

PACK 6 - PINEWOOD DERBY RULES

1. Each Cub Scout is to build a completely new car each year. No car, or parts thereof, used in any previous year, or in any adult race, may be used by the participant.
2. Width: Overall width shall not exceed 2 3/4 inches. No fins, etc, sticking out past the wheels on either side are allowed. The front of the car should be at least 3/8 inch wide at the center to make sure the finish line sensor is triggered correctly and can sit at the starting gate correctly.
3. Length: Maximum overall length shall not exceed 7 inches. No protrusions from front of car and no part of the car is permitted to extend beyond the starting line.
4. Clearance: The car must have a minimum clearance of 3/8 inch under the body and 1 3/4 inches between the inside of the wheels.
5. Attachments: The car must be freewheeling, with no starting device or motor of any kind.
6. Weight: Weight of the car must not exceed 5 ounces (U.S. Measure). No loose materials of any kind are permitted in or on the car. The car body may be hollowed out and built up to the maximum weight by solid metal only, provided that it is securely built into the car body. Weights and weight plates that are added to the bottom of the car are not permitted to stick out past the bottom of the wood. They must be recessed.
7. Materials: The car shall be made up of materials from the BSA Official Pinewood Derby Car Kit, item #17006 only. This includes body, wheels, and round head nails furnished in the kit. Decorations can be added as long as length and width requirements are not exceeded. Nail shafts may be polished only and cannot be turned down (reduced in diameter) or modified in any other way. Nail heads cannot be modified in any way other than removal of the stamping burr. If any axle nails appear to have been modified, the inspection team has the right to have the axles pulled out of the car for further inspection. The nail heads cannot be less than .190 inches in diameter.
8. Wheels: Wheels are not to be shaved or reduced in diameter or width. Sandpaper may be used to sand the wheels to remove the molding burrs, but the contour of the wheels cannot be changed. The surface of the wheel where it meets the track must be FLAT, and the decorative bead running around the outer edge of the tire must be completely intact. Wheel bearings, washers, and bushings are prohibited. Inner or outer wheel axle hubs cannot be modified in any way, other than cleanup of the burr.
9. Lubrication: Graphite lubrication for the current race event will be permitted to be done only in the graphite table area after the car has passed through the inspection station. This minimizes graphite being spread around on the flooring and track. No lubrication shall be permitted on the running surface of the wheels. Lubricate only in the immediate area of the axle only. Powdered Graphite is the official lubricant and will be the only lubricant permitted to be used.
10. Inspection: Each car must pass inspection by the official inspection committee before it may compete. Inspectors will have the right to disqualify those cars which do not meet the specifications at any time during inspection or during the duration of the race. The decision of the Pinewood Derby Chairman is final.
11. Registration: Pinewood derby participants must be registered for the race in the times listed below. If your car is not registered in the times listed, then you will not be able to race. Late entries will not be permitted.
 - **LION, TIGER, & WOLF DENS**
9:30am - 10:45am - Registration
11:00pm - Races
 - **BEAR DEN, WEBELOS, & AOL**
12:30pm - 1:45pm – Registration
2:00pm – Races
12. Each Scout must register his own car and must be present for entire race. No drop-offs allowed.
13. Decisions: The decisions of the Pinewood Derby Staff Judging Team shall be final!