



*Scottish
Cartie
Association*

SCA Speed Record Rules

Revision History

Version	Date	Notes
1.0	20 Sept 2013	First version
1.1	21 Mar 2014	Shortened speed trap to 50m and clarified the wording.



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1. INTRODUCTION

This document defines a specification of soapbox racer suitable for speed record attempts and a method for measuring the speed. The purpose is not to restrict the design of the vehicle in any way, except to provide a standard to build to which allows for fair comparison of records.

The person or persons carrying out the attempt must satisfy themselves that their vehicle and the venue they choose for the record attempt are fit for purpose. They are solely responsible for all risk management procedures.

2. THE VEHICLE

- A soapbox racer, also known as go-cart, cartie, guider, billy cart etc., is a single seat four wheeled vehicle powered by gravity alone.
- Weight: The vehicle and driver combined must not weigh more than 200Kg.
- Wheels: There must be four wheels located symmetrically about the centreline of the vehicle, as a matching front and rear pair. All wheels must be in load bearing contact with the road during normal operation.
- Brakes: the vehicle must have a safe means of stopping without any external assistance.
- Control: The vehicle must be steered and controlled by the driver alone.
- Integrity: No parts of the vehicle may be discarded after beginning motion.

3. THE ATTEMPT

- For the purposes of the record a soapbox cartie is as defined in section 2 above.
- Any length of run up is allowed.
- Any design is allowed so long as it is complying with the above definition.
- No external assistance or propulsion may be used. Push starts and drafting are not allowed. All motion must be provided solely by gravity.
- The vehicle must be controlled by the driver. Remote control is not permitted.
- Any length and gradient course can be used for the attempt. It is up to the persons making the attempt to choose the most suitable location.
- Only attempts after which the soapbox is brought to a controlled stop without any external assistance can be accepted.
- Speed must be measured using a 'speed trap' consisting of a system capable of accurately measuring the time taken to travel a fixed measured distance of not less than 50m. The distance must be accurately measured by a professional surveyor or a similarly qualified individual. The speed must be calculated from the time taken for the vehicle to travel the length of the speed trap.
- The attempt should take place in a public place or in a venue open to public inspection.
- All timing equipment must be sourced from and operated by suitably qualified professionals, who must submit a statement (on letterhead paper) after the event confirming the record speed and how it was measured. This statement must include information on the equipment used to time the speed. These instruments must be accurate to at least 1/1000th of a second.

4. DISCLAIMER

No expressed or implied warranty of safety shall result from publication of or compliance with this specification.

This specification is not a guarantee against injury or death to any participant, spectator or official.

Event organisers should satisfy themselves that this specification is appropriate for their needs.

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