

Pack 372 Pinewood Derby Construction Rules

Material: Race cars must be constructed from the parts contained in the BSA Official Grand Prix Pinewood Derby Kit (referred to below as the kit)

Maximum Weight: Race cars must weigh *no more* than five (5) ounces (total weight) as determined on the official scales during the race day inspection.

Wheels and Axles: The car shall roll on the wheels provided from the kit. The wheels shall turn about the axle nails from the kit. The axle nails shall be firmly affixed to the wood of the car body. The axle dimensions may not be changed substantially. The outside surface of the axle head (the non-contact surface) may not be changed substantially, such as, by polishing. It must be obvious to the judges that the wheels and the nails from the kit are being used.

Length, Width, Height, Clearance: Race cars can be *no longer* than 7 inches, nor wider than 2 3/4 (2.75) inches, nor taller than 3 inches, as determined by the official gages during race day inspection. (Note: underside clearance of *at least* 3/8 (0.375) inches and inside wheel to wheel clearance of *at least* 1 3/4 (1.75) inches is strongly recommended so that the car will run properly on the racetrack. Adequate clearance is the responsibility of the race car builder.)

Weights and Attachments: Weight may be added to the car and will be considered part of the car for the purpose of all measurements. "Weight" is considered to be any material on the car that is not provided in the kit. All weight must be securely fastened to the car, e.g. by permanent glue, nails or screws, but not by "sticky substances", e.g. tape, or tack spray. Weights shall be passive, i.e. non-moveable, non-magnetic, non-electric, non-sticky, etc.

Wheels: Wheel treatment (hub and tread smoothing and polishing) may not result in substantial removal of mass nor in reducing the tread (track contact) width from the original kit wheels. Wheel tread surface must be cylindrical. The words "Official B.S.A. Made in U.S.A." and other lettering on the wheels shall remain intact and clearly visible to the inspector. Some of the original "tread marks" on the wheel face must be intact and apparent to the inspector.

Unacceptable Construction: The following may NOT be used in conjunction with the wheels or axles: hubcaps, washers, inserts, sleeves, bearings.

Gravity Powered: The race car may not be constructed or treated in such a way that the track's starting mechanism imparts momentum to the car. (For instance, this provision disqualifies cars with sticky substances on the front of the car and protrusions which may catch on the starting pin.)

Lubricants: Dry graphite is the only lubricant that may be used.

Staging: The entire car must stage behind the starting pin.

Body: The car body must have no moving parts (besides the wheels as provided in the kit).