



THE HUNTER SOAP BOX DERBY 2019

Cart Building Specifications

SOAP BOX CART DIMENSIONS AND SPECIFICATIONS (FOR ALL CATEGORIES)

- These cart specifications must be adhered to.
- All carts will be checked for compliance 29 June 2019 at PCYC Muswellbrook car park, 7am – 9am (unless completed earlier). Scrutineer will provide feedback on adjustments required if specifications are not to race standard.
- Any safety requirements not met will need to be rectified prior to race or may be unable to race on the day.
- After passing scrutineering inspection, no entrant will modify or make changes without scrutineer's permission.

Basics

- Carts to be home / workshop made and constructed of either wood or steel and to be of sound construction with two wheels at the front & two wheels at the rear (i.e. in the interest of fun, connection and fairness, carts should be made by the race entrants, not purchased from a cart supplier).
- No attachments or devices which aid propulsion or starting will be permitted.
- Weight of cart will not exceed 60kg (not including driver)

Brakes

- All carts are to have non-motorised brakes
- Each cart shall have a braking system fitted to it and to be in operational order.
- The braking system is to be operated by foot or bicycle style hand brake attached to the steering wheel.
- The brake pedal must have a large pedal surface (similar in size to a car brake pedal).
- The brakes must be able to lock up all rear wheels when applied on bitumen.

Steering

- Steering mechanism to be installed (this can be rope or steering wheel).
- Steering wheels must not have sharp protrusions & are not to be made of wood construction.
- When a basic pivoting front axle with rope steering is used, the axle swing movement is to be restricted to 100mm "lock to lock" to reduce unintentional major change of direction.
- Tiller steering not permitted.

Wheels

- Must have minimum of 4 wheels.
- Wheel size to be no greater in diameter than 400mm including tyre +/- 5% tolerance.
- Pneumatic tyres permitted.
- Ball raced wheels also permitted.
- Wheels are not to have any sharp protrusions. If wheels are spoked, spokes must be covered.

Body

- Windscreens, enclosed bodywork etc. will be permitted but must not contain glass.
- The cart must have a tow point front and back and strong enough to tow 6 carts.

Axle

- Front and rear axles to be of steel construction and wheels must be fastened securely to the axle by any method other than a nail or wire.
- Wheel track (i.e. length of axle) will be a minimum of 700mm in size
- Wheel base (i.e. measure from front wheel centre to rear wheel centre) to be no less than 900mm.
- Maximum overall length of entire cart not to exceed 2000mm seating
- Seating position to be upright position facing forward and feet first and no greater than 45° leaning back. Foot rest to be separate in addition to front axle in the case of open construction carts.