

Hawk Mountain Council

Frontier District



2025 Cub Scout District Pinewood Derby

Boyertown Museum of Historic Vehicles
85 S. Walnut St.
Boyertown, PA 19512

Saturday, March 15th, 2025

**2025
HAWK MOUNTAIN COUNCIL
FRONTIER DISTRICT**

Dear Cubmasters & Committee Chairs:

The 2025 Frontier District Pinewood Derby will continue a great tradition of Frontier District activities, and your committee has been actively planning this year's event to make it a success. I wanted to get the District Pinewood Derby information into the hands of the leaders, so that it can be distributed to the Cub Scouts in your Packs, giving them the chance to plan to come to this event!

Please take time to read and share the attached Official Frontier District Pinewood Derby Rules and Regulations with your cubs and their parents. Register on-line at <https://www.scoutingevent.com/528-FRPWD25> as the preferred registration method or send in paper registration forms by Friday, February 21st to get the early registration fee of \$11.00 per racing Cub Scout participant. **Registration by paper form will not be accepted after Monday, March 3rd. Online registration will continue until 11:59 PM Friday, March 7th. Online and paper registrations received after Friday, February 14th will be subject to the late fee price of \$13.00 per scout.** The walk-in fee on the day of the event is \$15.00. Please provide the roster forms at the back of this guide along with your registration if using the less preferred method of paper form registration. **All participating cubs will receive a patch and there will be trophies for the top 3 finishers. There will also be trophies for the "Best Car Design" and "Best Paint Job".**

We are very excited to be able to host this year's event from the Boyertown Museum of Historic Vehicles! Admission to the museum is built into the cost of attending for participating scouts. Adults in Field Uniform (aka Class A) have free admission to the museum for the event. Non-uniformed adult partners have half-off admission at \$5 (or \$4.50 for senior citizens & AAA members) and siblings under age 15 are free with the purchase of an adult admission.

We would like to invite a representative from your Pack to join the District Activities Committee to help in the planning and carrying out of this and future district activities. The District Activities Committee is present at the District Roundtable meetings, and it would be great to see you there.

Finally, don't be afraid to ask questions prior to the derby. Please feel free to contact either District Executive Charles Andrews at (610) 926-3406 x1233 (Council Service Center) about administrative questions or me at (484) 333-5376 or at philipboyercontracting@windstream.net.

Yours in Scouting,

Phil Boyer



Frontier District Pinewood Derby



OFFICIAL PINEWOOD DERBY RULES

Please read these Rules and Instructions before building your car.

Cars should be built by the Cub Scouts with some adult guidance. Any technical assistance should be fully explained to the Cub Scouts so that they can use that knowledge on future projects.

CAR SPECIFICATIONS:

- Width: 2-3/4"
- Length: 7"
- Weight: Not over 5 ounces
- Width between wheels: 1-3/4"
- Maximum height shall not exceed 3-1/2"
- Bottom clearance between car and track is 3/8".
- The wheelbase length of 4-3/8".

RULES

Eligibility of Contestants and Cars

- Cars in the District Pinewood Derby must have been made for this race season. Scouts may not use a car made for a previous year's race.
- Lions, Tigers, Wolves, Bears, Webelos I's, and Webelos II's will race together.

Length, Width & Clearance

- Maximum overall width (including wheels and axles) shall not exceed 2-3/4"
- Minimum width between wheels shall be 1-3/4" so car will clear the center guide strip.
- Minimum clearance between the bottom of the car and track shall be 3/8" so the car will clear the center guide strip.
- Maximum length (including wheels) shall not exceed 7".
- Maximum height shall not exceed 3-1/2".
- Since the starting pins are round, the minimum width of the front of the car is 1/2 inch.
- The front end may be no more than 1/4 inch above the axle line.

- The wheelbase length (distance between the front and rear axles, center to center) may not be changed from the kit body distance of 4-3/8".

Wheels and axles

- Only the wheels and axles that are official BSA (Boy Scouts of America) may be used. This includes the colored BSA wheels.
- Axles must not be connected to any device that mechanically alters rotation and spin, such as bearings, bushings, etc.
- The car may not ride on any type of springs.
- Axles may be lightly filed, sanded and polished. This light filing, sanding and polishing is the only axle modification allowed.
- The nail heads, from the axles, must be in full view.
- Wheels may be lightly sanded and polished. This light sanding and polishing are the only wheel modification allowed. No honing or cutting of wheels is allowed.
- BSA markings and side tread must remain and may not be altered.

Weight and Appearance

- Weight shall not exceed 5 ounces. The readings of the Official Race Scale will be considered final.
- The car body may be carved, sculpted, and/or sanded in order to enhance performance and/or appearance.
- No loose materials of any kind are permitted on or inside the car.
- Additional materials may be added to the car for the following purposes only:
 - Weights may be added to increase the weight and/or alter the weight distribution of a car.
 - Paints/decals/decorations may be added to alter the appearance and/or aerodynamics of a car.
 - Glue may be used to adhere the axles to the car body.
 - Wood putty, or a similar wood-like substance, may be used to fill or repair minor damage to a car.

Lubrication

- Only dry lubricants (i.e. - graphite, teflon, etc.) are allowed.
- A car may be lubricated before inspection and should be done outside the race hall. This is the last time when lubrication is permissible before racing. Specifically, cars may not be lubricated while competing in a set of heats.

Ground Rules

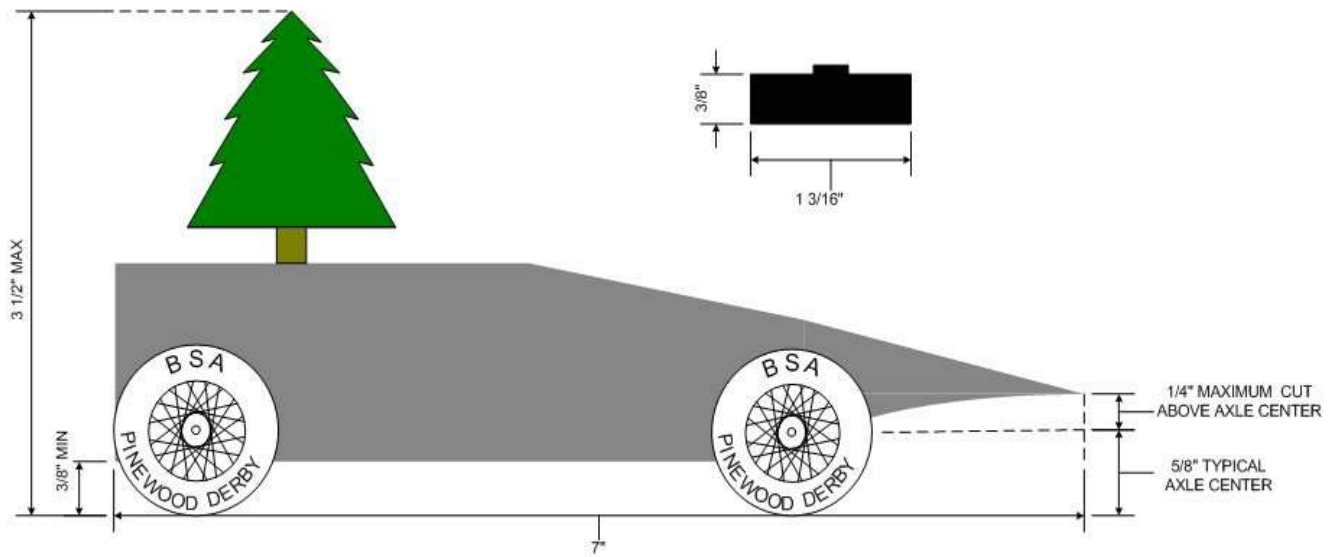
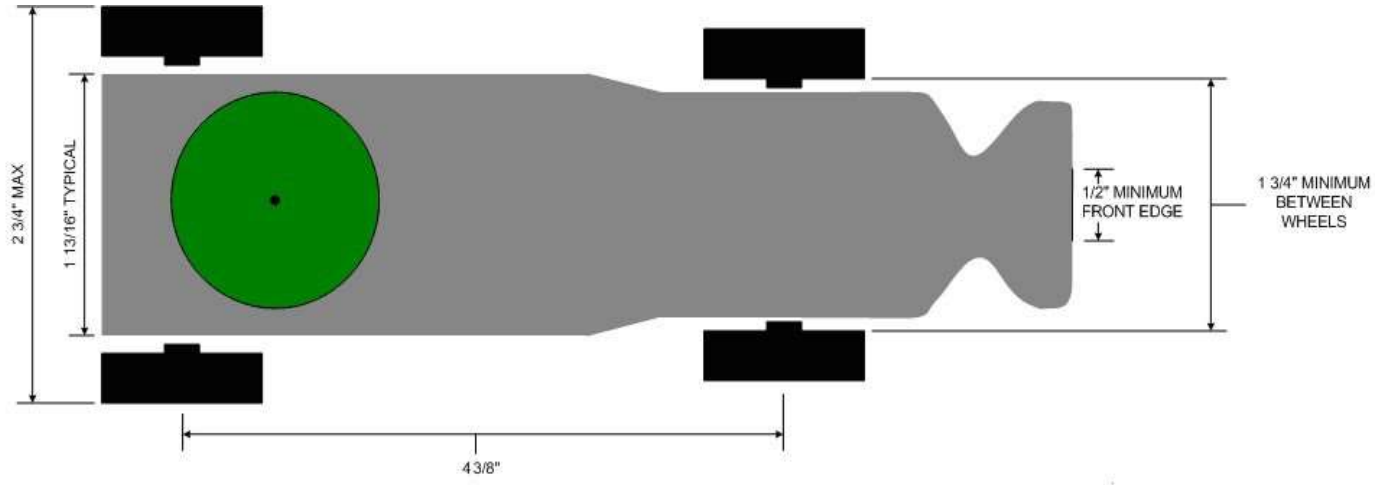
- If a car jumps off the track, the heat will be run again. If the same car jumps off the track a second time, it will automatically lose the heat.
- If a car leaves its lane and interferes with another car, the heat will be run again. If the same car leaves its lane a second time and interferes with another car, the heat will be run again without the interfering car. The interfering car will automatically lose the heat.
- If a car suffers a mechanical problem and a repair can be accomplished within 5 minutes, the heat will be run again. If not, the car will automatically lose the heat.

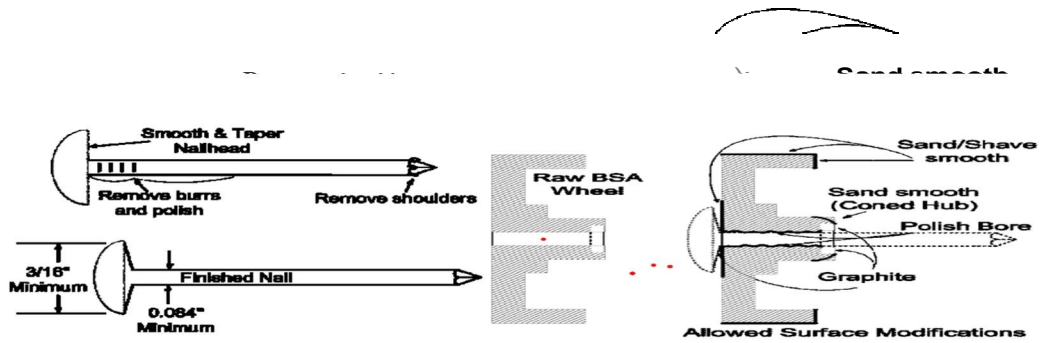
- If a car becomes damaged, a parent or guardian will be allowed into the pit area to make repairs. Once a car has been repaired, it will be re-inspected and re-weighed.
- No participants or parents or guardians will be allowed into the racing pit area. Once a car has been inspected and weighed, participants will not have access to the car again until the car has finished racing and is returned to the participant.

Inspections and Disputes

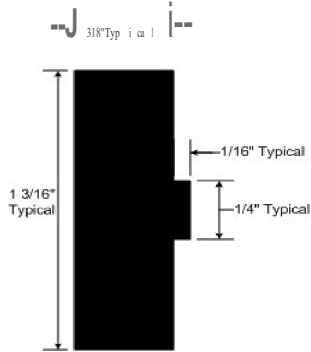
- Each car must pass inspection by the Official Inspection Team before it may compete.
- The Inspection Team has the right to disqualify those cars, which do not meet the rules. Car owners will be informed of the violations and given an opportunity to modify the car to meet these rules.
- Un-Scout-like or unsportsmanlike conduct by any participant or member of the audience will be grounds for expulsion from the competition and/or race area.

Sample layout of a car with dimensional guidance





Kit Wheel



Acceptable Wheel



Trued and smoothed with the rough edges smoothed and coned hub

Unacceptable Wheel Profiles



Shaved thin to reduce mass



Shaved and a Single Point of contact left to reduce friction (commonly called V profile)



Shaped for Only Two Points of contact left to reduce friction (commonly called H profile)



Rounded to reduce friction

2025

Frontier District Pinewood Derby

RACE DAY SCHEDULE

| Divisions | Weigh-In | Race | Awards |
|------------|-------------|--------------|---------------|
| All Groups | 8:00 – 9:00 | 9:30 – 10:45 | 10:45 – 11:00 |

Please come early for weigh in. Lines can be long, and we need to start racing on time. Cars will be returned to participants only after the division run is over. You will be assigned a number when your car is registered. This number will be used for all races.

Walk-ins will be accepted on the day of the race at \$15.00 each regardless of how many people from your pack have already registered.

Join the Fun!!!

2025
Frontier District Pinewood Derby
PARTICIPANT REGISTRATION FORMS (2 of 2)

Online registration on the council calendar is the preferred method of registration!

Go to <https://hmc-bsa.org/> and click on "Calendar".

<https://www.scoutingevent.com/528-FRPWD25>

Previous page is required for paper form registration and is due by March 3rd, 2025.
(Early bird fee available until February 14th)

Please register _____ Cub Scouts @ \$11.00 each until February 14th = \$ _____
Please register _____ Cub Scouts @ \$13.00 each from February 14th to March 3rd = \$ _____

Payment may be made by one of the following:

____ (check) Make checks payable to: Hawk Mountain Council. Write 'Frontier District Pinewood Derby' in the check memo.

____ (Credit card) MasterCard – Visa – Discover (circle one)

Name as it appears on card _____

Address: _____

Credit Card Number: _____

Expiration Date: _____

3-digit code on back of card _____

PLEASE SUBMIT REGISTRATION FORM WITH FEES BY:

Monday, March 3rd, 2025.

Paper registration using this form will not be accepted after Monday, March 3rd, 2025.

TO: **HAWK MOUNTAIN COUNCIL**

5027 POTTSVILLE PIKE

READING, PA 19605-1284

Attn: Frontier District Pinewood Derby