

ARROHATTOC DISTRICT

Pinewood Derby Rules - 2010

Purpose

The purpose of these rules is ensure a fair and, in turn, fun race for all participants.

Participation

1. The Scout's participation, including designing, construction and decorating the car, should be substantial in relation to any assistance received during any and all phases of the Pinewood Derby.
2. Parent/Guardian supervision, instruction and guidance are encouraged during any and all phases of the construction of the Scout's pinewood derby car.

Vehicle Kit, Parts and Construction

1. The body, all wheels and all axels must be from a current and official B.S.A. Pinewood Derby Kit or from an official B.S.A. Pinewood Derby Parts or accessories kit.
2. A similar car kit from any other organization is not an official B.S.A. Pinewood Derby Kit and therefore, any and all parts from such a kit are prohibited.
3. The use of pre-cut kits, similar to those currently found in craft stores and on the internet, removes an important element of the Scout's participation in building the Scout's car and therefore, any and all parts from such a kit are prohibited.
4. The car must be newly built for the current Cub Scouting year.
5. Construction of any entry must have begun AFTER the previous Arrohattoc District Pinewood Derby race.
6. The car body may have no moving parts. Naturally, this does not apply to the wheels.
7. All parts of the car or additions to the car shall be securely fastened to the car.
8. Any parts that are not securely fastened to the car shall be removed before the car is allowed to be registered for the race and may not be replaced until the car has completed racing.
9. If the front of the car is designed to gain an unfair advantage at the start or interferes with a fair start, the car will be disqualified. Example: Center of leading edge cut out is prohibited. [::<

10. The motion of the car may not be mechanically aided (motor, springs, rubber bands, etc. are prohibited).

Vehicle Dimensions

1. Weight - The total weight of the car may not exceed 5.00 ounces.
2. Length - The maximum length of the car may not exceed 7.0 inches.
3. Width - The maximum overall width (including wheels and axles) may not exceed 2-3/4".
4. Height - The maximum height may not exceed 2-3/4".
5. Wheel base width - The minimum wheel base width shall be a minimum of 1-3/4" so the car will clear the guide strip in the center of the track.
6. Vehicle Clearance - The minimum clearance between the bottom of the car and the track must be at least 3/8" so the car will clear the guide strip in the center of the track.
7. 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.

Wheels

1. The wheels of the car must be from the official B.S.A. Pinewood Derby Kit or an official B.S.A. Pinewood Derby wheel replacement kit.
2. Each of the four wheels must have the "B.S.A. Pinewood Derby" logo on its side wall and inside the wheel itself.
3. The official wheel width is 0.34".
4. Wheels may not be altered in any way other than specified in these rules.
5. Wheels may not be designed to ride upon the guide strip of the track.
6. Mold projection defects on wheel treads may be removed by lightly sanding the mold projection site only.
7. The wheels may not be sanded, heated, rounded, etc. to enhance performance.
8. The decorative dots on the wheel treads may not be removed.
9. IF WHEEL SANDING IS DETECTED THE CAR WILL BE DISQUALIFIED.
10. Weight in any form added to the wheels is not allowed.
11. The use of bearings, washers, or spacers is prohibited as part of the wheel assembly.
12. Substances applied to the wheels other than an approved lubricant (see Lubrication) is prohibited. Example: applying any paint or clear coat substance to any part of the wheel is prohibited.

Axels

1. The axles of the car must be from the official B.S.A. Pinewood Derby Kit or an official B.S.A. Pinewood Derby wheel replacement kit. ANY CAR THAT USES AXELS OTHER THAN THOSE SUPPLIED WILL AUTOMATICALLY BE DISQUALIFIED!

2. A set of official B.S.A. axels consists of four (4) pieces shaped like nails.
3. The axles must be visible to registrars and judges as to insure that the axles being used are the ones that have been supplied in the official B.S.A. Pinewood Derby kit. Axels covered by wood, or not visible, must be removable upon request.
4. Axles must be firmly attached to the car.
5. Axles may be polished.
6. Axles may be lubricated with approved lubricants (see Lubrication).
7. The use of a flexible suspension system of any type is prohibited.
8. The use of a single part axle (i.e. two wheels attached to a single rod) such as those found in wooden car kits from craft stores or from other organizations is prohibited.

Lubrication

1. Only dry lubricants such graphite powder, powdered Teflon "white lube" or the B.S.A. brand white lube T102/polytetra fluoroethylene may be used to lubricate wheels. (Warning - other lubricants may damage the plastic wheels and keep them from turning freely.)
2. The District Pinewood Derby committee will NOT provide graphite powder lubricants.
3. Lubricant must be applied outside of registration line.
4. Once the car is impounded, it may NOT be re-lubricated.
5. Once the car has been registered and impounded by the inspection team, no additional lubrication will be allowed.
6. Liquid lubricants of any kind are not allowed and will be cause for immediate disqualification. Liquid lubricants may foul the track and affect the outcome of subsequent races.

Entrants

1. Only 2 entries from each Rank/Level (Tigers, Wolves, Bears, Webelos I, and Webelos II) per Pack will compete in the Arrohattoc District 28 Pinewood Derby.
2. IF A UNIT HAS MORE THEN ONE DEN PER LEVEL it is that unit's responsibility to have a run off within those dens until they have only one 1st and one 2nd place winner in each level
3. Arrohattoc District Pinewood Derby entries MUST be the same car that competed and won at the Pack Level.
4. Each participant is allowed to register only one car in the District Pinewood Derby race.
5. Once a car has been registered, inspected, measured, weighed, and certified, the car will remain in the control of the race committee until the end of the competition. The participant or anyone acting on his behalf will not be allowed to touch, handle or modify the car once it has been accepted by the race committee.

The Race

1. The Race Committee Chairperson may disqualify any car that is determined to be out of compliance with the spirit of the Arrohattoc District 28 Pinewood Derby race.
2. If, during a race, any component of a car falls off, with the exception of a wheel, the component will not be allowed to be re-attached for additional heats.
3. If, during a race, a wheel of a car falls off, the wheel will be re-attached with the simplest method possible by a race judge or other race official. No adhesives will be used to re-attach a lost wheel for the duration of the race.
4. If, during a race, a car leaves it's lane without crossing the finish line and without interfering with other cars on the track, it shall be considered to have successfully completed and ended its heat at the point of having left it's lane.
5. If, during a race, a car leaves its lane and, in so doing, interferes with another car, then the car at fault shall be declared to have lost that race heat. At the race chairman's discretion, the heat may be re-run and without the offending car.
6. If a car leaves its lane, a designated race official may inspect the track. If a track fault is found to have caused any car to leave its lane, then the race chairman may order the heat to be rerun after the track is repaired.
7. If, during a race, no car reaches the finish line on the track and there appears to be no track faults or car faults, the car which went the farthest in its lane shall be declared the heat winner and the heat to have been completed.
8. In the event of a protest, a decision will be made by the Derby Chairman at that time. ALL DECISIONS ARE FINAL.