

# **OFFICIAL PACK 432 PINEWOOD DERBY EVENT RULES**

## **1. GENERAL**

A. In order to qualify for racing, car must be made with the entire Official Pinewood Derby Kit as supplied, including wheels, axles, and wood block. BSA imprint must be visible on wheels.

B. Car must not have been made before June 1st of the prior year.

## **2. WEIGHT AND APPEARANCE**

A. Total weight of car may not exceed 5.0 ounces. The car may be built up to the maximum weight by the addition of wood or metal only, provided that it is securely built into the body of the car or firmly affixed to it.

B. No loose materials of any kind are permitted in or on the car. No mercury-weighted cars will be allowed.

C. Details such as steering wheel, driver, decals, or painting are allowed, as long as these details do not cause the car to exceed the maximum weight, length and width.

D. All cars may be re-weighed and/or re-inspected at any time for cause, which shall be at the sole discretion of the Chief Judge.

## **3. LENGTH, WIDTH and HEIGHT**

A. Overall width shall not exceed 2 3/4 inches at the furthest horizontal protrusion, whether it is the body of the car, or the wheels. The area where the axles are inserted should be approximately 1 3/4 inches wide to ensure that the wheels will fit over the guide strip on the track.

B. Overall length of the car (measured from the furthest point forward to the furthest point rearward) shall not exceed 7 inches.

C. The wheelbase (distance between the centers of the front and rear axles) shall be between 4 1/4" and 4 5/8". The outside wheel diameter can not

protrude beyond the body of the car (both front and rear). NO EXTENDED WHEELBASE!

D. The position of the axles is not regulated, provided that the wheelbase measurement complies with rule 3C above. It is not required to place the axles (nails) into the slots which have been pre-cut in the wood block.

E. The underside of the front of the car may not be undercut to allow the car's nose to hang out over the top of the starting gate. If the nose protrudes over the starting gate and the official starter is not able to adjust for a fair start, the protruding car will not be allowed to race.

F. Total car height can not exceed 4 1/2" so that it will pass under the scoring system.

#### **4. WHEELS AND AXLES**

A. No alteration, narrowing, lathe cutting, or re-shaping of wheels (inside or outside) is allowed. Light sanding of wheel treads to remove irregularities is permissible. Minimum wheel diameter allowable is 1.180 inches. (Most wheels measure between 1.195 to 1.200 inches) No covers, stickers, or hubcaps will be allowed over the wheels or axles. The axle head must be visible. The serrated edges of the wheel treads must remain visible.

B. Only the official wheels and axles as provided in the official car kits or the official wheel and axle kits may be used.

C. Wheel bearings, spacers, and washers are prohibited.

D. The car shall not ride upon any type of springs.

E. All cars must have four wheels.

F. The car must be free-wheeling with no starting or launching devices.

G. In order for the car to avoid scraping bottom against the guide strip of the track, it should have 3/8" clearance underneath.

#### **5. LUBRICATION**

A. Cars will be lubricated before registration and qualification. Cars may not be lubricated thereafter. Violation will result in ejection from the race. Re-lubrication will be permitted just prior to re-registration for the OVERALL CHAMPIONSHIP.

B. Any type of dry lubricant is permitted.

## 6. GENERAL RULES

A. Numbers will be assigned and affixed at registration. The official number shall be clearly marked and visible at all times.

B. No one will be allowed beyond the registration area and into the area immediately surrounding the track except the officials and the boys racing. Those areas will be designated as "restricted".

C. Cars will be weighted in and QC checked to ensure all requirements are met. Once the car is checked and placed in the bin, the car is quarantined and can not be touched by the scout or parent. Pack 432 will keep the cars secure overnight. No scout may handle their car until the race is complete. Special consideration will be provided for cars that require repair (e.g. the tire comes off), however all repairs must be completed prior to the car's next race.

## 7. PINE NUT OPEN CLASS – HOT ROD

The spirit of the Hot Rod class is to build a car that resembles an old "Hot Rod". The intent of the Hot Rod idea is to get away from the plank/wedge designs that are so commonly used for speed and to build a car with some character. Since everyone has a different idea of what a "Hot Rod" is, we do not wish to stop a racers creative side. All we require from the racers who choose to participate in the Hot Rod division is to stay away from the wedge/plank design and to enjoy building their interpretation of a Hot Rod.

A. Same rules as Scouts except:

1. The body must have at least a 1"x1" area that is as high as the stock block (1.75" from the track surface with wheels on) (the idea is give some style and not a wedge).

**2010 PACK 432 PINWOOD DERBY RULES WILL BE STRICTLY ENFORCED! FINAL RULE INTERPRETATIONS AND PARTICIPATION OF THE CAR WILL BE JUDGED BY THE CO-CHAIRMAN ONLY. THE INTENT IS TO HAVE A LEVEL PLAYING FIELD.**