

# Gresford Billy Cart Derby Billy Cart Specifications 2020

## Section 1

<b>Basics</b>	<ul style="list-style-type: none"> <li>Billy Carts to be homemade &amp; constructed of either wood or steel &amp; to be of sound construction with two wheels at the front &amp; two wheels at the rear</li> <li>Non-motorised</li> </ul>
<b>Brakes</b>	<ul style="list-style-type: none"> <li>Each cart shall have a braking system fitted to it &amp; to be in operational order. The braking system is to be operated by foot or bicycle style hand brake attached to 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 both wheels on the one axle when applied on bitumen. A cart that cannot stop before the safety bales at the end of the run may be disqualified. Brakes will be closely scrutineered for efficiency.</li> </ul>
<b>Steering</b>	<ul style="list-style-type: none"> <li>Steering mechanism to be installed (this can be rope or steering wheel). Steering wheels must not have sharp protrusions &amp; 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.</li> </ul>
<b>Wheels</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Body</b>	<ul style="list-style-type: none"> <li>Windscreens, enclosed bodywork etc will be permitted but must not contain glass.</li> <li>The cart must have a tow point front and back and strong enough to tow 6 carts.</li> </ul>
<b>Axle</b>	<ul style="list-style-type: none"> <li>Front &amp; rear axles to be of steel construction &amp; wheels must be fastened securely to the axle by any method other than a nail or wire. Wheel track (ie length of axle) will be a minimum of 700mm. Stub axles are not permitted unless welded to the frame or is a component of the steering system. All axles must a solid bar running the width of the cart</li> </ul>
<b>Size</b>	<ul style="list-style-type: none"> <li>Wheel base (ie 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</li> </ul>
<b>Seating</b>	<ul style="list-style-type: none"> <li>Seating position to be upright position facing forward &amp; 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 Billy Carts</li> </ul>
<b>Attachment</b>	<ul style="list-style-type: none"> <li>No attachments or devices which aid propulsion or starting will be permitted.</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>Total stand alone weight of the Billy Cart will not exceed 60kg.</li> </ul>

## Inspection

### Section 2

<b>Reporting</b>	<ul style="list-style-type: none"> <li>Each Billy cart &amp; their drivers will be required to be inspected by the inspection committee on the day of racing &amp; must pass inspection before being allowed to race</li> </ul>
<b>Changes</b>	<ul style="list-style-type: none"> <li>After passing inspection, no entrant will modify or make changes without inspectors permission</li> </ul>
<b>Pit</b>	<ul style="list-style-type: none"> <li>All Billy Carts to be parked in Pit Area prior to inspection &amp; when not competing in their individual races. Billy Carts must not be removed from the Pit Area without the consent of the pit supervisor. Cart drop off area near the pits will be controlled to prevent cars and trailers blocking of this area and causing delays for other drivers.</li> </ul>

## **Officials**

The decision of race officials regarding the interpretation of these conditions of entry & rules will be final. Race officials include organising committee, inspection committee, pit officials, & race marshals. The committee reserves the right to refuse the entry & nomination of any person or Billy Cart without assigning any reason therefore

## **Disqualifications**

Officials will disqualify any Billy Cart or driver which in their opinion:

- a. Does not comply with Section 1 or Section 2 of these conditions of entry & rules
- b. May endanger the driver, other drivers or spectators on the day
- c. Shows poor sportsmanship or whose driving interferes with another driver
- d. Does not stay in their lane for the duration of the race.
- e. Fails to deliver adequate braking power to stop the cart before the hay bales

## **Race Procedures**

<b>Races</b>	<ol style="list-style-type: none"><li>a. Drivers will compete in age groups.—UNDER 16 YEARS HEATS COMMENCE AT 9am.</li><li>b. All races will be timed with only two Billy Carts competing at any one time.</li><li>c. The two fastest times in the age group will compete in a final to determine the age group winner.</li><li>d. All age group winners will compete at the end of the day in a Championship race for overall winner. These races will be timed with the fastest being the overall Champion.</li><li>e. There will be 4 heats in a row to improve efficiency and reduce road closure times.</li></ol>
<b>Start / Finish</b>	<ol style="list-style-type: none"><li>a. The foremost part of the Billy Cart will be immediately behind the start line.</li><li>b. The winner will be judged by the front wheels crossing the finish line.</li></ol>