

Mid-West Truckers Association



OFFICIAL TRUCKERS PINewood DERBY RULES AND TRUCK BUILD PROCEDURES

LIST OF MATERIALS IN A TRUCK KIT

Truck Cab: 1 Block of wood [7.6 cm (3 inches) long, 4.5 cm (1 3/4 inches) wide, 5.1 cm (2 inches) high]

Truck Trailer: Masonite wood panels forming a 6-sided box [30.5 cm (12 inches) long, 8.5 cm (3 3/8 inches) wide, 8.5 cm (3 3/8 inches) high]

Truck Cab Wheel Base: 1 Block of wood [17.8 cm (7 inches) long, 4.5 cm (1 3/4 inches) wide, 1.9 cm (3/4 inches) high]

Truck Trailer Wheel Base: 1 Block of wood [8.9 cm (3 1/2 inches) long, 4.4 cm (1 3/4 inches) wide, 1.9 cm (3/4 inches) high]

- (18) Black plastic wheels, 3.2 cm (1 1/4 inches) in diameter
- (10) Steel pin axles (2 on cab front, 4 on cab rear, 4 on trailer rear)
- (2) Dowels for smokestack
- (1) Centre Pin

SPECIFICATION SUMMARY

	Truck Cab	18-Wheel Truck Trailer
Maximum Weight	9 ounces	16 ounces
Maximum Combined Weight	Not to exceed 22 oz.	Not to exceed 22 oz.
Maximum Length	8 inches	13 inches
Overall Height	Not to exceed 4.5"	Not to exceed 4.5"
Maximum Outside Width (including wheels and axles)	3 3/4 inches	3 3/4 inches
Maximum Width Between Inside of Wheels	1 3/4 inches	1 3/4 inches
Minimum Clearance Between the Chassis & the Track	3/8 inches	3/8 inches
Wheels and Axles	Kit Issued	Kit Issued



18-wheeler truck specifications:

WIDTH:

Truck Cab: Overall width including wheels is not to exceed 3 3/4 inches.

Truck Trailer: Overall width including wheels is not to exceed 3 3/8 inches. The minimum distance between the wheels is 1 3/4 inches.

WEIGHT:

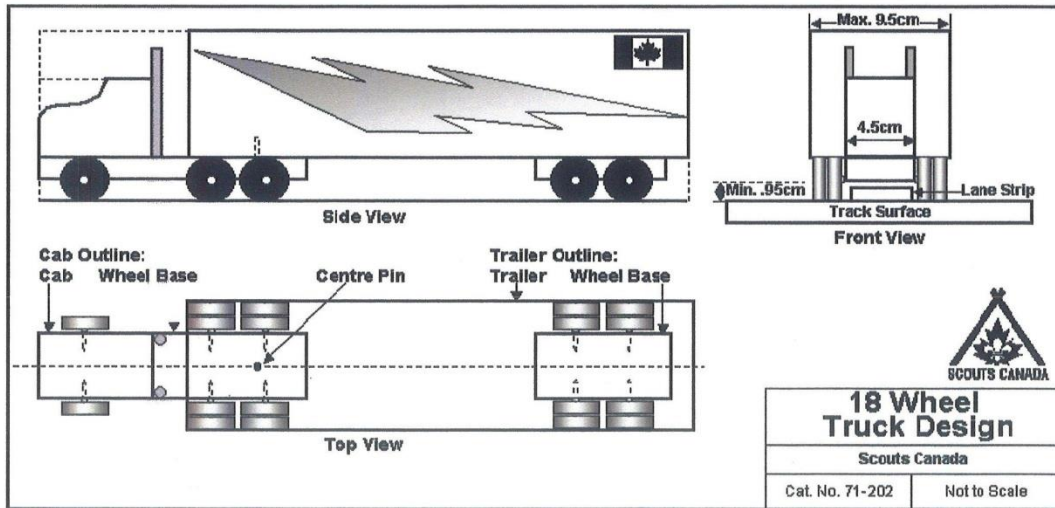
Truck Cab: Overall weight is not to exceed 9 ounces.

Truck Trailer: Overall weight is not to exceed 16 ounces.

Combined: Overall weight is not to exceed 22 ounces.

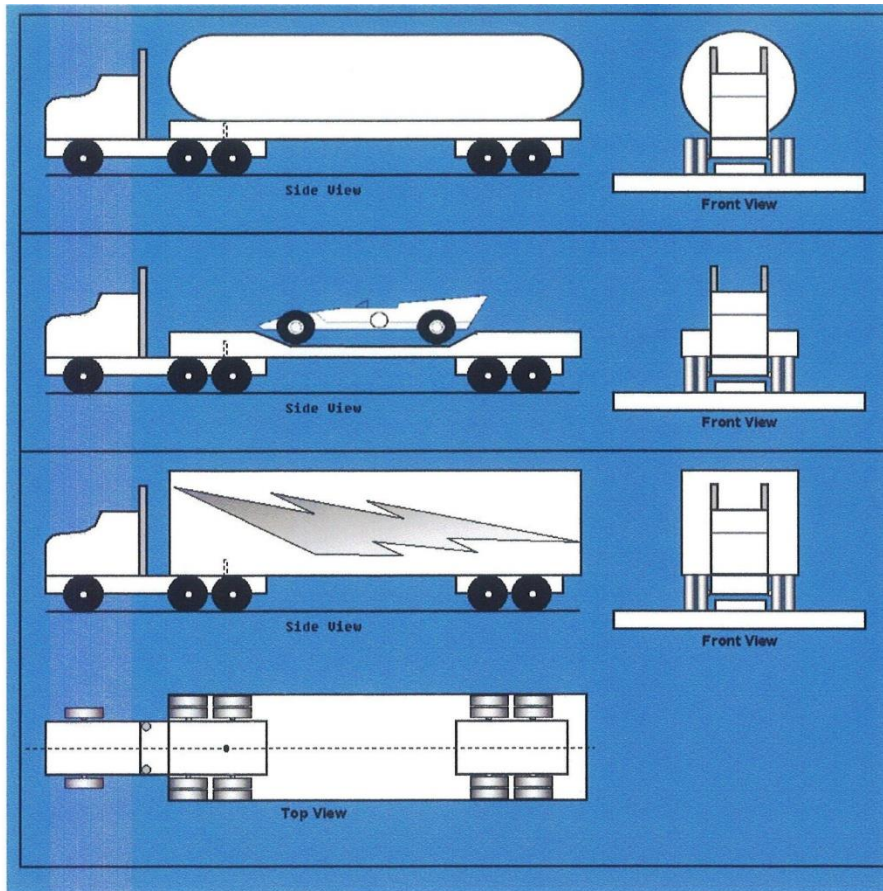
CLEARANCE:

Chassis: Clearance between the chassis and the track should be 3/8ths of an inch.



Restrictions:

- Wheel bearings, washers and bushings are prohibited. The truck cabs/trailer cannot have spring suspensions.
- Details and attachments may be added providing they are securely fastened and do not exceed the maximum length, width, height and weight specifications. No loose materials, no taping weight down to car.
- The truck cabs/trailer must be freewheeling and may only be propelled by the force of gravity.
- The truck cabs/trailer are subject to inspection by an official inspection committee to determine eligibility.
- The entry must have been made this current scouting year.
- Once a truck has been through weight inspection and passed, it will go to the holding area and cannot be touched until race day.
- Only members of the race committee will be able to handle the trucks during racing.
- The trucks will remain on their numbered position on the Car and Truck Park Table when not on the track for a race except for repairs at the Pit Stop.
- Only Pit Crew and/or judges will be permitted inside of the roped-off race track area and the Car/Truck parking area.
- If a car has problems running more than once that the Official Pit Crew cannot resolve, it will be disqualified. Interfered-with cars will receive no penalties and heats will be rerun.
- The Race Crew Chief has the final decision-making authority in all race disputes.
- Only dry lubricant may be used, such as dry graphite or teflon. It must be applied before weigh-in.
- Care must be taken to assure that no lubricant will soil the track or interfere with subsequent races on the track.
- Wheels and axles may not be modified in any way. (Other than removing burrs and molding seams and rough spots).



Some hints:

- Fasten the weights in the truck so they can't slide around. They tend to do damage when the trucks hit the end of the track.
- If you are going to put weight under the truck make sure that it is installed flush with the bottom so that it will not hit the track.
- Keep the weight low in the truck.
- Make sure whatever you attach to the truck is securely fastened.
- Make sure the wheels are all aligned (that they are all square to the track and pointing straight ahead).