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Bill Krier
Editor
WOOD® magazine

Adobe Acrobat Troubleshooting Guide

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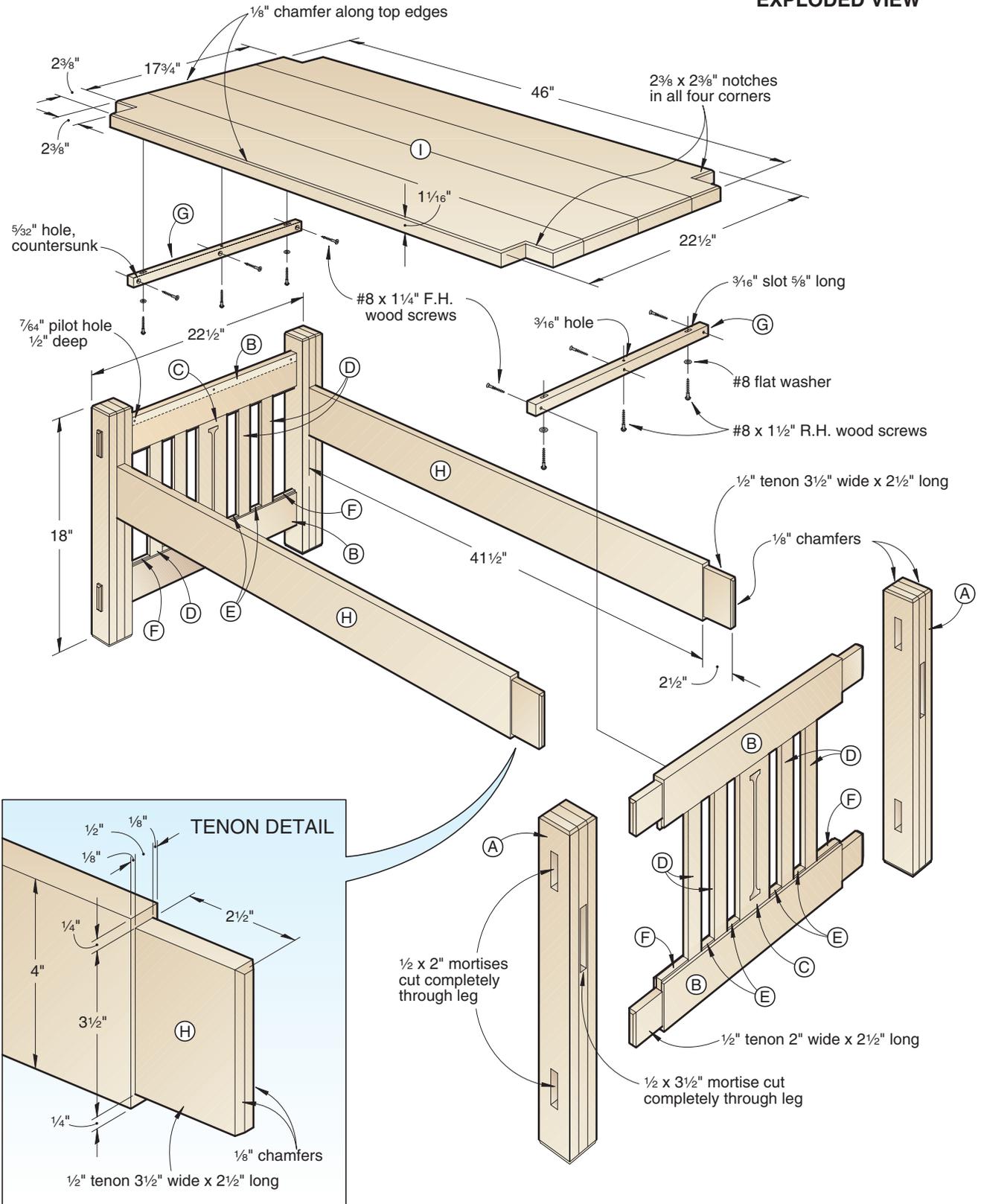
Arts-and-Crafts
Collection

Coffee Table and Ottoman

In a separate downloadable plan, we introduced this impressive Arts-and-Crafts Collection with the Morris-style chair shown *bottom right*. Here, we follow suit with this handsome Coffee Table and Ottoman.



COFFEE TABLE EXPLODED VIEW



Coffee Table Bill of Materials

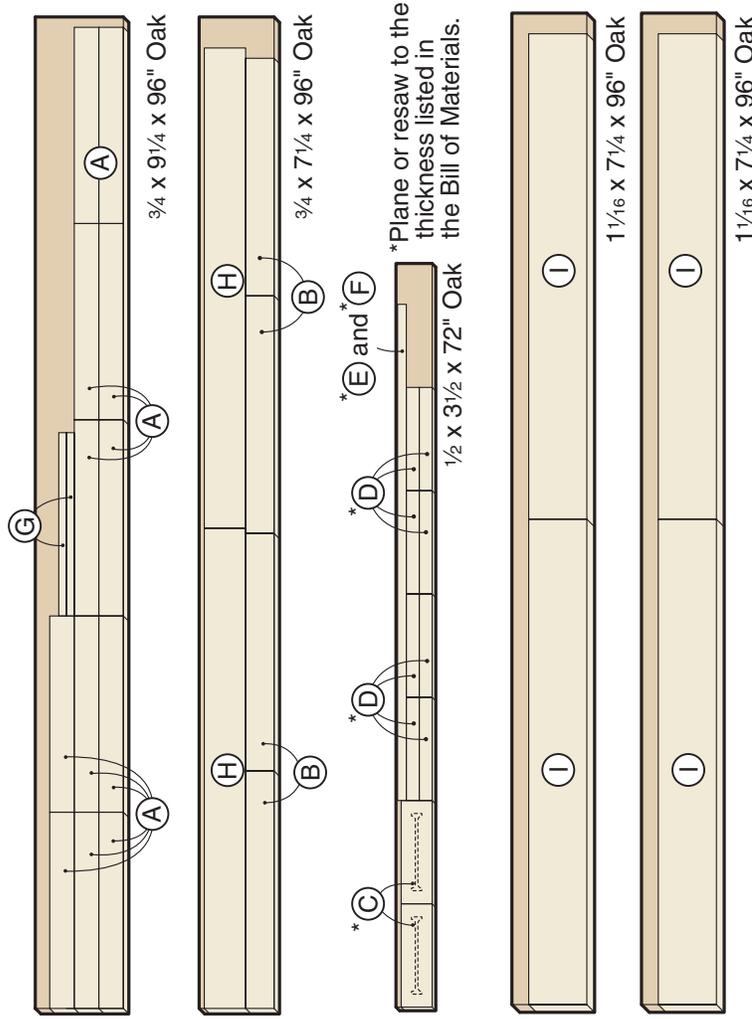
| Part | Finished Size | | | Qty. |
|--------------|---------------|---------|---------|------|
| | T | W | L | |
| A* legs | 2 1/4" | 2 1/4" | 18" | 4 |
| B rails | 3/4" | 2 3/4" | 23" | 4 |
| C ctr. slats | 3/8" | 3" | 10" | 2 |
| D side slats | 3/8" | 1 1/4" | 10" | 8 |
| E* spacers | 3/8" | 5/8" | 1 1/4" | 16 |
| F* spacers | 3/8" | 5/8" | 2 1/2" | 8 |
| G cleats | 3/4" | 3/4" | 17 3/4" | 2 |
| H stretchers | 3/4" | 4" | 46 1/2" | 2 |
| I* tabletop | 1 1/16" | 22 1/2" | 46" | 1 |

*Cut parts marked with an * oversize. Trim to finished size according to the how-to instructions.

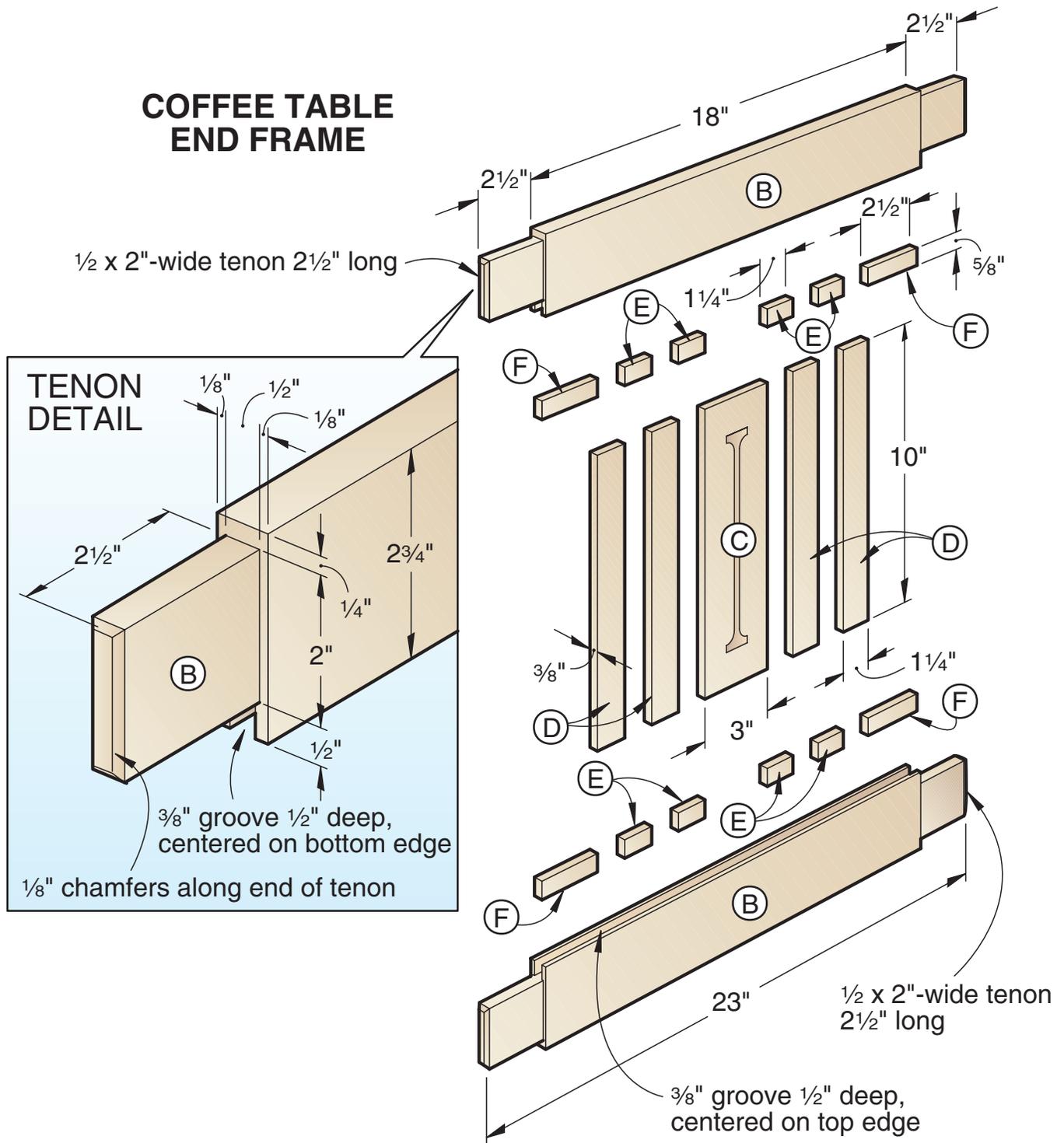
Materials Key: LO—laminated oak; O—oak; EO—edge-joined oak.

Supplies: 6—#8x1 1/4" flathead wood screws, 6—#8x1 1/2" roundhead wood screws with flat washers, stain, clear finish.

COFFEE TABLE CUTTING DIAGRAM



COFFEE TABLE END FRAME



centerline across the grain. Starting with the center slat (C) centered over the centerline on the bottom rail (B) and working from the center out, add (no glue) the spacers (E, F) and the slats (D). Add the top rail (B). Trim the spacers if necessary. Then, fit (again, no glue) the assembly into the leg mortises to check the joinery.

8 Sand the legs and end frame pieces. Next, glue and clamp the two frames together, checking for square as shown in *Photo A*.

Add the cleats and stretchers next

1 Cut the cleats (G) to size.

2 Mark the locations, and machine a pair of screw expansion slots on each cleat where dimensioned on the Parts View drawing. Mark the centerpoints, and drill counter-sunk holes through each cleat. Screw the cleats to the inside face of each top rail (B), keeping the top edge of the cleats flush with the top edge of the rails. There should be a $\frac{1}{8}$ " gap between the ends of the cleat and the legs, so you won't see the cleat when the tabletop is attached later. See the Notch detail on the Parts View for reference.

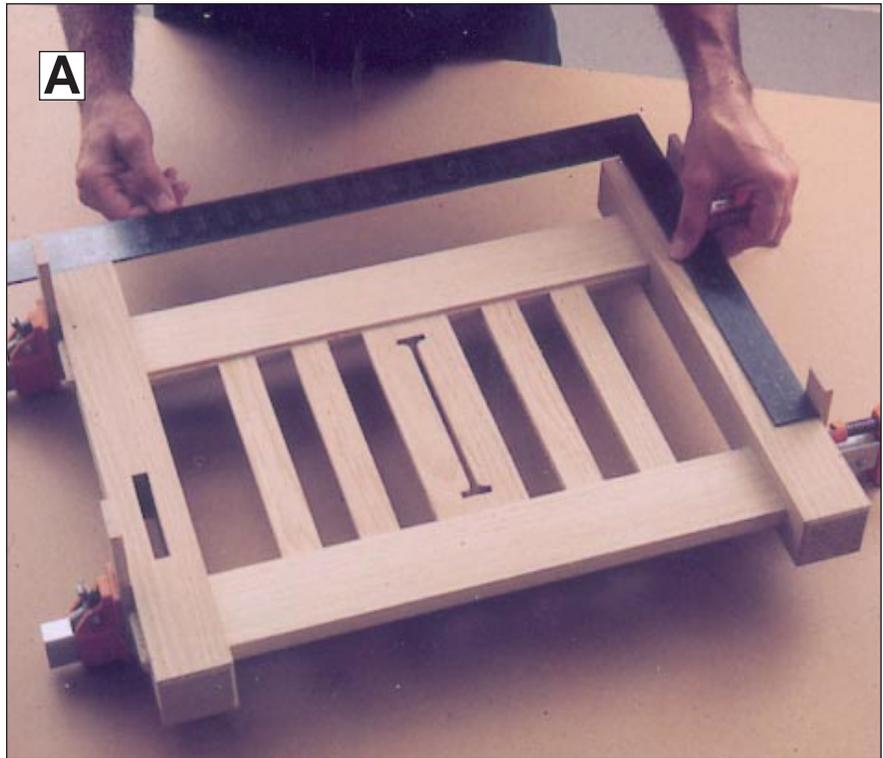
3 Cut the stretchers (H) to size. Cut tenons on the ends of the stretchers to fit snug inside the mortises in the legs. See the Tenon detail accompanying the Exploded View drawing for reference. Next, cut or rout $\frac{1}{8}$ " chamfers on the ends of the tenons.

4 Glue and clamp the stretchers between the end frames, keeping the frames square to the stretchers.

Edge-join pieces for a solid-stock top

1 Cut four pieces of $1\frac{1}{16}$ " stock to $5\frac{3}{4}$ " wide by 47" long. Joint the edges of the four boards so that each measures $5\frac{3}{8}$ " wide.

Note: Because of the weight and size of the tabletop, we found it more manageable to bandsaw



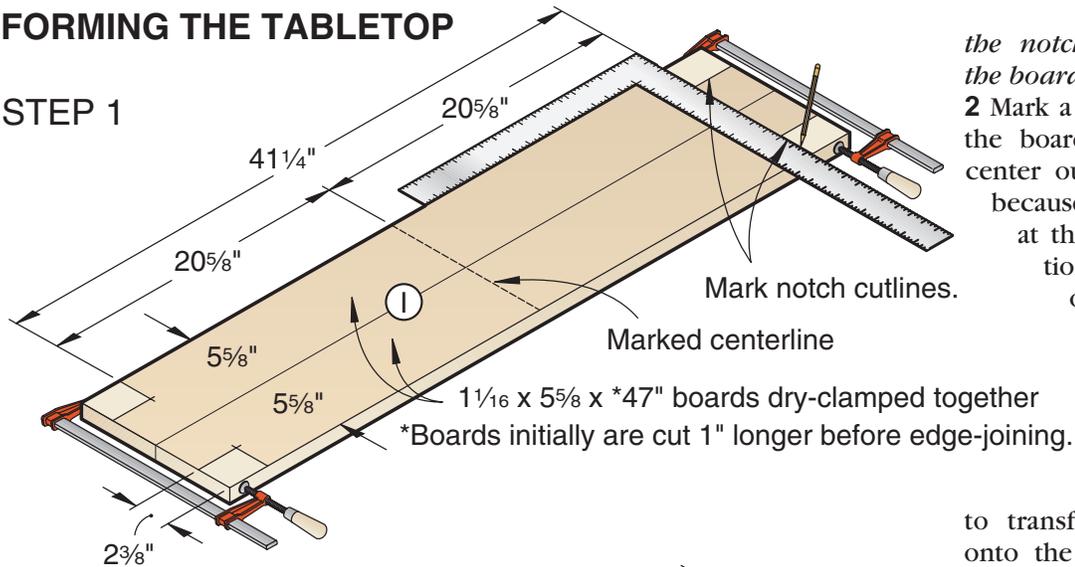
After checking the fit of all the pieces, glue and clamp the end frame, checking for square.



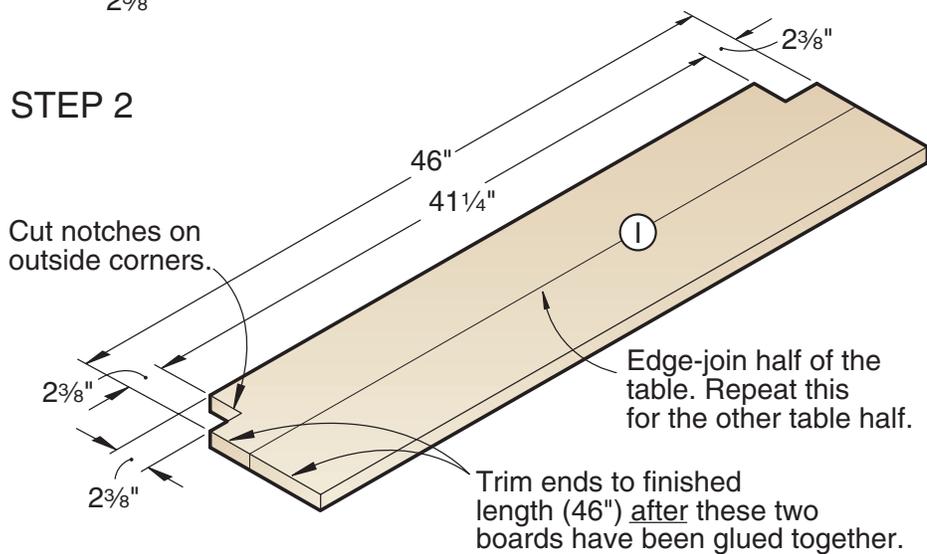
Notice the $\frac{1}{8}$ "-thick spacers between the end-frame legs and tabletop. We used the spacers to center the top on the base when screwing the assemblies together.

FORMING THE TABLETOP

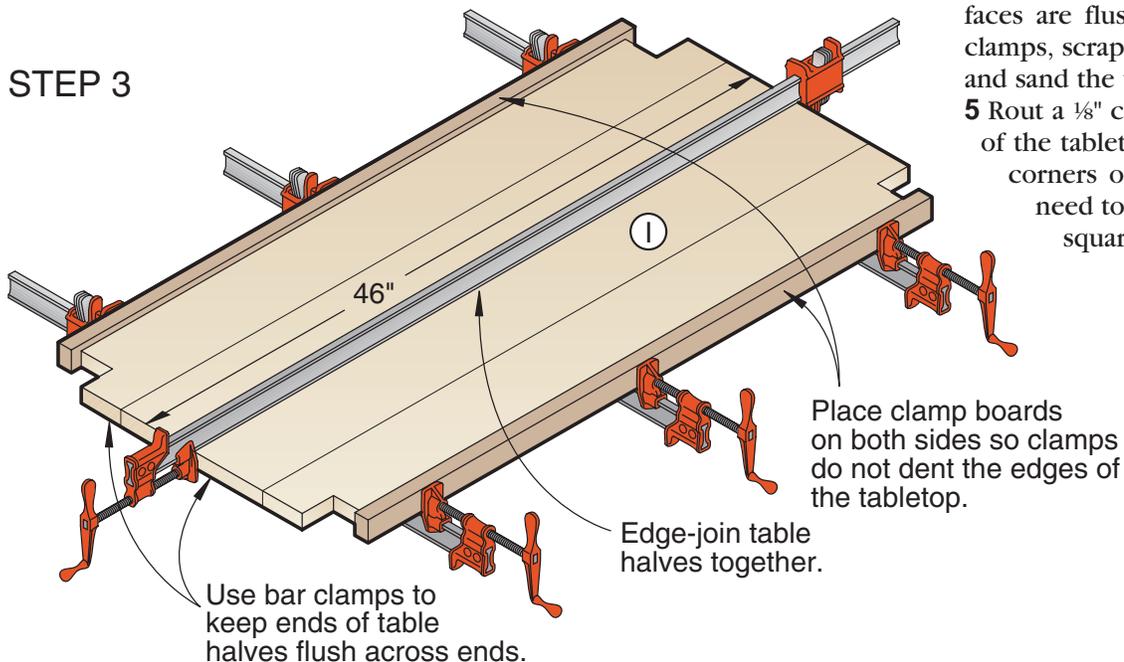
STEP 1



STEP 2



STEP 3



the notches before edge-joining the boards.

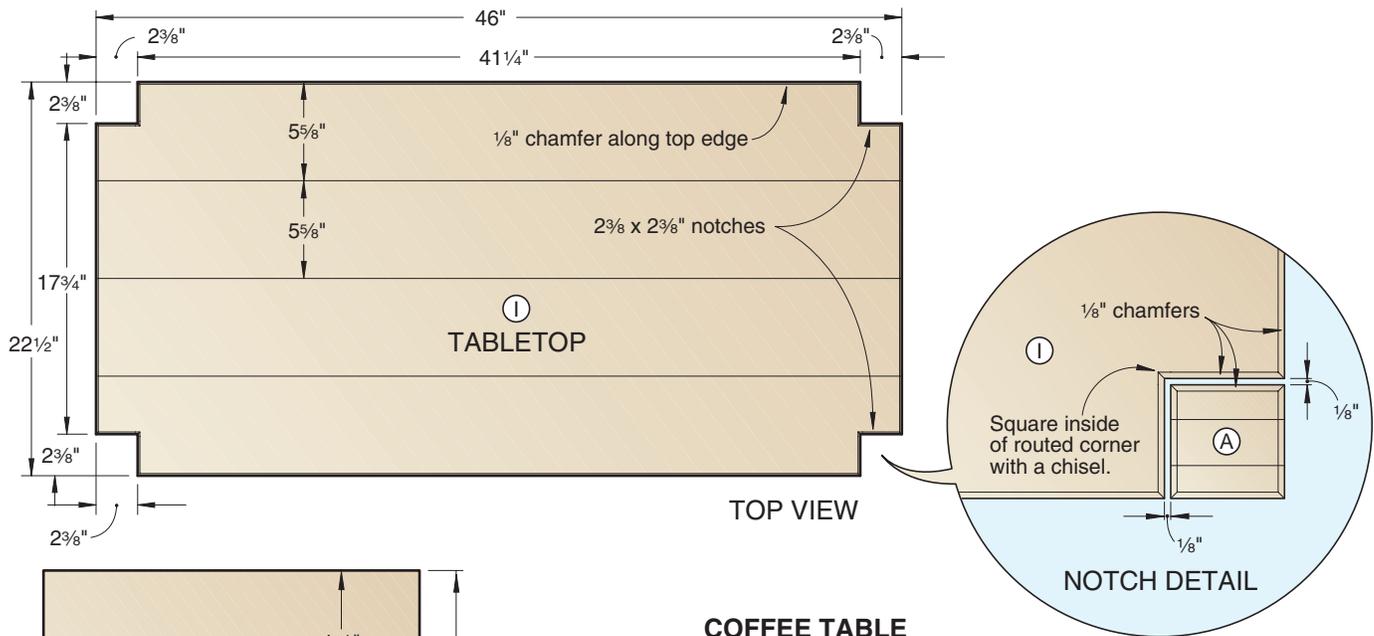
2 Mark a centerline across two of the boards. Measuring from the center out (you need to do this because the boards are cut long at this point), mark the locations of the notches on one of the boards. Now, as shown in *Step 1* of the three-step drawing at left, clamp two of the boards together, aligning the centerlines.

Use a framing square to transfer the notch locations onto the second board. Remove the clamps, and bandsaw the notches in each board to shape.

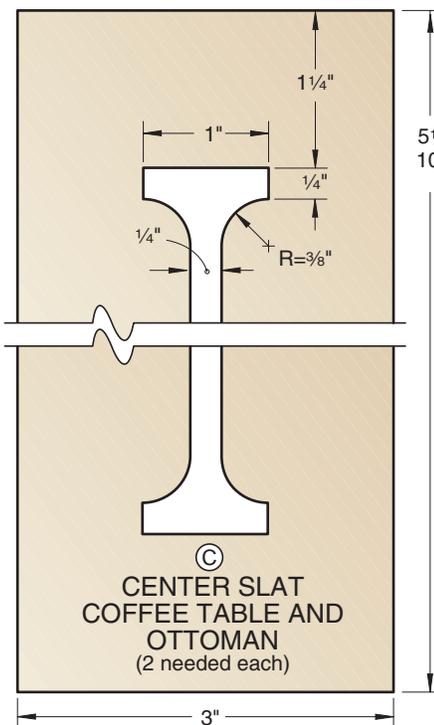
3 Edge-join one notched board against a second unnotched board, keeping the surfaces flush. See *Step 2* of the drawing for reference. Repeat for the remaining two boards

4 Remove the clamps and scrape off the excess glue. Crosscut the ends of both table halves for a 46" long finished length, so that the notches measure 2 3/8" long. Now, being careful to keep the ends and notches aligned as shown in *Step 3* of the drawing, glue and clamp the two tabletop halves together, again checking to see that the surfaces are flush. Later remove the clamps, scrape off the excess glue, and sand the tabletop smooth.

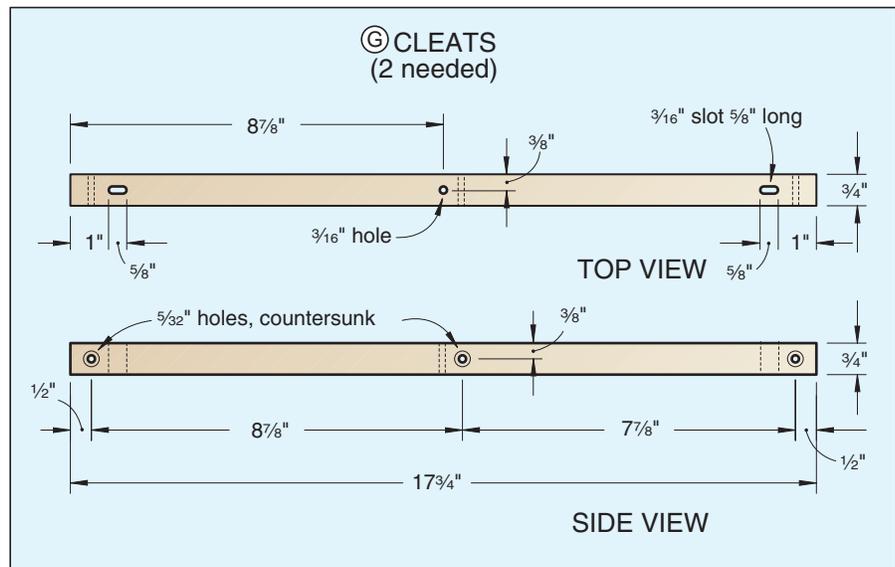
5 Rout a 1/8" chamfer along the top of the tabletop (I). On the inside corners of the notches, you'll need to use a sharp chisel to square-up the chamfer.



COFFEE TABLE PARTS VIEW



5 1/4" Ottoman
10" Coffee table



Finish-sand, stain, and clear-coat the table

1 Finish-sand the table base and tabletop. (We sanded with 100-, 150-, and finally 220-grit sandpaper, using a bright light, in our case a halogen, at a low angle to check the surfaces for sanding marks. Another method we use to check for sanding marks is to lightly dampen the surface with lacquer or paint thinner, then take a close look at it.)

2 Place a blanket on your workbench top, and place the tabletop

(I) upside down on the blanket. Center the base (also upside down) on the tabletop, keeping the gaps around the notches even. Using the holes and slots in the leg cleats as guides, drill pilot holes into the bottom side of the tabletop, and screw the assemblies together as, shown in *Photo B*. Center the screws in the slots, tighten them, then back them off about half a revolution. You want the screws to be able to move back and forth in the slots as the table-

top expands and contracts with seasonal humidity changes.
3 Stain as desired. (We used Minwax Provincial #211, a good choice for imitating that time period.) Or, see our Arts-and-Crafts fumeless finish article in the November 1998 issue of WOOD® starting on page 74. Apply the finish. (We brushed on several coats of satin polyurethane.) ♣



Using a construction procedure like that of the coffee table, build the ottoman shown here. See the Parts View drawing on *Page 8* for part C. See the Cushion Parts View on *Page 13* for the material layout for the cushion. See the Ottoman Bill of Materials *below* for part sizes.

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 Illustrations: Kim Downing; Lorna Johnson
 Photography: Scott Little, Hetherington
 Graphic Design: Jamie Downing
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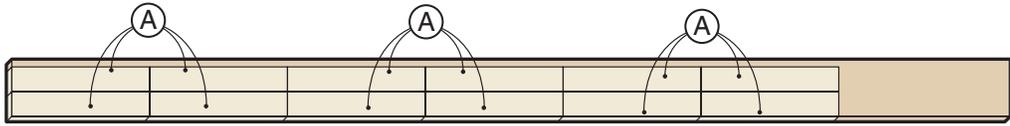
| Ottoman Bill of Materials | | | | | |
|------------------------------|---------------|------|------|-------|------|
| Part | Finished Size | | | Mati. | Qty. |
| | T | W | L | | |
| A* legs | 2¼" | 2¼" | 12¼" | LO | 4 |
| B rails | ¾" | 2¾" | 18" | O | 4 |
| C ctr. slats | ¾" | 3" | 5¼" | O | 2 |
| D side slats | ¾" | 1¼" | 5¼" | O | 4 |
| E* spacers | ¾" | 5/8" | 1¼" | O | 8 |
| F* spacers | ¾" | 5/8" | 2½" | O | 8 |
| G stretchers | ¾" | 4" | 24" | O | 2 |
| H cleats | ¾" | ¾" | 19" | O | 2 |
| I slats | ¾" | 1¼" | 14½" | O | 8 |

*Cut parts marked with an * oversize. Trim to finished size according to the how-to instructions.

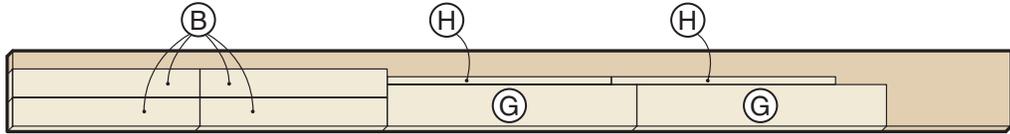
Materials Key: LO—laminated oak; O—oak.

Supplies: 20—#8×1" flathead brass wood screws, 6—#8×1¼" flathead wood screws, stain, finish.

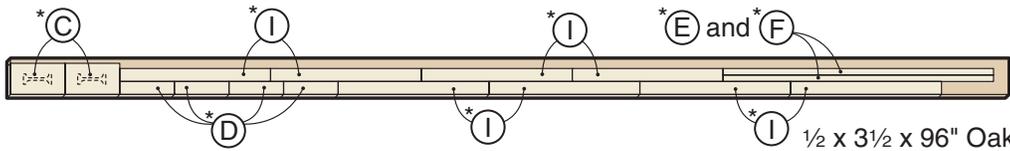
OTTOMAN CUTTING DIAGRAM



$\frac{3}{4}$ x $5\frac{1}{2}$ x 96" Oak

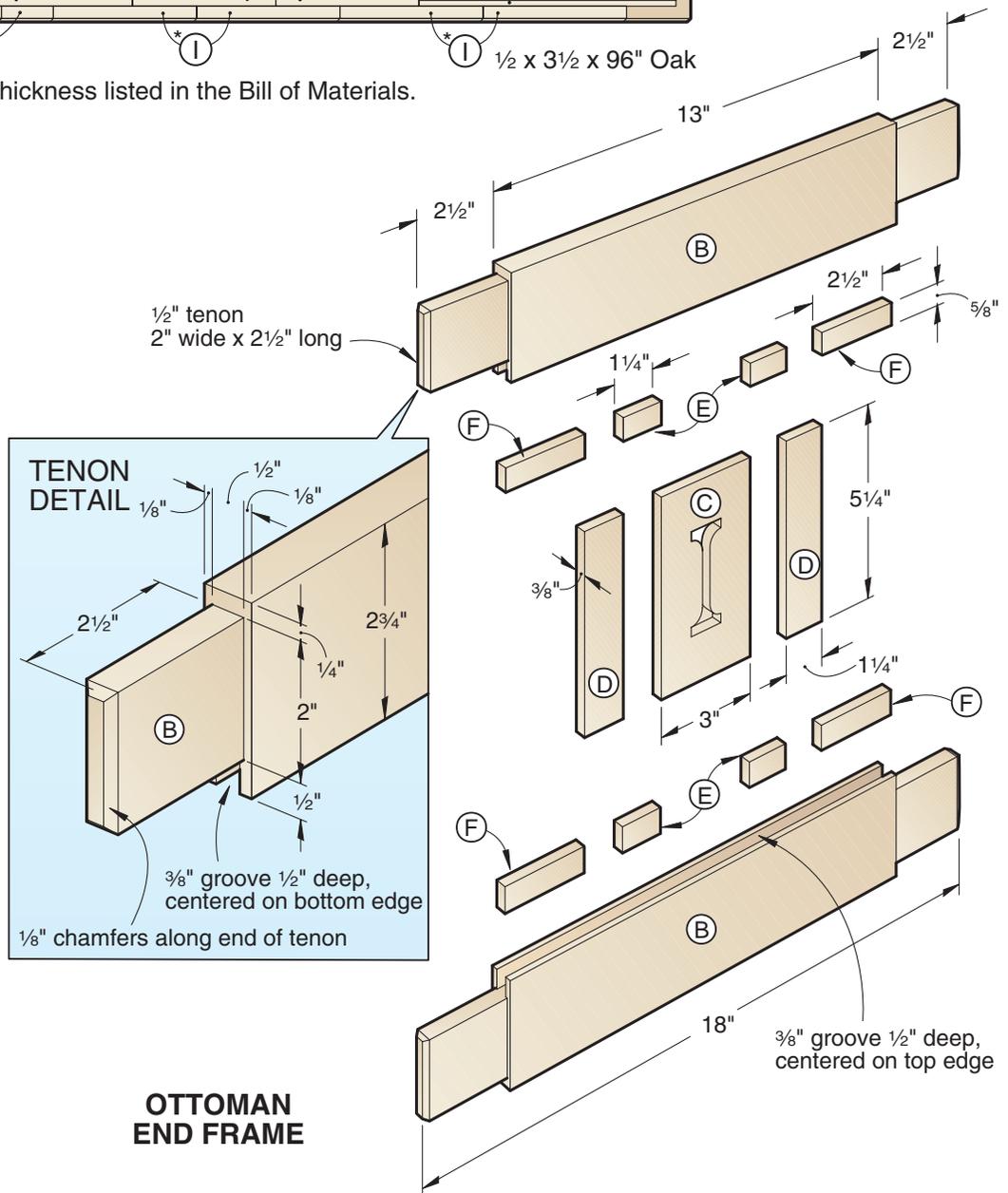


$\frac{3}{4}$ x $7\frac{1}{4}$ x 96" Oak

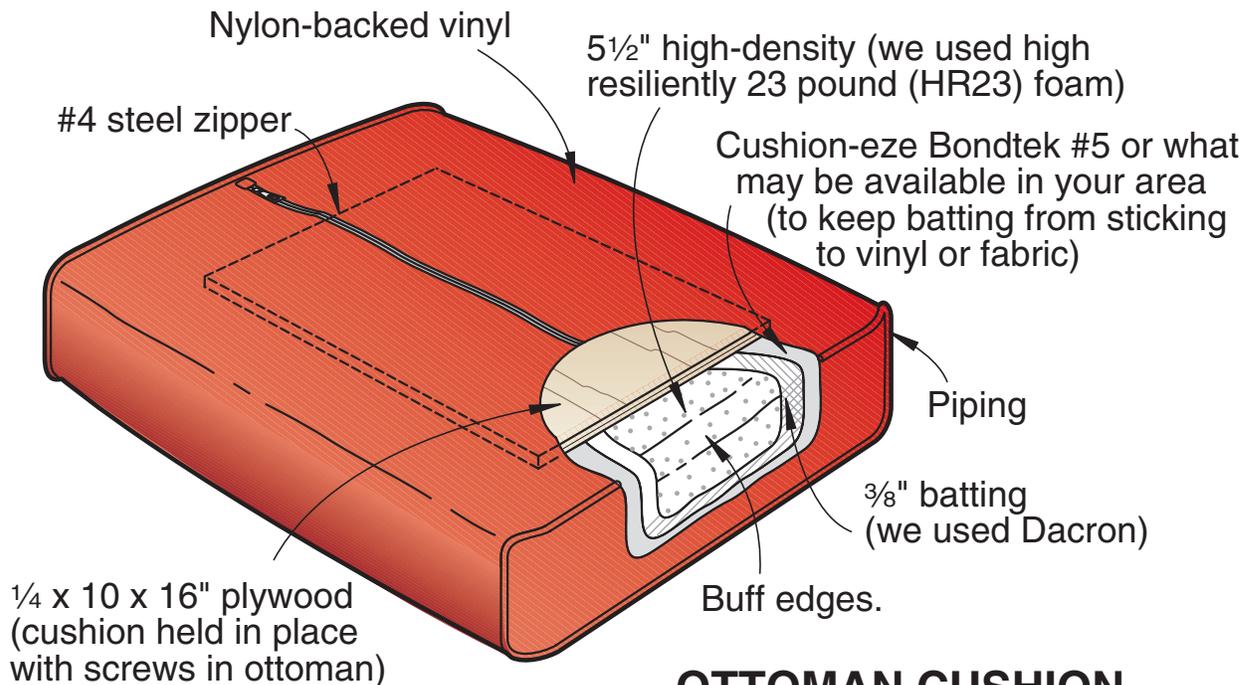
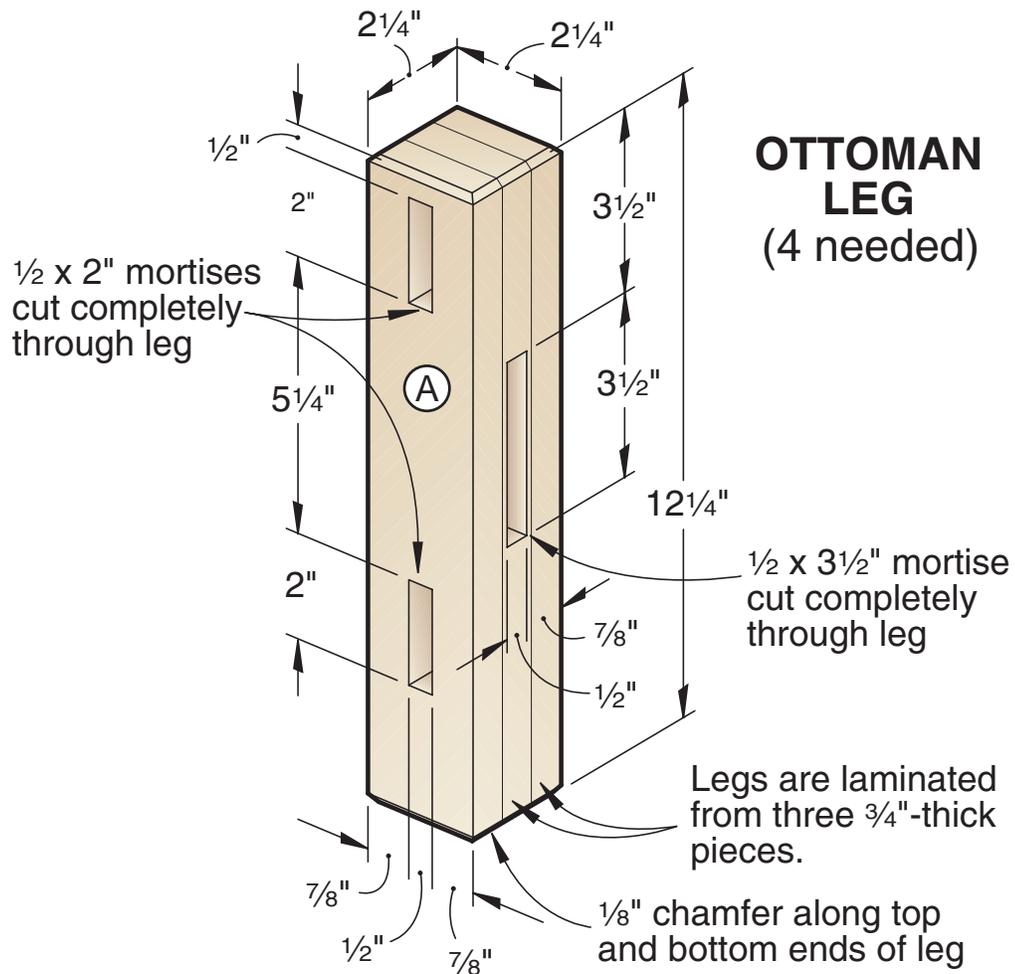


$\frac{1}{2}$ x $3\frac{1}{2}$ x 96" Oak

*Plane or resaw to the thickness listed in the Bill of Materials.

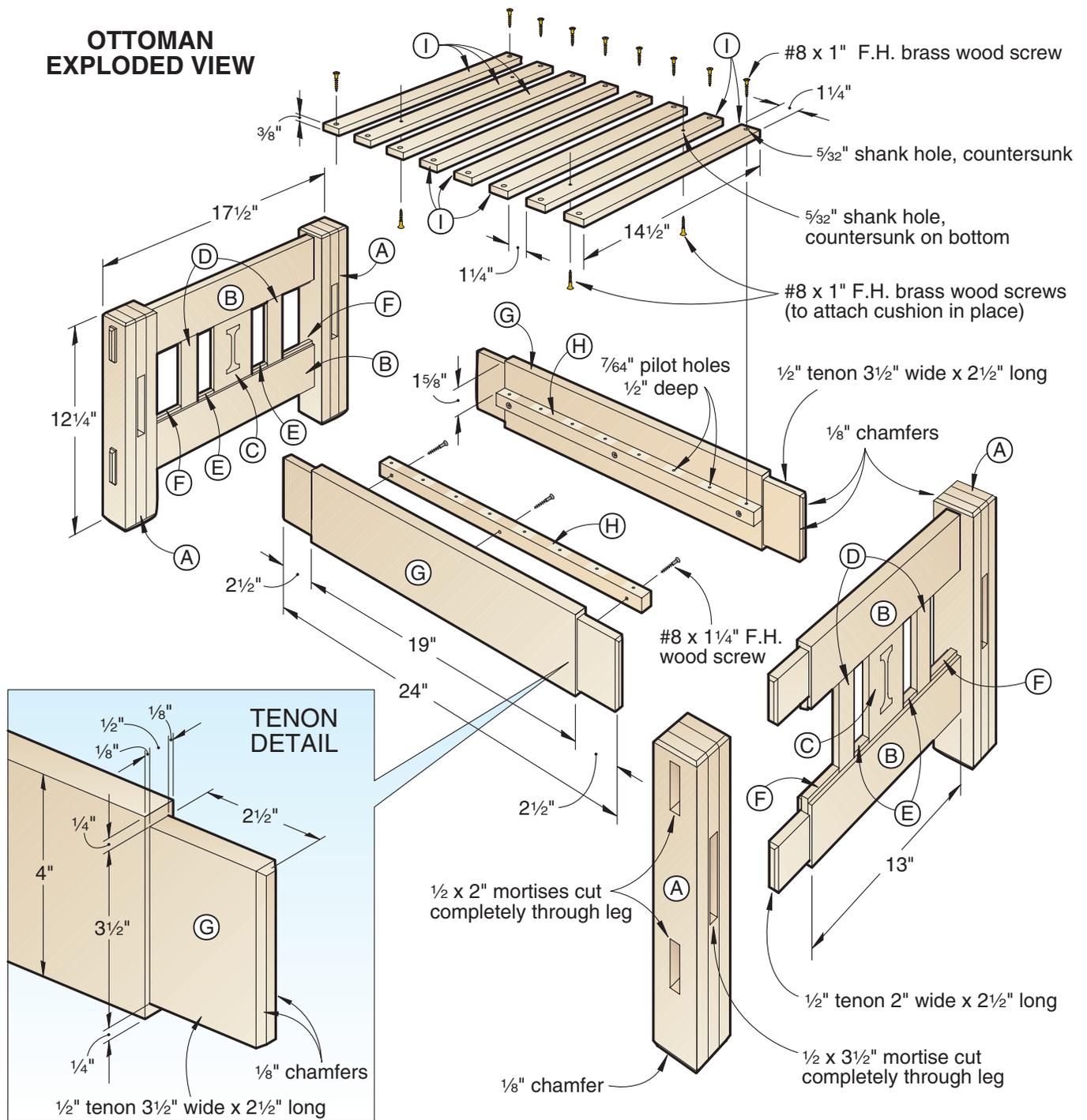


**OTTOMAN
END FRAME**

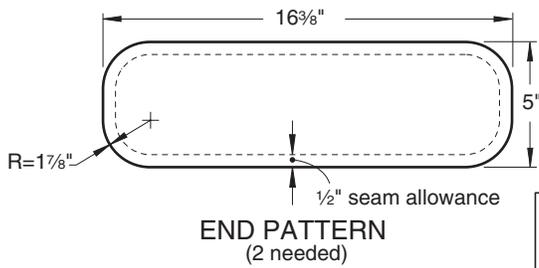


OTTOMAN CUSHION
(VIEW FROM BOTTOM)

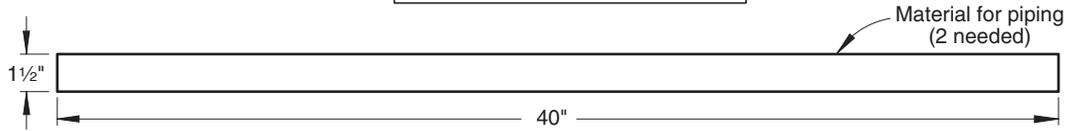
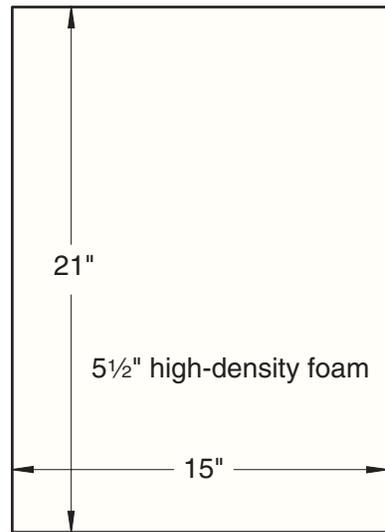
OTTOMAN EXPLODED VIEW



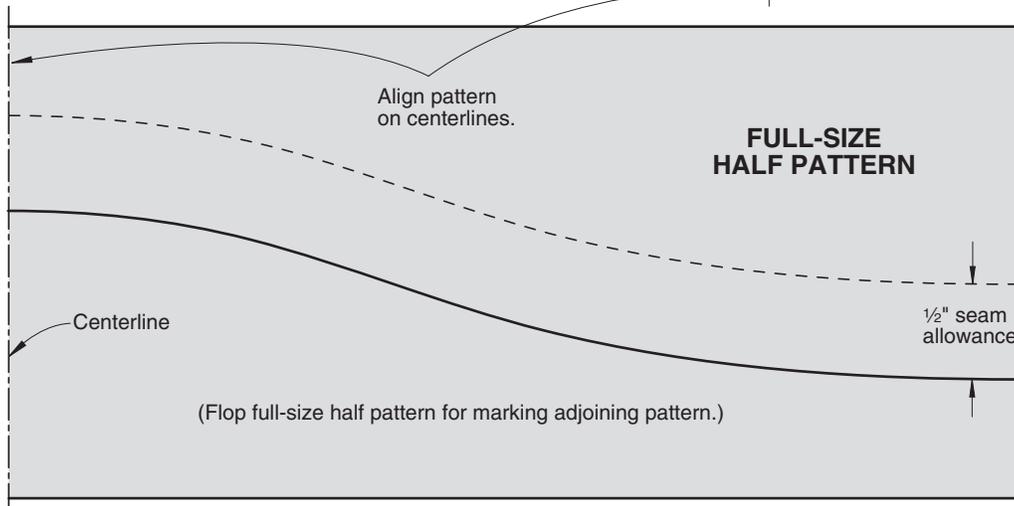
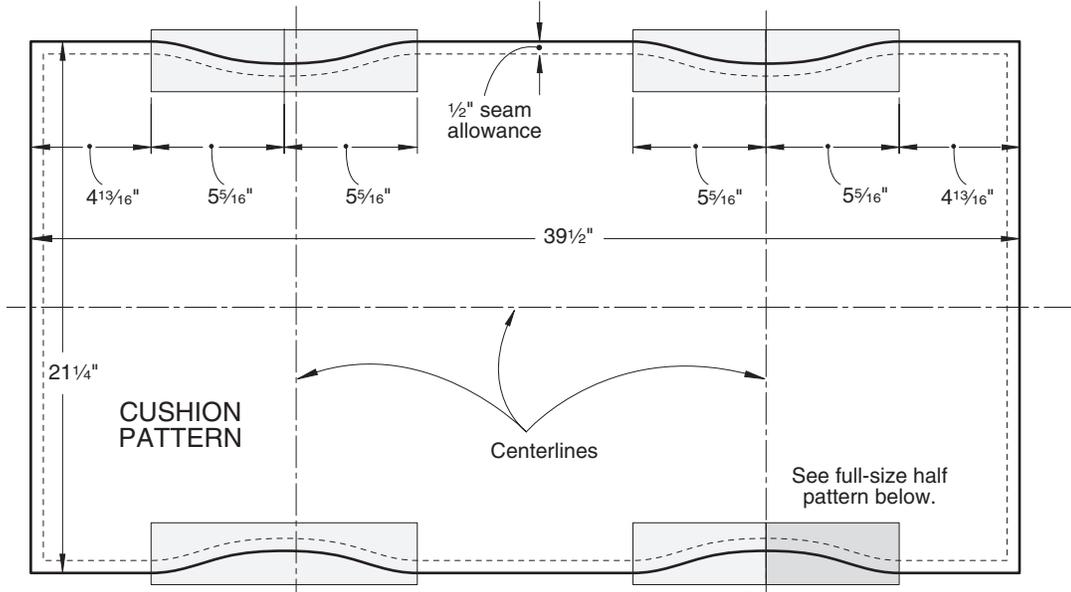
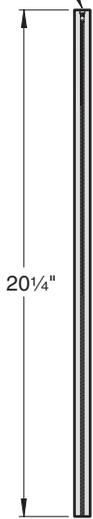
CUSHION PARTS VIEW



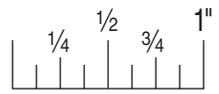
Note: Checking with upholsterers around the country, we learned that the supplies and the thickness of materials vary greatly. We recommend providing our drawings and your chair to your upholsterer, and having them make the cushion to fit your chair.



#4 steel zipper



To ensure full-sized patterns are correct size, your printer should be set to print at 100% (not fit to page). Measure full-sized patterns to verify size.



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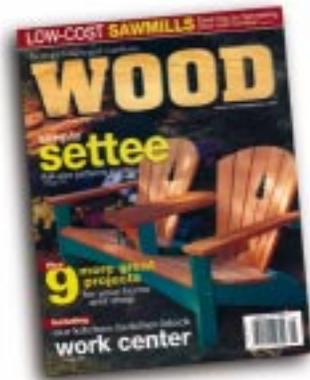
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