

Pinewood Derby Rules

Use only B.S.A Official Pinewood Derby Kit

I. Construction Requirements:

a. Length, Width and Clearance

1. Maximum overall width (including wheels and axles) shall not exceed $2 \frac{3}{4}$.
2. Minimum width between wheels shall be $1 \frac{3}{4}$, so car will clear center guide strip.
3. Minimum distance between bottom of car and track shall be $\frac{3}{8}$, so car will clear the center guide strip. This distance also applies to any protrusion from the bottom of the car such as weights.
4. Maximum length shall not exceed 7", to include accessories.
5. The wheelbase (distance between front and rear axles) may be changed.
6. The nose of the car must parallel with the front axle and at least $\frac{1}{2}$ " flat (no pointed noses) for proper starting and finishing requirements.

b. Weight and Appearance.

1. Weight shall not exceed 5.00 ounces. The reading of the Official Race Scale will be considered final. The car may be hollowed out and built up to the maximum weight by the addition of other material provided they are securely built into the body or firmly affixed to it. No loose materials of any kind are permitted in or on the car.
2. Use only B.S.A Official Pinewood Derby Kit only. **No pre made kits from hobby stores allowed.**
3. Mercury shall not be used. It is a health hazard.
4. Details such as steering wheels, driver, spoiler, decals, painting, interiors and exterior detail are permissible as long as the car satisfies length, width, clearance and weight specifications.
5. Cars with wet paint or glue will not be accepted.

c. Wheels and Axles.

1. The only wheels and axles allowed are from the B.S.A Official Pinewood Derby kit.
2. Wheel bearings, spacers or bushings are prohibited.
3. The car shall not ride on any types of springs.
4. The car must be freewheeling with no starting or other propulsion.
5. Only the tread surface and width may be altered. The tread surface of the wheel may be altered only to a flat surface that is parallel to the axle. The tread width may be altered only from the side facing the car. The tread width may not be less than .275". The wheel diameter may not be less than 1.150" or greater than 1.200". Lightly sanding and/or polishing the tread of the wheel to remove burrs will not reduce the diameter below allowable levels.
6. Under side of axle head may be ground or filled to remove burrs. Axle shaft diameter may not be less than .090". Simple polishing of the axles will not reduce the diameter below allowable level.
7. No wheel covers (i.e. hubcaps) are permitted.

d. Lubrication.

1. Only dry powered lubricants, such as graphite, may be used. Regular oils and silicone spray may soften the plastic wheels.

II. Inspection and disputes

- a. Each car must pass inspection by the Official Inspection Team before it can compete. The Inspection Team has the right to disqualify those cars which do not meet these rules. Car owners will be informed of the violations and given an opportunity to modify the car to meet these rules. If the car cannot be modify to meet the rules, at the discretion of the Race Committee, the car may be allowed to run for time only. In such case no prizes or recognition will be awarded.
- b. Any participant or their parent 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.
- c. Any protest of a cars compliance with the rules must be filed with the Race Chairperson prior to competition.
- d. These rules are to use in conjunction with the "Official Grand Prix Pinewood Derby Kit" instructions, found inside your son's pinewood derby kit.