



2010 PINWOOD DERBY
WESTMORELAND DISTRICT
RACE RULES



I. DERBY DATE

- A. *To Be Determined*
- B. *Registration period is 8:00 a.m. to 10:00 a.m.*
- C. *Entry Fee is \$5.00 + a can of food¹*
- D. *Races and judging are scheduled to begin at 10:00 a.m.*

II. DERBY FORMAT

- A. *District Championship Race*
- B. *District Best-of-Show*
- C. *District Open Class Race*

III. BASIC PRINCIPLES

- A. *The first rule of any Scouting event is to HAVE FUN and ENJOY your experience. Please be aware of your surroundings when attending this event. We are guests and must adhere to any established rules.*
- B. *We depend on these facilities or businesses for our continued success. Any business or facilities where we are a guest deserve our every courtesy. Follow the Scout Law and Oath at all times!*

IV. ENTRY QUALIFICATIONS & REQUIREMENTS

A. *Derby Qualifications*

1. Cars must have been built during the current scouting year
2. Cars must have participated in a Pack's competition to take part in the District's Derby.
 - a) Cars racing in the District Championship Race must have placed 1st, 2nd, 3rd, or 4th at any qualifying Pack race.
 - (1) *A Pack may designate an alternate to participate in the District Race should one of their 1st, 2nd, 3rd, or 4th place finishers be unable to participate in the District's competition.*

¹ As part of the derby, the Westmoreland District Pinewood Derby Committee requests that each scout participate in a canned food drive as part of the "Good Turn for America" campaign

- b) Cars competing in the District Best-of-Show must have placed 1st, 2nd, 3rd, or 4th at any qualifying Pack competition.
 - (1) *A Pack may designate an alternate to participate in the District Race should one of their 1st, 2nd, 3rd, or 4th place finishers be unable to participate in the District's competition.*
 - c) Open class is open to all Cub Scouts that did not qualify for the District Championship Race through their Pack qualifying races.
3. Only one car per Scout may be entered in the District's Derby. This means a Scout can compete with a single car in only one of the Derby's competitions (i.e., District Championship Race, District Best-of-Show, or the District Open Class Race).
 4. All cars must meet the all of the specified requirements listed in the District's Rules to compete in the District Championship Race, District Best-of-Show or the District Open Class Race.

B. Car Requirements

1. The car must be propelled by gravity alone. No mechanical or artificial movement is allowed.
 - a) Wheels must spin freely. Nothing may alter the wheel's normal spin and rotation. No springs, magnets, mercury, propellants, or items serving a similar function may be used.
 - b) On BSA official lights and noise makers are permitted on the car. No other electronics are permitted
2. Body Requirements
 - a) Cars must be made from the official BSA car kit
 - (1) *Modifications may be made as long as they conform to all prescribed race rules*
 - b) Car Specifications & Measurements
 - (1) *Car Width – Not to exceed 2.75 inches*
 - (2) *Car Length – Not to exceed 7.00 inches*
 - (3) *Car Weight – Not to exceed 5.00 ounces*
 - (4) *Car Height – Not restricted, but need to be able to clear the finish line. Guideline is 2.75 inches*
 - (5) *Center Rail Clearance – 1.75 inches between the wheels*
 - (6) *Bottom Clearance – Minimum underbody clearance of 0.375 inches is recommended to clear the center guide rails.*
 - (a) *The Race Committee is not responsible for underbody inspections*
 - (7) *The original axle slots in the BSA car kit must be used*
 - (8) *There must be a flat section of car that is at least 0.5 inch wide on the car's body and be at the center and front of the car. This portion of the car must be in contact with the starting pin.*
 - (a) *No part of the car may extend past the starting pin, including wheels and add-ons. The 0.5 inch section of the car must fit up against and hold the car at the starting pin*

3. Wheels & Axles

- a) Cars must have 4 wheels. Each wheel should come in contact with the track. Obvious alignment issues will be required to be adjusted prior to registering the car.
- b) No object may be placed between the axle head and the wheel or between the wheel and the car body.
 - (1) *For example, no washers, bearings, bushings, sleeves may be used.*
- c) Only BSA approved axles may be used on the car. Axles included with the scout shop car kit are BSA approved axles.
 - (1) *However, axles may be polished in a manner to remove burrs and decrease friction from the wheel.*
- d) Only BSA approved wheels may be used on the car. Wheels may be lightly polished or lightly sanded to remove normal molding imperfections. They may not be tooled or machined in any manner which will reduce the mass or weight, the initial inertia or the original shape of the wheel.
 - (1) *The BSA logo must be plainly visible on the outside of the wheel and there must be evidence that the car has previously raced and not altered after the race.*
 - (2) *Honing or machining a wheel so it becomes flat, convex or concave or minimizes the surface-to-surface traction will be subject to further review by the Committee.*

C. Race Day Specifics

1. All add-ons, decorative elements and car parts must be firmly affixed to the car body. (A wheel and axle is considered one "part" on a car).
 - a) Any element which falls off a car during a race cannot be replaced. Only wheels/axles may be replaced under a Committee Member's supervision.
2. Lubricants, paints, stains and other finishes must be completely dry at race time.
 - a) Only dry graphite is allowed to be used as a lubricant.
 - b) Additional graphite addition by the participant will not be allowed once the race car is turned over to the Committee for inspection.
 - c) Once a car is registered, the Committee will apply a final application of graphite to each car prior to the initial race.

V. Inspection, Racing, and Miscellaneous Information

A. *The Pinewood Derby Committee has the final review of all race car entries.*

1. The District's scale, measuring devices and/or track may differ from what was used at a Pack-level race. Weight or measurement issues directly related to a difference between the District's equipment and a Pack's equipment may be reviewed by the Committee on a case-by-case basis.

2. Every attempt will be made to qualify all cars during the registration process in accordance with the rules.
3. Any issue as indicated above will be discussed between the Committee and the entrant family in an attempt to resolve any such registration issues.

B. The Committee does not provide tools, hot glue or other materials for car adjustments, nor advice on how to prepare (or repair) a race car so that it will pass the District's inspection.

C. All decisions of the Committee are final with respect to the inspection process.

For questions or concerns related to these rules, please submit an e-mail to Alan Riethmaier, Westmoreland District Executive, at ariethmaierlistug@1bsa.org so that they may be passed on to the Pinewood Derby Committee to be reviewed and addressed. The Pinewood Derby Committee will make contact and discuss those concerns with the person who submitted the question or concern. The Committee's decision is final.