



Official Seneca District Pine Wood Derby Rules

Race cars shall be constructed for this event from the parts contained in the Official Grand Prix Pinewood Derby Kit as sold by the Scout Service Center BSA Part#17006. Materials from the kit may be supplemented but not replaced.

In addition to the car specification sheet with in the Official Pinewood Derby Kit:

- “Appeals/Clarification”** Any participant (including parents of participants) may appeal to the Race Committee for an interpretation of the rules. The Race Committee Members will be the final judges.
- “Axles”** The (4) Official BSA axles supplied with the kit must be used. Solid axles are forbidden. The axle may be polished and dry lubricated before derby start only. Glue may be used to hold axles in place. Axles **MUST** be placed in the original 'axle grooves' in the supplied wooden block. Axles may not be altered in any way except polishing and removal of the casting mark. It must be obvious to the judges that the grooves, wheels, and axle nails from the BSA kit are being used. Axle guards sold by BSA will be allowed.
- “Body Design”** The design of the body of the car, the wheels or any attachment must not extend beyond the starting gate. The front of the car must not be smaller than 3/8 inch in width or a cutout notch. Attachments must not have the effect of a starting or accelerating device. The car body may have no moving or loose parts. Details such as the steering wheel, driver, decals, painting, and external details are permissible as long as these details do not exceed the maximum length, width, weight specifications and height of the finish line (height varies by track)
- “Car Creation”** The car must have been constructed during the current year (the year in which the derby is held). Only one car may be registered by any Scout. The car should be substantially built by the Scout. Adults can provide advice, and may assist with cutting, shaping, and decoration of the car, but the intent of the Pinewood Derby is for Scouts to have a fair race with his car against cars prepared by his peers. Parental supervision in the construction of the car is encouraged.
- “Car Size”** The overall length of the car shall not exceed 7 inches. The overall width of the car shall not exceed 2 ¾ inches. The car must have 1 ¾” clearance between the wheels. The car must have 3/8” clearance underneath the body.
- “Derby Conduct”** Ungentlemanly or unsportsmanlike conduct by any participant or spectator will be grounds for expulsion from the competition and/or the race area.
- “District/Council Qualifications”** Cars that qualify for the District/Council Derby will be impounded

by a Pack/District Derby Committee member. It will be the Pack/District Derby Committee's responsibility to bring the cars to the District/Council Derby. Parents and Scouts may review/lubricate their car prior to inspection. The car will then be impounded by the Derby Committee.

- "Inspection"** Each car must pass a technical inspection before it may compete. After the car has passed inspection, it is impounded by the Race Committee and cannot be handled by anyone other than a Committee Member. No modifications are allowed after a car has passed inspection. If a car fails inspection, modifications will be allowed and the car may be re-inspected after changes are complete.
- "Lubrication"** Only dry lubricants such as graphite or powdered Teflon "white lube" will be allowed for lubricating the wheels. Lubricants may not foul the track. Only one lubrication session is allowed prior to inspection.
- "Suspension"** The car must not ride on any type of springs. The BSA axles affixed to the BSA block is the suspension.
- "Weight"** is considered to be any material on the car that is not provided in the kit. The finished car weight shall not exceed 5.0 ounces (141.7grams). The official race scale shall be considered final. To increase the car's weight to meet 5.0 ounces, add wood or metal only. Mercury or other liquid may not be used as a weight. All weight must be securely fastened to the car, e.g. by permanent glue, nails or screws. Weights shall be non-moveable, non-magnetic, non-electric, etc. The car must be freewheeling with no stored energy, movable weights, or starting devices.
- "Wheels"** Only Official BSA wheels may be used (any color BSA offers). Wheels may be lightly sanded to smooth out molding imperfections in the tread area. This light sanding is the only modification allowed. Beveling, tapering, thin sanding, wafering, or lathe turning of the wheels is strictly prohibited. Wheel surface must remain flat with full tread surface contact. Cars at rest must have four wheels and all four wheels must make contact with the track at once. The official wheel width is 0.34". Wheel bearings, washers, or bushings are prohibited either in the wheel or against the car body. Intentional 4 wheel mold number matching is prohibited and unsportsmanlike.

BSA Wheel Part #'s 17553 17554 17555 17556 17557 and wheels from BSA kit #17006 are acceptable.

- "Wheel Hub"**, the area of the wheel which makes contact with the side of the car body. This area must not have any modification to it. Hub tapering or coning to reduce the surface area contact to the side of the car is forbidden. Graphite powder usage in this area is permitted but no washer or shim material may be used to reduce drag/friction on the rotation of the entire wheel assembly against the side of the car. If axle guards block the ability for an inspector to inspect the hub area on a car, they may be asked to remove them for inspection.
- "Wheel Base"** Wheel base and stance shall not be altered from the stock location in which the block is manufactured. The dimension from axle groove to axle groove (centered wheel base) is 4 ^{3/8}". The stance (side to side) between wheels is measured at the block width which is 1 ^{3/4}".

****These rules are to be given out to all Scouts to aid and guide them in the building process of their car****

The distribution of the rules to participants is the responsibility of the Pack.