

## Pack 3371

# 2010 Official Pinewood Derby Rules and Regulations

**PARTS AND MATERIALS:** Each participating Cub Scout is to build a completely new car each year using the official pinewood derby car kit (BSA Part #17006). No car or any portion of a car including wheels and axles, may have been used in any previous year's derby. Upon the request from a judge or race official, the scout will need to provide proof of a car being newly built. Official pinewood derby car kits, weights, and other optional accessories and kits may be purchased from Boy Scouts of America approved distributors, the Sagamore Council Service Center, or [www.scoutstuff.org](http://www.scoutstuff.org)

**WIDTH:** Maximum overall width allowable, including wheels, is 2 3/4 inches.

**LENGTH:** Maximum overall length allowable is 7 inches. No portion of the car will be allowed to extend forward of the starting gate.

**HEIGHT:** Maximum overall height allowable is 5 inches.

**CLEARANCE:** Minimum clearance under the body is 3/8 of an inch. Minimum clearance between the inside of the wheels is 1 3/4 inches.

**WHEEL BASE:** Wheel base is to be approximately 4 1/4 inches. This is measured from the center of each axle, front to back as present in the official pinewood derby car kit (BSA part #17006).

**WEIGHT:** Weight cannot exceed 5.00 oz. (141.75 grams). The car may be hollowed out and built up to the maximum weight by additional wood, metal, or any other material, provided they are securely attached to the body and chassis. No loose material of any kind is permitted in or on the car including, but not limited to, liquids. Materials that could potentially be health hazards are not permissible to be used as weight. Lead is permissible for weight provided that it is completely enclosed within the body of the car.

**MATERIAL:** The car body, wheels and axles must be from the official pinewood derby car kit (BSA Part #17006). The optional wide body side panel kit may also be used (BSA # 16994). The car may not ride on any type of springs. Details such as decals, pin stripes, and interior detailing are permissible as long as the car does not exceed the maximum weight. Plastic and metal detail parts are allowed as long as they are securely attached to the body and chassis and do not exceed the maximum length, width and height.

**WHEELS:** Wheels must be from the official pinewood derby car kit (BSA Part #17006) or from the optional Cub Scout derby wheels & axle kit (BSA Part # 17007) or from the optional color wheel kits (BSA Part # 17553, 17554, 17555, 17556 or 17557). Wheels may be lightly sanded only to remove bumps, burrs and ridges. They may not be shaved or reduced in diameter or width. Wheels may not be beveled, tapered or in any other fashion modified from the original size and shape. Wheels may not be painted. Wheel covers, bearings, washers, and bushings are strictly prohibited.

**AXLES:** The axles (round head nails) must be from the official pinewood derby car kit (BSA Part #17006) or from the optional Cub Scout derby wheels & axles kit (BSA Part #17007) and maybe polished using files, sandpaper, etc. or by using the pinewood derby high performance kit (BSA Part @#7609) to remove burrs, scratches and ridges. The axles may not be machined or reduced in diameter anywhere along the axle shaft. Substituted axles will not be permitted.

**LUBRICATION:** Pinewood derby axle lube (BSA Part #17106) is the ONLY permissible lubrication. All other forms of lubricant (oils, graphite, etc.) are strictly prohibited. Any lubrication on exposed surfaces of the wheels, body or chasis is prohibited. Lubricant, if used, must be applied prior to inspection and registration of the car. No lubrication is permitted after registration or during the derby.

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**INSPECTION:** The car must meet weight, clearance, and size limitations as stated above and use only the materials specified in the parts and materials sections above. A repair table may be made available to make adjustments prior to registration. A car with illegal parts may have them replaced or removed prior to registration and will be allowed to participate in the race with only legal parts. Any car using illegal lubricants will not be allowed to participate.

**DISQUALIFICATION:** Per the judge(s) or race official(s), a car or scout will be disqualified and not allowed to race if any of the following occur:

1. Any use of improper material as outlined above, including, but not limited to, lubricant, wheels, axles or body wood.
2. Changing the car after registration, except for authorized repairs.
3. Removing the registration sticker from the car.
4. Handling any car without permission of the judge(s) or race official(s).
5. No following the instruction of the judges(s) or race official(s).
6. Not following any other rule specified for the pinewood derby.

**HANDLING:** Only the Cub Scout who has entered the car or a race official may handle cars being raced.

**RACE PROCEDURE:** Each car will participate in a double elimination race. This means that a car will not be eliminated from the race until it has lost two separate heats. The numbers of the cars in each heat will be called by the starter, judge or race official. Each heat will consist of a minimum of two runs down the track with the winner being determined by the car that wins on each lane. The heat will be run, with the lane winner and loser noted and posted on a chart, and the cars will be returned to the judges table. The starter will make lane assignments so that a car does not race in the same lane twice in a row during a race. The scout will be solely responsible for placement of his car on the correct lane of the track and will not be allowed to handle or interfere with any other cars on the track.

**RERUNS:** If the starter declares a mistart or a car leaves the track, the race will be rerun. When a car has left the track and requires repair, the judge(s) and/or race official(s) reserves the right to decide whether the car may be repaired and rerun or forfeit that heat. If a car leaves the track twice in the same heat, the car will automatically forfeit that heat.

**PARTICIPATION:** Every Cub Scout must be present to race his car and receive any award. Should the need arise, the judge(s) and/or race official(s) reserves the right to allow substitutions.

**THE DECISIONS OF THE JUDGE(S) AND/OR RACE OFFICIAL(S) ARE FINAL.**

**THESE RULES WILL BE USED BY PACK 3371 FOR ITS 2010 PINEWOOD DERBY RACE.**