



Pack 142

New Fairfield, CT 06812

Pack 142 Pinewood Derby Racing Rules

Revised 2/2010

General Rules:

G1 All cars MUST be constructed from the Official Pinewood Derby Kit issued by your Den Leader or other approved Pack Leader. Alternate kits are available at local craft shops and are stamped "Officially Licensed". The race committee and Pack leadership discourage use of premade cars. If these kits are used, you assume FULL LIABILITY if car DOES NOT MEET all regulations in after mentioned sections of this rule guide.

G2 All parents and/or caregivers must sign the bottom of this rule packet stating they understand the rules and guidelines for the Pack 142 Pinewood Derby. Failure to turn this sheet in signed to your Den Leader by the specified date will result in disqualification on racing day. Cars may be raced, but in the open division (not the Closed division) for a fee of 20.00 dollars per car.

G3 Divisions-

Open is for any Official Pinewood Derby Car that is either vintage or modern, meets the requirements for 7/16 inch clearance off the track, does not exceed 5.3 oz of the 5 oz. max weight, and has met the 20.00 dollar financial obligation at the time of weigh in. Businesses, siblings, etc may race in this division, if the 20.00 financial obligations are met.

Closed is for any Official Pinewood Derby car that meets all the technical standards for construction, has a signed rule guideline on file, and is raced by a scout (or approved stand-in if scout cannot attend). These races are only for registered and financially current Pack 142 Scouts and families. Other Cub Scouts from other packs may race in the Open division if they meet the required criteria.

G4 Competitor Categories:

Races are by Rank. Each den of a specific rank will race. The top three finalists from one den will race against the top three finishers of another den (of the same rank) to determine the overall top three rank finalists for the below ranks. The TOP rank finalist will advance to the Pack championships.

Tiger

Wolf

Bear

Webelos 1st Year

Bobcats- will race with current den-if not associated with a den on race-day, they will be placed with an AGE appropriate den. If a rank does not have multiple dens (of the same rank), the top finalist of that den/rank will advance to the Pack Championship.

G5 All cars raced must not have been raced in previous years. Each scout is REQUIRED to build a new car EACH racing year. If a car appears to have been raced in prior years, the weigh in official may disqualify you (pending a review with the Cubmaster or other official), or allow you to enter the Open division for a fee of 20.00 dollars. The outcome of that discussion will be final.

G6 Only ONE car per scout may race in the Closed Division. A scout may enter as many official cars as he wishes in the Open Division, with each costing 20.00 dollars per entry.

G7 Awards: All participants will receive an award for participation. All Den Finalists who finish the race 1st, 2nd, 3rd, will receive an award. All rank Finalists among same rank dens will receive medals. Top 3 finishers in Pack will receive custom made trophies. Awards other than "all participant" will be handed out at the April Pack Meeting.

G8 Awards for "most unique design," and "coolest paint job," will be voted on by the racing officials. These awards will be handed out at the April Pack Meeting.

Technical Standards on Car Construction:

T1 Material:

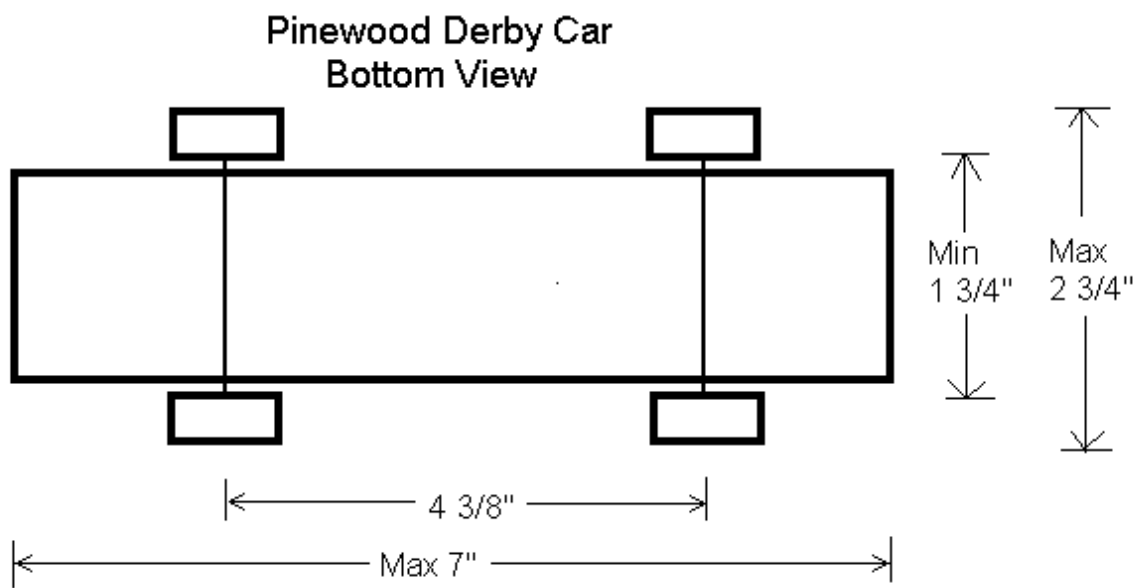
Race cars are constructed from the parts contained in the Official Grand Prix Pinewood Derby Kit. If you purchase additional official BSA parts from a Scout Store or online at scoutstuff.org, please bring the receipt to verify authenticity. Items such as colored wheels, etc are official, and CAN be used on your car, but race officials need to see it is authentic. If you do not have the receipt, you may be disqualified unless these parts meet the standards below:

T2 Overall Weight of car and all components must be no more than FIVE (5) ounces. Two scales are used to weigh the car in. If the car weighs more than five ounces on both scales, you will need to reduce the weight of your car.

T3 **Wheels** to be used must be the official wheels with the kit. If you chose to use BSA colored wheels available from scout shops and online providers, they must say "Official BSA* Made in the USA." Wheel surfaces may be spun or sanded to remove imperfections; however, the inner wheel edge may not be altered in any fashion. The wheels need to turn freely on the AXLE included with the kit.

Axles MUST be placed in the grooves cut into the block; it is illegal to make new axle grooves or alter existing. Axles may be polished and lightly spun to make them true, but must be original from the kit. If an axle guard is used, it must be removed prior to inspection, and adhered to block with a race official present before the car is weighed. If the guard is affixed prior to inspection, and cannot be easily removed by the race official, the car will be disqualified and placed in impound until the event is over or you leave the venue.

T4 **Size:** Race cars may be no longer than seven (7) inches or wider than two and three quarter inches ($2\frac{3}{4}$ inches or 2.75 inches). The car cannot be taller than three inches, with the exception of ONE or TWO permanently attached figurine(s) with a maximum height of two inches (2). Therefore, at these one or two points the maximum height may be five (5) inches. **UNDERSIDE CLEARANCE** MUST BE at LEAST seven sixteenths ($7/16$) of an inch on any part of the underside plane; failure to meet this standard will render the car inoperable as it will drag on the track.



Please note the axle groove to axle groove slot is $4\frac{3}{8}$ inches-this may NOT be altered. Front axle groove center is $5/16$ inches from block edge (face) and back axle groove center is $1\frac{11}{16}$ inches from block edge (rear). These dimensions combined with the $4\frac{3}{8}$ inch axle to axle comprise the 7 inches max dimension (+/- $1/16$ inch depending on tape measure©)

T5 **Weights:** Weights may be used as needed to bring the car to its maximum weight of 5 ounces. Weights may be mounted anywhere on the car EXCEPT inside the wheels. Weights need to be mechanically or otherwise permanently affixed so they cannot fall off during the race. Technically, a weight is any item that did not come with the kit. Therefore, items like windshields, figurines, etc are considered weight. Weight may be cut into the wood and 'hidden' as long as they are secured with adhesive or 'bondo' style materials. Weights mounted on the bottom of the car that are not FLUSH with the bottom surface must not interfere with the minimum clearance of $7/16$ of an inch!

T6 **Lubrication:** The only lubrication permitted is powder (dry) graphite. No other lubricants may be used. Cars that are inspected and found to have an oil or liquid based lube will be put into impound and the car will be disqualified from racing.

T7 Miscellaneous:

The following are NOT allowed:

Use of any washers other than as weight.

Use of bearings, sleeves, inserts or hubcaps on ANY axle or wheel component. NO WEIGHTS may be placed inside wheels or attached to the wheels in any fashion.

Use of an illegal SOLID (one single axel running through both wheels or two axels joined together) axel or making the stock axels solid by welding or otherwise altering.

Having the car able to be propelled by any other means than simple gravity. No motors, etc may be used.

The car must not ride on any type of springs or other shock absorbing devices.

No starting devices or extensions to front end are allowed. The car must be freewheeling.

No loose material of any kind may be used; all weights and accessories MUST be permanently affixed.

Race Conduct:

RC 1 All inspections at race check-in will begin 20-30 minutes prior to your race time. Please remember that cars can be checked in well in advance **to your race time** as they will be marked and put into the pit area while other races are occurring. They will be secured and made available at race time.

RC 2 Scouts must be present to race their cars. Unless other arrangements are made in ADVANCE with the head race official or that persons appointed associate, scouts who do not show up will not have their car raced. The car will be impounded and released after the event has finished.

RC 3 Car Repairs after check-in and during race:

Prior to weigh in (or immediately after, prior to final weigh in and car being placed in the pit area); if a car is underweight or overweight, the pack will supply hot glue, washers and screws, and a Dremel tool (to be used by adults only) should modifications be necessary. These supplies are limited. The pack will also provide a limited supply of graphite. No repairs allowed after car has been finally weighed and checked by race official and placed in the pits. The car may be repaired under the following conditions:

Unless the race official finds fault with the physical racetrack, a repair to the car may be made BY THE SCOUT ONLY, and only after the heat that the scout was racing. Repairs must be made prior to the scouts' next heat. The scout may seek advice from a parent or caregiver, but the scout MUST MAKE THE PHYSICAL REPAIR! If the track is at fault, the track issue will be resolved, and the scout may obtain assistance in a repair from the parent or caregiver. This is at the sole digression of the track chairman.

RC 4 Car Interference

If during a race heat, a car leaves its lane and interferes with another car(s), then the car at fault will lose the race for that heat. The exception to this is if the track chairman determines the track is at fault. If so, the track will be repaired and the heat redone. If the track is deemed ok, the heat will be repeated, and the remaining cars will race to determine the winner of the heat.

If a car leaves the track, or leaves the lane without causing any interference, the race will proceed normally. Track failure will result in a redo of the heat.

No finishers-if no cars cross the finish line, then the car that went the furthest will be deemed the winner.

RC 5 Decisions by the race committee, race committee chairperson, and the Cubmaster will be considered final. These rules were created to eliminate potential confrontational situations. Challenges to rulings can be made to the race committee in a fair and non confrontational way. **Abusive language or aggressive behavior will not be tolerated and will result in that car and its owners immediately disqualified and asked to leave the venue!**

I have read and understand all points made in the Pack 142 Pinewood Derby Rules and Regulations.

This sheet must be returned to you Den Leader prior to March 17th 2010. Failure to return will result in disqualification at race day. Rules acceptance may be emailed to erikzars142@gmail.com stating "you have read the Pack 142 Pinewood Derby rules and agree to all its conditions". Please provide your FULL name, scouts name, and DEN number.

Parent or Caregiver Printed Name

Parent or Caregiver Signature

Den Number

Scouts Full Name

This agreement will be on file at race day should issues occur.

Questions please contact:

Erik Zars, Cubmaster and Race Committee Chairperson

erikzars142@gmail.com

Questions: (203 731 7384 between 6-8PM)

