



"18 Wheelers" Wheel Treatment

SUPPLIES

Files: small square or flat (not round) files. The smaller the better.

Wax: spray Pledge

Sandpaper: "cabinet grade"

Emery paper: 1500 grit (600 is ok too), the finer the better

Toothpicks

Electric drill

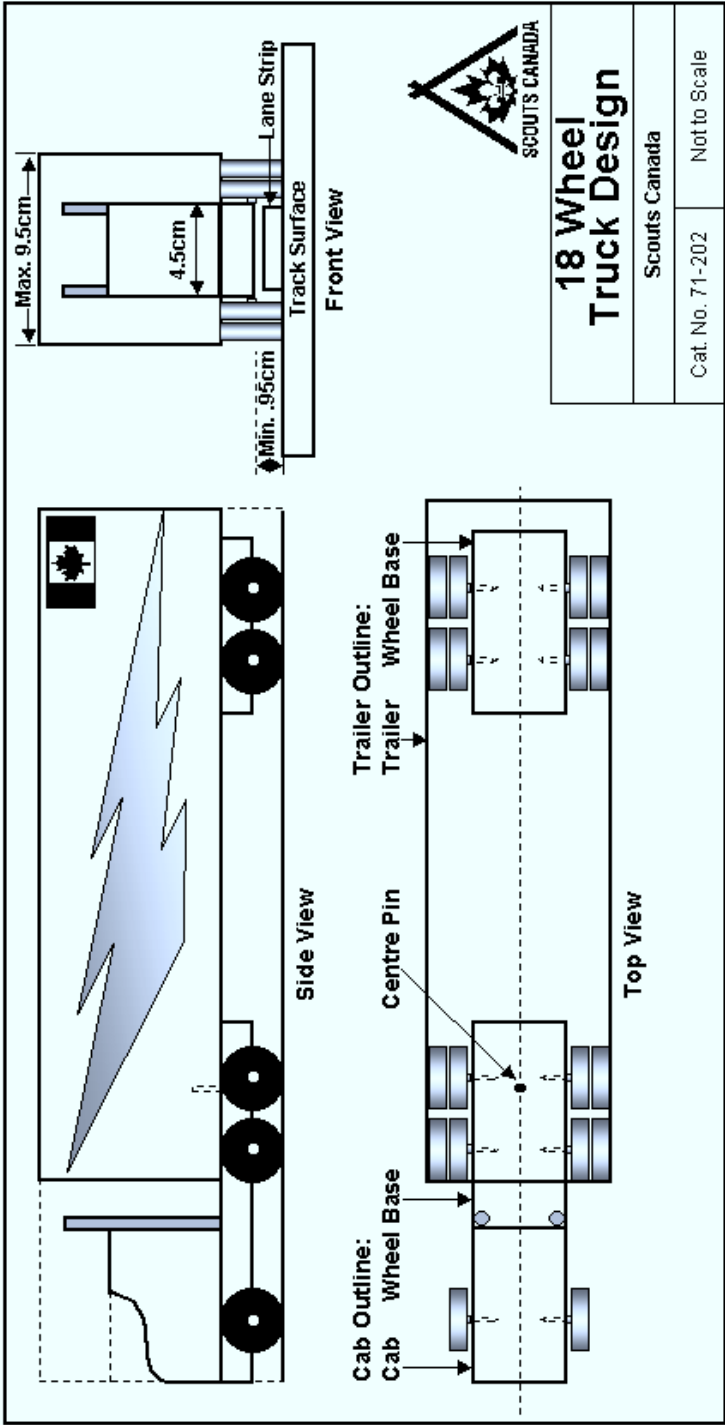
Vise grips

Rags to use as polishing cloths

Candles, matches

1 Scout 18 Wheeler Kit

1. Check all nails to be sure that they are straight. File the burrs from the bottom of the nail heads.
2. Hand sand the "bump" on the wheel caused from the mould. Sand all the way around to avoid a flat spot. DO NOT round the edges of the wheels.
3. Hand sand burrs on the inside axle holder of the wheel (the outside of the small hole that the axle goes into)
4. Put the nail into the drill, tighten the drill so that there is no slipping
5. Use a narrow precut strip of emery paper. Loop over nail and run the drill at the highest speed. Move the paper up and down for about one minute. If paper breaks, use another piece.
6. Spray some pledge onto a cloth. With nail still in drill spin the nail into the polish. Then spin on a clean area of the cloth to polish.
7. DO NOT TOUCH THE NAIL. Remove from drill by dropping onto work surface.
8. Using a toothpick, dab some wax onto the wheel, both inside and outside the axle hole.
9. Place axle through the wheel, spin the wheel and blow to dry the wax.
10. Using the cloth that already has pledge on it, wax and polish the outside of the truck where the wheels attach and also the inside of the wheels where they touch the truck.
11. Attach wheels. Not too far in or will rub on the truck. Too far out and the truck will wobble. Trying to avoid rocking or chattering of the wheels.
ONCE WHEELS ARE IN PLACE LEAVE THEM ALONE.
12. Melt candle wax into axle hole once in place.



18 Wheel Truck Design

Scouts Canada

Cat. No. 71-202

Not to Scale

General Rules Scout Level - 2016

All trucks must be made from the components in the official Scout 18-wheeler kit Purchased from the Scout shop. (Wheels & Frame)

1. 18-wheeler cannot be greater than 48 cm in length, and 9 cm in width & 11.5 cm in height.
2. Cabs & Trailers will have a combined maximum weight of 1000g.
3. All weight must be solid- NO LIQUID WEIGHT-
4. The main parts of the kit that must be used are the 18 wheels, and the pins.
5. All 18 wheels must be affixed to the truck, if any wheels fall off during the race, they must be reattached and that group of trucks must be re-raced
6. All parts must be secured.
8. Wheels can't be modified with washers, bushings, bearings, etc. wheels may be rounded but not tapered. The wheels, axles and the chassis (wooden blocks that the axles fit into) that are supplied in the kits must be used. All other materials used in the completion and decoration of the trucks are open to creativity as long as you follow the specifications outlined within these rules.
9. No reference to Drug or Alcohol will be accepted
10. All trucks must be freewheeling and shall not use any type of spring system or self-starting device.
11. The most forward part of the truck (Centre) must be no more than 1.5cm's off the center of the track and be at least 1cm wide (so it will rest against the start pin).
12. All Trucks must have been built within the 2015 / 2016 Scouting year.
13. Inspection: Each truck must pass inspection by the official inspection committee before it may compete. The inspectors have the right to disqualify those models which do not meet these specifications. (Time will be allowed to modify entries to meet specifications before a final ruling is decided)
14. Ruling of the judge's is final.
15. All trucks and trailers will be included in the judging for prizes
16. Truck and Trailers may but, are not required to pivot or separate. Trucks may not separate during the race, and the overall length of the truck may not change during the race. Please feel free to let your imagination run wild.

For any questions e-mail: bigrigrun@gmail.com