

2010 PINEWOOD DERBY RACING RULES

PACK 61 - FLEMINGTON, NEW JERSEY

1. 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 scouting year in which the derby is held).
 - b. The car's maximum overall width (including wheels) shall not exceed 2-3/4 inches.
 - c. The car's maximum overall length shall not exceed 7 inches.
 - d. The car's maximum height shall not exceed 5 inches.
 - e. The car shall have a minimum track clearance of 3/8 inch.
 - f. The car's wheel base must be 4-3/8 inches and the wheels shall be at least 1-3/4 inches apart.
 - g. The existing axle grooves must be used for the car's wheelbase. They may be straightened or widened to allow installation of the axles, but may not be substantially moved or modified.
 - h. The total weight of the car shall not exceed 5.00 ounces (141.75 grams), as measured by the official race scale.
 - i. No part of the car may extend beyond the starting post of the track and must be no higher than 1/2-inch where it meets the starting post. "U" or "V" shaped front ends are not permitted.
 - j. All details added must be within the length, width, weight and track clearance requirements and must be securely fastened.
 - k. The axles, wheels and body shall be as provided in the official BSA Pinewood Derby kit. Pre-cut kits, such as "Pine-Car" are not permitted.
 - l. Official BSA colored wheels are acceptable. They must have the "Official BSA" lettering molded into the wheel.
 - m. Wheel bearings, washers and bushings are prohibited. Hub caps or axle covers are not permitted. The car shall not ride on any kind or type of spring.
 - n. The car must have all four (4) wheels. All four wheels must contact a flat surface when the car is placed on it.
 - o. Modification of the wheel cross section by cutting, sanding, etc. is prohibited. Plastic casting burrs may be removed, but the original wheel width and profile must be maintained and some of the original "tread marks" must remain. The wheels may not be cut, drilled, beveled, tapered, thin sanded, wafered, lathe-turned or rounded.
 - p. Only white Teflon or powdered graphite dry lubricants are permitted. No liquid lubricants are allowed. Lubrication will only be allowed at the time of registration. Once inspection is completed, no additional lubrication is allowed. If wheel or axle repairs are necessary during the race, only the replacement part may be re-lubricated under the supervision of a race official.
 - q. All weights and/or components must be securely fastened to the car. Loose material, such as lead shot, liquid, or taped-on weights, are allowed on the car. No weights may be added to the car after it has been registered. All weights shall be passive (i.e., non-moveable, non-magnetic, non-electric).
 - r. The car may not be constructed or treated in such a way that the track's starting mechanism imparts momentum to the car. Cars with sticky substances or protrusions that may catch on the starting gate will be disqualified.
 - s. No external source of power (e.g., magnets, engines, jets, compressed air) or propulsion systems may be used.

2. Cars will be inspected, registered and assigned a number according to age/rank by race officials. A Pit Crew will be available to assist with final adjustments of cars prior to registration.
3. After registration, **only** race officials will be permitted to handle the cars.
4. Cars will be raced in heats according to age/rank class. Classes are listed below.
 - a. Tiger Cubs
 - b. Wolf Cubs
 - c. Bear Cubs
 - d. Webelos

Participants will be announced prior to each heat to enable the boys to watch their cars. Each car will race the same number of times against a variety of competitors. Each car will race in each track lane as determined by the race management software, to minimize effects from the track.

5. The car whose nose passes the finish line first will be the winner. Placing will be determined by an automatic electronic finish line. In the event of a malfunction, judges will determine the placing visually. If the electronic finish line sensor's result is challenged by the Finish Line Judge, the race will be re-staged and re-run.
6. Overall placing for each heat will be determined by the electronic finish line and race management software combining the results from individual races to determine those cars with the fastest average time. Multiple heats may be necessary to determine overall placings for each age/rank.
7. If a car leaves the track, runs out of its lane, interferes with another car, loses an axle, etc. the heat will be rerun. If the same car gets into trouble on the second run, the car will be disqualified and withdrawn from the race. If, on the second run, another car is interfered with, the heat will be rerun a third time but without the disqualified car.
8. If a car is damaged due to track fault, or damage caused by another car or person, then the Race Director, at his/her sole discretion, may allow additional repair assistance and time to the Cub. Following completion of the repairs, the car shall be re-qualified for racing in accordance with these rules.
9. All decisions by the race officials regarding car inspection, lane assignments, placings, car disqualification, etc. shall be final.
10. Shortly after racing is complete and the results are verified, awards will be announced and presented to the winners. The drivers and their partners will come forward to receive their awards and be photographed.
11. If time permits after racing is completed, the track will remain open for challenge races. Any child or adult may challenge any other child or adult to race. Placings will not be recorded. You can race until the wheels fall off your car!