



Cub Scout Pack 164

Palmdale, Ca.

Pinewood Derby Rules

- 1. Always rule 1:** Have Fun! As with all Cub Scout events, the first rule is to have fun.
- 2. Attendance:** This is a Scouting event, so all participants and Leaders are expected to be in full Scout uniform.
- 3. Kits:** Only cars built from the "Official Grand Prix Pinewood Derby Kit" will be eligible for competition. Kits will be available at the January Pack meeting for \$4.00 or at the District office on the East side of 10th Street West between Ave. L and Ave. M. Cars used in previous years are ineligible for competition.
- 4. Width:** Maximum width of the car shall not exceed 2.75 (2-3/4) inches.
- 5. Length:** Maximum length of the car shall not exceed 7.00 inches.
- 6. Weight:** Maximum weight shall not exceed 5.00 ounces as determined at inspection. Weight cannot be added or removed once the car has been inspected, registered, and impounded.
- 7. Height:** Maximum height shall not exceed 2.75 (2-3/4) inches.
- 8. Clearance:** Minimum ground clearance of 0.375 (3/8) inches is required.
- 9. Details:** Details such as steering wheel, driver, decals, painting, and interior details are permissible as long as these details do not exceed the maximum width, length, weight or height specifications listed in 4, 5, 6, 7, and 8 above and are securely attached.
- 10. Attachments:** The car must be free-wheeling and gravity powered with no starting or acceleration devices.
- 11. Springs:** The car shall not ride on any type of spring or suspension of any kind.
- 12. Bearings:** Washers, bearings, and bushings of any kind including paper are prohibited.
- 13. Lubrication:** The only lubrication allowed is Dry Graphite. This may be applied to the axles, wheel hubs and contact points between the wheels and car body. Graphite can only be applied prior to impound and immediately prior to the Grand Championship race.
- 14. Axles:** Only the axles {nails or the "new" BSA axle kits} provided in the kit may be used. Chroming or special technical process may not be used to apply a smooth finish to the nail or axle kits. Removal of the flashing and burs through polishing is allowed but the axles must remain identifiable as original BSA kit axles.
- 15. Eligibility:** Only registered Tiger Cubs, Wolves, Bears, and Webelos are eligible to compete. Only one entry per boy is allowed. Multiple entries made by the same boy will result in disqualification of all his entries. Races will be ran by class, Tigers Wolves, Bears, and Webelos will each compete and awards will be awarded for 1st, 2nd, and 3rd place. The top four finishers from each class will then advance to the Grand Championship to compete for 1st, 2nd, and 3rd place trophies. Each participant will receive a pinewood derby patch and certificate.
- 16. Responsibilities:** It is the sole responsibility of each participant to pick up his car at the end of the race. The Pack Pinewood Derby Committee is not responsible for lost or damaged cars.
- 17. Wheels:** Wheels must be of full width, as provided in the BSA kit. Light sanding and truing is allowed to remove seams and flashing per box rules as long as the wheels retain some sidewall lettering, the wheel retains its full width footprint, and the wheel surface in contact with the track remains flat and parallel with the axle. Wheels may not be tapered, concave, convex or made substantially lighter.
- 18. Staging:** Cars shall have a leading edge which is flat and parallel with the axles. The leading edge should be between 0.375 (3/8) and 0.75 (3/4) inches above the track. Cars the "ride up" on the staging pegs will be run backwards or disqualified at the judge's discretion. An electronic finish line will be used, therefore, it is recommended that extreme needle nose (less than 0.5 (1/2) inch width) designs be avoided to ensure accurate operation of the sensors.
- 19. Adjustments:** Once a car is impounded, no one may alter the car, except to repair broken parts or to correct rule violations at the repair station. The boy and an adult are permitted to make a repair or correction together under the supervision of the race officials. All cars in the Grand Championship will be allowed to apply graphite to the axles immediately prior to the Grand Championship race at the repair station under the supervision of the race officials.
- 20. Open Class:** An open class race for **the glory** will be held for siblings and parents of the registered Cub Scouts following the Grand Championship. All rules apply.
- 21. Sportsmanship:** Objective of the Pinewood derby is to, "Have Lots of Fun!" Respect for others and being a good looser as well as a good winner is required in order to have the most fun. Unsportsmanlike conduct by any participant or spectator will be grounds for expulsion from the competition and /or race area. Make the most of the event and what secrets you can learn to make your next car a winner.