

## **2020 “OPEN RACE” PINEWOOD DERBY RULES**

### **OPEN RACE CAR RULES:**

- The “OPEN RACE” is new to 2020 Pinewood Derby and is open to Moms, Dads, and volunteer Boy Scouts – please use the Sign-up Genius on the pack 216 website <http://pack216.cary.nc.us/> to register for this event
- The Pinewood Derby Chairman has final say on if a car passes inspection.
- Volunteer Boy Scouts must be in Class A Uniform in order to race on race day.

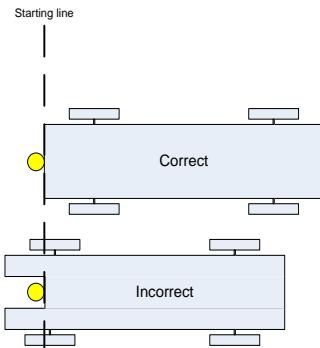
All cars must comply with the following OPEN RACE racing specifications which are based on the NPWDRL Unlimited class

#### **1. Length, Width, and Clearance**

- Overall width including wheels, axles, and attachments shall not exceed 2  $\frac{3}{4}$ ".
- The width between wheels must be 1  $\frac{3}{4}$ " so the car will clear the center guide strip on the track.
- Overall height including any attachments shall not exceed 4  $\frac{3}{4}$ ".
- Bottom clearance between the car and the track must be at least  $\frac{3}{8}$ " so the car will clear the center guide strip on the track.
- Overall length including any attachments shall not exceed 7.0".**
- The wheelbase (distance between the front and rear axles) is open as long as the wheels do not extend past the overall length requirement of 7.0"

#### **2. Car Body, Weight, and Appearance**

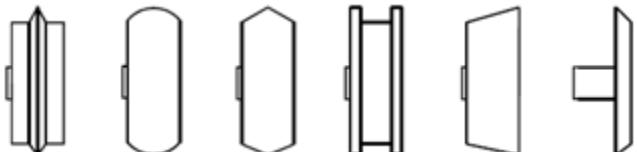
- The maximum weight shall not exceed 5.00 ounces.** The reading of the official scale will be final.
- No liquids or loose materials of any kind are permitted in or on the car.
- The car shall not have any parts that are live animals, reptiles, etc.
- Car shall not extend past the starting gate.



Note: The starting gate is a dowel coming up from the track that is lowered evenly among the four lanes at the same time. Any attempt to build a car that extends beyond the starting gate dowel will be disallowed.

#### **3. Wheels & Axles**

- The wheels may be modified – see examples of acceptable wheels in the snip-it here. Lathing wheels is permitted. Beveling, tapering, narrowing, thinning, thin sanding or wafering of the wheels is allowed.
- Washers and bushings are allowed.
- The car must have four operational wheels.
- The distance between front and rear axles can be altered.
- The car shall not ride on any type of springs.
- The car must be gravity powered, with no starting devices or other types of propulsion.**



#### **4. Lubrication**



- a. Only graphite or powdered Teflon "white lube" will be allowed for lubricating the wheels. You MAY NOT use any other lubricant, especially oil and silicone sprays.
- b. There will be NO lubrication after your car has completed Final Inspection and Registration.
- c. Lubrication must be applied outside of the Parish Center. If a car is seen being lubricated inside the building by one of the vehicle inspectors, that car will be disqualified.

#### **5. Inspection and Registration**



- a. Each car must pass inspection by the Official Inspection Committee before it may compete. The Inspectors have the right to disqualify those cars which do not meet these specifications. The Pit Boss has final say on if a car passes or is disqualified.
- b. Once the car has been inspected, weighed and registered, it will go to a holding area and can only be handled by the owner or designee for racing or repairing
- c. Once registered, there will be NO additional lubricant applied to the wheels. All lubricant should be applied outside of the building and PRIOR TO weigh-in (excessive graphite application has made a terrible mess of both the track and the Parish Center in the past years).
- d. No test runs before the event.

#### **6. Ground Rules and Competition**



##### **SPEED**

- a. The car cannot be altered in any way after the race starts, with the exception of repairs. NO GRAPHITE may be applied to the car during the race or while in the building.
- b. The speed race will be run on a six-lane track with timer. Each race participant will run six races, once on each lane. The winner will be the car that has the lowest total elapsed time in the races.
- c. Only Pinewood Derby officials and racers participating in the current race may enter the track area.
- d. Each heat will be announced. Drivers will retrieve their cars from the "garage," report to the starting line and place their cars on the designated track. The starter will start the race.
- e. The car whose nose is over the finish line first is the winner for that race as detected by the electronic finish device.
- f. The judge at the finish line will determine the winner if the electronic finish device fails.
- g. The drivers will then report to the finish line to retrieve their cars for the next race, and return their cars to the "garage" after the last race of the heat. The drivers return to their places outside the track area after the heat.
- h. If a car jumps the track or interferes with another car, the heat will not be counted and will be re-run. If a car jumps the track twice in the same heat, that car will be disqualified from the race.
- i. In the event of a breakdown on the track (a wheel falls off), a repair time of two (2) minutes will be allowed. Only the car owner and the Pit Crew will make repairs. One time only is allowed for repairs to a car.
- j. The Pinewood Derby Committee will handle any questions of the rules or problems that may arise during the event.
- k. The decisions of the Inspection Crew, the Derby Officials, and the Judges are final. These rules will be strictly enforced.

##### **DESIGN**

There is no design judging for the Open Race

Questions: Contact Jamie Mueller at [jmuelle0@yahoo.com](mailto:jmuelle0@yahoo.com)