



# Kit-Ke-Hak-O-Kut

## Pinewood Derby Rules

Only the Official Cub Scout Grand Prix Pinewood Derby Car Kit (including wheels and axles) may be entered in the Derby Race. Each car will have to pass inspection from the Pinewood Derby Committee in order to be eligible to race. The following car specifications will be strictly enforced.

### Car Specifications (all divisions)

1. **Length.** – The overall length of the car, including wheels and accessories, shall not exceed 7 inches. No part of the car's body, wheels, or attachments can extend beyond the starting peg.
  - a. **Width.** – The maximum overall width of the car, including wheels and accessories, shall not exceed  $2\frac{3}{4}$  inches. Minimum width allowed between the wheels will be  $1\frac{3}{4}$  inches in order for the car to straddle the center guide strip.
  - b. **Height** – Car must not exceed 6" tall and pass under the timer gate.
  - c. **Ground Clearance.** – The minimum ground clearance should be  $\frac{3}{8}$  inch, including any accessories or weights, to allow clearance for the guide strip. **\*\*\*NOTE – The track stops the cars using a bottom friction braking system. Do not attach the weights to the bottom of the car unless you countersink them into the body of the car. Do not glue the weights on; attach the weight with screws if placed under the car. –NOTE\*\*\***
  - d. **Weight.** – Cars may not exceed 7 ounces in weight. Refer to 1C for placement of weight.
  - e. **Wheels.** – All cars may use modified wheels if damage to the track and other cars will not occur. No material other than dry lubricant may be added to the wheel.
  - f. **Axles.** – Only Official Cub Scout Grand Prix Pinewood Derby Car Kit Axles may be used – NO EXCEPTIONS. Axles are provided in the car kit. Imperfections on the axles may be removed. Axle Diameter (minimum diameter 0.084 inches) cannot be altered. No material other than dry lubricant (such as dry graphite) may be added to the wheel. Additional axles are included in wheel kits at the Scout Shop.
  - g. **Wheelbase.** – Distance between front and rear axles may be altered from the original grooves provided the car stays within all rule specifications.
  - h. **Accessories.** – Accessories such as steering wheels, drivers, exhaust pipes, stickers, etc. may be used provided they are securely attached to the car and the car stays with all rule specifications.
  - i. **Car Numbers.** – All cars will be numbered at the time of weigh-in using a self-stick label. Any numbers painted on the car will be disregarded during the race. Any car may have any number and numbers do not have to be sequential.
  - j. **Others.** – The car shall not ride on any type of springs. Wheel bearings, spacers, bushings, or washers are prohibited.

## 2. GROUND RULES

- a. The race is open to all members of Kit-Ke-Hak-O-Kut Lodge, youth and adult. Family members such as siblings and parents are welcome to participate as well.
- b. There will be separate race divisions for Youth and Adults.
- c. All cars will race on all lanes of the track being used.
- d. All judging will be performed by a computerized timing system designed for this purpose.
- e. Only individuals assigned by the Derby Committee will be allowed to handle the cars for the duration of the race. At no time will a participant be allowed to handle their car during the racing period unless approved by an official of the race committee.
- f. Any car that is discovered to be illegal during the competition by a committee member will be disqualified from the competition.
- g. If a car leaves its lane and interferes with another car, the heat will be re-run. If the same car causes trouble again, it will be disqualified.
- h. If a car experiences mechanical trouble (loose wheel or axle), an assigned adult will attempt to repair the car for the next round of races. If the car cannot be repaired the car will be removed from the competition.
- i. Un-gentlemanly or un-sportsmanlike conduct by any participant or spectator will be grounds for expulsion from the competition and/or race area.
- j. All decisions made by the Official Pinewood Derby Committee will be considered final and supported by the Lodge Leadership.

**--MOST IMPORTANTLY--**

**HAVE FUN, CHEER ON YOUR FELLOW SCOUTS AND DO YOUR BEST!**

**Parents: Unfortunately the nature of the Pinewood Derby Car Race can get very competitive. Please remember the purpose of this event is for members to have fun and enjoy fellowship with other members. Unfortunately, not everyone wins, so please help nurture good sportsmanship among the scouts. Sportsmanship is paramount!**