

# Pack 152 – Pinewood Derby Rules

## *Read the rules before starting to build your car!*

### **General:**

1. The scout must build a new car each year. Cars and/or tires from previous years are not to be modified and/or re-used.
2. The car must be free-wheeling with no starting devices.
3. Weight adjustments, the application of graphite/dry lubricants, or other car modifications can only be done prior to checking in the car at registration.
4. Hint / Front of car design: The starting mechanism consist a pin that rotates forward in the direction the car will be rolling. This pin is only about an 1/8<sup>th</sup> inch in diameter. Please design the front end to accommodate the starting mechanism. Example: If you design the front end of the car to look like an arrow (looking down from above the car) it may be difficult to stage the car at the starting line.
5. Hint / Front vs. Back: If your car does not have an obvious front and back it would be advisable to add some visual indication of the front of the car to help the Starters stage your car. Otherwise your car may end up running backwards for a few of the heats.

### **Wheels:**

1. Only the wheels that come with the kit **MUST** be used and **NOT ALTERED!**
2. They cannot be sanded, except to remove mold flashing and to true-up the tires.
3. They cannot be lightened or weighted.
4. They cannot have washers on either side.
5. Bushings and bearings are not allowed.
6. They **MUST** remain full width and **FLAT**.
7. Hub caps are not allowed.

### **Axles:**

1. Only the axles that come in the kit **MUST** be used and **NOT ALTERED** (except as described below).
2. Solid axles or replacement nails (other than from another Pinewood Derby kit) are not allowed.
3. You may remove the burrs on the head of the axle with a file/emery cloth. Be careful not to damage the shaft of the axle.
4. You may polish the axle with steel wool and/or polish.

### **Wheelbase:**

The distance between the front and rear axle **MUST** be kept the same as in the car supplied (That distance is approximately 4 3/8 inches).

### **Wheel Spread / Ground Clearance:**

1. The distance between the wheels from inside to inside must be 1 3/4 inches. The car rides over a strip that is 1 5/8 inches wide).
2. The distance from the bottom of the car to the track **MUST** be a minimum of 3/8 inches. This is to allow the car to ride over the guide strip that is 1/4 inch high.
3. The car shall not ride on any kind of spring(s).

### **Weight:**

1. The total weight of the car at registration must not exceed 5 ounces. (It is advisable for your car to weigh as close to 5 ounces as possible).
2. Weight can be added at registration.
3. No loose weight(s) will be allowed.
4. No liquid weights are permitted.
5. The scale used at registration on race day is final. All other scales do not count.

### **Dimensions:**

1. Width of the car must not exceed 2 3/4 inches.
2. Length of the car must not exceed 7 inches.
3. Height of the car must not exceed 3 inches (to avoid hitting the electronic timing device).

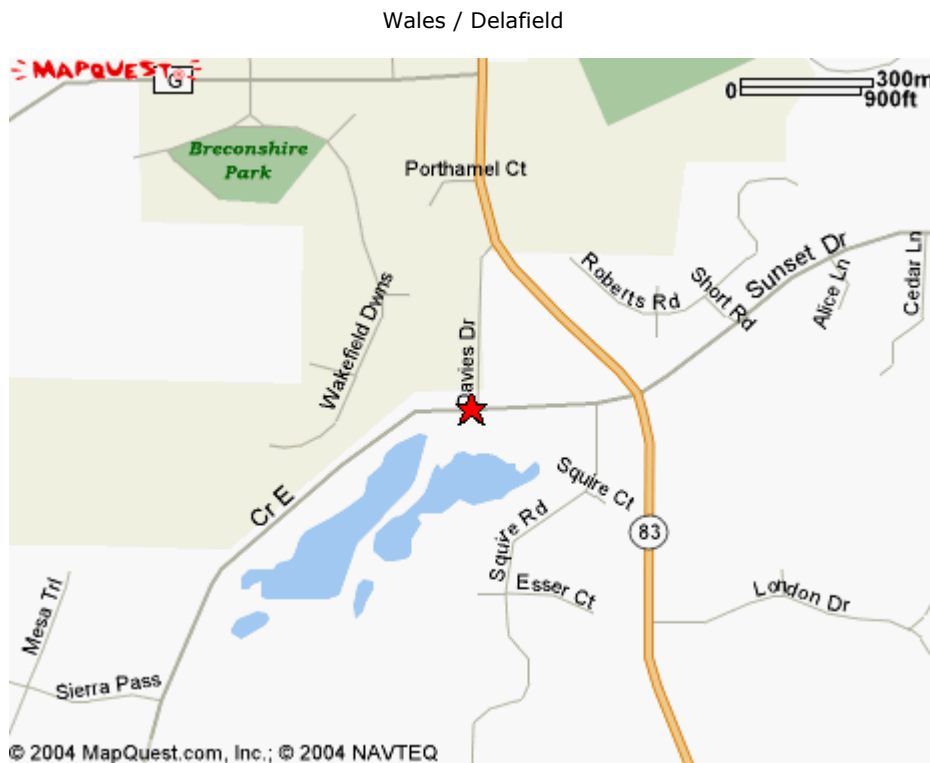
# PINEWOOD DERBY 2012

ALL SAINTS LUTHERAN CHURCH  
705 East Tomlin Road, Wales WI  
(Hwy 83 & Cty E)

JANUARY 21<sup>st</sup> 2012  
8:00am – 12:30pm

CAR REGISTRATION 8:00 to 8:30

RACE STARTS AT 9:00am



Genesee Depot / Genesee / Mukwonago