

Official Rules and Guidelines Chaparral Pinewood Derby

A.

BODY:

1 The main body structure must be made of wood. Must be an official BSA Pinewood Derby kit.

2. Car Specs:

A. Width - Not to exceed 2 3/4 inches

B. Length - Not to exceed 7 inches

C. Weight - Not to exceed 5.0 ounces on scale accurate to 1/10 ounce.

D. Height- Not to exceed 2 3/4 inches.

E. Center Rail Width Clearance - no less than 1 3/4 inches minimum.

F. Bottom Clearance - Car must be built to clear the track center rail. The height of the center rail on the track is 1/4" tall.

G. Wheelbase - No wheelbase restriction.

3. The car design may be enhanced by the addition of other stable materials such as plastic or metal. Any additions must be firmly attached and meet Car Size Requirements.

B.

4. No part of the car body, wheels or attachments may protrude in front of the starting peg.

5. The following items are PROHIBITED:

A. Springs

B. Starting devices or propellants. A starting device is something that alters the rotation or spin of the wheel.

C. Electronic or lighting devices that interfere with the race electronics.

D. Liquids, wet paint, oil, sticky substance, or powders of any kind (other than axle lubrication)

E. Glass or excessively fragile parts

F. Wheel bearings

G. Loose objects on car

H. Magnets

I. No part of any car, or attachment to any car, that is metal, pointed, sharp, and/or jagged may be capable of contacting any part of the track.

WHEELS:

6. BSA wheels that come with the kit or official wheels at the scout office, the BSA colored wheels are legal but must conform to the following specifications:

A. Wheels not to exceed a Maximum 31mm diameter.

B. Tread width of no less than 7.50mm

C. Wheels must be constructed of plastic, rubber, or polyurethane.

D. Wheels may not be rounded, tapered, grooved, V-cut or H-cut.

E. The entire tread of each wheel must be flat and parallel to the wheel bore.

7. The wheels must be attached directly to axle and spin freely.

There must be at least 4 wheels on the car, however, it is not required that all 4 wheels make contact with the track surface.

AXLES:

8. The nails that come with the kit or the nails that come with after market wheels, like the colored wheels. Are legal.

the axles can be deburred and polished to make the axle run faster, but cannot be reduced in size.

Solid rod type axles are not allowed.

9. Axles must not be connected to any device that mechanically alters rotation and spin.

10. Axles must be mounted into the wood sections of the car. Drilled holes or slots can be used.

11. ONLY DRY GRAPHITE CAN BE USED. NO OIL

12. Cars may be disqualified if they are determined by the race officials to not meet these requirements.

13. 2 JUDGES FOR THE FINISH LINE. THE JUDGES DECISION IS FINAL

3 RACE OFFICIAL, AND THE THE PERSONS RUNNING THE BRACKET, WILL DECIDE THE OUTCOME, IN CASE WE HAVE A DISAGREEMENT THE RACES.

14. The Cub Scout owner of a car must place the car on the track. No one else can run another Scout's car.