

SCCA National Convention

Pinewood Derby Rules

1. SPEC BSA Pinewood Derby Class

A. PURPOSE AND INTENT

The Spec BSA class is intended to provide the membership with the opportunity to compete in low cost, wood-block cars with limited modifications, suitable for racing competition. The rules are intentionally designed to use the BSA Pinewood Derby Car kits.

B. CLASSIFIED CARS AND WEIGHTS

Classified cars and weights are listed on the Spec BSA class Specification Table. Cars are to be weighed with ballast securely fastened to the car.

C. Rules

1. The car must be free-wheeling, with no starting devices.
2. All parts must be purchased through your local BSA Council or the BSA Scout Shop online.
3. Each car must pass inspection. The owner will be informed of the reason for failure and will be given time within the official weigh-in time period to make adjustments.
4. After final approval, cars will not be re-inspected unless the car is damaged in handling or in a race.
- 5.
6. Wheels
 - i. Only official Boy Scout Grand Prix Pinewood Derby wheels are permitted (multi-color wheels are ok).
 - ii. At least 4 wheels must be attached to the sides of the car body and front / rear wheels must be positioned directly across the body from one another.
 - iii. Each wheel must be attached to the car's wood chassis with a legal axle. (axle rules below)
 - iv. Wheel tread, spokes and other markings on the outside wheel area must remain visible.
 - v. Allowed Modifications
 1. Truing the tread surface with sandpaper, straight edge, or BSA Scout Shop* tools to correct "out of round" wheels.
 2. Truing and shaping the inner edge of the thread surface.
 3. Applying wheel bore treatments such as polish and wax to smooth the bore.
 4. Truing and re-coning the tip of the inner hub.

5. Removing the double step from the outer hub (some wheels have this, some don't).
- vi. Prohibited Modifications
 1. Removing material from the inside tread surface or the inside sidewall surface.
 2. Drilling holes in the tread, sidewalls, or spoke area(s).
 3. Removing material from the sidewalls or Spoke.
 4. Filling wheel tread with any type of material.
 5. Adding any interior wheel weights.
 6. Filling the wheel bores and re-drilling the bore.
 7. Grooving, H cutting, or V cutting the tread surface.
 8. Wheel bearings, washers and bushings are prohibited.
7. Axles
 - i. Only official Boy Scout Grand Prix Pinewood Derby axles are permitted.
 - ii. Allowed Modifications
 1. Axles may be filed and polished to remove casting marks, burrs and or other surface imperfections.
 2. Axles may be straightened or bent as needed to improve alignment.
 - iii. Prohibited Modifications
 1. "Grooving" the axle to carry, hold graphite, or reduce axle diameter.
 2. Using one-piece axles that extend through the width of the car to support both wheels
8. Chassis
 - i. Details, such as steering wheel and driver are permissible as long as these details do not exceed the maximum length, width and weight specifications.
 - ii. The car shall not ride on springs.
9. Only dry lubricant is permitted.

Spec BSA	Width	Length	Weight	Track (width between wheels)	Bottom Clearance (with ballast) <small>Between car and track</small>	NOTES
Any Year -2019	2 ¾ inches	7 inches	5 ounces	1 ¾ inches	3/8"	All measurements are absolute maximums.