



## Pack 239

## PINEWOOD DERBY 2008 RULES

Weigh-in: Feb 27th Race: Feb 29th

### GENERAL INFORMATION

1. Cars must be made for this year's race. Cars used in previous races not permitted. Each car must be permanently marked on the bottom with the Scout's name and division ("Tiger", "Web1", "Open", etc.)
2. Scout must be accompanied by an adult at the weigh-in and the race.
3. The race is open to all Scouts registered in the Pack. Scouts will race against their peers (Tigers, Wolves, Bears, Webelos I, and Webelos II). There will be one Open division for non-Scouts (parents and siblings). Except for uniform wear, all rules apply to the Open Division.
4. Unsportsmanlike conduct by any participant or member of the audience at the weigh-in or the race will be grounds for exclusion from the competition and the race area.
5. **UNIFORMS MUST BE WORN ON RACE NIGHT!**

### INSPECTION AND WEIGH-IN

6. Each car must pass inspection by the Official Inspection Team before it may compete. The Inspection Team has the right to disqualify those cars that do not meet the rules. Car owners will be informed of the violations and given an opportunity to modify the car to meet these rules.
7. **No** provision for weigh-in will be provided on Race Night. Cars must be brought to Inspection and Weigh-In Night. Cars passing inspection will be impounded and kept by the Race Committee until Race Night. No modifications will be permitted after the car is impounded.
8. Any participant (or parent of the participant) has the right of appeal to the Race Committee for an interpretation of these rules. The Race Committee, by majority vote, will be the final judge of these rules. In the case of a tie vote, the decision of the Race Committee Chairman will be final.
9. Once a car has passed inspection, it is approved for competition and will not be re-inspected except by direction of the Race Chairman.
10. No modifications are permitted at the inspection table. If car modifications are needed as a result of inspection or weigh-in, you must step away from the inspection table to make them. You must then go to the back of the line.
11. There will be a table with a preliminary scale, drill, screws, washers, weights, etc. You may pre-weigh your car and make modifications before entering the line for inspection and weigh-in.
12. The official Pack 239 scale is the only scale authorized to determine the legal weight of the car. The Post Office scale doesn't count. *(It would be wise to be ready to add or remove weight at the weigh-in!)*
13. Once a car passes inspection, the Scout will put his car in a shoe box (or similar), be sure it is cushioned, and secure the lid with rubber bands. The committee cannot be responsible for any car damaged by bumping around in an uncushioned box. The committee will keep the car until Race Night.
14. A pit pass will be issued upon completion of inspection. It must be brought to Race Night.

### THE RACE

15. Each track is equipped with an electronic timer. Each car will race in each of the three lanes of the track during the "Preliminary Heats". The average time will be determined for each scout, and they will be re-ordered for racing in the "Trophy Heats." The cars will again race in each of the three lanes of the track. The average time of these Trophy Heats will determine the final order for awards.
16. During the race, each Cub Scout is responsible for his own car. **No one else may handle the car.** Only the scout "owner" of the car may race the car.
17. Electronic timer results for each race are considered final. If there is a track/timer malfunction during a race, that race will be repeated. If there is a malfunction with only one lane, the car in that lane will run again solo.
18. If a car jumps off the track it will receive a "no-time" for that race.
19. Trophy winners must complete six races (3 Preliminary Heats, 3 Trophy Heats) for time.
20. **No** modification or lubrication of a car will be allowed at the race. If a car has a simple mechanical problem (e.g. loses a wheel), a repair may be made.
21. If a car is not ready for one of its races, it will receive a "no-time" for that race.
22. Only Race Officials and Cub Scouts are permitted in the Pit and Track area.
23. Cars must be kept in the Pit area when not racing. Cars may not be removed from the Pit area for any reason except to race.

Note: Cars will be judged on appearance at 6:00 on Race Night by Scouts and spectators before the race begins. All appearance judging ends when racing begins. Participation in judging is optional.



# Pack 239

## PINEWOOD DERBY 2008 RULES CAR SPECIFICATIONS

<b>WIDTH OVERALL</b>	<b>2 3/4" (2.75") Maximum</b> (Including wheels and axles.)
<b>WIDTH BETWEEN WHEELS</b>	<b>1 3/4" (1.75") Minimum</b>
<b>CLEARANCE UNDER CAR</b>	<b>3/8" (0.375") Minimum</b> (Nothing may extend below car, except the wheels.)
<b>LENGTH</b>	<b>7" Maximum</b>
<b>HEIGHT</b>	<b>3 1/2" (3.5") Maximum</b>
<b>WHEELBASE</b>	<b>4 3/8" (4.375") Maximum</b> (Distance between front & rear axles.)
<b>WEIGHT</b>	<b>5.0 Ounces (141.75 grams) Maximum</b> (The reading of the Official Race Scale will be final.)
<b>WHEEL DIAMETER</b>	<b>1.145" Minimum</b>

### **PROHIBITED:**

- A. Loose materials of any kind in or on the car.
- B. Mercury.
- C. Moving parts other than the wheels.
- D. Cars with wet or sticky finishes. (Car finishes must be dry.)
- E. Beveling, tapering, thin sanding, wafering, lathe turning, etc. of the wheels.
- F. Wheel bearings, washers, sleeves, or bushings.
- G. Any type of springs or other suspension devices.
- H. Any starting device or other propulsion.
- I. Liquid lubricants, including silicone, liquid graphite, Nyoil, etc. ***New Procedure for 2008: During inspection, a torn paper towel edge will be touched to the axle and the towel fibers inspected with a magnifying glass. If anything is absorbed by the fibers of the towel, the car will be disqualified.***

### **WHEELS AND AXLES**

- A. **Only the official Scout Grand Prix Pinewood Derby wheels and axles may be used.**
- B. Wheels may be sanded to remove the mold projection on the tread. This sanding is the only wheel modification allowed. **The wheel "tread marks" must be completely visible around the sidewall of the wheel.** The wheel tread must be flat and parallel to the axle. The wheel width may not be altered.
- C. Axles may be filed or sanded to remove projections. Axles may be polished. No additional plating may be done over the original.
- D. All four wheels must be freewheeling (able to spin freely).

### **LUBRICATION**

- E. Only dry powdered graphite may be used. No other lubricant is allowed. (See "I." under Prohibited list above)
- F. Cars may be lubricated with graphite before inspection. No further lubrication will be permitted.

### **OTHER**

- G. Steering wheel, driver, spoiler, decals, painting and interior details are permitted as long as these details do not exceed the length, width, clearance and weight specifications.
- H. **No part of the car may extend beyond the point where the car touches the track's starting pin.**

#### **INSPECTION & WEIGH IN**

Wednesday, Feb. 27th, 2007  
**Village Oaks School Lobby**  
 6:00 to 8:00 PM

Bring: -A small box to hold your car.  
 -Cushioning material to protect your car in the box.  
 -Rubber bands to keep the box closed.

#### **RACE NIGHT**

Friday, Feb. 29th, 2007  
**Novi Middle School Cafeteria**  
 7:00 PM (Judging 6:00 PM)

Bring: Pit Pass received at weigh-in.  
 Wear: **Uniform** (Mandatory!)