

# Pack 175

## 2021 PINWOOD DERBY CONSTRUCTION & RACING QUALIFICATIONS

1. Cars must be built with the materials furnished with the Pinewood Derby Car Kit #17006
2. Width - Overall car width including wheels & axles shall not exceed 2 ¾".
3. Length - Overall car length shall not exceed 7".
4. Height – Overall car height shall not exceed 4 ½".
5. Ground Clearance – The distance from the bottom of the wheels to the lowest portion of the underside of the car (including weights and decoration) shall not be less than 1/4". This is required so that the car will not hang on the center guide rail of the track.
6. Wheel Clearance – The lateral (side to side) distance between the wheels shall not be less than 1-5/8" This is required so that the car will straddle the center guide rail of the track.
7. Weight - The completed car shall not exceed 5 oz. The car may be hollowed out and built up to the maximum weight by the addition of solid material provided it is securely built into or attached to the car. Loose, liquid or magnetic materials are not allowed.
8. Shape – The car may be of any style as long as no part of the car extends beyond the front bumper, which must rest against the starting pin. "U" & "V" shaped front ends are not allowed. The most forward part of the car must be at least ½" wide and solid all the way across. The front end must be designated at check in and be the part of the car that rests against the start pin every race.
9. Axles – Only the Axles furnished with the kit #17006 or ACCESSORY KITS #17553, #17557, #17554, #17555, #17556 are allowed.
10. Wheels – Only the wheels furnished with the kit #17006 or ACCESSORY KITS #17553, #17557, #17554, #17555, #17556, which have raised lettering on the sidewall, may be used. A. Wheels may be sanded to remove burs only. The tread area may not be rounded, grooved, or shaped in any way. Any other tampering with the wheels in any way will disqualify the car; this includes drilling holes, slots, or machining in any way. B. No wheel bearings, bushings, or washers of any kind are allowed. The wheel must spin freely on the authorized axle. C. If using hubcaps, one each on the front and back must be removable for inspection.
11. Lubrication – The only type of lubrication that is permitted on axles is Graphite, **Liquids can NOT be used.** Powdered graphite is one of the more commonly used lubricants. Once the car has been checked-in for the race you are **not allowed** to apply more lubricant. This is especially true during the race. Any modifications or applying of lubricant during the race will be grounds for disqualification.
12. The car shall not ride on any type of spring or have any kind of starting device. The car must be freewheeling.
13. Details added to the car, such as a steering wheel, driver, decals, etc. are permissible so long as they are securely fastened to the car and do not exceed the size or weight requirements.
14. Once a car has passed inspection and is accepted for competition, it is placed in the custody of the racing officials and is to only be handled by the scout to whom it belongs. A. The car will only be taken from its designated pit area when it is scheduled to race. It will only be handled by the scout to whom it belongs and only after obtaining permission from a racing official. B. Cars will not be touched during a race except by the scout to whom it belongs and only after obtaining permission from a racing official. C. The car is to be returned to its designated pit area immediately following its race.
15. The car may not be designed in any way that would give it an unfair advantage at the start gate.
16. No car may be raced that has not been built in the past 12 months.
17. During the race if a car leaves its lane there will be 1 "no penalty" re-run of that heat. If same car leaves its lane a second time it will be disqualified from that heat and other cars will re-run the heat without the offender.

SEE BACK PAGE FOR JUDGING CATEGORIES

# TROPHIES WILL BE AWARDED FOR THE FOLLOWING

## SPEED

1<sup>ST</sup>, 2<sup>ND</sup>, & 3<sup>RD</sup> PLACE (for the top three fastest in each den)

## BEST IN SHOW CATEGORIES

One for each of the following judged against the pack:

BEST PATRIOTIC THEME

BEST SPORTS THEME

MOST ORIGINAL

FUNNIEST

BEST CERTIFIED SCOUT MADE\*

**\* To be eligible to compete in the BEST CERTIFIED SCOUT MADE best in show category:**

- The car must be designed by the scout.
- The majority of the construction and assembly must be done by the scout. This includes sanding, painting, decorating, observing cutting, and assisting with weights and wheels.
- The car must be decorated by the scout. Includes decals, driver, etc.
- The car must be race prepped by the scout. Includes graphite and weigh-in.
- Adults may do the rough cutting for the shape of the car and help with getting the wheels and weight correct (not more than 5oz.).
- Adults may offer advice and direction and help ensure conformance with the rules.
- This certificate must be completed and submitted at registration on race day.

I promise on my honor as a trustworthy scout that the car I am racing was  
built and decorated mostly by me as defined above.

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Scout Signature