

# PACK 307 PINWOOD Derby Rules

**PARTICIPATION:** Open to all Pack 307 Cub Scouts. Scouts must be present to participate!

**INSPECTION:** Cars will be inspected during registration for compliance to the specifications set forth below.

**IMPOUND:** Cars will be impounded when registered. After being impounded, repairs will be limited to replacement of axles / wheels that are broken / lost during the race.

**BODY:** The body in the Official BSA Pinewood Derby Kit (# 17006) must be used. Bodies of other materials will be grounds for disqualification. Cars made from pre-cut kits are not permitted. 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 and shall not exceed the length, width and weight specifications. Cars must be built after 1 December 2022.

**WIDTH:** The car width at the wheels may not be modified. It must be the same as the original kit. The maximum width, including wheels and axles, shall not exceed 2-3/4". Minimum width between the wheels shall be no less than 1-3/4".

**LENGTH:** Overall length of the car may not exceed 7". The wheelbase of the original kit may be changed.

**HEIGHT:** Overall height of the car may not exceed 5".

**WHEELS:** Wheels and axles must be as 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. No non-BSA wheels or axles are allowed. Axles may be polished. It is suggested that axles be glued into the hole or slot. All 4 wheels must touch the ground at the same time. Colored wheels that are official Pinewood Derby wheels are allowed.

**WEIGHT:** The weight of the race-ready car must not exceed five (5) ounces as measured on the official scales. The readings of the official race scales shall be considered final.

**CLEARANCE:** Cars must have a minimum of 3/8" underside clearance.

**LUBRICATION:** Wheels may be lubricated with dry powdered lubricants only. Liquid lubricants are not allowed as they foul the track. Powdered graphite is recommended while the BSA-issue "White Lube" is not. NO GRAPHITE IS TO BE BROUGHT TO THE CHURCH: IT WILL BE PROVIDED IN THE PIT AREA!!

**OTHER:** Cars must be freewheeling with no stored energy or movable weights. There is no designated front or back to the supplied body, either end may be the front.