

2012 Pack 180 Pinewood Derby Rules

The Cub Scout Pine Wood Derby: All of the following rules will be followed very strictly as these cars can be raced in District events in Roanoke and Lynchburg.

The Car

Kits: Only cars built entirely from the official BSA Pinewood Derby kit shall be eligible for competition. The car must be constructed during the year of the race.

Body: The body may be shaped, hollowed out, or built up from the original block as long as it meets all other specifications. The nose of the car cannot be grooved or slotted in any manner which causes it to have the front of the car past the starting peg and that will place the front of the car closer to the finish gate.

Dimensions: Overall width shall not exceed $2\frac{3}{4}$ (2.75) inches. Overall length shall not exceed 7 inches. Overall height shall not exceed 5 inches. Underside clearance may not be less than $\frac{3}{8}$ (0.375) inches. **Weight:** Weight shall not exceed 5 ounces. Weight shall not be added to or removed from the car once it is registered.

Additional Details: Details such as a steering wheel, driver, decals, painting, and interior details are permissible as long as these details do not exceed the maximum length, width, height and weight specifications and they are securely fastened with no moving parts. No loose materials are permitted on the car.

Axles: The axles of the Car must be from the official BSA Pinewood Derby kit or an official BSA Pinewood Derby wheel replacement kit. Chroming, or any other type of special technical process, may not be used to apply a smooth finish to the nail or axle kits. Axle spacing of $4\frac{3}{8}$ (4.375) inches must be maintained on all cars. The axles should not be mounted at an angle or deliberately bent in order to tip any of the wheel treads to an angle.

Wheels: Wheels must be full width, as provided in the official BSA Pinewood Derby kit or an official BSA Pinewood Derby wheel replacement kit. Wheels may not be tapered or re-formed so as to reduce the footprint of the wheel against the track surface. Wheel seams may

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be removed from the wheel, as described in the kit, providing that the preceding rules are not violated. No other modifications to wheels are permitted. All cars must have four wheels and all wheels must make full tread contact with the track.

Additions: The car must be free-wheeling with no starting and or acceleration devices. The car shall not ride on any type of springs. Washers and bushings of any type (including paper) are prohibited.

Lubrication: The only lubrication that may be applied to the car is Dry Graphite. This may be applied only to the axles, wheel hubs, and contact points between the wheels and the car body. Graphite may not be applied by the scout or parents once the car has been registered. Use of liquid lubrication is prohibited.

Adjustments: Once a car is registered, nobody may tamper with the car, except to repair broken parts or to correct rule violations at the repair station. An adult is permitted to make the repair and/or correction. Any adjustments must be made under the supervision of one of the race officials.

Inspection Team: The Inspection Team has the right to disqualify those cars that do not meet the construction limits. Car owners will be informed of violations and given an opportunity to modify the car to pass inspection. Owners must return to the end of the registration line to resubmit cars. At the conclusion of the 1st round, all unresolved disqualifications are final. Unsportsmanlike conduct may be cause for disqualification.