

# HILL OF THRILLS SOAP BOX RACE



**ISLAND REC**  
San Juan Island Park and Recreation District

# Hill of Thrills Soap Box Race

## Car Crafting

Creative car construction is encouraged;  
the kits listed are not required for entry

### Kits:

Wheels and steering assemblies are available from Derby Go Kit <http://www.gokit.com>  
at ~\$100

Full kits available at American Soap Box Derby Association [www.soapboxderby.org](http://www.soapboxderby.org)  
~\$450 w/out wheels - Wheel sets \$120

+ Old bicycle forks work well as wheel assembly structures, which reduce the need for full length 'through axles'. Another similar idea is to use a piece of flat stock bent and cut to hold a wheel. It can then be attached to a structure, again without the need for a whole car 'through axle'.

## Car Videos for ideas

+ Visit Derby GoKits Facebook page for fun videos:

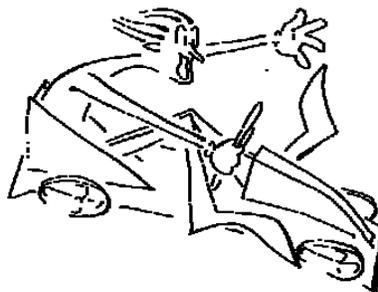
<https://www.facebook.com/GoKit-Soapbox-Racer-Kit-328632807322168/timeline/?ref=bookmarks>

<http://scottishcarties.org.uk/resources/construction>

<http://soapboxracing.co.uk/>

**DERBY\*GOKIT® includes:** tie rods and connecting rods steering shaft, guide & plate, crossmember and knuckles, wheels, bolts and brackets...

**DERBY\*GOKIT® Also includes three brake mechanism designs but they require some hinges and/or cables available at your local hardware store or/and old brake tread (not steel belted)**



<i>TOTAL price includes shipping by SURFACE mail</i>	<i>Canada</i>	<i>United States Expedited</i>	USA EXPRESS
<i>Organizers TOTAL price for a carton of SIX kits</i>	<i>\$Cdn419+5% GST=\$439.95</i>	<i>\$USD475</i>	\$USD529
<i>Individual TOTAL price for a single kit</i>	<i>\$Cdn99+5% GST=\$103.95</i>	<i>\$USD99</i>	\$USD129

**These "TOTAL" prices include shipping by mail to any PROVINCE in Canada or state in the continental USA including Puerto Rico and Hawaii.** According to the post office, "Normal" delivery time frame to a MAJOR city is:

Money order takes **7 work** (business) days to arrive payment).

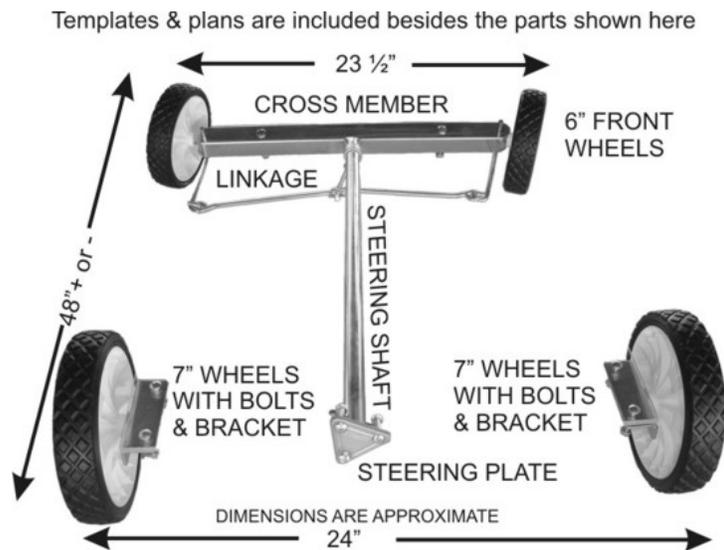
Kit transit time at least **10 work** (business) days to a major USA city by Expedited mail or 6 work days by Express Post.

Single cartons and single kits are mailed within 24 hours of receipt of a money order or for the appropriate amount.

USPS (United States Postal Service) letters to Canada need a 80¢ stamp.

\*Kits can be sent by Airmail. Single kit USA "TOTAL" price is \$USD129/kit (i.e. Send a check in the amount of \$USD129)

*Shipping by next day courier services are not used because, for example, to California Shipping alone is \$90+*



**DERBY\*GOKIT<sup>®</sup>** has been used across Canada for over 20 years. Standardization has encouraged inter-regional competition. Participants from one city can be invited to compete in events in other centers that use **DERBY\*GOKIT<sup>®</sup>** to standardize.

Please include **YOUR city/state/province & home phone number** when you send E-Mail. Click on the blue underlined [derby@mts.net](mailto:derby@mts.net) to send an Email->[derby@mts.net](mailto:derby@mts.net)  
 Phone Garry at (204) 888-3149  
 Fax (204) 831-0127

## **Hill of Thrills Soap Box Race**

### **Saturday, May 20 10-2:00**

#### Races:

Races will be run in heats. There will be two heats, a preliminary and a final. Each car/racer will race two times per heat with the top 5 racers of the preliminary heat (each age category) advancing to the finals heat. The two race times for each car will be combined to determine their total heat time and used to determine winner of the heats. A mechanical failure that stops or impedes a run can be rerun IF it is fixable within time frame of the same heats being run and is OK'ed by a race official.

#### Age Categories:

(5-8) (9-12) (13-15) (adult)

If there are five or less registrants per age category the preliminary heat will be the final's heat.

#### Awards:

Race Prizes awarded for top 4 finishers of each age category

Style Prize awarded for top 2 in each age category

**Island Rec reserves the right to change or alter rules and regulations**

#### Car Regulations:

NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS OF OR COMPLIANCE WITH THESE RULES

The regulations are intended as a guide for the conduct of the race and are in no way a guarantee against injury to a participant, spectator or official. Island Rec shall be empowered to permit minor deviation from any of the specifications herein or impose any further restrictions that, in their opinion, do not alter the minimum acceptable requirements.

- 1) All participants must wear a safely fitted approved helmet and wear fully covered shoes
- 2) All cars must have solid working brakes and pass a brake test!!!
- 3) All cars can only be powered by gravity. Any and all aids to propulsion (hampsters, bungie cords, releasing air bags, etc.) are prohibited, other than aerodynamic aids such as air foils.

- 4) Size requirements - Car must be less than 4' wide and 7' long.
- 5) Weight requirements - Car must be comfortably picked up by two wheels by average adult (approx. 100#'s)
- 6) There must be at least 2" of ground clearance
- 7) There must be less than 12" between front wheels and nose of the car, and less than 24" between rear wheel and end of car
- 8) Cars must have at least 3 wheels (4 wheels for 5-8 and 9-12 age categories)
- 9) Cars recommended to have steering stops to prevent less than a 10 degree range off of center (especially for younger categories), nor to be overly sensitive (i.e. small steering inputs produce large steering outcomes). 'Rope and plank' or 'foot on front axle' steering not allowed for ages 5-12 and not recommended for 13-adult.
- 10) It must not be possible for any part of the driver's body or clothing/accessories to become trapped in moving parts of the car (i.e. steering assembly, wheels, etc.)
- 11) Driver must be in a seated, forward position and have a clear forward and side to side vision (supine position OK)
- 12) Car must not have loose parts or sharp edges
- 13) Car must be safe, soundly made and robust enough to compete up to 4 races. It must not pose an unreasonable threat to the driver, event officials, members of the audience, any property in the vicinity or the environment. Those cars that don't meet this requirement are still eligible for the 'Style Award'
- 14) No smoke or fire is allowed as part of the construction of the car
- 15) Cars can be used by multiple different drivers. Driver must drive same car in the preliminary heat as in the finals heat.