

## PINEWOOD DERBY RULES, 2019 PACK 13

### ALL CARS MUST MEET THE FOLLOWING RULES AND SPECIFICATIONS

1. For the Den/Pack/District/Council race, each participant may enter only one (1) car. The car must be built for the same year it is to compete. No car that has raced in previous years is eligible.
  
2. The Scout needs to be present the car for weigh in 1/18/20 from 9am to 12 noon at the VFW in Pewaukee. Located at 202 Clark St. Pewaukee. All cars are impounded at that time. Race Day is Sunday 1/19/20 in the PLE Gym starting at 12 noon.
  
3. The race will be a best time event. The format used will be determined by the Race Committee prior to the start of the race.
  
4. ONLY the official Cub Scout Grand Prix Pinewood Derby wheels, axles and body are to be used. The finished car will meet the following specifications. A. Width -overall width will not exceed 2-3/4". B. Length – overall length will not exceed 7". Wheels are not permitted to extend past the front or rear of the car body. C. Width – between wheels – will not be less than 1-3/4". D. Bottom Clearance – clearance between car and track will not be less than 3/8". E. Height – will not exceed 5 1/2" so that it will clear track timer. F. You may not significantly change the wheel dimensions. Wheels may be sanded/lathed/filed to smooth out molding imperfections in the tread area. The contact surface of the wheel must be flat as it sits on the track. Beveling, tapering, significant rounding, pointing, shaving, concave, wafering, etc. of the wheel contact area is prohibited. The outside (OD) wheel diameter cannot be less than 1.170 inches. All wheels must have the raised BSA – PINEWOOD DERBY letters on the outside surface of the wheel. The overall wheel width, including the sidewall but excluding the raised lettering, cannot be less than .320 inches. (See Pictures and Notes) G. A Go-No-Go measuring device may be used to measure both the car body and its wheels. A car that is within the specifications will fit into the box with the door closed and pass wheel inspection. H. Weight – will not exceed 5 ounces (141.7 grams) as weighed on official race day scale. Only one scale will be designated as the official scale.
  
5. Each car will be assigned a number for the race at weigh in. That number (sticker) will be attached to the top of the car in such a manner so that the front end of the car is easily identifiable by the Race Committee. After registration, inspection and weigh-in the car will be impounded. You will not be allowed access to your car. A car cannot be repaired, lubricated, etc. after weighing-in, except at the discretion of the Race Committee. Race officials may authorize repairs when damage is caused by collision with another vehicle or object, or if a part of the car falls off which is necessary for the car to continue in the competition, such as a wheel.
  1. Repairs must be completed within a limited time allowed by the Race Officials.
  2. Cars that are repaired may be re-checked at the discretion of the Race Official.
  3. Other exceptions are allowed at the discretion of Race Officials.

6. Any part of the car that falls off, and is not required for the car to race i.e. plastic driver, weights, decals, etc., may not be replaced or repaired.
7. Any part of the car that becomes loose, or causes or may cause interference with another car, must be removed as determined by the Race Committee.
8. Angled (canted) axles and/or wheels are not permissible.
9. Wheel bearings, washers, sleeves and bushings are prohibited.
10. The car is not permitted to ride on springs of any type.
11. Wheel covers or hub caps are prohibited, the head of the axle (nail) must be viewable for inspection.
12. The axils (nails) maybe polished, cleaned, rounded, etc. and stamping imperfections removed.
13. The wheel and axle lubricant is may be of dry powder type, such as powdered graphite or liquid oil. Solid powders or flakes, e.g., graphite or Teflon, or oils may be used but only if no excess is visible and will not harm the track. No lubricant can be used that alters the race conditions of the track.
14. Other Items - Details such as steering wheel, driver, paint, decorations and decals are permissible as long as these details do not exceed the width, length, height, clearance and weight specifications. All details must be securely attached to the car.
15. All cars will be freewheeling with no starting devices and powered only by gravity. The car may not be constructed or treated so that it uses the track's starting mechanism to gain momentum.
16. Liquids, magnets and slip weights are prohibited.
17. All weights must be securely attached to the car. The car body is to have no moving parts that may add to the cars speed.
18. Any car with wet paint, wet glue, etc. at the time of registration shall not be accepted. No part of the car is to be sticky or tacky to the touch.
19. No car will be permitted to race if parts are made to intentionally come off during the race or interfere with another race car.

20. The cars will rest against a starting pin; therefore, it is advisable that they do not come to a sharp point in front. The car nose must be flat (not pointed) for at least 3/8" where it contacts the guide post.

21. No part of the car will be permitted to extend past the starting pin. Cars, which do have the front end extend past the starting pin may be raced backwards, providing none of the rear of the car extends past the starting pin. -- Any modifications are to be made prior to weighing in

22. If after a reasonable effort is made to stage the car at the starting line and it still unable to be properly lined up, the Race Committee may either disqualify the car or allow the car to be modified in order for it to be staged. Race Officials may re-inspect the car.

23. If, during a race, no car reaches the finish line on the track, the car that went the farthest in its lane, shall be declared as the heat winner. If it is a best time event, then a time will be assigned to any car that fails to cross the finish line.

24. A car which leaves the track in three (3) consecutive races, it is disqualified. EXCEPTION: When a car is caused to leave the track because of a collision with another car or a track defect.

25. If a car leaves its lane or fails to reach the finish line, the Race Chairman at his sole discretion, may inspect the track and, if a track fault is found which probably caused the Initial violation; the Race Committee may order the race and/or car(s) to be rerun after the track is repaired.

26. If, during a race, a car leaves the track without interfering with its opponent, provided it was not caused by a track problem, it shall be considered to have ended its heat at that point.

27. If, during a race, a car leaves its lane and, in so doing, interferes with another racer, then the car at fault shall be declared to have lost the race heat. If three or more cars are racing, the car causing the interference will not be permitted to run in that re-race. If a best time event, the car(s) that were interfered with will be re-raced and the car that caused the interference will be assigned a time or will be considered as did-not-finish for that round.

28. Scouts are only allowed to handle their own car and should not touch or handle any other cars. Parents are not to handle or make adjustments to the car during the races.

