

# 2018 Great Lakes Field Service Council Official Pinewood Derby Rules and Regulations

## 1 GENERAL ELIGIBILITY

---

- 1.1 Each pack may use its own set of rules, BUT for a car to be eligible to race at any of the Council races, the following set of rules must be followed.
- 1.2 The registered Cub Scout must be a registered Scout of the Great Lakes Field Service Council or a 5<sup>th</sup> grade Cub Scout who bridged to Boy Scouts.
- 1.3 A uniformed (Class A) Scout must be present during the race who represents the “driver” of the car.
- 1.4 The car must be newly built from BSA licensed kits for the current Pinewood Derby Season. No repeats or repaints.
- 1.5 The car must be checked in during the appropriate check time period prior to the race.
- 1.6 A completed competition type car purchased from a third party seller is NOT allowed.

## 2 CAR BODY

---

- 2.1 The main body (chassis) must be made of pine wood. The car design may be enhanced by the addition of other stable materials such as plastic or metal. Any additions must be firmly attached, non-moving, and meet car size specifications.
- 2.2 The overall car must meet the following dimensional constraints:
  - 2.2.1 Length: Not to exceed 7 inches
  - 2.2.2 Width: Not to exceed 2.75 inches
  - 2.2.3 Height: Not to exceed 2.75 inches
  - 2.2.4 Weight: Not to exceed 5.00 ounces
  - 2.2.5 Clearance: The wheels are the only part of the car allowed to touch the track.
  - 2.2.6 Center Rail Width: Wheels must clear center guide rails, no less than 1.75 inches minimum.
- 2.3 When placed in the starting position, no part of the car may protrude beyond the starting pin.
- 2.4 The following items are prohibited inside of the body or out: springs; starting devices, propellants; non-gravity assisted propulsion devices; electronic or lighting devices that interfere with race electronics; liquids, oil, glass, bearings or bushings; and loose or moving objects.
- 2.5 Holes can be drilled into the car body to create new axle holes.

## 3 WHEELS

---

- 3.1 WHEELBASE: The distance between the center of the front and rear wheel must be no less than 4 inches.
  - 3.1.1 Extended wheel bases are allowed as long the car does not violate rule 2.3.
- 3.2 Only official current BSA wheels are allowed. Competition speed wheels sold by hobby shops are NOT allowed.
- 3.2 Cars must have 4 wheels. Each wheel must be attached to the car’s wood chassis with a legal axle.
  - 3.2.1 All four wheels do not need to touch the track surface.
- 3.3 The front most and rear most wheels must be positioned across the body from one another.
- 3.4 All lettering, numbering, fluting, spokes, and other OEM markings on both inside and outside of wheel must remain complete and be visible with the wheel on the car.
  - 3.4.1 Current model BSA wheels DO NOT need be sanded to remove any imperfections with injection molding. No physical alteration to the wheel is allowed.
- 3.5 Removing any material from the wheel hubs, inside or outside, are prohibited.
- 3.6 The tread surface must be flat and parallel to the wheel bore. Therefore, the following modifications are prohibited: 1. Rounding of the tread surface. 2. Grooving, H cutting, or V cutting the tread surface.
- 3.7 Wheel dimensions must NOT deviate from a sample inspection wheel during check-in.
- 3.8 Adhering hubcaps, stickers, polish, paint, or glue to any wheel surfaces are prohibited.
- 3.9 Wheel bearings, bushings, and washers are prohibited.

## 2018 Pinewood Derby Rules

- 3.10 Wheels that show scratches or marks beyond normal wear and tear will be asked to be replaced.

### 4 AXLES

---

- 4.1 Only official BSA provided steel axles included in the BSA Grand Prix Kit or provided with the BSA wheel pack are allowed.
- 4.2 Axles may NOT be altered in any way except for light sanding to remove the burrs and polishing.
- 4.2.1 The diameter of the axle(nail) must be roughly the same diameter as the original BSA nail.
- 4.2.2 Grooves in the axles or the heads of the nails are prohibited.
- 4.3 The front most and rear most axles must be positioned across the body from one another.
- 4.4 Bending of the axles are allowed to cant the wheels.

### 5 LUBRICATION

---

- 5.1 Only dry powdered graphite is allowed for lubricating the wheels.
- 5.1.1 All graphite must be completely dry at the time of check-in.
- 5.1.2 Excess graphite that interferes with the performance of another car will be removed.
- 5.2 Cars with any type of the liquid oil, synthetic lubes, etc. will NOT be allowed to race.

### 6 WEIGHTS

---

- 6.1 The total car weight must not exceed 5.00 ounces.
- 6.2 All material used to weigh the car to the maximum allowed weight should be in solid form.
- 6.3 The parent or guardian of the Scout must take all responsibly to ensure safe materials are used and the materials do not cause any harm to the Scout or other individuals.

### 7 REGISTRATION AND RACE DAY RULES

---

- 7.1 Each car must pass inspection by the Official Inspection Committee before it may compete. The inspectors will disqualify any car not meeting these rules or the spirit of the rule. Any adult or Scout may appeal the findings of the inspectors to the Race Committee Chairperson, whose decision is final.
- 7.2 Every effort will be made to do the inspection without any alterations to the car. If the race officials cannot verify that the wheels or axles have not been lightened due to weights, air dams, fenders, or other reasons, they will ask YOU to take the wheels off for inspection.
- 7.3 After a car has passed inspection, only race officials may handle the car.
- 7.4 After check-in, adjustments are NOT allowed. Car repairs during the race are NOT allowed unless authorized by the race officials. All repairs will be made by a race official. If any item, other than a wheel and axle, falls off, it stays off the car.
- 7.5 Disabled cars may continue to run until they no longer will go down the track or pose eminent damage to the track or another car.
- 7.6 The race officials' decision(s) in any race matter will be final.
- 7.7 Race heats may be rerun if computer errors occur, the computer system prompted reruns, or interference happens. These reruns are at the sole discretion of the race officials. A race will not be rerun because of poor performance.
- 7.8 Good sportsmanship and behavior is expected. Race officials may ask anyone not following this rule to leave.

### 8 QUESTIONS

---

Questions regarding rules may be addressed to Council Race Officials at [GLFSCPineWoodRace@gmail.com](mailto:GLFSCPineWoodRace@gmail.com)

**Great Lakes Field Service Council Pinewood Derby Racing save the date**  
Regional Semi-Finals are April 28, 2018 · Grand Championship are May 19, 2018