

# WALL POLICE COASTER DERBY

## *~SPECIFICATIONS~*

**WHEELS:** Wheels must be those approved by the Wall Township Police coaster Derby Committee. 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” inches long and a minimum of 2” x 4” in size.

**STEERING:** A steering wheel must be used, which is large enough for the driver to secure both hands on the “wheel.” The steering wheel must be securely attached to the steering shaft. Padding must be used to cover center nuts, bolts, and/or the center of the steering wheel. If the steering wheel is made of wood, it must be at least ½” thick. Steering cables must be of flexible type, securely fastened to the front axletree and having two (2) or more turnbuckles. All turnbuckles must be safely wired to prevent unscrewing and all “S” hooks must be clamped into a closed position. The steering assembly must be accessible for inspection.

**BRAKES:** All cars shall have drag type brakes. Pedal brakes are recommended. The Coaster Derby Committee may approve the use of an interior mounted hand brake system. If an interior mounted hand brake system is used, the operation of the hand brake can’t interfere with the driver’s ability to safely steer the car.

Brake systems must hold the car in a straight line when applied. The brake shoe shall be covered with rubber (such as a tire tread or a hockey puck) at least three inches (3”) in diameter or 3” x 3” square. Wheel drag brakes must hold two (2) wheels simultaneously, and the brake cable shall be enclosed in copper tubing.

**DIMENSIONS:** Length not to exceed over eighty inches (80”). Width not to exceed over thirty -six inches (36”). Cars must have a road clearance of at least three inches (3”) with 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 are allowed in the car. Wood, metal, fiberboard, fiberglass, or any combination may be used as a body covering. Composite materials may be used, but they must receive prior approval from the Coaster 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:** Cars constructed in such a manner that the front axle could turn more than two (2”) inches in either direction from the centerline of the axle to the axle end, must be equipped with a safety steering block or chain. The safety steering block or chain must be fastened to the underside of the chassis.

**NUMBER:** Driver’s can select their own number. The number must be at least three (3”) inches high, and the numbers must be displayed in at least two (2) locations (front and rear) on the car.

**INSPECTION:** All cars must be completed in time to be inspected on the day before the race. After the car passes inspection, the driver will complete at least two (2) practice runs on the hill. 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. Cars that fail inspection may be repaired on site. If the car can't be repaired prior to the end of the inspection/ practice session, the driver may return on derby day, and the Coaster Derby Committee will re-inspect the car. If the car passes inspection at that time, the driver will get two (2) practice runs on the hill, prior to the start of the race. All cars are subject to be re-inspected the day of the race. The Coaster Derby Committee may re-inspect the cars eligible for the Championship run-offs before and after the run-off races.