

RULES FOR THE PACK 184 PINWOOD DERBY

PLACE:

DATE:

REGISTRATION:

RACE TIME:

A. GENERAL:

1. The rules for this year's Pinewood Derby are the same as they were for the 2003 Pinewood Derby. The rules serve three purposes. First, they provide guidance on how to construct your car. Second, the rules ensure that all boys have an equal chance at winning during the race. Finally, the rules are designed to limit conflicts, which often result in un-sportsmanlike conduct on the part of participants.
2. The race is open to all family members of Pack 184, especially the Tigers, Wolves, Bears, and Webelos Scouts.
3. **ALL!** cars must be made this Scouting year for this years Derby. Cars from past Scouting year's or races are not eligible for prizes or Trophies in any Category.
4. The race will be conducted using a computerized track. Each car will race on each lane of the track. The fastest average time for all races run by a car will determine placement for awards.

B. REGISTRATION: Be there early! During registration each car will progress through five stations.

1. **SIZE:** Each car will be checked for proper measurements of these standards: LENGTH, WIDTH, and CLEARANCE.
 - a. Maximum overall width (including wheels, axles, and attachments) shall not exceed 2-3/4 inches.
 - b. Minimum width between the wheels shall be 1-3/4 inches so the car will clear the center guide strip.
 - c. Minimum clearance between the bottom of the car and the track shall be 3/8 inch, so the car will clear the center guide strip.

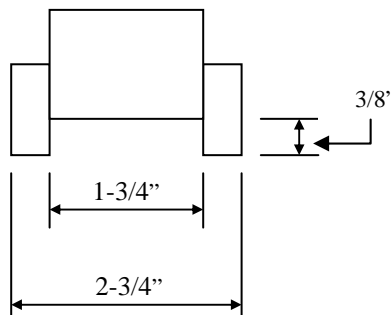


Figure 1 – Width and Clearance

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- d. Maximum length (including attachments) shall not exceed 7 inches
- e. The wheelbase (distance between front and rear axles) may not be changed from the kit body distance of 4-1/4 inches.

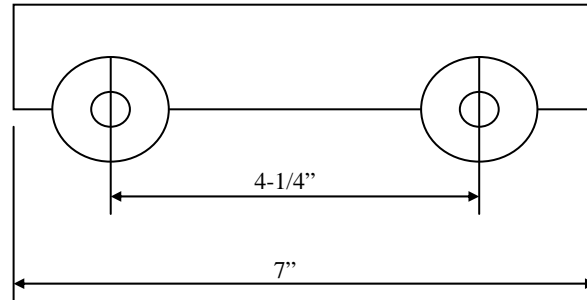


Figure 2 – Wheelbase and Length

- 2. **SCALE:** During registration each car will be weighed by race officials.
 - a. Weight shall not exceed 5 ounces. The readings of the Official Race Scale will be considered final. The car may be hollowed out and built up to the maximum weight by addition of wood and metal only, provided it is securely built into the body or firmly affixed to it. No loose materials of any kind are permitted in or on the car (see C. below).
 - b. Mercury shall not be used for adding weight as it is a serious health hazard.
 - c. Details such as steering wheel, driver, spoiler, decals, painting, and interior details are permissible as long as these details do not exceed the maximum length, width, and weight specifications and are securely attached.
 - d. Cars with wet paint will not be accepted.
- 3. **RULES INSPECTION:** Each car will be inspected to ensure compliance with the following.
 - a. **WHEELS AND AXLES:** Wheels will be inspected by race officials during registration for any unauthorized modification.
 - i. Only the official Scout Grand Prix wheels and axles can be used. Axles may be polished. Wheels may be lightly sanded to remove the mold projection on the tread. This light sanding is the only wheel modification allowed. Beveling, tapering, thin sanding, wafering, or lathe turning of the wheels is prohibited.



Beveling Tapering Thin Sanding Lathe Turning

Figure 3 – Examples of Prohibited Beveling, Tapering, Thin Sanding, or Lathe Turning

- ii. Wheel bearings, washers or bushings are prohibited
- iii. The car shall not ride on any type of springs.
- iv. The car must be free-wheeling with no starting device or other propulsion.

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- b. **LUBRICATION:** Wheels may be lubricated prior to registration (in a designated work area).
 - i. Only dry powdered lubricants, such as graphite, may be used. Regular oils and silicone sprays may soften plastic wheels and foul the track.
 - ii. Following registration, no further lubrication will be allowed.
- 4. **NUMBER:** Each car receives a race number. The car number and owner's name will then be entered into the computer for race placement.
- 5. **HOLDING AREA:** Once the car has made it through the first four stations, the car will be placed in a holding area until it is time to race. Cars cannot be removed from the holding area by anyone except race officials.

C. CONDUCT OF THE RACE: The following rules apply to the conduct of the race:

- 1. All cars must be checked in with registration desk prior to start of race. **Be there early!** Cars arriving after that time will not be allowed to race.
- 2. Parents should come prepared to adjust size and weight of cars that fail to pass registration. We will make every effort to get every boy through registration. Car owners will be informed of the violations and given an opportunity to modify the car to meet these rules.
- 3. Unsportsmanlike conduct by any participant or member of the audience will be grounds for expulsion from the competition and/or the race area.
- 4. If a car jumps off the track, the heat will be run again. If the same car jumps off the track a second time, it will automatically lose the heat.
- 5. If a car leaves its lane and interferes with another car, the heat will be run again. If the same car leaves its lane a second time, the heat will be run again without the interfering car. The interfering car automatically loses the heat.
- 6. If a car suffers a mechanical problem, loses an axle, breaks a wheel, etc. and a repair can be accomplished in a reasonable time, the heat will run again. If not, the car will automatically lose the heat.
- 7. Only race officials and boys racing will be permitted into the registration and track area. This rule will be strictly enforced.
- 8. When the cars are in the holding area and if something happens to the cars the participant will be notified and the car will be reinspected for damage by a race official and participant. The participant will have the opportunity to repair vehicle. All vehicles that are repaired must be reinspected.

D. DISPUTES:

Any participant (including the parent of the participant) has the right of appeal to the Race Committee for an interpretation of these rules. The Race Committee, by majority vote, will be the final judge of these rules. In case of a tie vote, the decision of the Race Committee Chairperson will be final.