

# Pack 40

## Pinewood Derby Rules & Building Specifications

Adults/parents are reminded that this is a Cub Scout event and that the main objectives of the Derby are:

- Have fun!
- Boys and adults work **TOGETHER**
- Scouts learn about sportsmanship and competition
- Scouts learn model building skills

### Rules:

1. Cars must be built for the current year race. Cars used in previous races will be disqualified. Each Scout is allowed 1 car.
2. Cars **MUST** be built using the **official BSA Pinewood Derby Kit** supplied by the pack. Additional kits may be purchased at the BSA scout shop.
3. Cars will be inspected during registration for compliance to the specifications set forth below. At inspection car owners will be informed of the violations and given an opportunity to modify the car to meet the guidelines.
4. Cars must meet all of the specifications at registration and will be impounded at this time. Once a car is officially checked-in and inspected, it may **NOT** be touched or handled except by race officials. Violators will be disqualified from the race. After cars have been check-in, repairs will be limited to replacement of axles/wheels that are broken/lost during the race. **NO** graphite will be allowed after cars have been registered.
5. Scouts full name and den number should be written on the bottom of their cars. Numbers will be assigned at registration and placed on the bottom of ALL cars.

### Specifications:

- BODY:** The body must be the **official BSA Pinewood Derby Kit**. There is no designated front or back to the supplied body, either end may be the front. Bodies of other materials will be grounds for disqualification. The body may be shaped, hollowed out, or built up from the original block, as long as it meets all other specifications. Any additions to the original body, i.e. steering wheels, drivers, decals, paint, weights, etc., **MUST** be firmly attached.
- LENGTH:** Overall length may not exceed 7".
- WIDTH:** The car width at the wheels may **NOT** be modified. It must be the same as the original kit. Width must not exceed 2 $\frac{3}{4}$ ".
- HEIGHT:** No more than 7".
- WHEELBASE:** Wheelbase may **NOT** be modified. The axles must be placed in the slots provided on the cars.
- WHEELS:** Wheels and axles must be furnished in the official kit. **NO** washers, bushings, bearings or springs are allowed. Wheels may be sanded to remove the flashing only. **NO** reductions in width or diameter, or changes in shape are allowed. The sanding of the wheels is the **ONLY** wheel modification allowed!
- WEIGHT:** The weight of the race-ready car must **NOT** exceed five (5) ounces as measured on the official scale supplied by Pack 40. **Note:** other scales may vary a bit from Pack 40's scale.
- OTHER:** Cars must be free-wheel with no stored energy, movable weights or other propulsion devices. No modification to the front of the car to give an unfair advantage on the start will be allowed.
- GRAPHITE:** **ONLY** dry powdered lubricants, such as graphite may be used. Oils or silicone sprays may damage track and are prohibited and will cause disqualification.  
**NO graphite will be allowed after the car has been checked-in.**
- NOTE:** With our track cars **DO NOT** have to be squared off or painted black on the bottom.