

Pack 287 Pinewood Derby

Rules

1. Material: Racecars shall be constructed for this event from the parts contained in the Official Grand Prix Pinewood Derby Kit (referred to below as the kit (as sold by the Hearn Scout Shop).
2. Weight: Racecars may weigh no more than five (5.00) ounces (total weight) as determined on the official scales during the race day inspection.
3. Wheels and Axles: The car shall roll on the wheels from the kit. The wheels shall turn about the axle nails from the kit. The axle nails shall be firmly affixed to the wood of the car body. The axle dimensions may not be changed substantially. The outside surfaces of the axle head (the non-contact surface) may not be changed substantially, such as be polishing. It must be obvious to the judges that the wheels and the nails from the kit are being used.
4. Size: Racecars may be no longer than 7 inches, nor wider than $2\frac{3}{4}$ (2.75) inches, as determined by the official gages during the race day inspection. (Underside clearance of at least $\frac{1}{8}$ inch and inside wheel clearance of at least $1\frac{3}{4}$ inches is recommended, so that the car will run any racetrack. Adequate clearance is the responsibility of the race car builder. Some tracks may have a center guide.
5. Weight and Attachments: Weights may be added to the car and will be considered part of the car for purpose of all measurements. "Weight" is considered to be any material on the car that is not provided in the kit. All weights must be securely fastened to the car, e.g. by permanent glue, nails or screws. Weights that have been taped to the car are not acceptable. Weights shall be passive, i.e. non-moveable, non-magnetic, non-electric, etc.
6. Wheels: Wheel treatment (hub and tread smoothing and polishing) may not result in substantial removal of mass or in reducing the tread (track contact) width from the original kit wheels. Wheel tread surface must be cylindrical. All lettering inside "Official B.S.A. Made in U.S.A." and outside "Pinewood Derby TM BSA" on the wheels shall remain intact and clearly visible to the inspector.
7. Unacceptable Construction: The following may NOT be used in conjunction with the wheels or axles: hubcaps, washers, inserts, sleeves, bearings.
8. Gravity Powered: The racecar may not be constructed or treated in such a way that the track's starting mechanism imparts momentum to the car. (For instance, this provision disqualifies cars with sticky substances on the front of the car and protrusions that catch on the starting pin.
9. Lubricants: Only dry powdered lubricants (graphite or powdered Teflon) may be used. Lubrication of the outside of the wheels is not allowed. Lubrication should only be applied to the inside of the wheel hub between the wheel and axle.
10. Staging: The entire car must stage behind the starting pin. (Cars that come to a sharp point are not recommended as our track has narrow staging pins. It is not the responsibility of the starter to spend considerable time getting the car to sit on the starting pin.)
11. Body: The car body may have no moving parts.
12. Conduct: Ungentlemanly or unsportsmanlike conduct will result in the disqualification of the car from all competition and the offender will be asked to leave the race area. All decisions by race officials are final.

Registration, Weigh-In, and Race

1. Each participant is allowed to enter only one car in the derby.
2. The participant will fill out the top half of the registration form. (The bottom half will be completed by Race Officials.)
3. Once the car has been weighed in and has passed inspection, no further access to the car will be granted for re-lubrication. Once a car has passed inspection it will not be re-inspected unless repaired due to damage during handling or racing. (If a car breaks during a race the pit crew will attempt to make timely repairs under direction from the car's owner. If the car cannot be repaired by the next heat it is to run and cannot run down the track as-is, it will receive a non-win.)
4. Owners of cars that do not pass inspection will be given an opportunity to bring the car into compliance. If the car cannot be brought into compliance before closing of the weigh-in, the car will not be allowed to participate.
5. Cars will race other cars in the same division (Rookie or General) only.
6. The races will be run in a double elimination format. The number of cars advancing to winners and non-winners brackets will be determined by the number of cars in the heat. Generally half of the cars running in a heat will be awarded a win.

Design Awards

Best All Around
Funniest Design
Most Innovative Design
Best Looking
Most Futuristic Design

Most Unique Design
Most Classic Design
Wildest Design
Most Colorful
Most Unusual Paint

Most Sleek Design
Best Paint
Most Unusual Design
Most Original Design