



PORTARAMA FAMILY FESTIVAL

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Soapbox Derby Car Specifications March 15, 2017

- 1) Soapbox Derby cars are powered by gravity only – no engines or motors.
- 2) The driver must sit in the car, facing forward and control the car using only hands and feet.
- 3) The car must fit the driver. Drivers must be able to get in and out of the car without stretching or straining.
- 4) Maximum overall cart length 72"
- 5) Minimum wheel base (distance between front and rear axle) 48"
- 6) Maximum wheel base 56"
- 7) Minimum ground clearance with driver in cart 3"
- 8) Axle width between wheels must be between 30" and no more than 44"
- 9) Front and rear axles must be the same width.
- 10) Measures must be taken to prevent wheels from falling off the cart using lock nuts, cotter pins, wire tying or other means.
- 11) Cart must have four wheels with a minimum diameter of 5". Tires can be solid or pneumatic made of rubber or a rubber compound to better grip the road. No plastic tires are allowed.
- 12) Steering stops must be installed that will prevent the wheels from hitting the cart body when steering.
- 13) Cart must be equipped with a functioning brake that can stop the cart – hand or foot controlled. Cart operator cannot use their own foot or feet on the pavement to stop their cart. Brake must be capable of slowing the car to a smooth, short and safe stop.
- 14) Plywood and hardwood are permitted structural materials. The basic structure is defined as the chassis on which the driver sits and to which the axles, steering and brake mechanisms, and body shell are attached.
- 15) All basic structures must be securely fastened to each other using bolts, screws or other suitable fasteners.
- 16) Cable links used in steering and brake systems must be secured and not slip under stress.
- 17) Adjusting hardware such as turnbuckles must be lock wired in the final adjusting position.
- 18) There shall be no exposed sharp edges or points.
- 19) Carts must be equipped with a seat belt for the driver.
- 20) Paint schemes will be left to the cart builder's imagination. No scheme considered vulgar or disrespectful by the committee will be allowed. If you are not sure about your design, then please check with the committee first.
- 21) Numbers for the carts will be issued by the committee. Do not paint numbers on your carts.
- 22) Carts will be inspected prior to each race to ensure they are deemed safe for racing. Ruling by the inspectors shall not be challenged.
- 23) Specifications subject to change without notice. Updates will be posted to our Facebook page.

BE CREATIVE IN YOUR DESIGN



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