

2006 PACK 216 PINEWOOD DERBY RULES



Participation

The Cub Scout competition is open to all Pack 216 Cub Scouts. All Cub Scout cars must have been made during the current Scouting year.

There will also be a Pack Committee competition. The Pack Committee competition is open to pack leaders, parents, and other adults associated with Pack 216. Adult cars may race even if made in previous Scouting years.

A car may be raced by an authorized person (other than the Scout) in the case of illness or schedule conflict on the day of the Pinewood Derby. A member of the racing committee or the Cubmaster must approve the substitution before the races begin.

Pack 216 will provide BSA Pinewood Derby kits to all Cub Scouts. Adults must purchase BSA Pinewood Derby kits at their own expense. (Pack 216 may provide kits to adults on a case by case basis at the discretion of the Pack Committee).

Check-in

1. Each car shall be inspected and approved by the official inspection team when it is registered. The inspection team shall verify that each car meets the Pack's car specifications.
2. Car owners will be informed of any violations and given an opportunity to modify their car if it fails to pass the inspection. The inspection team, with the consent of the car's owner and at the team's discretion, may also add weight if the car weighs less than 5 ounces.
3. Cars will be impounded after being registered and passing the inspection. After being impounded, the cars will only be handled by the race committee unless repairs are necessary during the race.
4. Repairs shall be limited to replacement of wheels and/or axles that are broken or lost during the race. Repairs shall be made by the racer who registered the car.

Competition

1. Racing will be done on a **double elimination** basis.
2. Racing committee members are the only people that may handle the cars during the competition.
3. Each heat will be announced. Drivers will report to the finish line to watch the results of the heat. All other people must remain behind the barriers.
4. A racing committee member will place the cars on the track and start the race.
5. A racing committee member will be at the finish line to determine the winner of each race. (The car whose nose crosses the finish line first is the winner.)
6. Cars may be **disqualified** if the driver or his guests display **unsportsmanlike conduct** on the race site.
7. The **Cubmaster has final authority** in resolving any disagreements or problems that may arise during the competition.

PINEWOOD DERBY CAR SPECIFICATIONS

All cars must be inspected and approved by the official inspection team to compete in either competition. The inspection team has the right to disqualify any car that does not meet the following specifications:



1. General specifications

- a. Width. The overall width of the car shall not exceed 2 ¾ inches. In addition, the car width at the wheel axles must not be modified from what is provided in the official BSA Pinewood Derby kit.
- b. Length. The overall length of the car shall not exceed 7 inches.
- c. Weight. The weight of the car shall not exceed 5 ounces.
- d. Wheelbase. The wheelbase must not be modified from what is supplied in the official BSA Pinewood Derby kit.
- e. Detailing. Details such as a steering wheel, driver, decals, painting, and interior detail are permissible as long as they do not exceed the maximum length, width, or weight specifications. Any additions must be firmly attached to the car.
- f. The car must be freewheeling. No starting or propulsion devices of any type are allowed.
- g. No loose materials of any kind (such as lead shot) are allowed in the car.

2. Wheels, axles, and suspension

- a. Axles, wheels, and body wood shall be as provided in the official BSA Pinewood Derby kit.
- b. Adjustments to the axle grooves are allowed to true them to the car body and to prevent the wood from splintering when the axles are inserted; however, these adjustments must not change the car's wheelbase.
- c. Frames and axle supports are prohibited. Axles must mount directly into the car body as described in the instructions provided with each BSA Pinewood Derby kit.
- d. Wheel covers and other devices that prevent the wheel hub from contacting the car body are prohibited.
- e. Hub caps and other devices that can be used to store or trap wheel lubricants are prohibited.
- f. Wheel bearings, washers, and bushings are prohibited.
- g. The car shall not ride on any type of springs.
- h. Lubrication. Only dry, powdered lubricants may be used. Liquids, oils, and sprays are prohibited. No lubrication can be added after weigh-in.
- i. Wheels may only be sanded to remove surface imperfections. No changes to wheel size, diameter, or shape are allowed. Wheel treads must remain flat.

