

Pack 567 Pinewood Derby Rules

GENERAL: (Applies to all classes)

G-1. Essential Materials: All cars entered shall be constructed from the **Official Grand Prix Pinewood Derby Kit** (referred to below as **the kit**) as sold by the Scout Service Center, Racine, WI. (Kits may be purchased elsewhere if they are of the exact type specified above.)

G-2. Competitor Categories: Cub Scouts will compete with others in the same class.

G-3. Attendance: Only the Cub Scout may enter his car or cars. This means that the Cub Scout must be present to enter his car into competition.

G-4. "New Work": Construction of entries must not have begun before the previous year's Pinewood Derby Races.

G-5. "Inspection and Entry": The inspection judges at race-day check-in are responsible to evaluate each car's adherence to the technical standards and eligibility. Cars will be turned in for weighing and inspection before competition begins. Once turned in, the car must stay on the staging table until competition is complete. No more car preparation of any kind is allowed after car is weighed, inspected, and accepted.

G-6. "Construction": Accessories, body finish, decoration, etc are allowed. Creativity is encouraged. Boys shall be prepared as a boy/parent project (ideally together). The boy should be allowed to do as much of the preparation work that he is able to do. When working with tools, parents must approve what the boy can safely handle.

G-7. "Emergency Repairs": Emergency repairs will be allowed if approved by the committee.

RACE: CUB CLASS

Qualification: All registered Cub Scouts (Tiger, Wolf, Bear and Webelos I)

Entry Fee: None (Derby kits are provided by the Pack)

S-1. Material: Race cars shall be constructed for this event from the parts contained in the **Official Grand Prix Pinewood Derby Kit** (referred to below as **the kit**) as sold by the Scout Service Center, Racine WI. Materials from **the kit** may be supplemented but not replaced.

S-2. Weight: Race cars may weigh no more than five (5) ounces (total weight) as determined on the official scales during race day inspection.

S-3. Wheels and Axles: The car shall roll on the wheels from **the kit**. The wheels shall turn about the axle nails from **the kit**. There must be at least four wheels on the car, however, it is not required that all four wheels make contact with the track surface. "Colored BSA" wheels sold by official BSA service centers are also allowed. **It must be obvious to the judges that the wheels and the nails from the kit are being used.**

S-4. Size: Race cars may be no longer than 7 inches, nor wider than 2 3/4 (2.75) inches, nor taller than 3 inches, as determined by the official gages during race day inspection. (Underside clearance of at least 3/8 (0.375) inches and inside wheel to wheel clearance of at least 1 3/4 (1.75) inches is recommended, so that the car will run on the racetrack. Adequate clearance is the responsibility of the race car builder.) The wheel base (axel to axel distance) must not be modified.

S-5. Weights and Attachment: Weight may be added to the car and will be considered part of the car for purposes of all measurements. "Weight" is considered to be any material on the car that is not provided in **the kit**. All weight must be securely fastened to the car, e.g. by permanent glue, nails or screws, but not by "sticky substances", e.g. tape, or tack spray. Weights shall be passive, i.e. non-moveable, non-magnetic, non-electric, non-sticky, etc.

S-6. Wheels: Wheel treatment (hub and tread smoothing and polishing) is allowed but the words "Official B.S.A. Made in U.S.A." and other lettering on the wheels shall remain intact and clearly visible to the inspector. Some of the original "tread marks" on the wheel face must be intact, i.e. apparent to the inspector.

S-7. Unacceptable Construction: The following may NOT be used in conjunction with the wheels or axles: washers, inserts, sleeves, bearings.

S-8. Gravity Powered: The race car may not be constructed or treated in such a way that the track's starting mechanism imparts momentum to the car. (For instance, this provision disqualifies cars with sticky substances on the front of the car and protrusions which may catch on the starting pin.)

S-9. Lubricants: Lubricants must be dry at the time of inspection and racing.

S-10. Staging: The entire car must stage behind the starting line.

S-11. Body: The car body may have no moving parts.

S-12. Prohibited Items: The following items are PROHIBITED:

- A. Springs
- B. Starting devices or propellants
- C. Electronic or lighting devices
- D. Liquids, wet paint, oil, sticky substance, or powders of any kind (other than axle lubrication)
- E. Glass or excessively fragile parts
- F. Wheel bearings
- G. Loose objects on car
- H. Magnets

RACE: Family Class

Qualification: Scout Buddies (siblings), Den Chiefs, and Alumni of Pack 567.
(NO ADULTS)

Entry Fee: \$5 (Must provide own derby kit)

A-1. Material: Race cars shall be constructed for this event from the parts contained in the **Official Grand Prix Pinewood Derby Kit** (referred to below as **the kit**) as sold by the Scout Service Center, Racine WI. Materials from **the kit** may be supplemented but not replaced.

A-2. Weight: Race cars may weigh no more than five and one half (5.5) ounces (total weight) as determined on the official scales during race day inspection.

A-3. Wheels and Axles: The car shall roll on the wheels from **the kit**. The wheels shall turn about the axle nails from **the kit**. There must be at least four wheels on the car, however, it is not required that all four wheels make contact with the track surface. "Colored BSA" wheels sold by official BSA service centers are also allowed. **It must be obvious to the judges that the wheels and the nails from the kit are being used.**

A-4. Size: Race cars may be no longer than 7 inches, nor wider than 2 3/4 (2.75) inches, nor taller than 3 inches, as determined by the official gages during race day inspection. (Underside clearance of at least 3/8 (0.375) inches and inside wheel to wheel clearance of at least 1 3/4 (1.75) inches is recommended, so that the car will run on the racetrack. Adequate clearance is the responsibility of the race car builder.) The wheel base (axel to axel distance) must not be modified.

A-5. Weights and Attachment: Weight may be added to the car and will be considered part of the car for purposes of all measurements. "Weight" is considered to be any material on the car that is not provided in **the kit**. All weight must be securely fastened to the car, e.g. by permanent glue, nails or screws, but not by "sticky substances", e.g. tape, or tack spray. Weights shall be passive, i.e. non-moveable, non-magnetic, non-electric, non-sticky, etc.

A-6. Wheels: Wheel treatment (hub and tread smoothing and polishing) is allowed but the words "Official B.S.A. Made in U.S.A." and other lettering on the wheels shall remain intact and clearly visible to the inspector. Some of the original "tread marks" on the wheel face must be intact, i.e. apparent to the inspector.

A-7. Unacceptable Construction: The following may NOT be used in conjunction with the wheels or axles: washers, inserts, sleeves, bearings.

A-8. Gravity Powered: The race car may not be constructed or treated in such a way that the track's starting mechanism imparts momentum to the car. (For instance, this provision disqualifies cars with sticky substances on the front of the car and protrusions which may catch on the starting pin.)

A-9. Lubricants: Lubricants must be dry at the time of inspection and racing.

A-10. Staging: The entire car must stage behind the starting line.

A-11. Body: The car body may have no moving parts.

A-12. Prohibited Items: The following items are PROHIBITED:

- A. Springs
- B. Starting devices or propellants
- C. Electronic or lighting devices
- D. Liquids, wet paint, oil, sticky substance, or powders of any kind (other than axle lubrication)
- E. Glass or excessively fragile parts
- F. Wheel bearings
- G. Loose objects on car
- H. Magnets

RACE: PRO MODIFIED CLASS

Qualification: Parents, Leaders, Webelos II, Den Chiefs, and Alumni of Pack 567.

Entry Fee: \$5 (Must provide own derby kit)

M-1. Material: Race cars shall be constructed for this event **based on** the **Official Grand Prix Pinewood Derby Kit** (referred to below as **the kit**) as sold by the Scout Service Center, Racine WI. Materials from **the kit** may be substituted or replaced. No metal should contact with the track at any time.

M-2. Weight: Race cars may weigh no more than six (6) ounces (total weight) as determined on the official scales during race day inspection.

M-3. Wheels and Axles: There must be at least four wheels on the car, however, it is not required that all four wheels make contact with the track surface. Wheels must be constructed of plastic, rubber, polyurethane or other non-metal material. Wheel hubs may be made of metal, but may never come in direct surface contact with the track.

M-4. Size: Race cars may not interfere with cars in the other lanes. (Underside clearance of at least 3/8 (0.375) inches and inside wheel to wheel clearance of at least 1 3/4 (1.75) inches is recommended, so that the car will run on the racetrack. Adequate clearance is the responsibility of the race car builder.) The wheel base (axel to axel distance) can be modified.

M-5. Weights and Attachment: Weight may be added to the car and will be considered part of the car for purposes of all measurements. All weight must be securely fastened to the car, e.g. by permanent glue, nails or screws, but not by "sticky substances", e.g. tape, or tack spray.

M-6. Wheels: Wheel treatment of any kind is allowed. Wheels do not have to be from **the kit**.

M-7. Lubricants: Lubricants must be dry at the time of inspection and racing.

M-8. Staging: The entire car must stage behind the starting line.

M-9. Body: Any moving parts on the body of the car must be securely fastened so they do not come off during the race.

M-10. Prohibited Items: The following items are PROHIBITED:

- A. Liquids, wet paint, oil, sticky substance, or powders of any kind (other than axle lubrication)
- B. Flammable propellants (No flames!).
- B. Glass or excessively fragile parts.