



PACK 546 PINWOOD DERBY (Revision 1.2)

Rosecroft Estate, 530 Silvergate Ave 11:30 – 3:30, Sunday, March 20, 2011

THE BASICS

The family of one of our Webelo Scouts has graciously offered to host one of our most fun and memorable events at their home, the Rosecroft Estate!

The fastest car in the Pack goes to the San Diego 500 and races against the best cars from the Mission District and the Imperial Council! There will be lots of awards in many categories.

Since this is an ALL FAMILY event, please RSVP to your Den Leader. Bring your appetite and a lawn chair. Lunch is a “pot-luck” BBQ. The Pack will supply hamburgers and hotdogs. Each den will receive potluck and work assignments via their Den Leader.

The pool will be open, lifeguards will be on hand! Bring your suit. Parents are asked to watch younger siblings.

Parking: Please park your family vehicles on Silvergate Avenue.

Cars will be weighed in starting at 11:30. Check in will end PROMPTLY at 12:30.

Lunch/ food– BBQ 12:30 —(main entree tickets will be handed out to Den leaders)

RACING – 12:30 to finish

CAR SPECIFICATIONS – Cars must meet these guidelines to race

1) **MAXIMUM WIDTH:** Overall width of the car, including the wheels, shall not exceed 2-3/4 inches. The body width where the axles attach to the wheels shall not be less than 1-3/4 inches.

2) **MAXIMUM LENGTH:** Overall car length may not exceed 7.00 inches. Kits blanks are often over this length.

3) **MAXIMUM HEIGHT:** The overall height of the car and any accessories may not exceed 3.00 inches. This will keep cars from crashing into the finish line and electronic lane judge.

4) **MAXIMUM WEIGHT:** Total weight of the car shall not exceed 5.000 ounces. (this will be verified by a certified scale on check-in)

5) **WHEELS:** ONLY official Boy Scout Grand Prix racing wheels are allowed. All wheels must be used. Wheels may not be altered (rounded, narrowed etc.) except for the removal of burrs. Wheels may not be lathe-turned, thinned, sawed, perforated or machined in any way. Outside wheel diameter should not be less than 1.180”. Ready-made modified wheels are not allowed. Wheels must be attached so that there is a minimum of 3/8 inches (.375”) between the car bottom and the rolling surface to provide track lane guide clearance. At least three of the wheels must make contact with the surface of the track.

6) **AXLES:** Only metal “nail” type axles provided in official BSA Grand Prix Pinewood Derby Kits are allowed. All specifications listed in the kits (as to height of axles for track clearance) must be followed. The use of wheel bearings, washers, or bushings is strictly prohibited. Paper label hub caps may be used but the head ends of the axles must be available for inspection.

7) **AXLE LUBRICANTS:** Axles may be lubricated. Only dry lubricants such as graphite or BSA “Axle Lube” are allowed. Oils and other wet lubricants are not permitted.

8) **SUSPENSION:** The car shall not ride on any type of spring or other suspension.

9) **GRAVITY ONLY:** The car must be freewheeling and must not contain any type of auxiliary propulsion or starting device. (no jets, rubber bands, magnets, adhesives, springs, motors, etc.)



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10) DECORATIVE DETAILS: May be added as long as they do not exceed the maximum weight and dimensions for the car. (decals, trim, characters, and decorations are allowed if they meet the finished car size and weight rules).

11) NO LOOSE MATERIALS: The car may be hollowed out and/or built up to the maximum weight with additional materials. Any additional materials must be securely built into or securely attached the body or chassis. (Mercury, plutonium, depleted uranium, or any other hazardous materials shall not be used for weight addition or any other construction purposes as they are potential health hazards).

12) BSA GRAND PRIX PINWOOD DERBY CAR KITS ONLY: (No “Pine Car” brand wheels or axles will be allowed). Any additional metal must be used as weight only. Axles must be mounted into wood.

No portion of other kits will be allowed except for decorative purposes. Structural strength is gained only by the wood body. No metal frames or metal axle supports are permitted.

All cars will be measured, weighed, and must comply with these standard racing specifications. These requirements are designed to give CUB SCOUTS, with some adult help, an equal opportunity to design and construct cars while providing enough freedom to create unique and competitive cars. Adults should not design and complete the cars without their Scouts help.

Do not submit cars with wet paint.

Do not submit cars with excessive graphite on the wheels.

REMEMBER: At check-in each car will be weighed and inspected by the official inspection team before it competes. A work area and some limited tools will be provided to make minor adjustments to cars that don't comply with these racing specifications at check-in. The inspection team will disqualify any car that cannot meet these racing specifications. No further adjustments or work may be performed by anyone on any car once it is checked in. **Cars cannot be touched by owners after it has been accepted by a racing official.** At the completion of the races, cars will be returned to owners.

PLEASE NOTE: IF A CAR DOES NOT REGISTER THE PACK'S TIMING MECHANISM, THE CAR'S STANDING WILL REFLECT THAT FACT. NO EXCEPTIONS.



JUDGING CATAGORIES:

Most Colorful	Cartoon Character	Realistic	Best Finish
Scouting Theme	Patriotic	Animal Theme	Shortest (length)
Most Figures	Most Holes	Thinnest (height)	Least Modified
Space Theme	Food	Historic	Movie
Most Stickers	Judges Choice	AKELA Choice	JUDGES' CHOICE