

Caddo Nation

Pinewood Derby Rules and Procedures:

PLEASE NOTE WEIGHT MAXIMUM FOR NATION RACING CARS IS 5.0 OZ. USE THE BLOCK, AXLES (NAILS ONLY) AND WHEELS FROM THE PROVIDED KIT TO MAKE IT EASY TO ENSURE COMPLIANCE.

READ THE RULES CAREFULLY BEFORE BUILDING A CAR

We will employ a **Car Inspection Go/No-go Gauge** (<http://www.maximum-velocity.com/gauge.htm>) to ensure the car falls within the dimensional requirements set forth in the rules. The car needs to fit in the box to compete in the nation race. Look at the box below or check the hyperlink for details.



Derby Car Dimensions are below and cars built to these specs will fit in the go/no go box:

The overall length of the car shall not exceed 7 inches.

The overall width of the car shall not exceed 2 $\frac{3}{4}$ inches.

The car must have 1 $\frac{3}{4}$ " clearance between the wheels.

The car must have $\frac{3}{8}$ " clearance underneath the body so it does not rub on the track.

If the Car is over 4" Tall it will be disqualified since it will not fit under the finish gate.

Only graphite or dry lube is allowed. Only dry lubricant will be allowed on the cars to prevent damage to the track and to promote uniformity. No oils of **any** type are allowed.

Weight: There is a **maximum of 5.0 ounces allowed**, but there is no restriction as to how you achieve that weight. Anything from depleted uranium to Oreo cookies to weight the car is fine as long as the 5.0 oz limit is not exceeded, and it fits in the go/no go box. Lead and tungsten make great weights. The official race scale that is used at car check-in shall be considered final.

Wheel and Axles: **You Must Use the wheels provided in your kit.** The rules are very limiting as to work that can be done on these items. Rules regarding the

wheels are to specifically prevent the lightening of the wheels by a reduction of material. Suspect wheels will be removed and weighed, wheels weighing less than a stock cleaned up wheel will cause the car to be rejected. Axles can be polished and cleaned up, but that's about it. The wheels may not be cut, drilled, beveled or rounded. You may remove the seams and imperfections from the wheels.

The axles may be sanded/polished to remove pinch-marks, polished and lubricated. The wheel diameter cannot be reduced past the ridge (rippled) edge and the ridge (rippled) edge must remain intact on the entire wheel.

Wheel treads may not be rounded, tapered, grooved or shaped. Beveling, tapering, grooving or reducing the tread width of the wheels is strictly prohibited.

Items not disallowed in our rules: We do not have a restriction on wheelbase length, but the car still has to fit in the closed Go/No Go box. There is no restriction on spoilers, wing effects, number of wheels touching the track, holes drilled in cars, weight location, shape, or color as long as it fits in the box.

Car Modifications Not Allowed:

Wheel bearings, washers or bushings are prohibited

The car must not ride on any type of springs

No starting devices. The car must be freewheeling.

No loose material of any kind, such as lead shot, may be used.