

Thunderbird District Pinewood Derby

“Rules Of The Road”

Speed Competition

All cars must be newly built after September 1, 2012 using the materials in the Official Pinewood Derby Racing Car Kit (part# 17006) or the Official Wheel/Axle Kit (part# 17553-17557) including the Official colored wheels. Hobby Shop parts such as Pinecar precut car bodies, Pinecar axles, Pinecar wheels, axle tubes, bearings and springs are strictly prohibited. Cars must be built by the Scout and his adult partner. With the exception of decorative and construction items (weights, glue, lubricants, etc.) only materials from the official kit may be used.

The maximum weight of the car shall not exceed 141.8g (5 oz.)

The maximum length of the car shall not exceed 7 inches.

The maximum width (including wheels and axles) shall not exceed 2-3/4 inches.

The maximum height shall not exceed 3 inches..

The minimum clearance between the bottom of the car and the bottom of the wheels shall be at least 3/8 inch so that the car can clear the center guide strip.

The minimum width between the inside surfaces of the wheels shall be 1-3/4 inches so that the car will clear the center guide strip.

Items such as steering wheels, model drivers, spoilers, decals, painting and other details are permissible as long as these details do not exceed the maximum length, width, height and weight specifications. Loose materials of any kind are not permitted on the car. The car or any part of the car may not extend beyond the starting pin. Paint and glue must be dry before check in.

IMPORTANT: DO NOT LUBRICATE YOUR CAR INSIDE THE RACING FACILITY. DO THIS OUTSIDE THE BUILDING PRIOR TO CHECKING IN AT REGISTRATION. THE GRAPHITE WILL STAIN THE FLOORS AND CARPETS.

Wheels

You must use official BSA wheels.

Old Style BSA wheels are still allowed. These wheels are not in the current Official BSA kits but still are approved by BSA. The wheel diameter cannot be reduced past the ridge (rippled) edge and the ridge (rippled) edge must remain intact on the entire wheel.

Wheel treads may not be rounded, tapered, grooved, shaped or positioned at any angle. Wheel treads must run flat against the track surface.

Beveling, tapering, grooving or reducing the tread width of the wheels is strictly prohibited. Wheel bearings, washers or bushings are also prohibited.

Removal of any material from the wheel sidewalls or face is not allowed. The front outside wheel sidewalls & face must remain intact. All Wheels must have the "BSA" "Pinewood Derby" on the sidewall completely intact. The picture of the wheel below is what the judges will expect to see on the cars. Anything else will result in disqualification.

Additional items such as wheels bearings, washers, bushings, Wheel and Hub covers are also prohibited.



Axles

You must use BSA axles.

Axles that are not supplied by BSA in the original car kit or BSA wheel/axle kit.
Axles may not be angled in the car body slots/holes that would cause the wheel not to run flat to the surface of the track.
Axles must not be modified to the point that breakage could occur during the race.
The Axle head diameter may not be reduced.

You must use the car body from the BSA car kit.

No part of the car, including wheels, may extend past the front of the car body.
The body of the car, the wheels or any attachment must not extend beyond the starting gate. The front of the car must not be smaller than 3/8 inch in width or a cutout notch. Attachments must not have the effect of a starting or accelerating device
At least three (4) wheels must remain in contact with the track at all times.
The car shall not ride on any type of springs and the car must be free wheeling with no starting device or other propulsion.

Only Dry Graphite or Graphite/Moly Lubricant Allowed

Wet lubricants such as oils, silicones or waxes are prohibited.

Use only a Graphite or Graphite/Moly Lubricant .(And *OUTSIDE ONLY-PLEASE*)

Examples of modifications that are allowed

Extending the wheelbase of the car by drilling axle holes.
Truing the wheels round by sanding or lathing. Be careful not to reduce the wheel diameter or round the tread face. The tread must remain flat.
Removal of material from the inside of the wheel that does not affect the outside diameter or reduce the original width of the tread.
Removing the pinch marks and mold ridges on the axles by sanding and polishing the axles.

Judges will disqualify any car that does not comply with ALL of these rules. If a car is disqualified, the Scout will be allowed to race the car during the "Elimination" phase of the races, but an official time will not be kept and the Scout will not be able to advance to the "Championship" phase of the races. During any race, if a car leaves its lane and interferes with another car or suffers any mechanical problems, the racer will be given a chance to repair the car, no times will be recorded and the race will be re-run. Scouts will be given a maximum of 5 minutes to repair the car. After 3 incidents, the offending car will be disqualified
Any dispute of these rules with regard to a specific car's eligibility to race in the District Race will be decided upon by the District Pinewood Derby Committee.

The Committee's decision will be final.