

# **OFFICIAL PACK 94 PINEWOOD DERBY RULES**

UPDATED: 12/9/2013

## **Scout Den Races, Youth Open, Adult Open:**

1. ONLY CARS BUILT FROM AN "OFFICIAL BSA KIT" WILL BE ACCEPTED.
2. CARS MUST BE ORIGINAL IN THEIR ENTIRETY AND NOT FROM PAST DERBIES.
3. LENGTH, WIDTH AND CLEARANCES:
  - a. Maximum overall width (including wheels and axles) shall not exceed 2-3/4 inches.
  - b. Minimum width between the wheels shall be 1-3/4 inches so that the car will clear the center guide strip.
  - c. Minimum clearance between the bottom of car and the track shall be 3/8 inches, so that the car will clear the center guide strip.
  - d. Maximum overall length shall not exceed 7 inches.
  - e. Maximum overall height shall not exceed 3-1/2 inches.
  - f. The wheelbase (distance between front and rear axles) may be changed; however, the overall length of the car (including wheel protrusion) may not exceed 7 inches.
4. WEIGHT AND APPEARANCE:
  - a. Weight shall not exceed 5.000 ounces. The reading (5 seconds) on the official race scale will be considered final. The car may be hollowed out and built up to the maximum weight by the addition of wood or metal. Any additions must be firmly affixed or built into the car. No loose materials of any kind are permitted in or on the car. MERCURY, BB's, OR ANY OTHER MATERIAL USED TO HELP PROPEL THE CAR CANNOT BE USED.
  - b. Details such as lights, steering wheels, drivers, spoilers, painting, and decals are permitted, as long as these add-ons do not make the car in violation of any clearance specifications and are securely attached.
  - c. Cars with wet paint will not be accepted.
  - d. Tape may only be used for detailing or decoration. Parts or weights may not be attached solely by tape. Hot glue works well. Super glue is too thin and may bond something you did not want glued – like wheels to axles.
  - e. SEVERE undercutting (< 45 degrees), notching, and "V" shaped front ends (designed to give the PWD car an advantage at the starting pin) are strictly prohibited.
5. WHEELS AND AXLES:
  - a. Only official "SCOUT GRAND PRIX DERBY KIT" wheels and axles can be used. SOLID OR GROOVED AXLES ARE STRICTLY FORBIDDEN!
  - b. Wheels and axles may be modified by light sanding and polishing. The original thickness of the wheels must be maintained. Some of the original tread of the wheels must be visible. NO LATHING or CUTTING ALLOWED!
  - c. Wheel bearings, washers, or bushings are prohibited.
  - d. The car must be freewheeling with no starting device or other means of propulsion.
  - e. The car shall not ride on any type of springs.

## 6. LUBRICATION:

- a. Only dry powdered lubricants such as graphite may be used. Regular oils and silicone sprays may soften the plastic wheels, dissolve paint, and alter the track surface affecting car performance.
- b. Cars may be lubricated before inspection. AFTER INSPECTION, NO FURTHER LUBRICATION WILL BE PERMITTED.
- c. Lubing MUST be done in Gasoline Alley ONLY to prevent graphite stains and messes on the facilities floors.

## **OUTLAW RACE:**

### 1. Restatement:

- a. Outlaw cars must comply with the standard rules, with the exception of the following rules.

### 2. Outlaw Weight:

- a. There are no weight limits. Weights must still be firmly affixed or built into the car. No loose materials of any kind are permitted in or on the car. MERCURY, BB's, OR ANY OTHER MATERIAL USED TO HELP PROPEL THE CAR CANNOT BE USED.

### 3. Outlaw Wheels:

- a. Wheel Diameter cannot be smaller than 1 1/8 inches, nor greater than 1 3/16 inches.
- b. Wheels must be plastic
- c. All other modifications are allowed

### 4. Outlaw Axles:

- a. Axles must be a "nail" style axle and there should be 4 of them. All other modifications permitted.

**Please Note, The Decisions of The Judges Will Be Final!**

**Attention: Den Leaders, Parents, and siblings are encouraged to build and race a PWD car in the Open and Outlaw Class races. PWD kits are available from Committee members.**

Thank you,  
*Pack 94 Pinewood Derby Committee*