

## 2016 Talakto District Pinewood Derby



# OPEN



### “Outlaw” Competition BODY

1. The car body must be constructed of pine wood using the official Grand Prix Pinewood Derbykit.
2. Car Dimensions:
  - Maximum car width (including wheels): 2-3/4 inches
  - Maximum car length: 7.0 inches
  - Maximum overall car height: 4.0 inches
  - Chassis clearance: Cars must clear the center rail of the track which is 1-3/4 inches wide by 1/4 inch tall along the entire center length of car.
3. The maximum car weight is 5.00 ounces (141.7 grams) – the official race scale is FINAL.
4. The following items are prohibited:
  - Moving or loose parts
  - Magnets
  - Sticky surfaces (glue, wet paint, visible oil, etc)
  - Starting devices or propellants
  - Electronic or lighting devices
  - Wheel bearings
  - Springs
5. An extended wheel base is allowed.
6. No part of the car may protrude beyond the leading (uphill) edge of the starting pin.
7. The front of the car resting against the starting gate shall not be higher than 1" from the track surface or less than 3/8" in width in the center. This will ensure the car properly rests against the starting gate.
8. Details, such as steering wheel and driver are permissible as long as these details do not exceed the maximum length, width and weight specifications.



### WHEELS AND AXLES

1. There must be at least four wheels on the car (left front, right front, left rear and right rear), however, it is not required that all four wheels make contact with the track surface.

2. The wheels must be attached directly to axle and spin freely.
3. Wheels must be 1.23 inches or smaller in diameter.
4. Wheels must be constructed of plastic, rubber, or polyurethane.
5. Axles must not be connected to any device that mechanically alters rotation and spin.



## **LUBRICATION**

For the Pack 361 Pinewood Derby:

1. **ONLY** dry lubricants are allowed. Approved lubricants include (but are not limited to) graphite and Teflon.

For the District Pinewood Derby:

1. Wet and dry lubricants are allowed. Visibly wet, oily, or greasy axles are not allowed. Over application of wet or dry lubricant which results in shedding onto the track is not allowed. Approved lubricants include (but are not limited to) graphite, Teflon, Nye oil, Krytox 100 oil, Super Z oil, mineral oil, etc.

**CAUTION:** One **small** drop of oil for each axle is all that is required. Proper application will create a **very thin film** of oil on the entire surface of the wheel bore. More oil is slower, **NOT** faster! **WARNING:** Oils ending with -ene or -ane, such as toluene, benzene, etc are prohibited!

These "aromatic oils" are carcinogenic and will soften plastic wheels.

## **GENERAL**

1. Each Pack will be given 4 slots for the Open race. Scouts, parents and siblings are allowed to enter the District Open Competition.
2. Scouts may compete at the Pack level to earn one of the four Open competition slots given to each Pack. Scouts are not required to build a separate car for the Open competition (they can build a new one if they so choose). However, cars racing in both the Open and Speed competitions **MUST** meet **ALL** of the requirements of the District Speed competition rules. (NO OIL ALLOWED for cars in the District Speed competition.)
3. Building a new car each year is not required. Cars raced in previous years can be modified for the Open competition.
4. The Scout/parent/sibling first name, last name and Pack number must be written on the bottom of the car.
5. During any heat, if a car leaves its lane and interferes with another car or suffers any mechanical problems, the racer will be given a chance to repair the car. No times will be

recorded and the heat will be re-run. If the same car causes interference or breaks down again, the heat will be re-run but without the offending car.

### **INSPECTION**

Each car must pass inspection by the District Inspection Committee before it may compete. If, at registration, a car does not pass inspection, the owner will be informed of the reason for failure, and will be given time within the official weigh-in time period to make adjustments to the car. After final approval, cars will not be re-inspected unless the car is damaged in handling or in a race.

Judge discretion applies to all issues both covered and not covered in these rules. Any dispute of these rules with regard to a specific car's eligibility to race in the District Race will be decided upon by no less than three members of the District Inspection Committee. The Committee's decision will be final.

No car shall be touched by non-race personnel once it has been passed through inspection. If for any reason a car is returned to its owner, it must be given a complete re-inspection to be reallocated into competition. It shall become the discretion of the race judging officials if a car is allowed to be re-inspected and returned to the competition.

At the completion of the Speed Competition, any car may be subjected to a post-race inspection at the discretion of the Inspection Committee.

