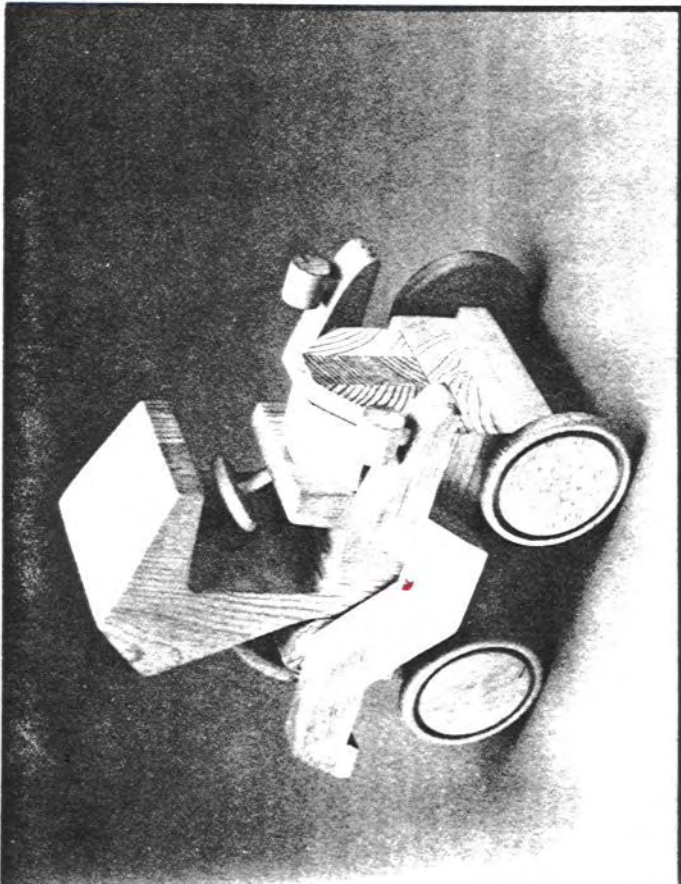
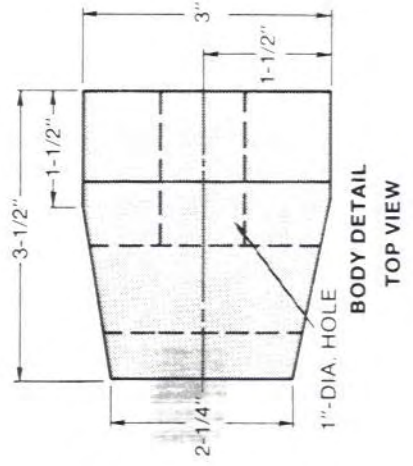
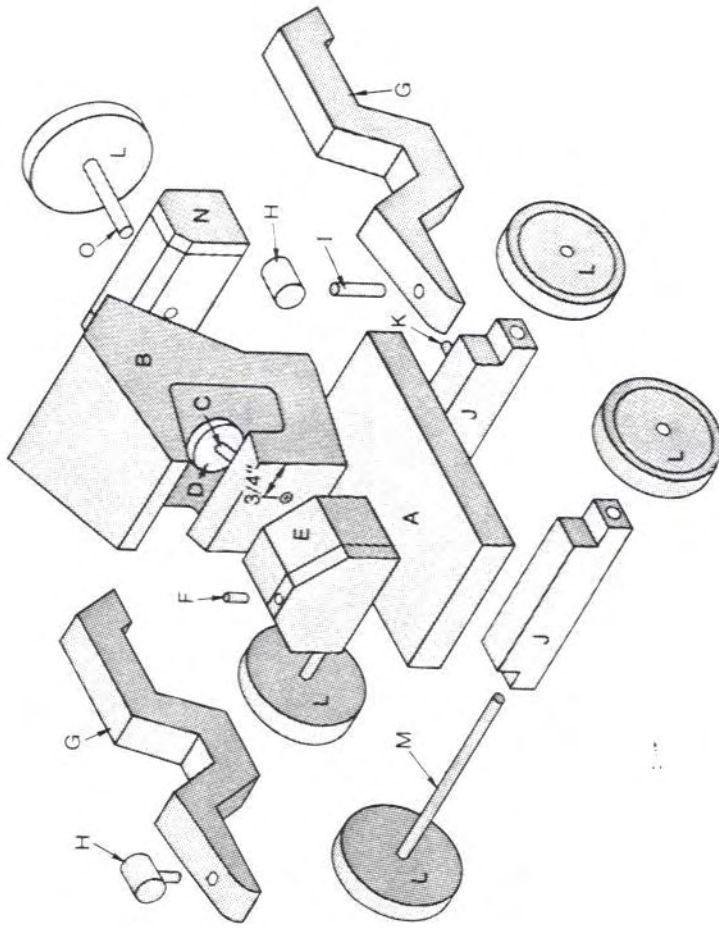


# MODEL T CAR

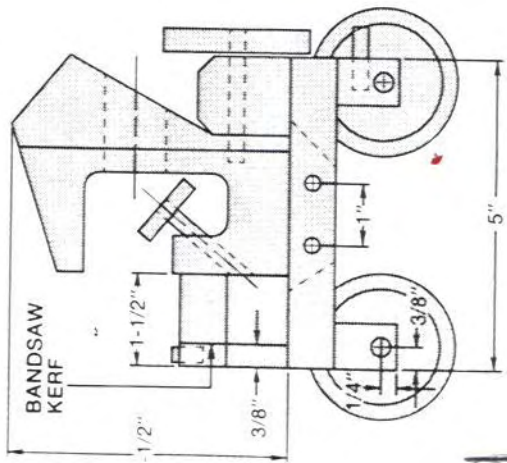


**T**he Model T car, or "Tin Lizzy," was Henry Ford's answer to a truly affordable automobile for the American family. Manufactured by the millions, Model T's became a common sight on the streets and highways of America for many years.

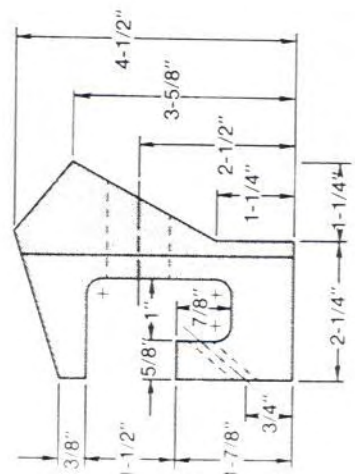
Building one of these cars is a lot of fun; making more than one doubles the pleasure. Remember that Henry Ford was the first to capitalize on the idea of the assembly line, and this toy is ideal for mass production. You might want to get together with some of your woodworking friends and set up an assembly line for this toy. Many woodworkers have made this particular toy by the dozens to give away at Christmas. So get your shop "tooled up" and begin your assembly.



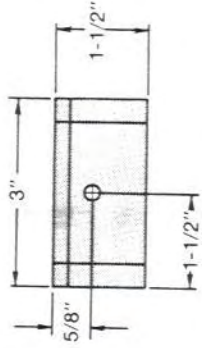




SIDE VIEW

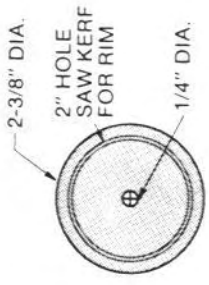


SIDE VIEW  
BODY DETAIL

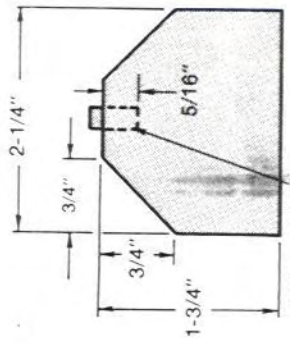


REAR VIEW

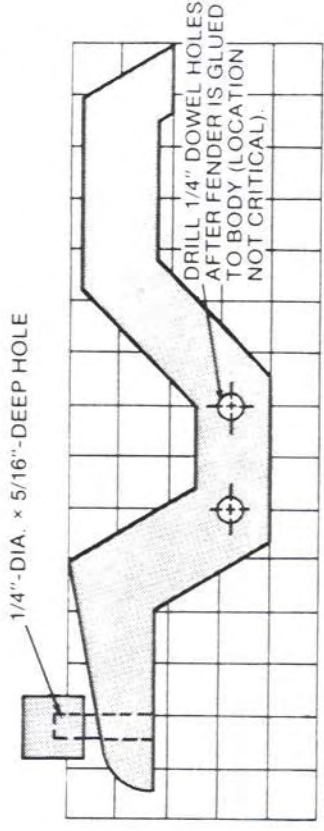
TRUNK DETAIL



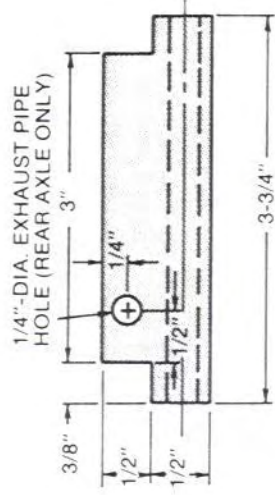
WHEEL DETAIL



ENGINE DETAIL



FENDER DETAIL



AXLE DETAIL

**PROCEDURE**

**1. BASE ASSEMBLY**

Cut the stock for the base (A) to length and width. If you're making a lot of these cars, rip long boards to 3" wide; then cut them to 5" lengths.

Next, cut stock to length and width to form the 3/4" x 1" x 3-3/4" axle holders (J). Clamp the axle stock securely to a drill press table and drill the 5/16"-diameter axle holes where indicated in the plans.

After the holes have been drilled, lay out and cut the notches on the ends of the holders. Since these pieces are small, use only a coping saw, scroll saw, or bandsaw to cut the notches. Drill the 1/4" exhaust pipe hole in the rear axle; then glue the exhaust pipe (K) into place. Glue and clamp the axle holders to the base; then set the base assembly aside.

**2. BODY**

The complicated shape of the

body (B) is really simple to make—it's just a matter of compound cutting (cutting on two surfaces).

Glue up four pieces of 1 x 4 stock to form a 3"-wide block (the glue lines run vertically); then cut the stock to yield a 3" x 3-1/2" x 4-1/2" block. (You may want to make more than one block at this time for other Model T projects—just glue up longer boards and allow for one block per every 4-3/4" of length.) Transfer the



top and side patterns from the plans to the block.

Next, form the rear window by drilling a 1"-diameter hole through the back of the block. Turn the block on its side and drill three 3/8" holes in the corners of the cutout. The location of these holes is indicated by the small crosses on the side detail drawing. Use a bandsaw or scroll saw to cut out the entire side contour.

To get the 2-1/4" width on the front, tilt the bandsaw or scroll saw table 10° and, keeping the front of the body on the table, bevel the sides.

The final operation to perform on the body is to drill the steering wheel hole. With the body on the rear slope of the top (see Fig. 1), drill the 1/4"-diameter steering wheel hole 3/4" from the edge.

To make the steering wheel, use a 1-1/4"-diameter hole saw and cut the steering wheel (D) from 1/4"-thick stock. Insert the steering column (C) into the steering wheel hole and glue the steering wheel to the column. Set the body aside.

### 3. ENGINE

Glue up and clamp three pieces of 3/4" x 1-3/4" x 10" stock to form the block for the engine (E). The extra stock is for the other Model T's but, more importantly, for safe handling of the stock during machining. After getting the stock to the proper thickness and width, chamfer the top edges with a bandsaw, scroll saw, or power sander. Cut the 1-1/16"-deep radiator line with a bandsaw blade

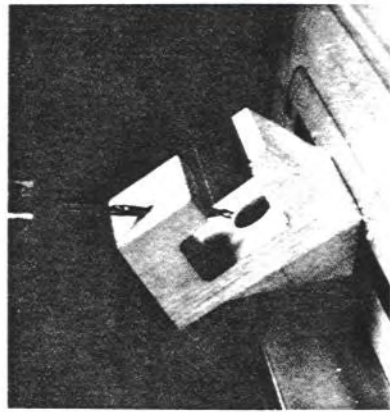


Fig. 1. To drill the steering column hole, turn the body upside down and let it rest on the rear slope of the roof.

Finally, drill the 1/4"-diameter radiator hole and glue the radiator cap (F) into place. Glue and clamp the engine to the base; then glue the body in place.

### 4. TRUNK

The trunk (N) is formed in much the same way as the engine. Glue up a couple of pieces of 3/4" x 1-1/4" x 10" long stock and chamfer the edges. Create the trunk "straps" like you did the engine radiator line by making a 1/16"-deep saw kerf with a bandsaw or scroll saw. Glue and clamp the trunk to the base. Sand the front and back of the car assembly flush.

### 5. FENDERS

Make up a cardboard template for the fenders; then transfer the fender outline (G) onto a piece of stock. Cut out the fenders using a scroll saw or bandsaw.

**NOTE:** You can pad-saw the fenders by putting two pieces

create the "rim" on the wheels. Next, cut out the wheels using a 2-1/2"-diameter hole saw.

Make at least five wheels for this model. (The other models use the identical wheel, so

make extras and set them aside.)

Cut the axles (M) to length and glue the wheels in place. Drill a 1/4"-diameter x 1-3/4"-deep hole through the trunk

and into the body. Glue the spare tire holder (O) into place and add the spare tire.

## MATERIALS

Part	Description	Pieces	Dimensions (finished dimensions in inches)
A	Base	1	3/4 x 3 x 5
B	Body	1	3 x 3-1/2 x 4-1/2
C	Steering column	1	1/4 dia. x 1-3/4
D	Steering wheel	1	1-1/8 dia. x 1/4
E	Engine	1	2-1/4 x 1-3/4 x 1-1/2
F	Radiator cap	1	1/4 dia. x 1/2
G	Fenders	2	3/4 x 2 x 7-1/4
H	Headlamps	2	5/8 dia. x 5/8
I	Headlamp columns	2	1/4 dia. x 1
J	Axle holders	2	3/4 x 1 x 3-3/4
K	Exhaust pipe	1	1/4 dia. x 1
L	Wheels	5	2-3/8 dia. x 3/8
M	Axles	2	1/4 dia. x 4-1/2
N	Trunk	1	1-1/2 x 1-1/4 x 3
O	Spare tire holder	1	1/4 dia. x 2-1/4
P	Reinforcement pins (not shown)	4	1/4 dia. x 1-1/2

### 6. WHEELS

Make up 3/8"-thick stock for the wheels (L). Make up a lot of stock to make extra wheels for use on other Model T's. Use a 1-7/8"-diameter hole saw to

of stock together using double-faced carpet tape. With the stock stuck together, cut out the pieces.

Next, drill the 1/4"-diameter holes in the front of the fenders for the headlamp columns (I) and the 1/4" holes in the headlamps (H).

**CAUTION:** Do not attempt to drill the headlamp holes on small pieces of stock. Drill the holes in a longer piece of dowel; then cut the headlamps to length.

Attach the fenders to the car assembly with glue and clamps. When the glue is completely dry, drill two 1/4"-diameter reinforcement holes on each side of the car. Glue the reinforcement dowels into place and sand them flush.