used (NO CO₂ cartridges!).

No loose items are allowed on the car.

Race Start

Cars powered by propulsion mechanisms must be able to be held by the starting pin. Cars cannot be held or manually restrained while in the starting position.

Priming must be simple and quick—No reloading, disassembly/reassembly is allowed.

Questions

Contact us at info@amug.com.