

# Brielle Recreation Coaster Derby

## ~SPECIFICATIONS~

**WHEELS:** Wheels must be approved by Brielle Parks and Recreation. Four (4) each, 10x1.75 semi-pneumatic tire. Tires may NOT be "feathered" and NO specially machined or precision-made parts or bearings may be used, other than the kind originally furnished. Wheels shall not be balanced or altered in any way.

**AXLES:** Axles shall be standard width metal rod, {33"-36"} x ½" diameter. Axles shall be imbedded in a piece of wood between {28 1/2" inches - 30"} long and a minimum of 2" x 4" in size. No live axels

**STEERING:** A steering wheel must be used, of 180 degrees or better, held with at least two (2) bolts. Padding must be used to cover the center nuts in steering wheels. If made of wood, it must be at least ½ - inch thick. Steering cables must be of flexible type, securely fastened to the front axle and have two (2) or more turnbuckles. All turnbuckles must be safely wired to prevent unscrewing and the steering assembly must be accessible for inspection.

**BRAKES:** All cars shall have drag-type brakes. All cars constructed after 7/1/2006 must be equipped with pedal brakes. Hand brakes on cars constructed before that date may be allowed pending inspection and approval by the race committee, but those hand brakes must be operated from inside the car. Brake must hold the car in a straight line when applied. Brake shoe shall be covered with rubber (such as a tire tread or hockey puck) at least three inches (3") in diameter or 3" x 3" square. Wheel drag brakes must hold two (2) wheels and the brake cable shall be enclosed in tubing.

**DIMENSIONS:** Length may not exceed over eighty inches (80"). Width may not exceed over thirty-six inch (36"). Cars must have a road clearance of at least three inches (3") with the driver in the car. Front wheels no more than six inches (6") behind the nose of the car (clearance for ramp).

**WEIGHT:** Combined weight of car AND driver not to exceed 225 pounds.

**CONSTRUCTION:** The frame of the chassis can be made of wood or metal and may be reinforced with metal braces or diagonal struts at the corners. The body of the car must not confine the driver's head, and it must be wide enough to permit the driver to raise his/her hands to adjust helmet while driving. No closed compartments allowed in car. Wood, metal, fiber board, fiber glass, or any combination may be used as a body covering. Composite materials may be used, but they must receive prior approval from the Derby Committee. The car must contain a completely enclosed chassis so that no part of the driver's legs or feet can come in contact with the ground. No glass will be permitted to be used anywhere on the car. Suspension of the body of the car from the axle mounting is optional. No sharp or jagged objects such as nails, bolts, screws, etc. shall be permitted to protrude from any part of the car.

**DRIVERS:** Only the person entered and registered as the eligible operator shall occupy the racer during the entire race.

**SAFETY STEERING BLOCK:** All cars will be equipped with safety steering block or chain, fastened to the underside of the chassis and so placed that the steering is limited to two (2) inches in either direction from center line of axle, at axle end.

**NUMBER:** Number assigned to each driver must appear on the front and back of the car in at least three inch (3") block numbers.

**INSPECTION:** All cars must be completed in time to participate in practice and for safety inspections the day before the race. An inspection sticker will be affixed to each car to indicate compliance with safety specifications, and only cars with this sticker can race on derby day. Any car that fails inspection the day before the race will be afforded the opportunity to have a re-inspection the day of the race, if the deficiencies have been corrected. All cars are subject to be re-inspected the day of the race, and ALL cars eligible for the Championship run-offs WILL be re-inspected prior to the run-off race.