

Welcome Race Fans

We will have 2 racing brackets - stock car and freestyle with 1st and 2nd place prizes for both brackets as well as a people's choice award. The race will be a double elimination bracketed race to the finish.

Stock Car - to enter the stock car category cars must have either 10 inch or 13 inch Pneumatic wheels from Harbor Freight. Racers can change out bearings or lubricant but wheels must come from Harbor Freight



Freestyle - can have any other wheels that are not 10 inch or 13 inch Harbor Freight wheels for example: official soapbox, bicycle or solid wheels.

Vehicle Specifications

	Minimum	Maximum
Track width (outside of tires)*	24 inches	40 inches
Vehicle height	3" ground clearance	60 inches
Seating surface height	(3" ground clearance)	14" above road surface
Total vehicle length	72 inches	96 inches
Wheelbase	48 inches	72 inches
Weight- car and driver can't weigh more than 350 lb combined.		

**Width of body cannot project beyond maximum width*

All weight must be bolted or otherwise securely attached. No loose ballast is permitted.

Cars may be made of any material. Any metal frame elements that extend beyond the wheels must be properly blunted with a cross bar to prevent piercing in the event of a crash. Sheet metal on the body is okay. Axles and components may be steel.

Cars will be towed up the road after each race, so a tow hook (eye bolt) should be provided for the tow strap. The hook must meet the clearance requirements outlined above.

Wheels

Cars must have 4 wheels where all 4 wheels have contact with the ground at all times.

Wheels must have some sort of locking arrangement on the nut such as a locknut or an additional nut.

Axles smaller than 1/2 in must be supported on both sides of the wheel.

Brakes

All vehicles must be equipped with brakes that contact the rear tires, or disk brakes. Brakes must be able to completely stop the tire. The driver must be able to steer while braking. Braking tests will be conducted at the inspection to ensure that they are adequate. Cars without adequate brakes will not be allowed to race. Hand brakes are discouraged. Consideration will be made for those with physical limitations.

Safety

All drivers must wear an approved helmet (DOT, Snell, etc.). Bicycle helmets are not allowed. Cars must have full floors and should have some body structure to prevent the driver from accidentally contacting the pavement. The vehicle must not have any sharp projections, loose parts or edges that might pose a safety hazard. All ballast must be securely fastened and cannot move, accidentally or with driver intervention, during the race. Anything inside the cockpit that could injure the driver in the event of a crash should be padded. Seat belts are not required. all racers must wear shoes that completely cover their feet.

Care should be taken to ensure that the center of gravity of the vehicle is as low as possible. Maximum height of the seating surface is 14" above the road surface.

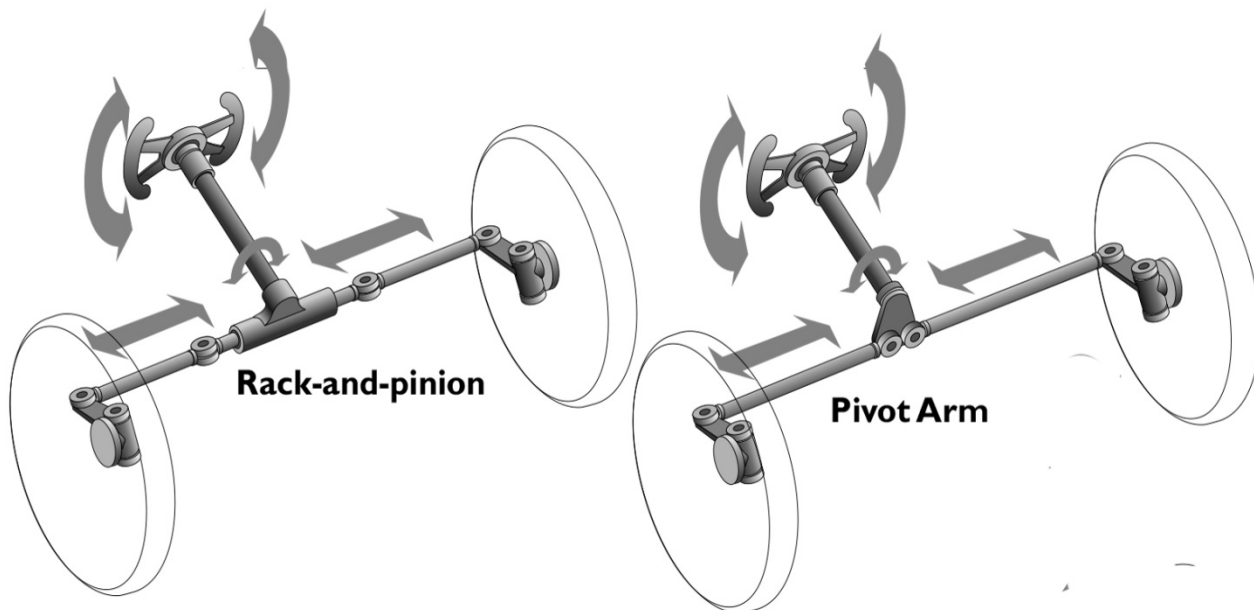
In order to maintain the safety of the event the race committee may impose additional requirements as conditions warrant.

Steering

Steering must be positively controlled. Driver must be able to steer with one hand. Pivot axle steering must have limiters that prevent the car from turning a radius tighter than 15 feet. Careful consideration should be given to the steering ratio (angle of steering wheel turn to angle of front wheel pivot) to ensure that the steering is not too sensitive.

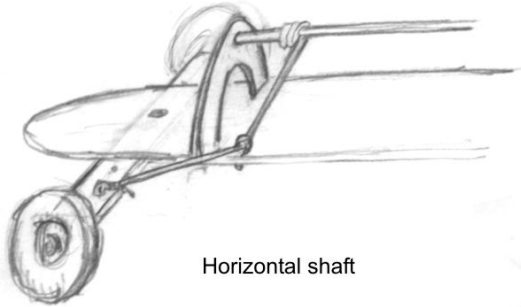
Attachment points for cabal wind steering must be positively secured along the axis of force of the cable. Screw in eyebolts will only be permitted into solid wood—not laminate or pressed wood.

No rope pull steering is allowed. Foot steering is not allowed. Cable wind steering (a cable is wrapped around a cylinder that pulls on the axle as the shaft is turned) rack and pinion or pivot arm are recommended as an easy way to positively steer. **NO Tiller steering is allowed.**

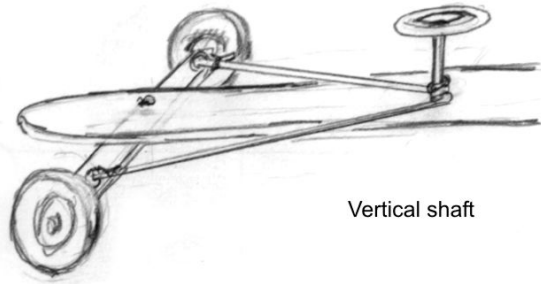


Soap Box Derby Steering Systems

Cable Wind Steering (recommended)

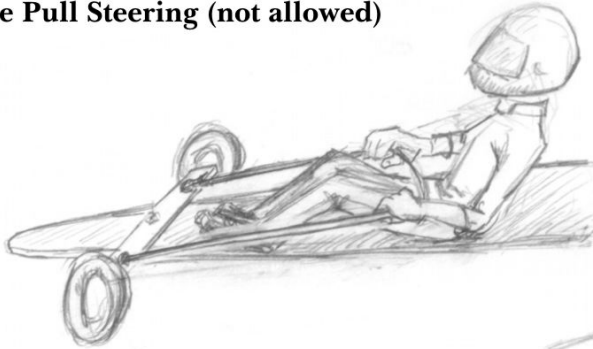


Horizontal shaft

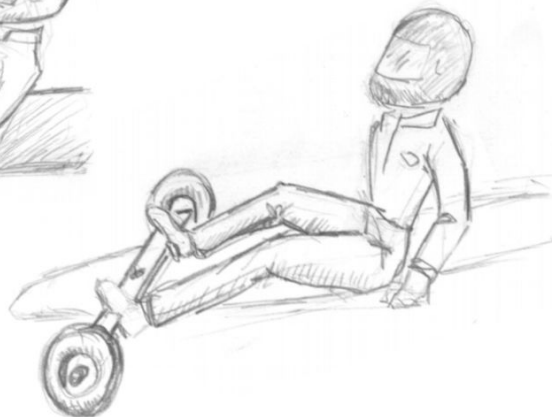


Vertical shaft

Rope Pull Steering (not allowed)



Foot Steering (not allowed)



Eligibility and Registration

The 2018 American Fork City Gravity Soap Box Derby will start Thursday July 19th, 2018, at 6:00 pm. All racers need to be at the race site no later than 5:00 pm on race day. All racers must be 11 years of age or older on the day of the race. The race is open to everyone, regardless of gender. Non-residents of American Fork City are welcome to participate. Sponsors are allowed and company names, logos, etc. may be displayed on the cars.

Registration and payment is through a link on the Steel Days website under Soap Box Derby. Registration fee is \$15 per car. Every car must have a name given upon registering.

Group Registration

Registration fee is \$15 per car. Groups will register and pay online. A single car may have multiple drivers, each driver must be listed on the registration form for that car. (in the case of multiple children in one family, or a scout troop for example) for cars with multiple driver's the weight requirement of 350 lbs is the car and the heaviest driver (All ballast must be bolted or otherwise securely fastened.) which driver drives at which race is to be figured out by the drivers.

Inspections

A preliminary inspection will be held 5:00 pm on the day of the race at the race site. Nobody will be allowed to race without a inspection

No one will be allowed to race with a helmet that is not Snell or DOT approved.

As issues arise that are not specifically addressed in the rules the racing committee will pass judgment to maintain the spirit of the rules. If you have a question about whether something is appropriate, *ask*. A phone call now could prevent a disqualification at inspection time. As clarifications are made they will be applied universally to all participants.

For questions or concerns please contact John Bass through the link on the Steel Days Soap Box Derby page or call 801-857-1024 if no answer please leave a message.

Soap Box Derby Registration Form

Car owner _____ Preferred Car Name* _____

Phone _____ e-mail _____

Drivers

Please list below the name of each driver. All racers must be 11 years of age or older on the day of the race, Entry fee is \$15 per car. All vehicles must pass a inspection before the race.

Waiver and Release of Liability

Through registering and paying for the Steel Day's Soap Box Derby ("Derby"), Buyer acknowledges that he/she is the legal guardian of the registered participant.

In consideration of American Fork City accepting the registered participant's Derby entry, the registered participant and his/her legal guardian if Participant is under the age of 18 (collectively referred to as "Participant") agree to the following: (1) Participant is aware of and understands the inherent risks, hazards, and dangers associated with the Derby, which may include death or injury, and, nevertheless, elects, voluntarily, to enter the event; (2) Participant hereby promises that the state of the registered participant's physical health is sufficiently sound to permit him/her to safely participate in the Derby; (3) Participant is not aware of any health related reasons or problems that would preclude or restrict the registered participant's ability to take part in the Derby; (4) Participant consents to the registered participant receiving any medical attention which may be deemed advisable in the event of an injury, accident, and/or illness during participation in the Derby. Participant understands that all medical costs for the registered participant will be borne by Participant.

Participant hereby releases, waives, discharges and covenants not to sue American Fork City, its board and officers, agents, affiliates, employees and volunteers from all liability, claims, demands, actions or causes of action whatsoever arising out of or related to loss, damage, or injury (including death) which may result from participation in the Derby.

Participant hereby acknowledges and agrees to indemnify, save, and hold harmless American Fork City, its board and officers, agents, affiliates, employees and volunteers from any loss, liability, damage, or cost they may incur due to the registered participant competing, officiating, observing, or working for or for any purpose participating in the Derby

Driver's Name

Age

Guardian's Signature

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____