Overview of the Northampton District (ND) Pinewood Derby® (PWD) Race Rules

To *compete* for a *speed* trophy at the ND PWD Race your car must comply with the ND PWD Race Rules which is the *checklist* on the other side of this paper. All cars during the ND Check-In will be inspected using these Checklist Rules. For the latest info on the ND PWD refer to www.minsitrails.org, & in the blue banner hover over "Districts", select "Northampton District", & scroll down the Upcoming Events Listed & select the ND PWD Race.

To learn more, find & attend or even create a PWD workshop, find that experienced Racing Team, attend the Champ Camp at the Council Scout Shop, &/or refer to www.scoutshop.org/pinewood-derby. The more you put into PWD the more you get out of it. But be careful of irrelevant information from the web or in person. SO ...

* * * ASK QUESTIONS WELL BEFORE YOUR PACK'S RACE * * *

Reach out to your Pack PWD Chair for clarification of your Pack's rules & its race.

Refer to the ND PWD Guide for clarification of the ND PWD Race Rules.

For the final answer to questions about the ND PWD Race & its Rules, reach out to the ND PWD Chair, Chris Van Camp at 513-253-8174 (M) or at MTCNCDPWD@gmail.com.

If you are following the Checklist Rules & are alert to the overlooked details listed below, you *should not* have a problem during the Inspection. However, if the car does not pass, the Racing Team (the Cub Scout & their Akela), MAY be allowed, with approval from the ND Race Committee, to adjust the car as needed on a case-by-case basis. If the car still cannot pass the Inspection & it is *safe*, it can *participate* in the ND PWD Race. However, the car is *not* eligible to win a speed trophy, but it *IS* eligible to win a specialty trophy.

Specialty Trophy Categories

Best Cub Scout Theme Most Patriotic Funniest Best Not A Car Most Unique

These overlooked details cause 99% of the violations during the Inspection

- The car must be safe to race. The car cannot interfere with the other cars & cannot have ANY loose, fragile, dangerous parts, etc. An unsafe car, to person or property, cannot even *participate* in the ND PWD Race.
- 2) The car's "core" MUST be constructed using the <u>components</u> from the Official BSA Pinewood Derby® Car kit box #17006 (2018© &/or 2012©) &/or #17000 (2018© &/or 2009©). The components in these boxes include:

The BSA Pinewood Block The 4 BSA Nails The 4 BSA Wheels

- a) Alternatives: Only from a BSA Scout Shop, the BSA Wedge & the BSA Tubes containing Wheels & Nails.
- b) ONLY go to your Pack PWD Chair &/or a BSA Scout Shop to get a legal Kit or Wedge or a Tube of Wheels & Nails, *EVEN* if a <u>component</u> breaks. Do *NOT* use any other sources, they will *NOT* pass the Inspection.
- 3) You *must* construct your car. No cars &/or <u>components</u> from previous years, prefinished, professional, etc.
- 4) The ND scale is probably more precise than your Pack's scale. So, BE PREPARED to remove a little bit of weight (e.g., by use of putty in a hole) to comply with the maximum weight of 5.00 ounces.
- The ENTIRE car MUST meet all the dimension requirements: heights, lengths, & widths.
- 6) If anything is added to the car's underside it must be no more than 1/8" thick & no more than 1 1/8" wide & centered. AND do **NOT** cover the axle slots. (Try to put weight *inside* or on *top* the back 1/3 of the car.)
- 7) The BSA pinewood block's pre-cut slots MUST be used by the axles. NO OTHER axle slots permitted.
- 8) The 2 axle slots MUST be visible to inspect. Do **NOT** cover the axles. If an adhesive is used, make it clear.
- 9) All 4 wheels MUST be BSA Wheels. Colored wheels are allowed. Only <u>LIGHT SANDING</u> to remove <u>MINOR</u> tread imperfections is permitted. *No alterations!* Nothing removed! Nothing added! No outer/inner coverings! *ALL* 4 wheels *MUST* be in *CONTACT* with the lane at the same time throughout their full rotation!
- 10) ONLY a graphite-based DRY lubricant is permitted. It cannot be applied after the Inspection.

The Northampton District (ND) Pinewood Derby® (PWD) Checklist Rules

Weight/Overall Inspector

Guided by the Scout Law & Oath (Have Fun & Do Your Best)	Cub Scout shall be in Class A Uniform (Represent Your Pack Well)
Car Submitted by Registered Scout (Lions to Current School Year AOLs & Their Racing Team)	Scout Built This School Year from Scratch (NO: Repeats, Repaints, Old Components, Professional, Etc.)
Unaltered Since Pack Inspection (ONLY More Graphite & Wheel Cleaning Permitted)	BODY Component is a BSA PWD BLOCK! (NO: Other Material, Blocks, Kits, Prefinished, Professional, Etc.)
No Sticky Substance (NO: Excess Glue, Wet Paint, Tape, Magnets, Etc.)	If Lights/Sound Attached, Turned Off (However, Lights & Sounds are Encouraged for Creativity)
No Moving Weights or Liquids (All Parts Solid, Secure, & Safe)	No Fragile or Loose Parts (No Glass, Mercury, Dangerous Parts, Etc.)
$\underline{WEIGHT \leq 5.00 \ OUNCES!}$ (Not Grams. Up to 5.004 Ounces Permitted. NOT 5.005)	(NO PROPULSION SYSTEM. PERIOD!)
Dimensions	Inspector
OVERALL LENGTH = 7" (Ideally) to 6 3/8" (Caution Block's Length, Cutting Ends, Adding Lights, Pipes, Etc.)	Height ≤ 6" (Lower the Better) (ND PWD BestTrack® Champ Timer Clearance is 6 ½")
OVERALL WIDTH ≤ 2 ³ / ₄ " (Including Wheels & the Axle Heads & Fenders, Etc.)	WIDTH Between Wheels ≥ 13/4" (Inside Edge Between Wheels Using Same Axle Slot)
Wheels Do Not Extend Beyond Body (Wheels MUST Remain Behind PWD Block's Front & Rear Ends)	No Protrusion Beyond Starting Pin (NOTHING May Extend Beyond the Starting Side of the Pin)
WHEELBASE LENGTH = 4 3/8" (Do NOT Make New Axle Slots or Extend Wheelbase)	Block End Lengths are between 1" & 1 5/8" (From Each Associated Axle Slot to the PWD Block Ends)
Underside Attachment Width ≤ 1 1/8" (Centered & NO Sharp &/or Abrasive Material)	GROUND CLEARANCE ≥ 3/8" (NO MORE than 1/8" Thickness Added to Underside of Car)
Bottom of Nose (Front) ≤ 1" High (Up Curved Nose Allowed but Higher is not Better)	Nose (Front) Width $\geq 1/2$ ", Centered (No Pointy Nose)
Axles Ins	pector
AXLES are 4 BSA PWD NAILS! (NO Other Axles. Prefinished, Professional, Etc.)	ONLY DRY GRAPHITE-Based Lube! (NO OIL! No Liquid Lubricant! PERIOD!)
2 Wheels & 2 Axles per Axle Slot (Each Axle's Pair of Wheels MUST be Across from the Other)	Both Original Axle Slots Used & Visible (ONLY Adjustments Allowed: True Slots. Pre-Drill to Fit Axles)
Smooth (if Desired) Unaltered Axles (ONLY Filed, Sanded, Polished, & Graphite Permitted)	Each Axle Shaft is Visible (Caution the Clarity of Adhesive If Used)
	NO SPRINGS/SUSPENSION! (PERIOD! Not Even the Body)
Wheels In	spector
WHEELS are 4 BSA PWD WHEELS! (Colored Wheels Allowed. NO: "CHINA", Prefinished, Professional, Etc.)	NO WHEEL ALTERATIONS! (ONLY Adjustments Allowed. Polish: Bore, Hub, & Tread)
Tread is Flat & Parallel to Bore (NO Reshaping Tread at ALL. Lattice MUST Face Outward)	NO MATERIAL ADDED Except Graphite (NO: Inside/Outside Cover, Hubcap, Paint, Nail Polish, Etc.)
Correct LETTERS/NUMBERS Intact (BSA / PINEWOOD DERBY®) (OFFICIAL BSA /' #'/ MADE IN USA)	Outside FULLY Intact & UNALTERED (Small Dotted Bumps Along Tread & Sidewall. Lattice Also)
NO MATERIAL REMOVED IN/OUT! (NO: Lathe, Narrow, Lighten, Hub Stepdown Removal, Etc.)	ONLY LIGHT SANDING Permitted (ONLY TO REMOVE MINOR SURFACE IMPERFECTIONS!)
NOTHING but 4 Wheels Contact Lane	NO RAISED WHEEL! PERIOD!