



PIEDMONT COUNCIL PINWOOD DERBY RULES UPDATED JANUARY 2024



Entries for the District Pinewood Derby races shall be determined by the district. Please refer to your District's Pinewood Derby Committee on registration specifics. **All participants, parents and spectators will be expected to display sportsmanship throughout the event.**

Entry should be constructed from an up-to-date B.S.A. Pinewood Derby Car Kit for the current year. A new car must be built for each year. All nine pieces must be used. (Wood block, 4 nails & 4 wheels) Only official BSA purchased replacement parts are allowed.

- **Overall Dimensions:**

- **Wheels** - Any wheel base is permitted, unless specifically stated by your District Pinewood Derby Committee.
- **Height** - Not to exceed 5 inches in height.
- **Length** - Not to exceed 7 inches in length.
- **Width** - Not to exceed 2.75 inches in width.
- **Weight** - Not to exceed 141.75 grams in weight. Weight must be securely fixed to the car, that is non-movable. Race scales at the event are official.
- **Other Important Physical Characteristics:**
 - The front of the body must make contact with the starting post. No body shape is permissible to allow a start advantage.
 - The car must have four (4) wheels. These wheels CANNOT protrude past the front of the body.
 - The car must be free-wheeling, with no starting devices.
 - Additional materials may be added, but must comply with the rules. No loose materials.
 - No jet propulsion, CO2, motors, spring assisted, or "sticky nose" will be permitted. Must be a gravity race only.

- **Wheels & Axles:**

- Wheels and axles MUST be the ones furnished in the BSA car kit, solid axles are not permitted.
- Replacement wheels and axles must be purchased from an official Scout Distributor. BSA Logo must remain as is on both the inside and outside of the wheels.
- Wheels may be lathed, polished, and/or sanded to the true tread surface.
- NO bushings, bearings, washers, or other materials will be permitted.
- Minimum thread width of 7.5mm. NO "skinny wheels" or "disk wheels" permitted
- Axles MUST have a minimum diameter of 0.084
- NO solid axles permitted.

- **Lubricant:**

- Axles may be polished and lubricated (GRAPHITE ONLY)

- **Other Information:**

- It is accepted that unit and district winners can be determined in double elimination fashion. One loss is determined by an entry losing on both sides of the track. In the case of a dead heat (that is, one car wins on one side and one on the other or the judges are unable to determine a winner), the same two cars will race each other again, switching lanes as the first time. Should a second dead heat occur, the same two cars will have a third heat. If no winner is determined in the third heat, then the cars will be rematched with other cars, unless it is the last race in a group in which case racing will have to continue until a winner is determined. **Timed races are also permitted and will be the method used at the Council PWD Event.**
- After an entry has been officially weighed in and registered, a small sticker with a number will be placed on the car. From this point on NO ADDITIONAL WORK OR REPAIRS WILL BE PERMITTED WITHOUT THE CONSENT OF THE INSPECTION COMMITTEE. (This includes lubrication, loose wheels and axles, etc.) Cars discovered to be in violation of race rules during the race event are subject to disqualification.
- No car will be allowed to enter unless the Cub Scout owning the car is present at the race unless otherwise stated by the District Pinewood Derby Committee.
- A Cub Scout will be allowed to place their car on the track unless otherwise stated by the District Pinewood Derby Committee.
- Most races will use a electronic timer during heats to ensure fair calling of the finishes, BUT in the event that a timer is unavailable then multiple line judges will be used and their collective decisions made of the finish are final.