

2022 MT International Scout Expo & Council Pinewood Derby

MONTANA COUNCIL PINEWOOD DERBY RULES

“Cub Scout Class”

These will be the “only” rules. Do not use any other rules found anywhere, as they will not apply. It is recommended that these rules be handed out when the Cub Scouts get their cars.

It is important to understand that your car must meet these basic requirements to be eligible to race in the competition; failure to do so may result in disqualification. Each car must be submitted for a Pinewood Derby Inspection before the appropriate deadline to be eligible to race. The inspection will determine if your car complies with the following regulations and the Cub Scout will be informed before the race if there are any circumstances that would prevent the car from racing. An opportunity will be provided for the care to be modified to be in compliance. Thank you for participation and we look forward to a great event!

The Pinewood Derby is open to all Cub Scouts! This activity allows each Cub Scout the build a Pinewood Derby Car each year with assistance and guidance of an adult. The scout pinewood derby care is an opportunity for scouts to learn and work together with their parent or scout partners. The scout usually will come up with the design and how he wants it to look. Nobody expects newer or younger scouts to create these thigs on their worn especially on their first or second car. The more experienced the cub scout the less parents should be a part of the build. All adult leaders and relatives of the Cub Scout are encouraged to build a car of their own and enter in the “Open Class” category if they want to participate. The “Open Class” has its own separate set of rules.

Dimensional Requirements:

- **Weight**-The car weight shall not exceed 5.0 ounces. The official race scale shall be considered final.
- **Length**-The overall length of the car shall not exceed 7 inches.
- **Width**-The overall width of the car shall not exceed 2 ¾ inches.
- **Height**-The overall height of the car, after installing the wheels, shall not exceed 5”
- **Wheel Spacing**-The car must have 1 ¾” clearance between the wheels.
- **Car Body Clearance**-The car must have 3/8” clearance underneath the body. If the clearance is less the 3/8”, the bottom will drag on the furring strips on the track.

Construction Rules:

- The wood provided in the kit (Official Grand Prix Pinewood Derby Kit) must be used. The block may be shaped in any way that is desired.
- The wheels supplied with the kit or the colored official BSA wheels must be used. The wheels may not be cut, drilled, beveled or rounded. You may remove the seam from the wheels, but the molding bumps on the outside edges must remain. No graphite coated wheels may be used.

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- The axles (nails) supplied with the kit must be used. They may be polished and dry lubricated.
- Wheel bearings, washers or bushings are prohibited.
- The car must not ride on any type of springs.
- The axles must be positioned so that the axles of the front wheel pair are in the same horizontal and vertical plane (the pre-cut slots already provide on each block), and that the rear wheel pair should be also be in their same respective x and y plane.
No altering of the pre-cut slot will be allowed. Moreover, axles should not be deliberately bent at an angle or bent to obtain an advantage. **All four wheels must make contact with a flat surface when the car is at rest.**
- NO Axle covering may be used. The axles must be visible.
- The car must be freewheeling, with no starting devices.
- No loose material of any kind, such as lead shot, may be used.
- Only dry lubricants such as graphite or powdered Teflon "white lube" will be allowed for lubricating the wheels. Lubricants may not foul the track.
- Lubrication should be completed prior to checking cars in for inspection. No lubrication will be completed on race day.
- Details such as the steering wheel, driver, decals, painting, and interior detail are permissible as long as these details do not exceed the maximum length, width, and weight specifications.
- No derby cars built in previous years will be permitted in this years' Pinewood Derby. In the event that a car is determined to have been used in previous year's race it will be disqualified.

Remember have fun and be creative. We say "car", but it does not have to have the shape of a car if you don't want it to!!

