



NEW JERSEY DISTRICT
West-Central Section Royal Rangers/Mpact, Girls Ministries
Pinewood Derby Rules

Commanders/Sponsors: *Please make sure your Rangers and Mpact are aware of these rules.*

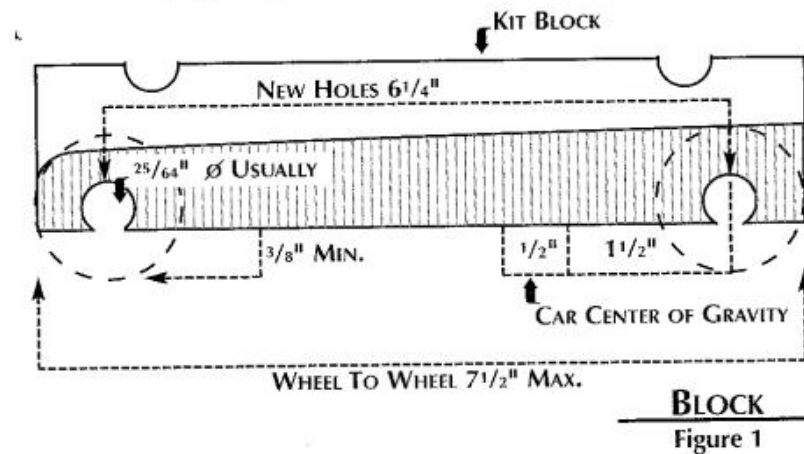
GENERAL:

The approved Pinewood Derby car to be used for the race is the official Royal Ranger car kit sold by Gospel Publishing House (GPH). A car can also be built from scratch using wood but the Wood axles, Nails and wheels **MUST** come from the official GPH car kit. All cars registered in the Pinewood Derby must precisely meet the specifications spelled out below. Participant may enter more than one car.

Cars not meeting the requirements as stated above are **NOT** eligible for **ANY** awards. The decision will be left to the discretion of the Race Committee as to whether they can race in the Pinewood Derby in a participatory status only.

National Royal Ranger General Rules and Pine wood Derby Car Specifications: (See Figure 1)

- 1) Maximum length shall not exceed 7 1/2 ".
- 2) Maximum overall width (including wheels and axles) shall not exceed 2-3/4".
- 3) Maximum Height 3"
- 4) Maximum Weight 5 1/2 oz.
- 5) Minimum under car clearance 3/8"
- 6) Minimum distance between wheels 1 3/4"

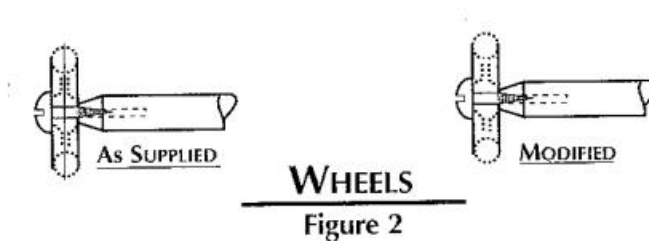


WEIGHT AND APPEARANCE:

- 1) Weight shall not exceed 5 1/2 ounces. The readings of the official race scale will be considered final. The car may be hollowed out and built up to the maximum weight by the addition of another solid material; but it must be securely built into or firmly affixed to the car. No loose materials of any kind are permitted in or on the car.
- 2) Mercury shall not be used for adding weight. It is a potential health hazard.
- 3) Details such as steering wheel, driver, spoilers, decals, painting, and interior are permissible as long as these items do not exceed the maximum/minimum length, width, and weight specifications.
- 4) Cars with wet paint will not be accepted, or allowed in the building where the race is to be held. Please do not bring any cars in this condition to the race.
- 5) Racecars that are purchased already assembled or pre-manufactured will not be allowed to enter into any competition or awards.

WHEELS AND AXLES:

Only the official Royal Ranger (GPH) Pinewood Derby kit wheels and axles can be used.



- 1) The axles may be polished. (See Figure 2) The wheels may be lightly sanded to remove the molding projections on the tread. This light sanding is the only wheel modification allowed. Beveling, tapering, thin sanding, wafering, lathe turning, etc. of the wheels is prohibited. The tread must be flat across.
- 2) Wheel bearings, washers, and/or bushings are prohibited. No further wheel or axle modification is permissible.
- 3) The car shall not ride on any type of springs.
- 4) The car must be freewheeling with no propulsion-causing device of any type.
- 5) Kits with metal axles through the width of the pinewood block are not allowed.

LUBRICATION:

- 1) Powdered graphite is the only acceptable lubricate for use on the wheels and axles. Liquid lubricants such as oil or silicone sprays are not allowed and should not be brought into the building.
- 2) Car lubrication is permissible only once. Lubrication should occur prior to the start of the derby.
- 3) Only if a car has gone through allowable/approved emergency repairs will a second lubrication be permitted. Such repairs must be approved and inspected by a member of the Race Committee.

INSPECTION AND DISPUTES:

- 1) Each car must pass inspection by the Official Inspection Team before it may compete. The inspection team has the right to disqualify those cars that do not meet the Pinewood Derby Rules. Car owners will be informed of the violations and given an opportunity to modify their car in order to meet those rules and re-qualify for the derby.
- 2) Any participant (including the parent of the participant) has the right of appeal to the Race Committee for an interpretation of these rules. In case of a tie vote, the decision of the Race Chairperson will be final.
- 3) Unchristian or un-sportsmanlike conduct by any participant or member of the audience will be grounds for expulsion from the competition and/or the race area.

GROUND RULES:

- 1) The race is open to all Royal Rangers, Mpact, Girls Ministries and their friends.
- 2) Cars must have been made for this year's Pinewood Derby. Cars made for a previous Pinewood Derby are not permitted to enter the Pinewood Derby; that includes non-Royal Rangers pinewood derby events such as Boy Scout, YMCA, etc.
- 3) The race will be a triple elimination, by outpost divisions (i.e. age group).
- 4) If the car jumps off the track, the heat will run again. If the car jumps off the track a second time in the same heat, it will automatically lose that heat.
- 5) If the car leaves its lane and interferes with another car, the heat will run again. If the same car leaves its lane the second time and interferes with another car in the same heat, the interfering car will lose that heat. That heat will then be run again without the interfering car.
- 6) If the car suffers a mechanical problem, loses a wheel, breaks an axle, etc. and a repair can be made in a reasonable amount of time (the amount of time will be at the discretion of the Race Committee) then that heat will be run again. If not, the car will automatically lose the heat. After the race begins, the participant must do any emergency repairs in the designated pit area only. Parents may supervise but not assist. Parents may assist Royal Rangers and Mpact, Missionettes of younger age groups.
- 7) In all heats, the results from the electronic lane timer will be final. In the case where there is no electronic lane timer and judges are used instead, a majority of the judges at the finish line must agree on the winner or the heat will be run again.
- 8) Only race officials, Royal Rangers, Mpact, Missionettes and/or invited guests who are racing during a heat will be permitted into the registration and track area for that heat only.