

2006 SYLVANIA PACK 154 PINEWOOD DERBY RULES

Dates: Weight-In & Registration = Friday, January 27th,2006

Race Day = Saturday, January 28th,2006

Location: St. Stephens Lutheran Church(next to Highland Elementary)

Eligibility: Cars and Contestants-

The 2006 competition is open to all active Pack 154 Cub Scouts: Tiger (1st grade), Wolf (2nd grade), Bear (3rd grade), Webelos I (4th grade) and Webelos II (5th grade). There will also be an open class race speed only(for parents, grandparents, siblings etc.)

Cars in this competition must have been constructed for this race season and must be constructed with parts contained in the BSA Official Grand Prix Pinewood Derby Car kit (#17006). Kits from previous years and from non-official retailers may contain parts that are not sanctioned and may be judged as ineligible.

Scouts must be present & register their cars on Friday evening. There will be no exceptions to this rule as registration allows prior compilation of a racing schedule and helps to facilitate appropriate time allotments for racing.

Scouts must be in uniform to race.

Scouts will compete against others in the same rank. Racing and Best Design judging will occur in five classes: Tiger (1st grade), Wolf (2nd grade), Bear (3rd grade), Webelos I (4th grade) and Webelos II (5th grade). In cases where the Cub Scout rank is indeterminate, enter the scout according to his grade in school.

It is expected that the scout be present to enter his car in the competition. In the case of illness, an absent scout may be represented by an authorized proxy defined as a sibling or a Cub Scout of similar age who is not already competing in the same set of heats. Proxy authorization must be obtained prior to the race by the Pinewood Derby Chairman.

Any scout, who advances to the Championship round, must be present in order to participate. There will be no exceptions.

A car may be entered in one event only.

DERBY CAR SPECIFICATIONS

These specifications will apply to both Speed and Best Design competitions.

LENGTH, WIDTH and CLEARANCE:

Width—Maximum overall width, including wheels and axels, shall not exceed 2-3/4 inches.

Minimum width between the wheels shall be 1-3/4 inches so the car will clear the center guide strip.

Maximum length shall not exceed 7.0 inches (be advised that some kits contain blocks of pine which are longer and must be cut in advance to meet this standard).

Minimum clearance between the bottom of the car and the racing surface shall be 3/8 inch to allow clearance for the center guide strip.

Maximum height shall not exceed 2-3/4 inches. This specification will allow the car to pass under a timing device in an unrestricted fashion.

Wheelbase (distance between the front and rear axels) may not be changed from the kit body distance of 4-3/8 inches.

WHEELS and AXLES:

Only wheels and axles from the official Pinewood Derby kit may be used. Beveling, routing, tapering, perforating or any other significant altering of the shape and performance of the wheels is prohibited. The tread may not be modified to enhance its performance and must be a completely flat surface. The tread width must not be narrowed beyond its original width.

Axles and wheels may be lightly sanded and polished and still conform to race specifications. Speed axles (machined or filed grooves) are strictly prohibited.

Wheel bearings, washers or bushings are prohibited. This includes wheelcovers or "hubcaps" which serve to keep the wheel hubs from contacting the car body and serve as a lubrication "well" or "tap".

The car must be free-wheeling with no starting device or other propulsion such as adhesives, magnets, rubber bands, motors, jets, etc.

Metal frames and axle supports are prohibited. Axles must be mounted directly into the wood slots provided in the car body.

Axles may not be joined together with any device and the four independent axels must be clearly visible in the slots provided in the bottom of the car. Painting the bottom of the car is permissible as long as this restriction is met.

When placed on a section of racetrack and rolled, all four wheels must be visibly turning. Cars with one wheel permanently raised above the racing surface will be disallowed.

WEIGHT and APPEARANCE:

Weight may not exceed 5.0 ounces.(141.7 grams) The readings of the official race scale will be considered final. Five (5.0) ounces will be determined by the official race scale on the day of the race. Every effort will be made to assure that the digital scale is reliable and accurate. The important point is that all will race according to the same standard. Please keep this in mind while weighing your vehicle on other scales.

The car may be carved, sculpted or sanded in order to enhance its performance and/or appearance as long as the car continues to meet the size restrictions for the race.

No loose materials of any kind are permitted on or inside the car.

Additional materials may be added to the car for the following purpose(s) only:

Weights may be added to increase the weight and/or alter the weight distribution of the car.

Paints/decals/decorations may be added to alter the appearance and/or aerodynamics of the car.

Glue may be used to adhere the axles to the car body.

Wood putty, or a similar substance, may be used to repair minor damage to the car.

Indented noses are prohibited. Cars like the one pictured below will "stage" further down the track and thus are not traversing the same distance as the other cars.



Wheels must not extend beyond the front of the car body.

LUBRICATION:

Only dry powdered lubricants, such as graphite or white powder Pinewood Derby Car lubricant, may be used. Oils and silicone sprays can foul the track and are prohibited.

A car may be lubricated just prior to inspection. This is the only time on race day that a car may be lubricated.

GROUND RULES:

If a car leaves a track, the heat will be run again. If the same car leaves the track a second time, it will automatically lose that heat.

If a car suffers a mechanical problem and a repair can be accomplished within 5 minutes, the heat will be run again. If not, the car will automatically lose the heat.

INSPECTIONS and DISPUTES:

Each car must pass inspection by the Official Inspection Team before it may compete. The Inspection Team has the right to disqualify those cars that do not meet the rules. Car owners will be informed of the violations and given an opportunity to modify the car to meet these rules. Modifications must be successfully completed prior to the end of the race inspection period.

Ungentlemanly or un-sportsmanlike conduct by any participant or member of the audience will be grounds for expulsion from the competition and/or race area.

Track officials are responsible for the proper conduct of the competition. The decisions of these Officials on questions of rule interpretations and procedure may be appealed to the event Chairman, but the Chairman's decisions on all matters are final.

CONDUCT OF THE RACES:

The racing format will be a modified Stearns method consisting of several rounds of a "round-robin" competition. After several rounds of racing on all lanes a winner will be determined by the lowest overall time.

Car handling responsibility will fall solely upon the Scout who will be responsible for staging his car at the start, retrieving the car at the finish and returning the car to the pit area after the heat has been run. A scout with physical limitations may nominate a proxy subject to the approval of the race chairman.

RACING SURFACE:

The racing surface is an aluminum extruded track. Total racing distance (depending on the track used) will be approximately 34 feet and the starting pin used will be a 1/4" diameter rod extending at least 1" in height above the center of the guide rail on the starting line. The guide rail is a raised aluminum strip 1-3/8 to 1-5/8" wide and 1/8" high extending the length of the track which the car will straddle on its course to the finish line.

The starting gate will be approximately 48" above the floor. The slope will drop at approximately 30 degrees until the floor is reached and will then continue horizontally to the finish line. The finish line will be an optical sensor centered within each guide strip with will measure accurate time down to the millisecond (0.001 seconds). These results will be uploaded via a serial port to a computer that will determine the winner and project the results to large screens visible to the entire audience.

CONDUCT OF BEST DESIGN COMPETITION:

The Best Design competition awards this year will be determined by a popular vote. Each car entered in the competition will receive an official Best Design ballot. Votes will then be cast for the three cars, which the individual or family casting the ballot concludes are most deserving of the award. Design judging will occur with the cars displayed side by side in assigned places on a display table grouped with their competitors. Design awards will be presented at the completion of each race and will be based on, but not limited to, craftsmanship, novelty and creativity.

AWARDS (both Speed & Design):

Trophies will be presented to the First place winner for each rank of scout. The first and second place winners of each class will be invited to participate in the District pinewood derby. Pack champions in speed and design will also receive 'Pack champion' trophies.

QUESTIONS: Jerry Jenkins, Chairman
2006 Sylvania Pack 154 Pinewood Derby
419.842.1031
email=JJJ66@buckeye-express.com