

Pinewood Derby Assembly

CAR DEFINITIONS

Cub Scout Construction: Parents may provide guidance, construction and safety tips, or demonstrate steps involved in construction, but should keep in mind that the Derby is a race matching the products of 7 to 10 year old boys. Safety considerations must be observed at all times and no Scout should be asked to do more than is deemed reasonable and safe. Parents or any other person may not build the car kit for the boy.

Wheels: Only the wheels supplied in the BSA Kit may be used. The wheels may not be sanded, shaped, ground, machined or tooled. Rounding the tread area to minimize wheel to surface contact is not allowed. Wheels judged to be in violation of these rules will have to be replaced before a car will be allowed to race.

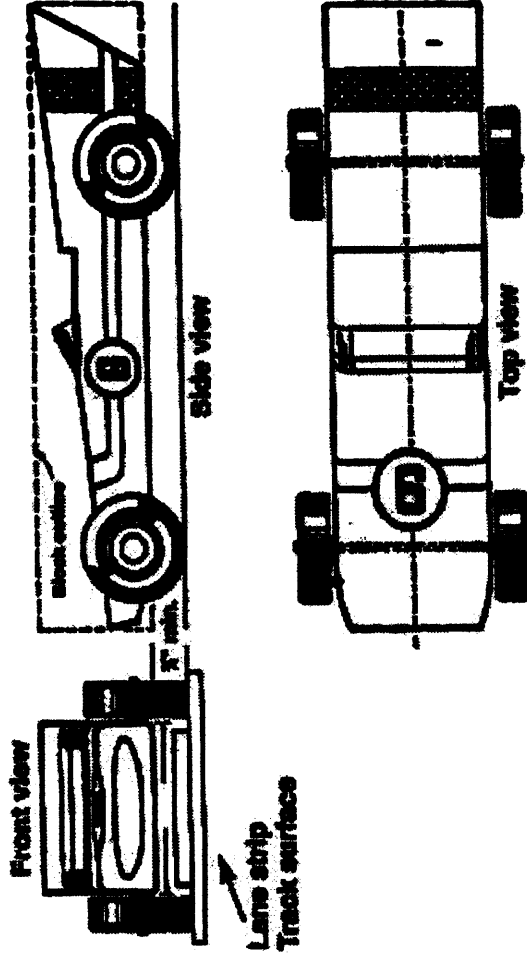
Axles: The axles supplied in the BSA Kit must be used. Polishing to remove small burrs is allowed. No other changes to the nails will be allowed. Axles judged to be in violation of these rules must be changed with new axles before the car can race.

FINAL CAR ASSEMBLY

The front of the car may not have slots to improve the starting position of the car. The front tip of the car must touch the starting pin. The nail axles must be driven into the wooded block axle grooves. The grooves can only be altered if the grooves are not square or at right angles with the block of wood. The grooves used for final assembly must maintain the wheel base specification.

- The nail axles must have their points visible after installation and final assembly.
- No loose material of any kind is permitted in or on the car.
- No special bearings, washers, bushings, or springs may be employed.
- The car bottom must clear the raised lane keeper of the track. Clearance is given in the car kit rules.

e. Stationary weights may be embedded inside the car body. The car bottom must be full surfaced and free of voids, except for the nail tips showing. Tape or filler are to



be used to cover or fill car bottom voids.

f. The car must be free-wheeling with no starting devices.

g. Anything added to the car must be securely fastened.

FINAL ASSEMBLED CAR DIMENSIONS

Car width and length: Not to exceed 2-3/4 inches wide and 7 inches long.

Total car weight: Not to exceed 5.0 oz. or 141.75 grams, as measured by the Council Derby Committee Scale.

Width between wheels: 1-3/4 inches

Bottom clearance between car & track: 3/8 inch.