



OFFICIAL

2018 PINEWOOD DERBY

RULES AND PROCEDURES

Pack 229
Lone Star District,
Circle Ten Council
Boy Scouts of America

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1 Sportsmanship and Participation

This project is intended to be a parent and son event, and is recommended as such by the National Boy Scouts of America organization. The Pinewood Derby Committee **STRONGLY SUGGESTS** that each parent emphasize this idea with their son. We require that the scout cars be built this year and qualified for this race at the scout’s Pack race. Cars built for previous derbies are not eligible.

Three things the Pinewood Derby requires each participant to learn are 1) the craft skills necessary to build a car, and 2) the rules that must be followed and most important 3) sportsmanship. This is the actions, attitude and behavior while participating in the Pinewood Derby or any other group activity.

The first thing to remember about sportsmanship is that everyone's skills are a little different. You may be good at something like singing or drawing, but not as good at something else like basketball or computers. Parents have different skill levels, too. This doesn't mean that you are a good person one time and not good another time. You can always be a good person, whether you have good car-building skills or not. Remember, you and your friends are individuals first and racers second. This idea is often called having respect for others.

The second thing to remember is to follow the rules. Without rules, there would be no Pinewood Derby. You will never know if you are good at doing something unless you follow the rules. This is often called being honest.

The third thing to remember about good sportsmanship is that there are winners and losers in every competition. You accept this when you choose to compete. There may be times when you win and feel happy, and times when you lose and feel unhappy. Being a winner is easy, and losing is sometimes hard. If you win, you must not brag or gloat. If you lose, you must not feel jealous or bitter. To be a good sportsman, you must be able to say "I did my best" and be satisfied with the results. You must also be able to appreciate and feel happy for someone else when they run a good race or build a neat car.

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2 General Rules

These rules apply to all race events.

- G-1 Cub Race Qualification: Registered Lone Star District Cub Scouts and Webelos. Winning a race at the Unit level is not a requirement.
 - G-2 Open Class Qualification: The Open Class is Race is open to anyone who pays the registration fee and checks in a qualifying pinewood car.
 - G-3 Essential Materials: All cars entered shall be constructed from the "Official Grand Prix Pinewood Derby Kit" (referred to below as the kit).
 - G-4 Competitor Categories: The qualified Cub Scouts will compete with others in the same rank – Tiger, Wolf, Bear, Webelos I, and Webelos II. Parents, guardians and siblings of registered Scouts shall compete in the Open Class category
 - G-5 Attendance: The Cub Scout MUST enter his own car. This means that the Cub Scout must be present at "Inspection and Registration" to enter his car into competition and the scout must be present at the starting line.
 - G-6 New Work: The entrant must race the car that competed in his Pack's races. He may not enter any car that previously has raced in a previous year Pinewood or other Derby race besides this year's Pack Race.
 - G-7 Multiple Car Entries: Only one car may be registered by any scout in the Cub Scout and Webelos Races. Multiple cars may be entered in the Open Class Race and Design Competition.
 - G-8 Inspection and Registration: Each car must pass a technical inspection before it may compete. Technical inspection and registration of cars will occur at the scheduled time.
 - G-9 Late Registration and Inspection: If a Cub Scout fails to register his car by the deadline, he may appeal to the Derby Committee for entry. All decisions by the Committee are final. No exceptions.
 - G-10 Failure to Pass Inspection: The Inspection Committee shall disqualify cars which do not meet the rules as described herein. If a car does not pass inspection, the owner will be informed of the reason his car did not pass. Cars which fail the initial inspection may be modified to come into compliance with the rules and then re-submitted for final inspection and registration before the end of the official registration period.
 - G-11 Impound: No car may be altered in any way after it has been registered. After a car passes registration, it will be stored by the Pinewood Derby Race Committee until race time.
 - G-12 Car Design Rules Interpretation: Interpretation of all the rules described in G-1 through G-14, and D-1 thru D-9 are at the sole discretion of the Inspection Committee Judges present during the Registration and Inspection process.
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G-13 Car Marking and Identification: The official car number assigned by the Pinewood Derby Race Committee must be permanently marked, legible and plainly visible on the top, sides and/or rear of the car. Identification during the race will be based solely on car number and must not be marked with the scout's name.

G-14 Race-Day Rules Interpretation: On Race-Day, the Cub Scout must make all questions of rules interpretations and procedures to the Pinewood Derby Chairman or Race Officials promptly. Decisions of Race Officials on questions of rules interpretations and procedure may be appealed to the Pinewood Derby Chief Officials. All decisions of the Pinewood Derby Chief Officials are final. Decisions of Race Officials on questions of fact (i.e. the result of a specific race) may not be appealed beyond the Track Master and/or Finish Line Judges. Note: Unsportsmanlike conduct by any participant or spectator will be grounds for expulsion from the competition and/or the race area.

A minimum of three Chief Officials must rule on any issue regarding disqualification from the race.

3 Car Design Standards

These rules apply to all races unless specifically noted otherwise.

D-1 Material: Race cars shall be constructed from the parts contained in the Official BSA Grand Prix Pinewood Derby Kit. Materials from the kit may be supplemented but not replaced, except as noted under Wheels and Axles below.

D-2 Weight: Race cars may weigh no more than five (5) ounces (total weight) as determined on the official scales during the pre-race check-in.

Weight may be added to the car and will be considered part of the car for purposes of all measurements. Weight is considered any material on the car that is not provided in the kit. All weight must be securely fastened to the car, e.g. by permanent glue, nails or screws, but not by "sticky substances", e.g. tape, or tack spray. Weights shall be passive, i.e. non-moveable, non-magnetic, non-electric, non-sticky, etc. Hobby grass, bark or other decorative material not securely fastened is not allowed and will not pass inspection. Cars generating loose debris on the track may be subject to disqualification.

D-3 Wheels and Axles:

- a. The race car shall roll on the wheels and axles supplied in the kit or replacement wheels and axles from Official BSA Pinewood Derby Wheels and Axles Kits (Grand Prix) sold at BSA Scout Shops.
 - b. 4 wheels shall spin on the axle nails supplied in the kit, be firmly affixed to the sides of the car body and provide clearance to the track guide groove.
 - c. Wheels may not extend beyond the back or front of the body and will be used in overall car measurements.
 - d. It must be obvious to the judges that official wheels and nails are being used on the car.
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- e. Note the change for 2018 races where the use of the axle grooves is no longer required. The total measurements for the car remain the same which to include wheel placement on the body of the car. If there are any concerns, please contact the district official for clarification.

- D-4 Car Size: Race cars may be no longer than 7 inches total, nor wider than 2-3/4 (2.75) inches, as determined by the official gages during registration and inspection. Underside clearance of at least 3/8 (0.375) inches and inside wheel to wheel clearance of at least 1-3/4 (1.75) inches is recommended, so that the car will run on the race track. Maximum height shall not exceed 4.75 inches for the car to safely pass under the electronic finish line. Adequate clearance is the responsibility of the race car builder.
- D-5 Wheel Treatment: Wheel treatment (hub and tread smoothing and polishing) may not result in substantial removal of mass nor in reducing the wheel width from the original kit wheels. Some of the original "tread marks" on the wheel face must remain intact, i.e. apparent to the inspector. Wheels may not be machined to a beveled condition "V-shaped" or channeled "H-shaped" and the portion of the wheel surface that contacts the track must remain parallel to the axle.
- D-6 Unacceptable Construction: The following may NOT be used in conjunction with the wheels or axles: hubcaps, washers, inserts, sleeves, bearings. No part of a car may break the plane of the starting line, i.e. no part of the car may extend past the vertical pin located at the center of the lane at the starting line.
- D-7 Gravity Powered: The race car may not be constructed or treated in such a way that the track's starting mechanism imparts momentum to the car. (For instance, this provision disqualifies cars with sticky substances on the front of the car and protrusions which may catch on the starting pin.)
- D-8 Lubricants: Only dry lubricants such as graphite or powdered Teflon "white lube" will be allowed for lubricating the wheels. Lubricants must not foul the track. There will be a lubrication table set up at the race. In the interest of fairness, once the car is registered, no additional lubricants will be allowed.

4 Race Conduct and Format

Competition will consist of all Scout ranks running together in one run group. The N-perfect schedule is used to sequence each car through each lane of the track. The time is measured for the car to travel from the starting gate to the electronic finish line timer. The average time for all runs is used to determine a racer's overall standing. Track officials are responsible for the proper conduct of the races.

- C-1 Inspection Gages: The "Pit Stop" area will have the official scale and inspection gages. That check-in equipment will be the official equipment for the race. Please stress this fact to all Cub Scouts. They should be prepared to adjust their cars if necessary.)
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- C-2 Race Day Lubrication: There will be a lubrication table set up at the race. In the interest of fairness, once the car is registered, no additional lubricants will be allowed. Reference rule D-9 for lubricant requirements.
- C-3 Car Handling Responsibility: Cars will be picked up and handled by the official race day derby team and brought back to the 'garage' waiting for the next heats to start.
- C-4 Lane Assignment: To equalize differences among track lanes, each heat will consist of a number of races equal to the number of lanes that are on the track. In each heat, each car will race in each track lane used for that heat. For example, a heat with three cars would consist of three races with each car rotating through lanes 1, 2, and 3.
- C-5 Car Leaves Lane: If during a race heat, a car leaves its lane but proceeds down the track in a manner that does not interfere with its opponent, then the race will be called normally. If the car leaves its lane and interferes with another car, the race will be re-staged and re-run. If the same car again leaves its lane and interferes with another car, that car will be judged last place, and the race will be re-staged and re-run without that car.
- C-6 Car Leaves Track: If during a race heat, a car leaves the track without interfering with its opponent, it shall be considered to have ended its heat at that point.
- C-7 Car Repair (Without Fault): If during the race, a wheel falls off or the car becomes otherwise damaged, then the Scout may, to the best of his ability perform repairs with the assistance of his adult partner or Pit Crewmember. Repairs must be completed within 5 minutes.
- C-8 Car Repair (With Fault): If a car is damaged due to track fault, or damage caused by another car or person, then the Track Master, at his sole discretion, may allow additional repair assistance to the Cub Scout.
- C-9 No Finishers: If during a race heat, no car reaches the finish line on the track, the car which went the farthest in its lane shall be declared as the heat winner.
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- C-10 Track Fault: If a car leaves its lane, at his sole discretion, the Track Master may inspect the track and, if a track fault is found which probably caused the initial violation, the Track Master may order the race heat to be rerun after the track is repaired.
- C-11 The Race Area: Only race officials may enter the track area. This rule will be strictly enforced.
- C-12 Awards and Recognition: The most important values in Pinewood Derby competition are parent/son participation, good sportsmanship and learning how to follow rules. The Awards Committee is responsible for recognizing and encouraging these qualities in addition to traditional racing awards.

5 Awards

Awards will be given as follows.

5.1 Speed Awards

1st, 2nd and 3rd place will be awarded medals or a small trophy for each rank, Tiger, Wolf, Bear, Webelos I and Webelos II.

5.2 Pack Championship

1st, 2nd and 3rd place will be awarded trophies for Pack champions.
