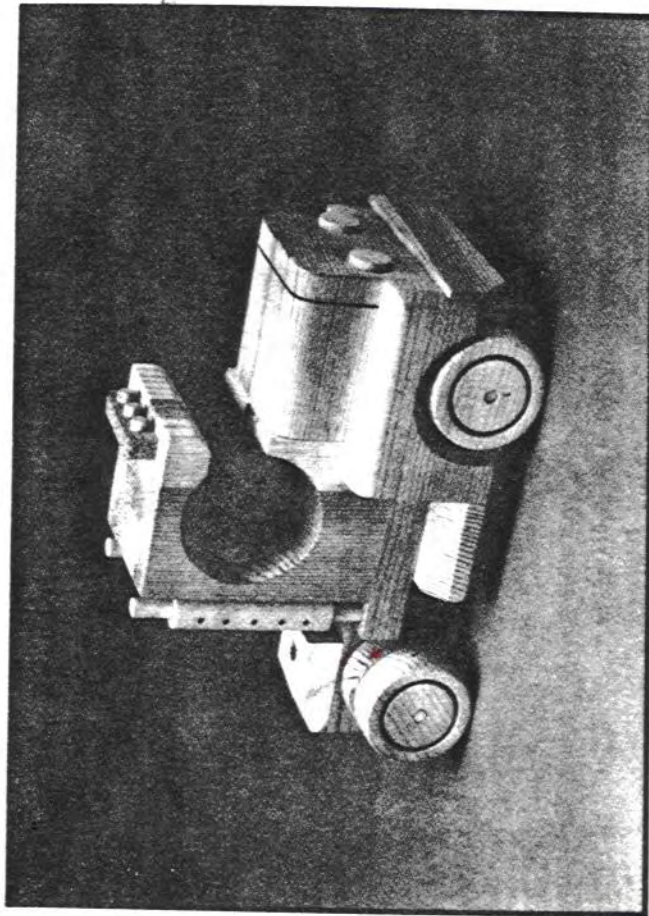


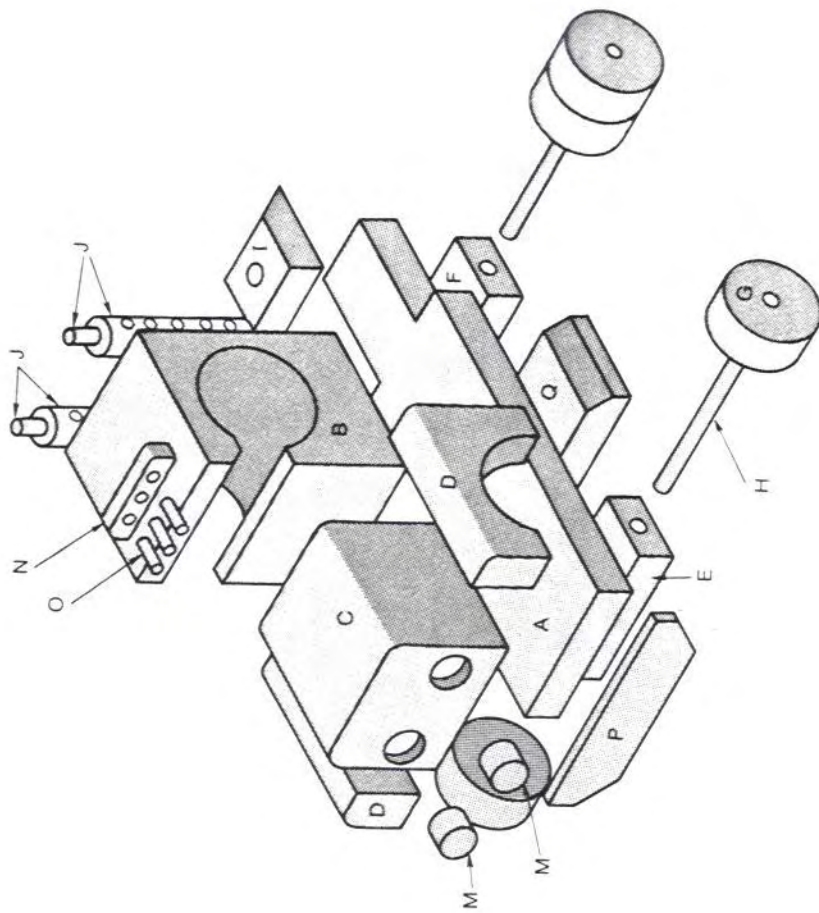
TRACTOR CAB

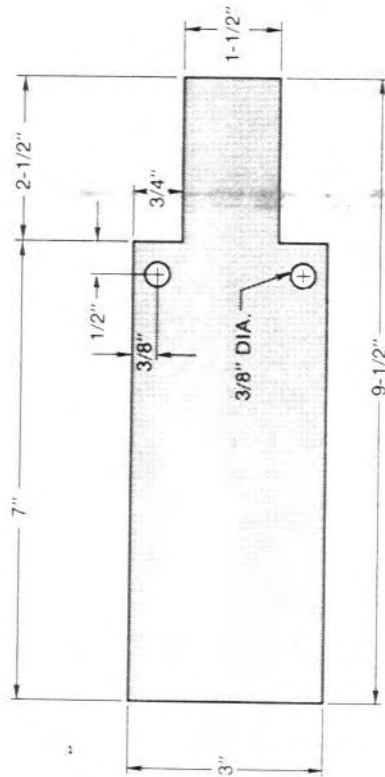


Trucks move America. They haul everything from raw materials to finished goods in flatbeds and tankers. Two types of trucks provide the power to pull these trailers—the tractor cab and cab-over-engine, which follows this project.

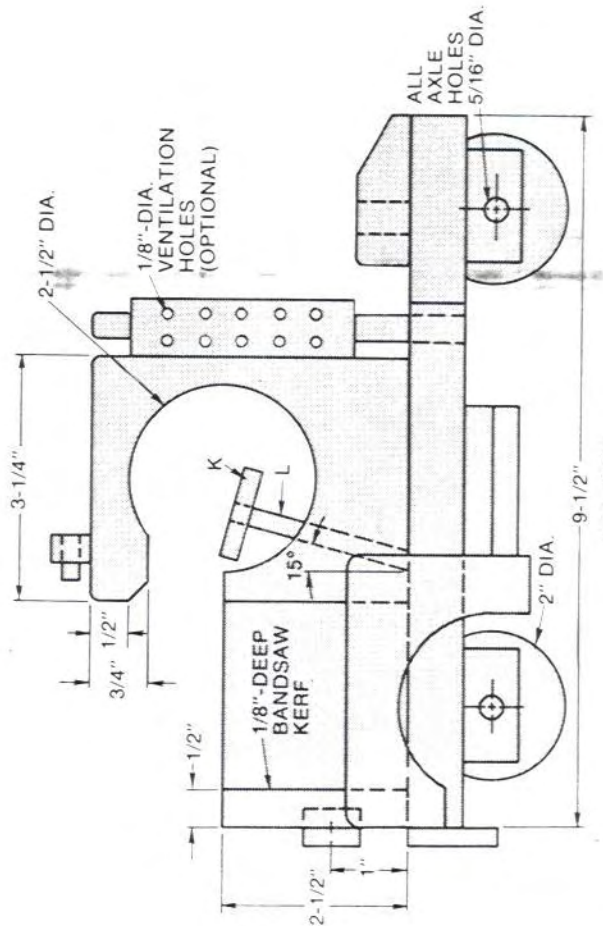
Most of the parts of this truck are interchangeable with the parts for the cab-over-engine truck, so it's easy to build both at the same time. Also, the trailers that follow can be hauled by either style of cab. The main differences between the trucks are the sizes of the chassis and engines.

The design of this truck is simple and straightforward, with a sense of realism. And, by making the base of the truck a little longer, you can make a variety of intermediate trucks.



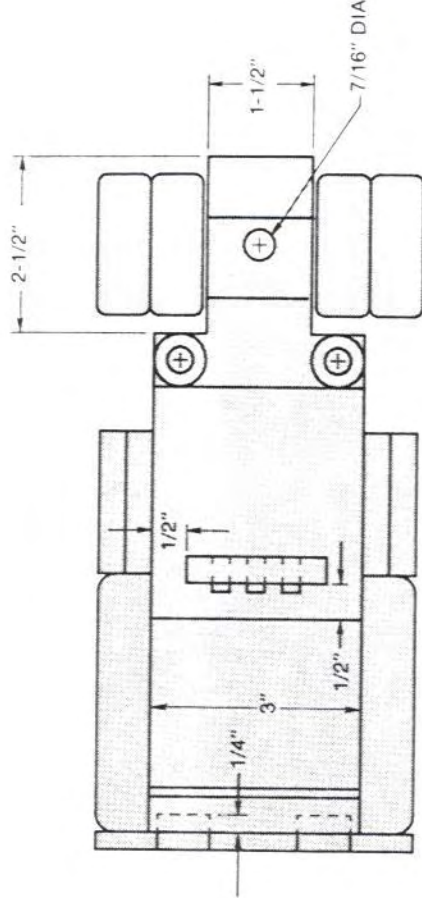


BASE DETAIL TOP VIEW



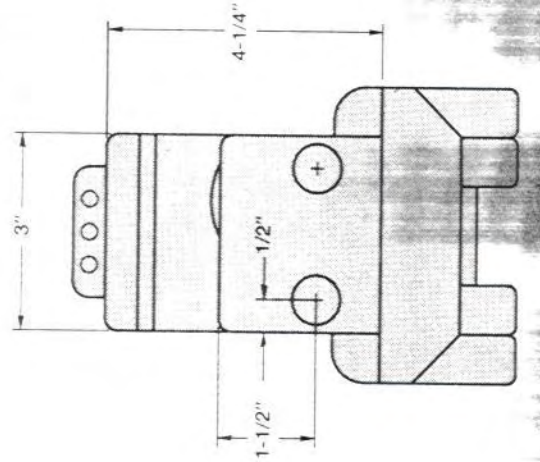
SIDE VIEW

NT VIEW



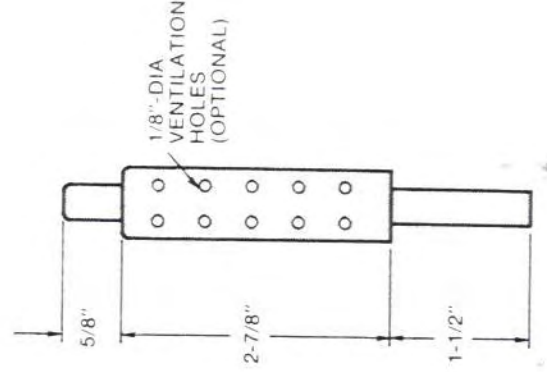
30-4

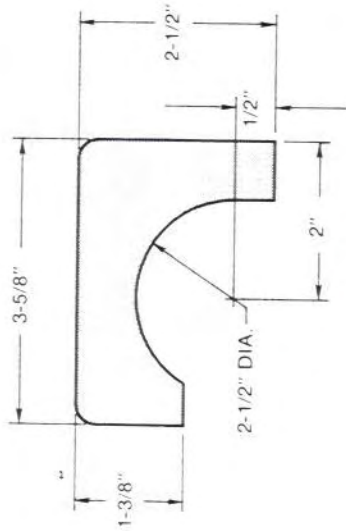
TOP VIEW



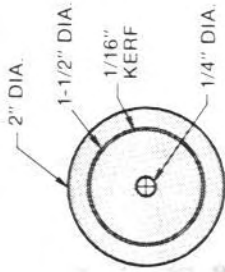
FRONT VIEW

EXHAUST STACK DETAIL

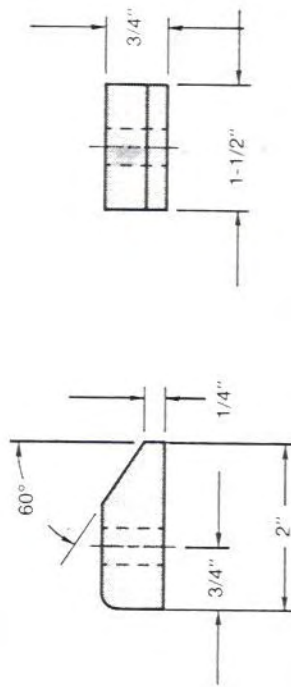




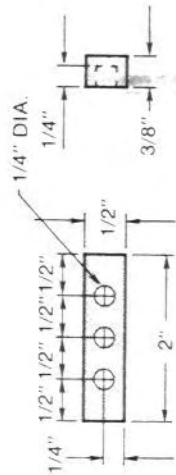
FENDER DETAIL



WHEEL DETAIL



TRAILER HITCH

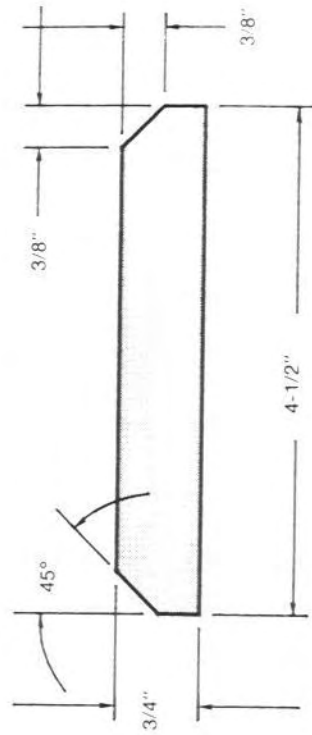


SIDE VIEW

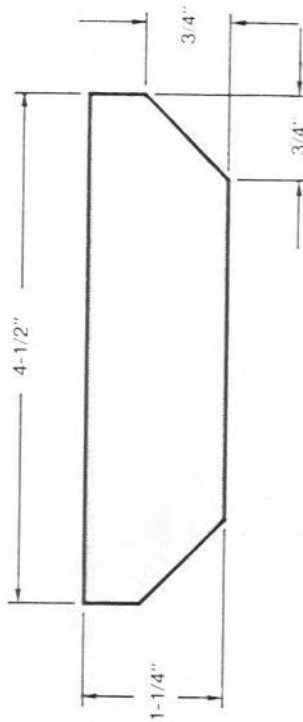
FRONT VIEW

LIGHT BLOCK DETAIL

30-3



STEP DETAIL



FRONT BUMPER DETAIL

PROCEDURE

1. BASE

Cut the base (A) to shape as shown. If you're making a longer truck for a customized design, continue to use the same wheel cutout configuration at the rear of the base.

2. CAB

After cutting out the rear wheel notches, drill the 3/8" diameter exhaust stack holes as indicated. Finish the base assembly by drilling the 5/16" diameter axle holes through the axle holders (E, F), then gluing and clamping them to the base.

4-1/4" stock to form the cab block (B). After the glue dries, sand the block square and transfer the cab pattern to it. Cut out the cab using a hand-saw, scroll saw, or coping saw.

NOTE: Most hole saws will not cut through the 3" thick stock. Drill a 1/4" diameter hole for the steering column (L).

2. CAB

Glue and clamp together four pieces of 3/4" x 3-1/4" x

then insert the steering column into the hole, but don't glue it in place yet. (The steering wheel will be added later.) Finally, glue and clamp the cab to the chassis and check the steering column to make sure it still turns. Set the assembly aside.

3. ENGINE

Glue four pieces of 3/4" stock to form a 3" x 2-1/2" x 3" block for the engine (C). Sand the block square after the glue dries; then round off the edges according to the plans.

Using a bandsaw or scroll saw, form the outline of the grill by making a 1/8"-deep saw kerf 1/2" from the front of the engine. Next, drill the 3/4"-diameter holes for the headlights; then glue the lights in place. Finally, glue and clamp the engine to the chassis. After the glue dries, power-sand the sides of the truck flush.

4. FENDERS

Cut the stock for the fenders (D) to size. Then use a 2-1/2"-diameter hole saw and cut the circular profile as shown. Round off the top and front outside edges.

NOTE: There is a right and left fender, and they are not interchangeable. Be sure to mark the edges you're going to round.

Glue and clamp the fenders to the truck assembly flush with the front.

5. WHEELS

Make the wheels (G) with a 2-1/8"-diameter hole saw. Before you cut them out of the stock, use a 1-1/2"-diameter hole saw to make a 1/16"-deep kerf to define the rim and tire. Next, cut out the wheels using the larger hole saw; then mount them on an arbor and sand them. Assemble the wheels and axles (H) to the truck assembly with glue.

While the hole saw is set up, cut out the 1-1/4"-diameter steering wheel (K) from 1/4" stock with a 1-3/8"-diameter hole saw. Sand the steering wheel and glue it in place.

6. TRAILER HITCH

Cut the trailer hitch (I) to size according to the list of materials. Drill the 7/16"-diameter hole as indicated in the plans; then power-sand the bevel on the top. Glue and clamp the hitch to the truck assembly.

7. EXHAUST STACKS

The exhaust stacks (J) are composed of two parts—a 3/4" dowel and a 3/8" dowel. First, drill a 3/8"-hole through the length of the 3/4" dowel. To do this, make sure the 3/4" dowel is securely clamped to the drill

press table. Next, glue the 3/8" dowels into place. For a realistic touch, add ventilation holes by drilling a series of 1/8"-diameter holes on each stack.

8. ROOF LIGHTS

Drill three 1/4"-diameter holes in a 1/2" x 3/4" x 2" piece of stock as shown. Cut the stock in two to form the light holders (N). (Save one of the holders for another truck.) Next, glue the 1/4"-diameter lights (O) into place; then glue and clamp the light block assembly to the roof.

9. STEP

Make the step (Q) according to the drawings. Cut 3/4" stock to width, then crosscut it to length. Chamfer the ends and sand the piece. Glue and clamp the step to the truck assembly.

10. FRONT BUMPER

The easiest way to make the front bumper (P) is to form a 3/4" x 1-1/4" x 4-1/2" block of stock with the proper profile. Next, cut the block into 1/4"-thick pieces. (Save extra bumpers for other trucks.) Glue the bumper in place.

Your tractor truck is now complete and ready for a trailer. Roll on to the trailer section and build the kind of trailer (or trailers) you want.

MATERIALS

Part	Description	Pieces	Dimensions (finished dimensions in inches)
A	Base	1	3/4 x 3 x 9-1/2
B	Cab	1	3 x 3-1/4 x 4-1/4
C	Engine	1	3 x 2-1/2 x 3
D	Fenders	2	3/4 x 2-1/2 x 3-5/8
E	Front axle holder	1	3/4 x 1-1/2 x 3
F	Rear axle holder	1	3/4 x 1-1/2 x 1-1/2
G	Wheels	6	2 dia. x 3/4
H	Axles	2	1/4 dia. x 4-5/8
I	Trailer hitch	1	3/4 x 1-1/2 x 2
J	Exhaust stacks	2	3/4 dia. x 3
K	Steering wheel	2	3/8 dia. x 5-1/4
L	Steering column	1	1-1/4 dia. x 1/4
M	Headlights	1	1/4 dia. x 2-1/2
N	Roof light holder	2	3/4 dia. x 1/2
O	Roof lights	1	3/8 x 1/2 x 2
P	Front bumper	3	1/4 dia. x 1/2
Q	Step	1	1/4 x 1-1/4 x 4-1/2
		1	3/4 x 2 x 4-1/2

CONSTRUCTION NOTES

- There are two fenders (D), left and right. Double-check the position of the fender on the chassis before rounding.
- The radiator on the engine (C) is formed by a thin saw kerf.