

**2021 Virtual Black Feather District  
Pinewood Derby Championships  
&  
Saturday, June 12, 2021**

**General Information and the  
Official “Rules of the Road”**



**This year’s District Pinewood Derby will be a great recruiting opportunity for your Pack!**

**WHO MAY ENTER:** *All* registered Cub Scouts from Lions to Arrow of Light, whether or not they have participated in a Pack Pinewood Derby this year, are urged to participate! The entry fee is \$8.00 which covers the cost of pins, medals, trophies and location rental.

In addition, each Pack will receive five (5) **FREE**, yes five (5) **FREE** car kits as part of the District’s Spring recruiting program. Please invite five prospective Cub Scout age boys/girls AND Cub Scouts that may have recently dropped out of the program. They will participate in the *Open Division*. E-mail Tim Davies at [scoutzilla16@gmail.com](mailto:scoutzilla16@gmail.com) to arrange to pick up your five (5) free car kits. Please be sure to return the unused kits.

There is no registration fee for the non-scouts that participate in the Open Division. All Pinewood Derby participants will receive the official 2021 Pinewood Derby pin driven by our mascot “PeeVee”.

For those units that did not conduct a Pinewood Derby, results will be provided to leaders so trophies may be awarded at the Pack level.

**WHEN:** Saturday, June 12<sup>th</sup>

**WHERE:** “Virtually” in Kirk Hall at the Douglas County Fairgrounds in Castle Rock. Current restrictions limit attendance to just the event staff.

**TIME:** Races will start promptly at 9:00 am

**AWARDS:** 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> place trophies for each of the following groups plus overall 1<sup>st</sup>, 2<sup>nd</sup> and & 3<sup>rd</sup> place trophies for the Cub Scout Champions:

Lions  
Tigers  
Wolves  
Bears

Webelos  
Arrow of Light  
Open Division

**TO VIEW THE EVENT:** Check back at the Black Feather District website for viewing information at <https://www.denverboyscouts.org/districts/black-feather/>

**TO REGISTER:** Go to <https://www.denverboyscouts.org/districts/black-feather/>. **The deadline to enter and check-in completed cars is Thursday, June 10<sup>th</sup>**

**CAR CHECK-IN AND INSPECTION/WEIGH-IN DEADLINE\*:** All cars will be dropped off, inspected and weighed in advance of the event. All cars ***MUST*** have the name, rank or grade if a non-scout and Pack number written on the bottom of the car. Please drop off cars on the dates and locations indicated below. **PLEASE TEXT IN ADVANCE:**

<p><b><u>HIGHLANDS RANCH</u></b> Kitty &amp; Doug Schoenherr (303) 886-6290 445 Dione Place</p> <p><b>Monday, June 7<sup>th</sup> to Thursday, June 10<sup>th</sup></b></p> <p><b>Leave cars in box on front porch</b></p>	<p><b><u>PARKER</u></b></p> <p><b>To Be Determined</b></p>	<p><b><u>ENGLEWOOD, LITTLETON &amp; SHERIDAN</u></b> Tim Davies 303-912-5632 (cel)</p> <p><b>Bring cars to 4 West Dry Creek Circle parking lot, Littleton Saturday and Sunday, June 5<sup>th</sup> &amp; 6<sup>th</sup>, 1:00 PM to 5:00 PM</b></p>	<p><b><u>CASTLE ROCK</u></b> Bob Disher (303) 995-3474 (cel) 3744 Black Feather Trail</p> <p><b>Monday, June 7<sup>th</sup> to Thursday, June 10<sup>th</sup></b></p> <p><b>Leave cars in box on front porch</b></p>
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**\*Special arrangements may be made to drop off cars in advance by texting the appropriate party above.**

**REGISTRATION & CAR DROP OFF DEADLINE:** Thursday, June 10<sup>th</sup>.

Sincerely,

*Doug Schoenherr & Kitty Schoenherr*

Doug & Kitty Schoenherr

Black Feather District Pinewood Derby Coordinators [blackfeatherdistrictpinewood@gmail.com](mailto:blackfeatherdistrictpinewood@gmail.com) 303-886-6290

**Please see the accompanying "Rules of the Road" for the Black Feather District Pinewood Derby!**

# **2021 Virtual Black Feather District Pinewood Derby Championships Saturday June 12, 2021**

To participate, your car must fit within the rules given below. **Your Pack's guidelines may have been different, so please check your car against the Official District "Rules of the Road". If any given youth car does not qualify, it is able to run in the Outlaw class without modification, or you may take the opportunity to bring the car into compliance.**

Please make the proper measurements, ahead of time, to avoid disappointment. Once the car has been checked in, it will not be touched until race time and then only by race officials.

## **TENTATIVE RACE DAY SCHEDULE – KIRK HALL / DOUGLAS COUNTY FAIRGROUNDS\***

9:00 am: Lion and Tigers (Kindergarten & 1st grade)

10:00 am: Wolves (2nd grade)

11:00 am: Bears (3<sup>rd</sup> Grade)

12:00 pm: Webelos (4th grade)

1:30 pm: Arrow of Light (5th grade)

2:30 pm: Cub Scout Championships (1<sup>st</sup> Place from each Rank races)

**Open Division registrants will race with their respective grad levels.**

**\*The race schedule *may* change in the event of larger than anticipated registrations!**

**Black Feather District Finals Pinewood Derby Rules of the Road** (Ver. 021019)

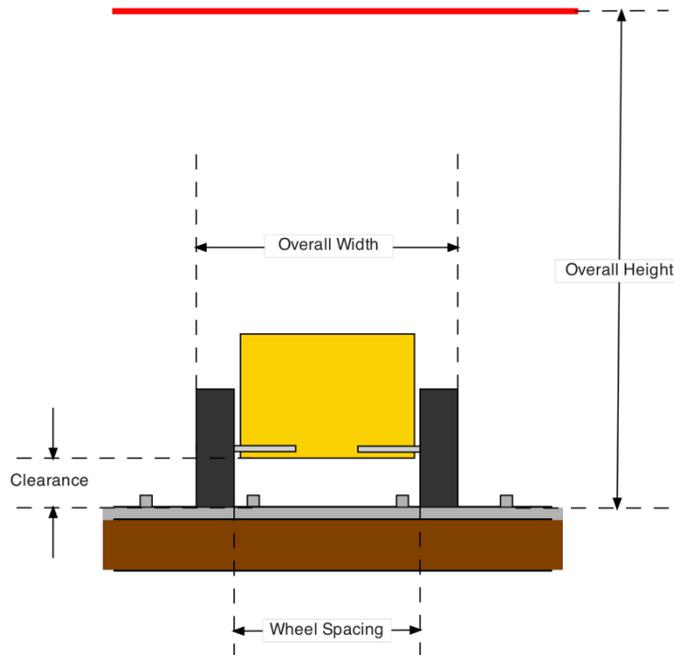
While there are many web sites and other resources that discuss Pinewood Derby designs, and while many Packs have their own rules, the following rules are established for the **Black Feather District** Finals Race, and in fairness to all participants, cars that cannot conform to these specifications will not be allowed to race.

These requirements provide assurance that the car meets dimensional requirements ensuring the car can race without obstruction or interference to other racecars on the track, and to ensure the race remains fair across all competitors.

Prior to the race or prior to the end of the established check-in period, any participant’s vehicle that does not meet the following requirements can be modified in an attempt to meet the specified requirements.

**Dimensional Requirements:**

The car dimensional requirements are set with respect to the dimensions of the racetrack being utilized by the Black Feather District for this race.



- Wheelbase: =  $4 \frac{3}{8}'' \pm \frac{1}{16}''$  (Distance between the front and rear axles)
- Overall Width:  $\leq 2.75''$
- Overall Length:  $\leq 7.0''$
- Overall Height:  $\leq 5.0''$
- Clearance:  $\geq 0.25''$
- Wheel Spacing:  $\geq 1.75''$
- Weight:  $\leq 5.00$  ounces (relative to official race scale)

**Fair Competition Requirements:**

The criterion for fairness is set forth by the Black Feather District Committee and includes these restrictions:

1. Cars constructed for prior year District competitions may not be used for this year’s race.
2. All cars must be constructed from the Official Cub Scout Grand Prix Pinewood Derby Kit. A car kit includes a 1.75” wide x 1.25” high x 7” long block of pinewood with an axle spacing of 4 3/8”. It includes four nail axles and four wheels. It is okay to augment the body of the car with aftermarket accoutrements such as weights and

decorative additions such as engines, exhaust pipes, fenders, windows, and other decorations. All of these accoutrements must be firmly affixed to the vehicle.

3. Axle spacing must not be altered. It is okay to relocate the axles but the axle spacing must be maintained. The axle spacing set forth by the Official Cub Scout Pinewood Derby Car Kit is 4 3/8".
4. The construction of the cars must not include aftermarket axles or wheels. Examples include single axles or precision-machined pins in place of the four nail axles that came with the kit. It is okay to modify the nail axles to improve performance. These modifications can include but are not limited to polishing, removing ridges, or removing material. The construction of the car must allow for inspection to verify use of these kit materials. The ends of each axle nail must remain visible.

Note: It is allowable to have only three (3) wheels touching the track, commonly referred to as a "lazy wheel".

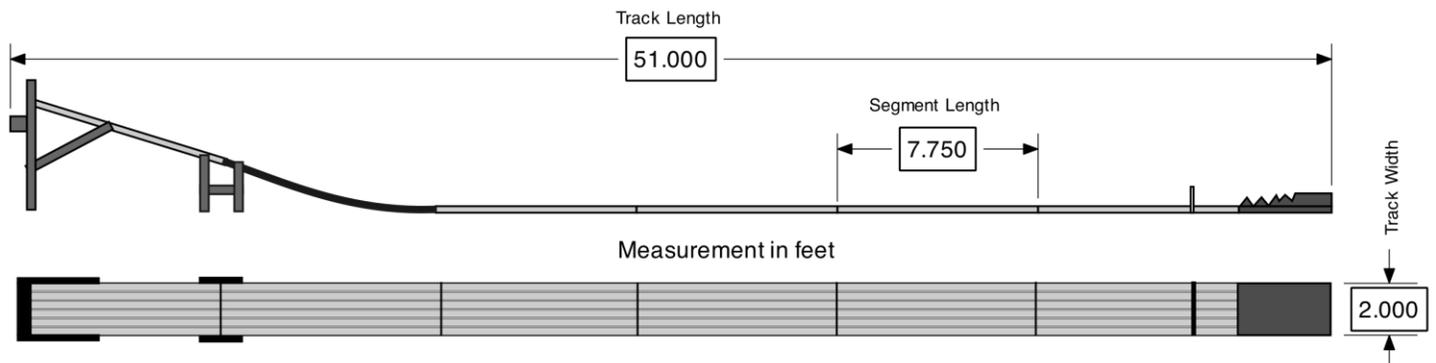
5. A car must not utilize bushings, washers, wheel bearings, axle bearings, or a suspension system of any kind. The materials for movement are limited to the official wheels, official axle nails, and dry lubricant.
6. A car must not include any motive forces such as springs or electrical or mechanical drive mechanisms. The force of gravity must be the sole force that acts to propel the car down the track.
7. At the starting gate, the car is retained by a starting pin located in the front and center of the car. No mechanical feature of the car can protrude beyond the uphill edge of the starting pin. Examples of this are cars with a V-cut feature for the front, or protruding aspects such as a gun barrel on a tank.
8. Wheel modifications are strictly limited to the removal of the wheel's mold seam on the tread to create a flat and even surface for the wheel to ride upon the track. The wheel's track contact surface cannot be rounded, grooved, ridged, or reduced in width with the purpose of limiting the amount of wheel contact area riding upon the track. The axles must not be affixed in such a way as to cause the wheels to ride along on its edge, effectively reducing the wheel contact area. The wheels must not be machined as to reduce the mass of the wheel such as reducing the thickness of the wheel material. Wheels may be subject to precision measurement at check-in. ○ ○ ○ ○
  - Wheels must have at least 7.5 mm minimum tread width.
9. All track BSA lettering must remain visible on the inside and outside of the wheels. wheels that ride upon the track must be freewheeling. Tread/contact surface must remain flat to the bore. finishes (such as paint or finishes) must be contact
10. All car clear Wheels must be across from each other. finishes) must be contact dry (not Nothing can be on the axle (touching it) between the wheel and the car body. wet or tacky). Verify the car does not use wet lubricants. If lubrication is present, it must be a dry lubricant such as graphite powder.
11. Cars must have a designated front and rear. If the car's front and rear are not obvious, then before or during check-in, the participant must mark the car to indicate the front and rear. All cars will be raced with the front first.

During check-in, each car will be inspected for compliance to these above criteria. Any cars not meeting these criteria will be disqualified. Participants can make any necessary modification, as possible, to achieve a successful check-in. At the completion of the check-in period, additional cars will not be accepted. All cars that pass check-in inspections are accepted and retained by the race officials until completion of the race. All cars that are accepted at check-in will not be re-evaluated for meeting check-in criteria. No participant or race official can challenge a car that has been accepted – no exceptions. Due diligence will be performed to ensure a fair race and good sportsmanship will prevail.

### General Information:

1. The track is 48 feet long, with a raised center that is 1 5/8" wide and 1/8" thick running down the center of each lane to keep the car in its respective lane. The starting gate has a slightly wider lath so the cars are accurately

centered in the lane. It is very important not to reduce the width of the wood block where the wheel and axle are attached to the car body. If wood is removed from this area, the wheels may rub on the center lath and slow the car.



2. Pinewood Derby cars are approximately 1/24 scale, and many decals and accessories are available at local hobby stores in this scale. In addition, there are decal sets and plastic drivers available at The Council Scout Shop (10455 West 6th Avenue, Suite 125, Denver, CO 80215 303-477-4830).
3. A car that jumps the track or interferes with another car will cause the Race Officials to pause the race and determine the cause of the problem. If debris on the track caused the car to jump out of the lane, the debris will be removed, the track will be wiped down / cleaned quickly, and the heat will be re-run with the cars in their same lanes. If Race Officials determine that the car's design or performance caused it to jump the track, Race Officials will determine whether the problem can be adjusted or repaired within 5 minutes, and the Scout / Racer will be given all reasonable opportunity to repair the car and continue racing. The heat will then be re-run with the cars in their same lanes. If the car jumps the track following the rework or repair, the car will not be rerun and it will lose the heat. If the race officials rule the car cannot be fixed, then the car will be removed from the competition and a dummy car will be run in its place.
4. Within reason, and to be decided by Race Officials, if a car experiences breakage during a race, the Scout and parent may be allowed a quick (up to 5 minutes) repair of the car to enable the Scout's continued participation. Officials will then run that heat again. If the car cannot be repaired within 5 minutes, it loses the heat.
5. After check-in, race officials will hold the racecar until after race time. No alterations will be allowed after the car is checked in. The weight at check-in will be official. Identification numbers will be furnished at check-in. The inspection team has the right to disqualify those cars which do not meet official specifications. Graphite powder will be available to everyone on race day for use prior to check in. Following check-in, no re-lubrication will be allowed.
6. If a car does not make it to the finish line, the car will be picked up and it will register a max time for that heat. Except for cars that have mechanical problems, no car will be allowed to be removed from the race until the race is complete. Between races, a Scout / Racer can elect to withdraw from the competition for any reason. Additionally, race officials can remove a car from the competition between races for unsportsmanlike conduct.

**GOOD SPORTSMANSHIP AND BEHAVIOR ARE EXPECTED FROM SCOUTS AND PARENTS.** Race Officials may ask anyone not following this rule to leave. Alternatively, race officials have been known to publicly honor good sportsmanship among competitors as observed by the officials.