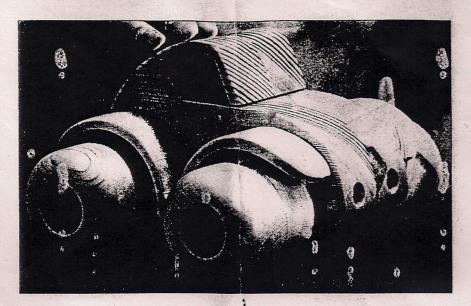
## BAJA BUGGY

Youngsters will feel the wind through their hair and the summer sun upon their faces when driving this beach buggy over the dunes of make-believe. This fat-tired toy requires just a few feet of 2x4 stock and about 2½ hours to build. Can you think of an easier child pleaser?

## Shape the body and fenders

**1.** Plane or resaw two 12"-long pieces of pine or fir 2x4 stock to - 1<sup>1</sup>/<sub>16</sub>" thick. You also could use five-quarter (5/4) stock and eliminate the planing. Glue and clamp the pieces together face to face for the car body (A).

2. Transfer the full-sized car outline and axle-hole locations to a piece of paper. (We photocopied the pattern; you also could use carbon paper.) Cut the pattern outline to shape. Apply spray-on adhesive to the back side of the paper pattern, and stick the pattern to the pine block.



 Drill a pair of <sup>7</sup>/<sub>16</sub>" axle holes through the body where marked.
With a <sup>1</sup>/<sub>8</sub>" blade on your

band saw, cut the car body and window opening to shape.

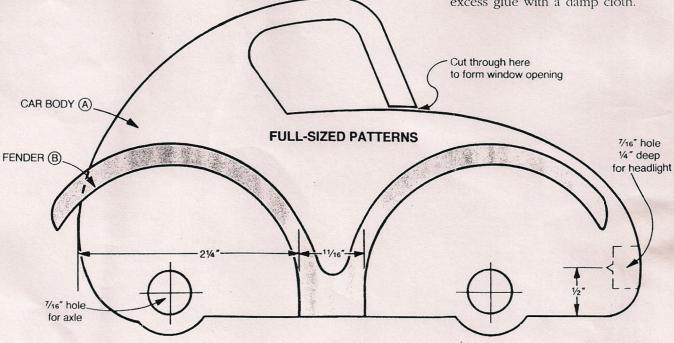
**5.** Plane or resaw another 12"long piece of 2X4 stock to 1<sup>1</sup>/<sub>16</sub>" thick. Using the same transfer procedure described in Step 2, lay out and cut the two fenders (B) to shape.

6. Sand a radius on the front and rear outside corners of the fenders as shown in the Fender detail. (We marked the radii with a quarter, and shaped the radii with a belt sander.)

7. Remove the paper pattern, and hand-sand the car body and fenders.

**8.** Drill a pair of  $\frac{7}{60}$ " holes  $\frac{7}{60}$ " deep in the front of the car body to form the headlights. (We held the car body upright in a handscrew clamp, and drilled the holes on the drill press.)

9. Glue and clamp the fenders to the car body where located on the Full-Sized Pattern The bottom middle section of the fenders should be flush with the bottom of the car body. Wipe off the excess glue with a damp cloth.



## Let's add the wheels

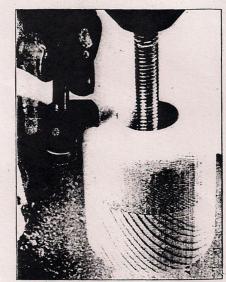
**1.** Plane two 12" lengths of 2X4 stock to  $1\frac{1}{16}$ ". Laminate the two pieces together face to face.

**2.** Using a compass, mark four 2<sup>'</sup>/<sub>4</sub>"-diameter (1<sup>'</sup>/<sub>6</sub>" radius) circles on the top face of the laminated stock for the wheels (C).

**3.** Chuck a 1" Forstner or paddle bit into your drill press. Drill a 1<sup>1</sup>/<sub>16</sub>"-deep hole at the center of each marked wheel. Switch to a brad-point bit, and drill a <sup>1</sup>/<sub>8</sub>" hole through the center of each wheel.

4. Using a bandsaw, cut the four wheels to shape, cutting just outside the marked outline.

5. Fasten a wheel to a 5"-long piece of ¼"-threaded rod where shown on the drawing *at far right*. Chuck the assembly into your drill press. With 80-grit sandpaper, sand the wheels smooth (we used a sanding block). Sand a ¾" round-over along the outside edges. With the drill press stopped, check the sanded round-overs for uniformity with a ½" round-over bit as shown in the photo *above right*. Finish-sand with finer grits of paper. Repeat the process for the remaining wheels.



## Apply the finish and head for the dunes

**1.** Apply two coats of clear finish. (We found that an oil finish tends to pick up too much dirt over time, but, paint, lacquer, or polyurethane work well.) Now, watch a deserving youngster's imagination run wild.

When sanding the band-sawed wheels to shape on the drill press, check round-overs with a <sup>1</sup>/<sub>8</sub>" round-over bit for uniformit

