

# 2022 FIVE CREEKS DISTRICT PINewood DERBY RULES

## CAR SPECIFICATIONS:

Pinewood Derby cars must be constructed from an official BSA Pinewood Derby kit. No substitution of official Pinewood Derby parts such as wood blocks, wheels or nails is permitted. All functional parts must be from the kit. No “aftermarket” parts will be allowed. If “aftermarket” parts are used, the car will be disqualified.

1. Width: Overall width of the car shall not exceed 2 3/4”
2. Length: Overall length of the car shall not exceed 7”
3. Front of Car: The car needs to be flat across the front of the car. No pointed ends or cutouts.
4. Height: Overall height of the car shall not exceed 3 1/8”
5. Weight: The maximum weight of the car is 5.00 ounces. The wood block, wheels, axles, weights, and any other decals, etc. are included for the final weight of the car. The scale used at check-in is the OFFICIAL scale for the race.
6. Clearance: The entire bottom of the car must have at least 3/8” clearance from a flat surface with the wheels attached.
7. Extending the wheel axle base is permitted so long as the car does not exceed 7” in total length. The wheels can NOT extend beyond the nose or rear of the car.
8. The car should be built with skills suitable to the age of the scout participant. Parental assistance is encouraged with car building, but the car must be the product of the Scout, not the adult. (A parent should help with the use of power tools for the safety of the scout and may provide direction in the painting or assistance in the attachment of the wheels.)

## RESTRICTIONS:

1. Wheel bearings, washers or bushings are prohibited.
2. Inserts for axle support are prohibited.
3. Only dry powdered graphite may be used for lubrication.
4. The car may not ride on any kind of springs.
5. No loose materials of any kind are permitted in or on the car.
6. Details such as steering wheel, driver, and decals are permissible as long as these details do not exceed the maximum length, width, height and weight specifications.
7. The car must be freewheeling with no starting devices.
8. No cutting or turning down of the wheels to a point or a ridge. Wheels must remain the same width as contained in the official BSA Pinewood Derby kit. Wheels may not be tapered or rounded and the rib located on the outer edge of the wheel may not be removed.
9. Only official wheels with the “BSA Pinewood Derby” stamped on them may be used. The wheels can be black, red, orange, blue or yellow. You may eliminate burrs and molding marks from the axles and wheels. You are permitted to correct the wheels for minor imperfections as long as they don’t reduce the wheel diameter or round off the edges of the wheels. The wheel must remain flat all the way across the tread.
10. A new car must be built each year.
11. All cars must pass inspection. The inspectors have the right to disqualify those cars that do not meet the specifications outlined above.
12. If a car jumps off its lane, interferes with opposing cars, or breaks down in any way, the heat will be re-run. If the car gets into trouble a second time or causes a problem a second time, it will forfeit the heat. The other cars will re-run. If the cause of the breakdown is the result of the track equipment or operation, the judge has the discretion to offer the car a third run.
13. In the event a car is damaged, the racer and their crew will be permitted to fix the car prior to its next heat. In the event the damage occurs immediately prior to or during its race, the racer and their crew will be permitted 2 minutes to make necessary repairs. The car will be reweighed and re-inspected prior to being permitted to race. The racer is prohibited from lubricating the axles during the repair time.
14. If any item other than a wheel falls off a car during a race, it may not be replaced.
15. Races are timed. Every car will run once in all four lanes. The total time of the four races are added together & averaged.
16. Each den will race independently with each other. The top three from each den will race each other in the finals. Prior to the finals, the cars in the finals will be permitted to lubricate their wheels. Times from the den races do not move forward to the finals. Each car in the finals will race once in each lane. The Grand Champion will be determined by the fastest average time of the finals.



THE DECISIONS OF OUR JUDGES ARE FINAL  
GOOD SPORTSMANSHIP IS EXPECTED

