



2018 Pinewood Derby Rules

The purpose of the rules is to provide a reasonable and level playing field for all contestants. Pinewood Derbies are an exciting and educational event for Cub Scouts and their families. While adults are encouraged to help, each Cub Scout is required to participate in building his car. Please read and heed the rules! If you have uncertainty about what is allowed, please contact your District Pinewood Derby Commissioner.

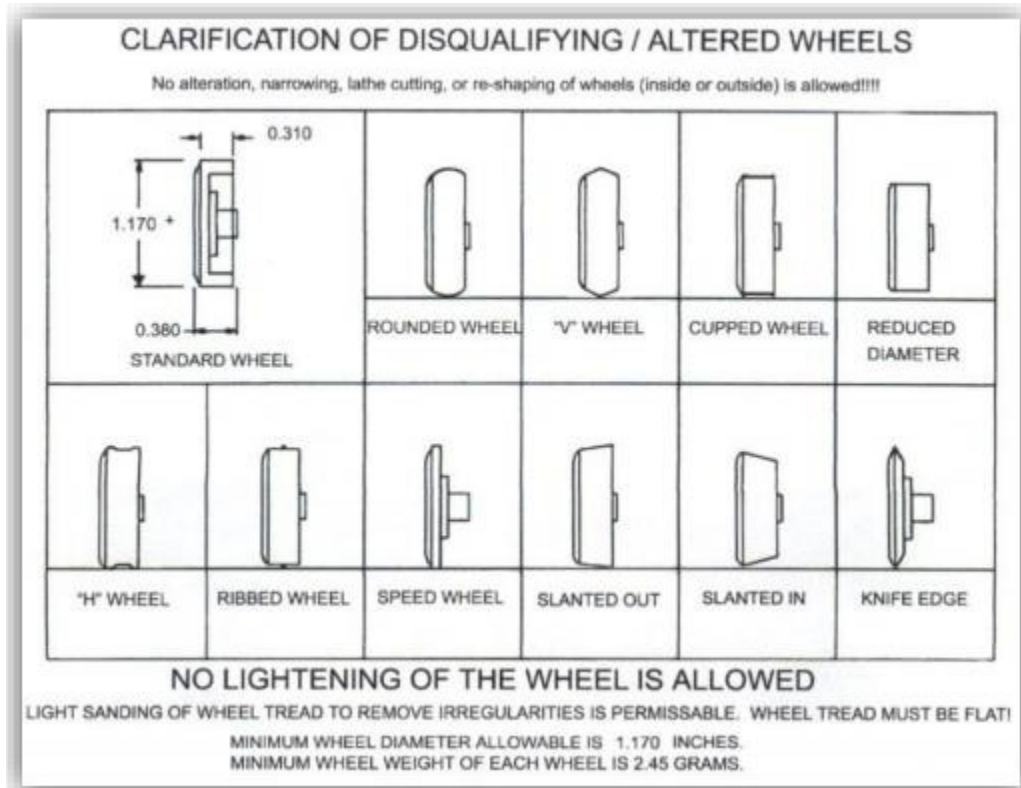
Please refer to the Mayflower Council Pinewood Derby Guide for details on specifications and rules.

Length, Width & Clearance

- Overall width of car shall not exceed 2 3/4 inches.
- Length of car shall not exceed 7 inches.
- Height of car shall not exceed 3 inches.
- Minimum width between wheels shall be 1 3/4 inches so that the wheels can clear the center guide strip.
- Minimum distance between the bottom of the car and the bottom of the wheels shall be 3/8 inch so that the car will clear the center guide strip.
- The axles must be placed in the slots provided in the wood blocks. This provides a wheelbase (axle to axle distance) of 4 inches.

Wheels & Axles

- Wheels must be full width as provided in the kit. No shaved wheels may be used. The width of the wheel that touches the track must be at least 1/4 inch wide and flat. 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, waffering, lathe turning or lightening of the wheels is prohibited. See chart below for examples that will result in disqualification**
- Nail Type axles are to be used. You may or may not choose to use those found in the Official Pinewood Derby Kit.
- Weighted wheels, wheel bushings and washers are prohibited.
- The car may not ride on any kind of springs.
- The car must be free-wheeling with no starting device or other propulsion.
- Axles may be sanded or polished to remove seams that are the result of manufacturing. No other modifications to the axles are allowed.



Appearance

- The center of the front-end of the vehicle may not be set back from the sides of the front. In other words, concave front-ends (to gain advantage on the start) are disallowed.
- Details such as steering wheel, driver, spoilers, decals, painting and interior are permissible, as long as these items do not cause the car to violate any other rule.
- No loose materials of any kind are permitted in or on the car. The car may be inverted and shaken as part of the inspection.
- Cars with exposed wet or tacky paint, glue or other substance will not be accepted for registration.
- A car number will be placed on the **front** of the car during the registration process. The **Scout** will be asked to identify the front-end of the car at that time. Be sure to allow a location for this sticker.

Weight

- Weight of the car shall not exceed 5 ounces (141.75 grams).



- The reading of the Official Race Scale will be considered final.
- The car may be hollowed out and built up to a maximum weight by the addition of solid and semi-solid materials.
- Liquids may not be used for adding weight.
- All added weights shall be firmly affixed to the car. Any weight which falls off after the car has been inspected may not be replaced.

Lubrication

- Only **dry**, powdered lubricant may be used. Regular oils and silicone sprays may not be used.
- Cars must be lubricated prior to registration. Once the car has been registered, no further lubrication will be permitted. You must supply your own lubricant; none will be provided by the District.

Ground Rules

- Only the **Official Cub Scout Grand Prix Derby Car** kits may be used. The Pack supplies each Scout with a single kit.
- Specifications on the Grand Prix Derby plan supplied with the kit will apply.
- If a car jumps off a track, it will be disqualified from the heat.
- If the car leaves its lane and interferes with another car, it will automatically lose the heat and the heat will be run again for the other cars.
- An unauthorized Cub or parent found inside of the Restricted Race Area will cause the participant's car to be immediately disqualified from all competition.

Pit Rules (Repairs)

- If a car suffers a mechanical problem involving the wheels or axles **only**, and a repair can be accomplished in a reasonable time, the heat will be delayed until the car is ready or until all other heats in the round have been run, whichever comes first. If the car is not available by the end of the round, it forfeits the heat.
- After races begin, any emergency repairs must be done in the designated Pit Area by the Scout only; Parents may supervise, but not assist (exception: Tiger parents may help their Tiger Cub). **No additional lubrication is allowed at this time.**
- Only emergency repairs which are required for the operation of the car may be performed once the car is checked in. Other repairs, such as those required to restore a loose part or weight, are not permitted.



Inspection & Disputes

- Each car must pass inspection by the Official Inspection Team before it may compete. The Inspection Team has the right to disqualify those cars which do not meet these rules. Car owners will be advised as to the infractions and be given reasonable opportunity to modify the car to meet the rules.
- No cars may be inspected or registered once the first race has been run, including those cars which previously failed inspection.
- All participants and audience members will be expected to behave according to the Scout Oath. Unsportsmanlike or other inappropriate conduct by anyone in attendance will be grounds for expulsion from the competition and/or the Race Area.

Any participant (including a parent of the participant) has the right to appeal to the Race Committee for an interpretation of these rules. The decision of the Race Chairperson will be final.

Thank you for your involvement and making this Pinewood Derby a winning day for all participants!