

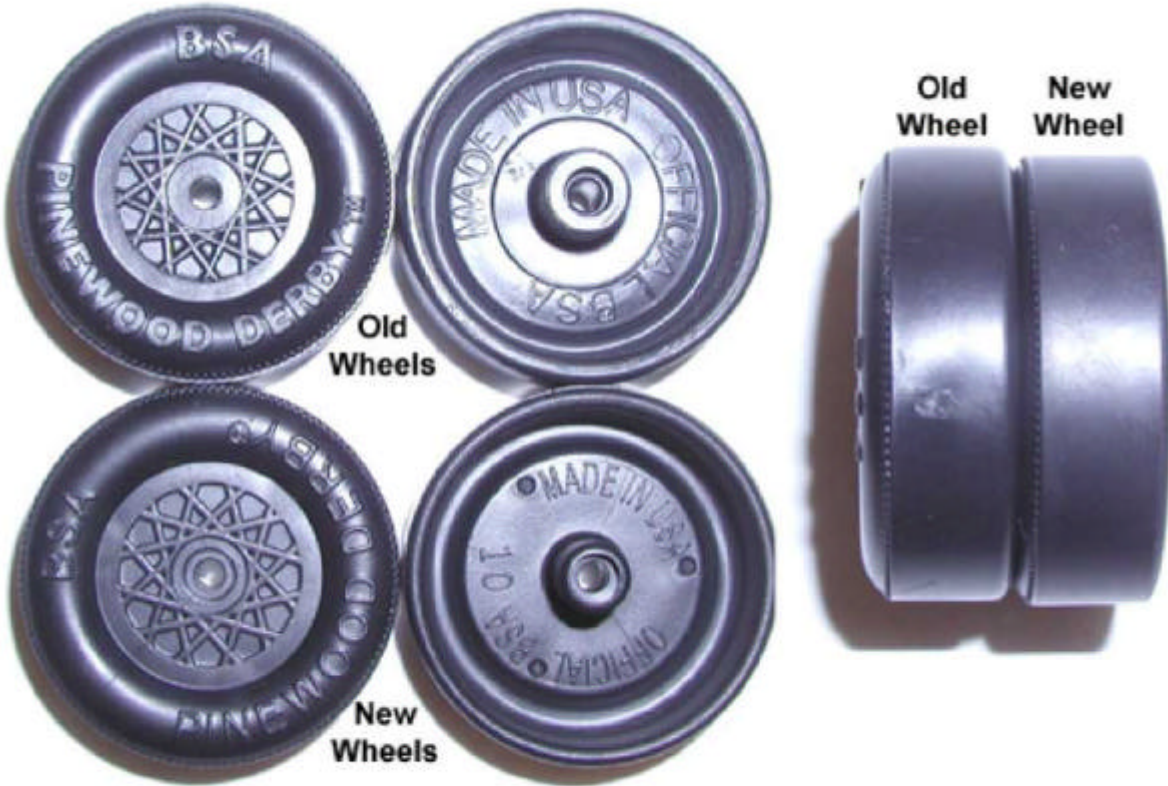
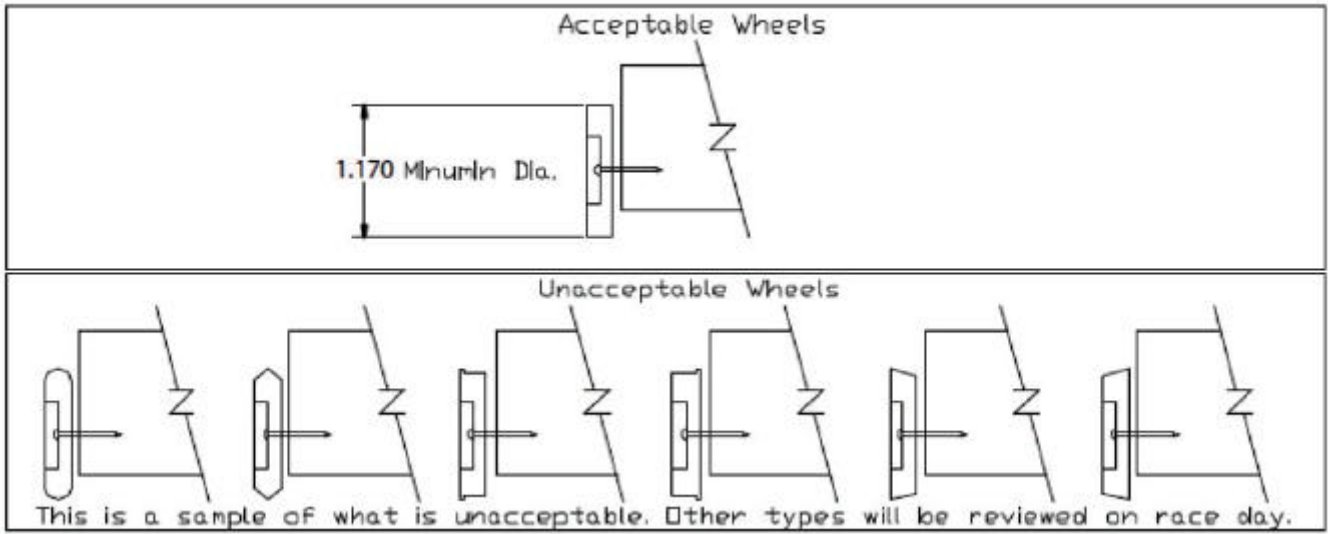
2012 Pack 813 Pinewood Derby Rules

Pack 813 will follow the rules used by the Wright Brothers District for the District Finals. We will be using a track operated by Mike Sprowl again this year, which features an electronic / computer timer and race management system. Every car will race in four heats (once down each lane). The winners will be determined by the fastest average of the four races.

Our Pack will send four (4) boys to the Wright Brothers District Finals (April 14, 2012, Ascension PAC). Any combination of Webelos, Cubs, and Tigers is acceptable, provided that we send at least one (1) Tiger Cub Scout. Webelos II scouts who have crossed over to a Troop are eligible to race at the Pack and District level.

Please let the boys do as much work on the car as possible, they learn more this way. All cars must pass inspection to qualify for the race. The inspection points are as follows:

- A. The car must have been made during the current year (the year in which the derby is held).
- B. Width - overall width shall not exceed 2.75" (2-3/4 inches).
- C. Length - overall length shall not exceed 7 inches.
(Note: check your length, cars out of the box are sometimes over 7 inches.)
- D. Height - overall height shall not exceed 3.5 (3-1/2) inches.
(Note: the starting gate on the track is the reason for this limit. You can exceed this limit for judging, if the item can be removed when racing.)
- E. Weight - Shall not exceed 5 ounces.
- F. Wheel bearings, washers, bushings or hubcaps are prohibited.
- G. No solid axles, only the official Grand Prix Pinewood Derby kits with nails for axles can be used. Wheel base can not exceed 4.75" (4-3/4 inches) Center to Center of axle.
- H. The car shall not ride on any kind of springs.
- I. Dry Lubricant only. No liquid lubricant allowed.
- J. Wheels can be sanded to remove surface imperfections, but the threads must be left flat. Wheels can not be any smaller than 1.170" diameter. Can not remove any significant amount of plastic - inside or outside of wheel. Only the official wheels supplied with the Grand Prix kit are acceptable. Car with modified wheels will be disqualified to run. No hubcaps of any sort are allowed. The pictures on the back side show acceptable and unacceptable type wheels and old versus new wheels.
- K. Must have a 0.375" (3/8 inch) clearance under the car body. Low hanging weights must be moved to an other part of the car or recess into the bottom of the car to pass the 0.375" clearance.
- L. Any details added must be within length, width, and weight limits.
- M. No loose materials of any kind are allowed on the car. If anything falls off during or after a race, it stays off.



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BSA recently changed the wheels in the Cub Scout Grand Prix Pinewood Derby kits. Due to this change, we have updated the minimum outside diameter to 1.170" for both types of wheels (old and new).

IMPORTANT DATES

Weigh-In: Sunday February 26, 2012, Walsh Hall. Bring your car to the weigh-in according to the schedule below. We will weigh and measure your car (**all cars must adhere to the District rules given on the previous pages**). We will have some tools available if last-minute modifications are required. We will then pack away your car until the race night. **NO CARS CAN BE ENTERED INTO THE RACE AFTER THE WEIGH-IN.**

4:00-4:40 p.m.: Tiger Cubs and Seed Scouts (Seed Scouts racing exhibition only)

4:40-5:00 p.m.: Wolves

5:00-5:20 p.m.: Bears

5:20-5:45 p.m.: Webelos

Pinewood Derby Race Night: Friday March 2, 2011, Cafeteria (doors open at 6:45 p.m., race begins at 7 p.m.)

PRIZES (applicable to registered cub scouts only):

Speed Prizes: trophies will be awarded to the cars in the Pack with the top three lowest average race times. A fourth trophy will be awarded to the Tiger Cub with the lowest average race time. If one or more of the top three racers is a Tiger Cub, then the fourth Trophy will be awarded to the car in the Pack with the fourth lowest average race time. The four trophy winners will advance to the Wright Brothers District Finals.

Best Fuel Economy Award: the car with the **longest average finish time (i.e. the slowest car)**. To be eligible for this prize, the *car must complete the race (make it across the finish line) in each of the four heats*, or it will not be considered for this prize. You may design your car for reduced speed, providing it meets all the rules given on the previous page.

Car Decoration Prizes: We will award the following car decoration prizes, as determined by a panel of judges appointed by the Cubmaster comprised of scout leader(s), teacher(s), upper class boy scout(s), and other adult(s) NOT related to any boy in competition. The judging panel protocol will be published on the Pack 813 website. **Note that cars that win speed trophies will not be considered for car decoration prizes** (we're trying to give as many trophies as possible to the largest number of boys). The categories are as follows:

1. **Most original car**
2. **Coolest sports car**
3. **Hottest sports car**
4. **Most patriotic car**
5. **Best scout spirit car**
6. **Scariest car**
7. **Most colorful car**
8. **Most futuristic car**
9. **Best truck (includes trucks, busses, military vehicles, construction, etc.)**
10. **Judges' Choice**
11. **"No Category" car (car is so unusual that it does not fit any category)**

Note: Seed Scouts and siblings are welcome and encouraged to participate in our Pinewood Derby. However, they are not eligible for cub scout trophies and prizes. They can however organize their own prizes if some parent wants to take the lead (contact the Cubmaster if you plan on doing this).