

29TH Annual Hub City Classic
Car & Motorcycle Show

SOAP BOX RACE

August 24, 2019 at 1:00 pm

Downtown Limon, CO



\$100 Grand Prize

Sponsored by RAAZ Roofing & Construction, LLC

(Must bring your own car to be eligible for grand prize)

*Award plaques for 1st & 2nd place in each age group.
Age groups 5-8, 9-12, 13-18

*Preregister at the Limon Library or before 12:00 pm on August 24th.

*Build and bring your own car or a couple will be available to borrow.

(See reverse side for rules)

SOAPBOX DERBY RULES AND REGULATIONS

There are seven basic requirements for derby cars and participants:

1. Gotta Go!!!

Each derby car must be gravity powered. No motors or engines.

2. Gotta Turn!!!

a. Simple pivot steering is the most basic and common steering system. Basically, the front axle is a solid piece that rotates about a single pivot in the center. This system is the most simple to construct and is quite adequate since you will not need a big turning radius.

b. Four bar linkage is like a steering mechanism that you might find in your automobile. It is more complex and harder to construct and thus it is seldom recommended. The derby will be run on a straight course so that there will be little need for sharp turns.

c. All steering must function properly. If steering wheel is turned to the left, car must turn to the left and if steering wheel is turned to the right, car must turn to the right.

3. Gotta Stop!!!

a. Skid pad on the wheels is a very basic, yet very effective braking method. In this method, you set up a pad or brake shoe that rubs against the wheels to stop the car. This is the most preferred method for cars made from scratch because of its effectiveness and simplicity.

b. A skid pad on the ground is similar to the first option, but instead of a pad contacting the wheels, it contacts the ground. This method is a little more complex to construct and probably less effective than the pad on the wheels method. However, this is the method that was first used in soapbox racers.

c. Caliper brakes on the wheels are like your basic bicycle brakes. This method works great although the construction needs to be fairly concise for the brakes to be effective.

Regardless of the braking system that you choose the most important thing is that the car must be able to stop. Good brakes will go a long way in preventing crashes.

4. Gotta be the right size!!!

Cars can be no longer than 72 inches long and no wider than 32 inches. There is no limitation on materials or designs. When using wood it is suggested that you use screws rather than nails and be sure to use plenty of wood glue. And the child **MUST** be able to fit properly in the car and operate the steering and brakes!

5. Gotta wear a Helmet!!!

Helmets are a must! Please do not alter helmets in any way that would change their effectiveness. Cars will not be allowed on the track unless the driver is wearing a helmet. Elbow pads are also strongly encouraged.

6. Gotta have all parts attached!!!

Car cannot have any loose parts or pieces that may fall off during race. Everything must be securely attached.

7. Gotta have Permission!!!

Each participant must have an entry form/release completed before the race. All participants must be between the ages of 5 and 18 years of age and must have a permission slip signed by their parent or guardian in order to race. The entry form/release must be turned in at the Chamber of Commerce booth on Saturday, August 24th in front of the library or drop it off prior to race day at the Limon Memorial Library. **Entry forms/release must be signed and turned in BEFORE 12:00 pm on August 24th. Again, please note that entry forms/release must be signed in order to race. Visit www.limonchamber.org for preregistration forms.**