



SCOUTS CANADA 

SCOUT EXPRESS 18-WHEELER KIT

LIST OF MATERIALS

(All Measurements Are Approximate)

	QTY.
PLAN AND INSTRUCTIONS	1
WHEELS.....	18
AXLES (3.52 cm).....	8
AXLES (2.50 cm)	2
TRAILER TOP (3 mm x 8.4 cm x 30.5cm).....	1
TRAILER SIDES (3 mm x 7.7 cm x 30.5 cm)	2
TRAILER BOTTOM (3 mm x 8.4 cm x 30.5 cm).....	1
TRAILER ENDS (3 mm x 7.7 cm x 7.7 cm)	2
TRAILER CHASSIS (2 cm x 4.5 cm x 9 cm).....	1
TRACTOR CHASSIS (2 cm x 4.5 cm x 18 cm).....	1
TRACTOR CAB BODY (7.6 mm x 4.4 cm x 5.2 cm).....	1
TRACTOR CAB SIDES (9 mm x 7 cm x 7.5 cm).....	2
CAB ROOF (5 mm x 6.2 cm x 7.5 cm)	1
BUMPER (5 mm x 1.8 cm x 6.4 cm)	1
STACKS (7 mm dowel\7.5 cm long).....	2
FUEL TANKS (9 mm dowel\3 cm long).....	2
PIVOT PIN (2.6 cm long)	1

TRUCK SPECIFICATIONS

LENGTH - 44.5 cm

WIDTH - 8.5 cm

HEIGHT - 11.5 cm



Figure 1
(Cab-Over Model)

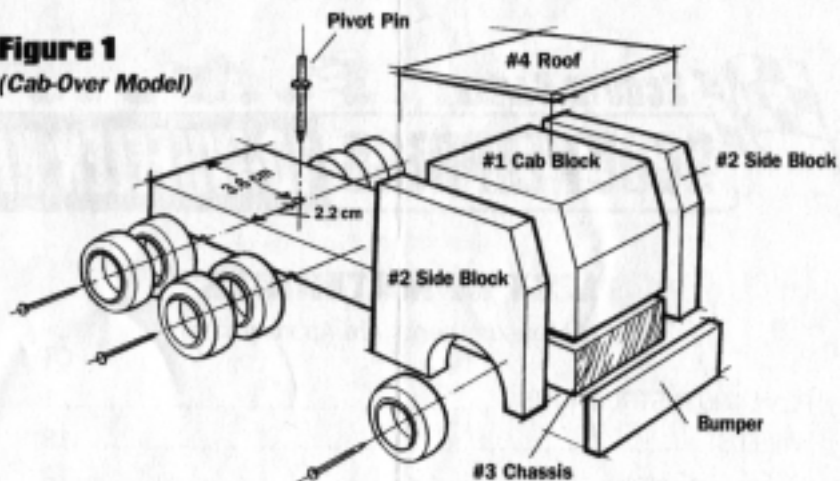
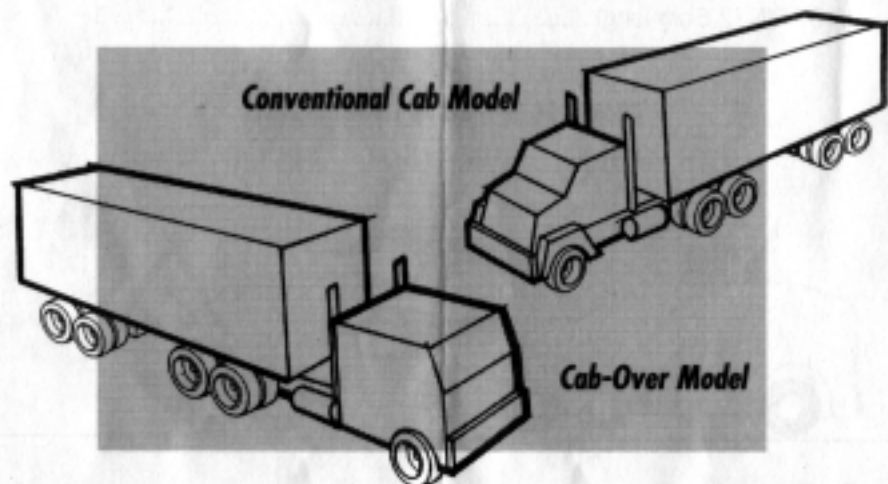
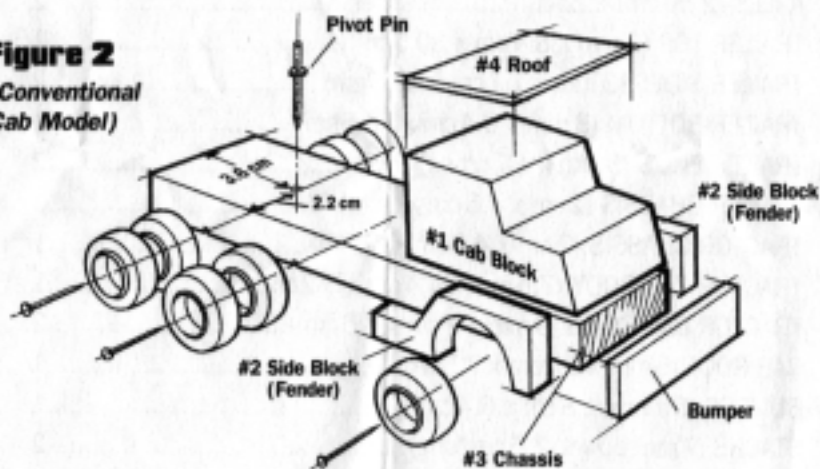


Figure 2
(Conventional Cab Model)



TRACTOR ASSEMBLY

For either design, lay the tractor and the trailer chassis on their side, then gently drive the axes into the grooves, flush with the bottom of the grooves and within 6 mm of the axes head for the single axle and 1.2 cm for the double wheel axles. Now remove the axes by turning and pulling them with a pair of pliers (fig. B). Repeat the same procedure on the other side.

For the CAB-OVER model, first cut out both wheel wells, on block #2, using the templet as a guide. Then glue sides #2 to cab block #1, as shown (fig. 1). Using the same templet, cut or sand the windshield area. Do not glue part #1+2 to the tractor chassis (#3) yet.

For the CONVENTIONAL CAB model, first shape the cab block #1 to the templet outline; then glue it to the chassis (fig.2). Using one of the cab sides marked #2, make the two fenders, using the fender templet as a guide. Do not glue part #2 to the tractor chassis (#3) yet.

Temporarily install the front wheels and axes. Fit the sides or fenders over the wheels, making sure there is enough clearance for the wheels to turn freely. When satisfied with the fit, glue them in place. Now remove the wheels and axes to avoid getting paint on them.

Glue the bumper, tanks, and stacks in place. Note: Roof for conventional model is cut to size from the #4 sheet of balsa wood (4.1 cm x 4.4 cm).

Drill a 4mm hole in the chassis (#3) for the pivot pin (fig. 1+2).

Apply two coats of a primer paint, then, after it is thoroughly dry, sand the entire model to a smooth finish. Your model is now ready for the final coat of paint.

After the paint is dry, apply any lettering or striping that you plan to use.

Pre-lubricate axes and wheels with a dry lubricant such as dry graphite or Teflon. Do not use silicone spray or oil, because it may soften the plastic wheels. Insert the wheels and axes in place, drive within .5mm of the chassis side.

Note: The #'s that are used in the instructions refer to the part #'s on the drawings.

TRAILER ASSEMBLY

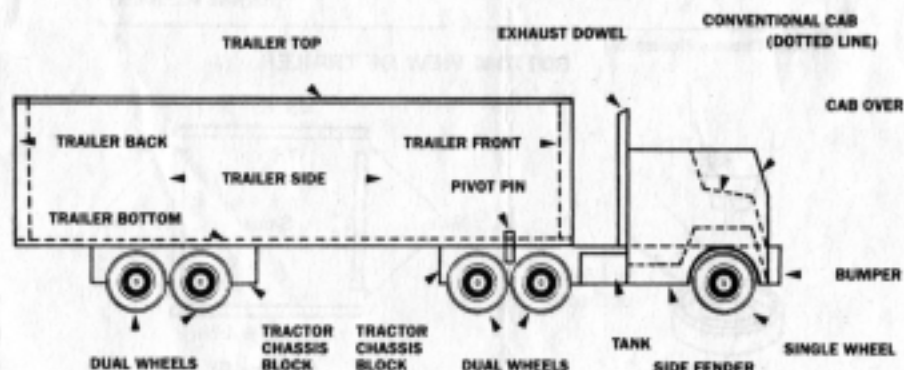
Lay the 3mm x 8.4cm x 30.5cm hardboard on a flat surface with the smooth side up. Then apply a bead of glue along both top edges (fig. E). Then set the sides in place with the smooth sides out. Use the ends as support until the glue dries. When glue is thoroughly dry, permanently glue the ends in place.

The next step is to glue the top, as shown on drawing, smooth side up (fig. E). When gluing the trailer pieces together, a few rubber bands or masking tape can hold the parts in place while the glue dries.

Next, glue the trailer chassis in place (fig. C). Then drill the hole for the pivot pin (fig. C).

Paint the trailer, using the same procedure as for the tractor. Then install the trailer wheels and axes, as shown.

Be sure to support the chassis when driving in the axes so you don't loosen the trailer chassis.

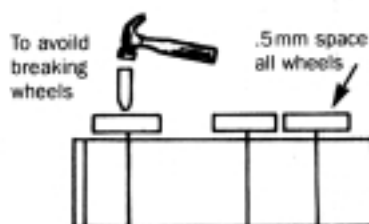




Helpful Suggestions



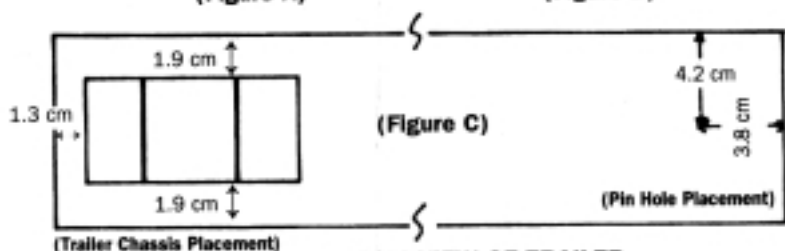
- The doors and windows can be painted on or cut outs can be made, then glued in place.
- After wheels and axles are permanently installed, apply glue over the axle grooves to secure them firmly in place.
- The truck is designed to be raced on a Kub Kar Track. **DO NOT ALTER THE SPECIFICATIONS.** It also is suggested to lengthen the track 3 meters. The starting line must be lengthened to fit the truck.
- Since gravity is the force that makes the truck run, it is important to reduce friction wherever it is possible. Apply dry Teflon or graphite to the areas where the wheel hubs contact the chassis and where the wheels rotate on the axles. Also lubricate the outside of the wheel where it comes in contact with the guide rails (figure D).
- The plan and materials in this kit are for a conventional box trailer, but you can build any design you choose as long as it is within specifications (44.5 cm long x 8.5 cm wide x 11.5 cm high) for both tractor and trailer. A few suggestions are: A Tanker, Flat Bed, Car Carrier or a Cattle Car. Materials for these designs are not included in this kit.



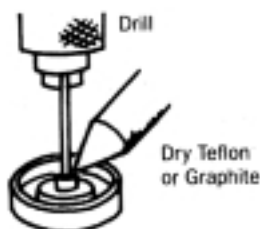
INSTALLING WHEELS
(Figure A)



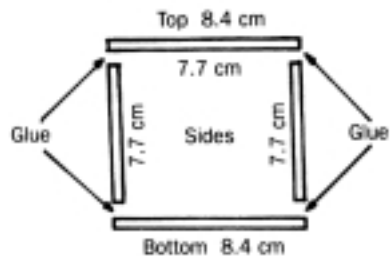
REMOVING AXEL
(Figure B)



BOTTOM VIEW OF TRAILER



(Figure D)



(Figure E)
End view of Trailer Assembly