

Japeechen District Pinewood Derby Rules for Cars

A. The car must be newly built for the current Cub Scouting year. The car should be substantially built by the Scout. Parental supervision in the construction of the car is encouraged.

B. The body of the car must be made from the block of wood provided in an official B.S.A. PD Kit (Cat. No. P1622). Wheels may not be designed to ride upon the guide strip of the track. Loose pieces that fall off during a race are not permitted. If the front of the car is designed to gain an unfair advantage at the start or interferes with a fair start, the car will be disqualified.

C. The axles of the car must be from the official B.S.A. PD Kit (Cat. No. P1622) or an official PD wheel replacement kit (Cat. No. P1622A). Axles must be firmly attached to the car. The use of a flexible suspension system of any type is prohibited.

D. The wheels of the car must be from the official B.S.A. PD Kit (Cat. No. P1622) or an official PD wheel replacement kit (Cat. No. P1622A). **Wheels may not be altered in any way.** Mold projection defects on wheel treads may be removed by sanding lightly. The wheels may not be sanded to enhance performance. The decorative dots on the wheel treads may not be removed. If wheel sanding is detected the car will be disqualified. The wheels must be attached to the car with the pins provided in the kit. No cars will be accepted in the District PD where bearings, washers, or spacers are used as part of the wheel assembly. The official wheel width is 0.34".

E. **DO NOT MOVE THE AXLE SLOTS** - use the nail slots already positioned on the block of wood. Use wood glue or model cement to hold the pin axle in body.

F. Lubrication - only graphite powder or the new B.S.A. white lube T102/ polytetra fluoroethylene may be used to lubricate wheels. (Warning - other lubricants may damage the plastic wheels and keep them from turning freely.) The District PD will NOT provide graphite powder lubricants. Once the car is impounded, it may NOT be re-lubricated. **Graphite must be applied outside of the building. No graphite may be applied anywhere inside the building.**

F. The total weight of the car may not exceed 5 ounces. The maximum width of the car, including wheels, may not exceed 2.75 inches. The maximum length of the car may not exceed 7 inches. The motion of the car may not be mechanically aided (motor, springs, rubber bands, etc. are prohibited).

G. The District Executive or his appointed replacement may disqualify any car that in their determination is not in compliance with the spirit of the PD race.