

PACK 1776 PINEWOOD DERBY RULES

Pack 1776 will follow the Blackhawk 500 rules this year (see: <http://www.blackhawk500.org/2008/2008BlackhawkPinewoodRules.pdf> Rule). A summary of these rules is attached. This means:

- 1) All materials used to build a Pinewood Derby (PWD) car must come from “the official PWD kit.”
- 2) The purchase of a manufactured car or car body is not allowed. Each scout (with help from their adult leader) must build their own car!
- 3) Additional official BSA axles (the nails) and wheels can be purchased from the Scout Store or other sources provided they have not been machined (pre-sanded, lathed, or modified in any way). Each entrant must modify their own axles and wheels for racing.
- 4) The new official BSA colored wheels are allowed, provided they are only modified by the entrant. These are exactly the same as the black wheels, except for the color.
- 5) The length, width, weight and distance between axles is found in the attached rules summary.

These rules will insure no one can “buy” a fast car off the Internet. There are enough books, DVDs, and websites available to insure everyone can have the knowledge necessary to build a competitive car.

Q. What if my scout wants to build a fancy car that may not be fast?

A. Great! *Prized will be awarded in various categories for creative, realistic and futuristic cars.*

Q. This is our first time building a car. Will my scout be embarrassed?

A. *No. Every scout gets a trophy just for participating. Watching every scout's smile as their car speeds down the track is priceless, whether the car wins or not.*

Q. *Are wet lubricants allowed?*

A. *No. Wet lubricants (e.g., oils) can damage the track surface. The use of a dry lubricant like graphite is allowed.*

Q. Does the PWD car have to look like a race car?

A. *Not in the PWD! Scouts can race banana cars, Hershey Bar cars, SpongBob Square Pants cars, US Army “tanks”, or whatever their creative minds desire.*

Q. Can I use parts from a previously built car (reuse, recycle, minimize)?

A. *Yes, provided the parts are not the actual car body, axles or wheels. Using weights and decorations (e.g., a "driver" or steering wheel) is permitted.*

Q. Are decorations allowed on the car?

A. *Of course! Scouts can decorate their cars with paint, decals, or anything else provided the decorations do not violate the length, width and weight rules.*

Q. What kind of track will we be racing on this year?

A. *Pack 1776 ordered a new aluminum 49' 4-lane track! It is state of the art and will last several decades. The old wooded track, built by Russ DeLonzer 10 years ago, will be donated to either an inner-city pack, or a new local pack.*

Q. What is the pack doing to make this a great experience for the kids?

A. *The January Pack 1776 monthly meeting is being held at the Blackhawk Museum, one of the finest automotive museums in the country! The museum has graciously agreed to give the scouts and their adult leaders a special tour. Of course, the pack will have their annual "Down and Derby" movie screening.*

Q. What are the important dates?

A. *January 30th is the inspection and impounding at the DeLonzer Motor Speedway (Russ's garage). Times TBA. The race is the next day, January 31st, in the CCES MPR.*

BLACKHAWK 500 PINEWOOD DERBY, SUMMARY OF RULES FOR RACE DIVISION

Registration

- Only one car may be registered per scout.
- Building of the car must have begun during the current Scouting year.
- The car must be registered, pass inspection and impounded during the registration period to compete. No further modification or lubrication of the car is allowed after impounding.

Car specifications

- Width: 2.75" or less (including the wheels)
- Length: 7.00" or less
- Height: 4.00" or less (including all trim items)
- Under car clearance: 0.375" (3/8") or more
- Inside wheel-to-wheel clearance: 1.75" or more

- Axle-to-axle spacing: 4.40" +/- 0.125"
- Car weight: 5.00 ounces or less

Building of cars

ALL work (including improvements to wheels, axles, and car body) must be done by the scout and the parent (Akalea). The intent is to have the scout build as much of the car as reasonably and safely as possible. The use of pre-shaped car bodies, machined wheels or axles acquired from the Internet or other sources is NOT allowed.

Materials

- Axles, wheels and body MUST be from the materials provided in the Official Grand Prix Pinewood Derby Kit.
- Additional trim items are allowed as long total weight doesn't exceed maximum weight and size.
- No loose materials (weights, characters or trim) are permitted. Weights must not move.

Wheels and axles

- Axle nails must be mounted parallel to the track surface. Wheels must run flat on the track surface. NO canting. Axle treatment is allowed (i.e. deburring/polishing).
- Wheel treatment is allowed (hub and tread smoothing/polishing) but it may NOT result in substantial removal of mass, or reduction in wheel width or diameter. At least 80% of the original wheel width must contact with the track surface. Wheel hub cannot be shortened or the diameter opened.
- The car must run on three or four wheels.
- Wheel hub caps, washers, inserts, sleeves, and bearings are NOT permitted.
- The car may not ride on springs or other suspension.

Gravity powered

- The car must be powered ONLY by gravity.

Lubricants

- Only dry lubricants are allowed. Lubricants may not foul the track.

This is a summary of rules for cars in the Race Division. It is NOT intended to be a substitute for the Official Blackhawk 500 Pinewood Derby Rules, available on the website (www.blackhawk500.org/).