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Bill Krier
Editor in Chief, WOOD magazine

Adobe Acrobat Reader Troubleshooting Guide

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flip-up Pen Box

It stores a pair of pens, then
hands them to you

Raising the lid lifts the pen and pencil right out of this handsome desktop box. It's perfect for turned wooden pens and pencils—you could even make the box from the same kind of wood as the writing instruments.



Note: The pen box shown accommodates two pens (or a pen and pencil) about 1/2" in diameter and a little less than 6" long. You can adjust the dimensions for fatter or longer pens.

Make three main parts to start

1 Trim a 2x1 5/8x10" blank to 6 1/4" long. Keep the cut-off piece. We made our box of moradillo, but you could use any exotic or figured domestic hardwood. Draw index marks on one end of the blank, as in the Cutting the Box Top and Bottom drawing below.

2 Saw a 1/4"-thick slice off the top of the blank and a 1/8"-thick piece off the bottom. Make the cuts with a bandsaw or on a tablesaw equipped with a thin-kerf blade in order to preserve grain continuity on the box as much as possible.

Plane or sand the saw marks off the mating surfaces, and set the top and bottom aside until later.

3 Saw two deep dadoes across the body. See the Lid, Body, and Bottom drawing on page 6. To do this, install a 3/8" dado blade on

your tablesaw, and set the cutting depth to 1 3/8". Attach an extended fence to the miter gauge. Clamp stopblocks to the fence 5 1/8" from each side of the dado blade, and saw the dadoes, as shown in Photo A on page 3.

4 Saw dadoes in the edge of the lid for the hinges, shown in the Lid, Body, and Bottom and Exploded View drawings on pages 6 and 7. To saw them, change to a 5/16" dado blade, and set the cutting depth at 1/4".

Install a new auxiliary fence on the miter gauge or move the used one over so you'll have solid wood behind the lid when you cut the dadoes. This will help minimize tearout.

To locate the dadoes accurately, place the body against the fence, and center the dado in the body over the narrower dado blade. Clamp a stopblock to the fence at the opposite end of the body, as shown in Photo B on page 3. Repeat for the other dado. Verify which edge to cut by checking the index marks, then saw the dadoes in the lid.

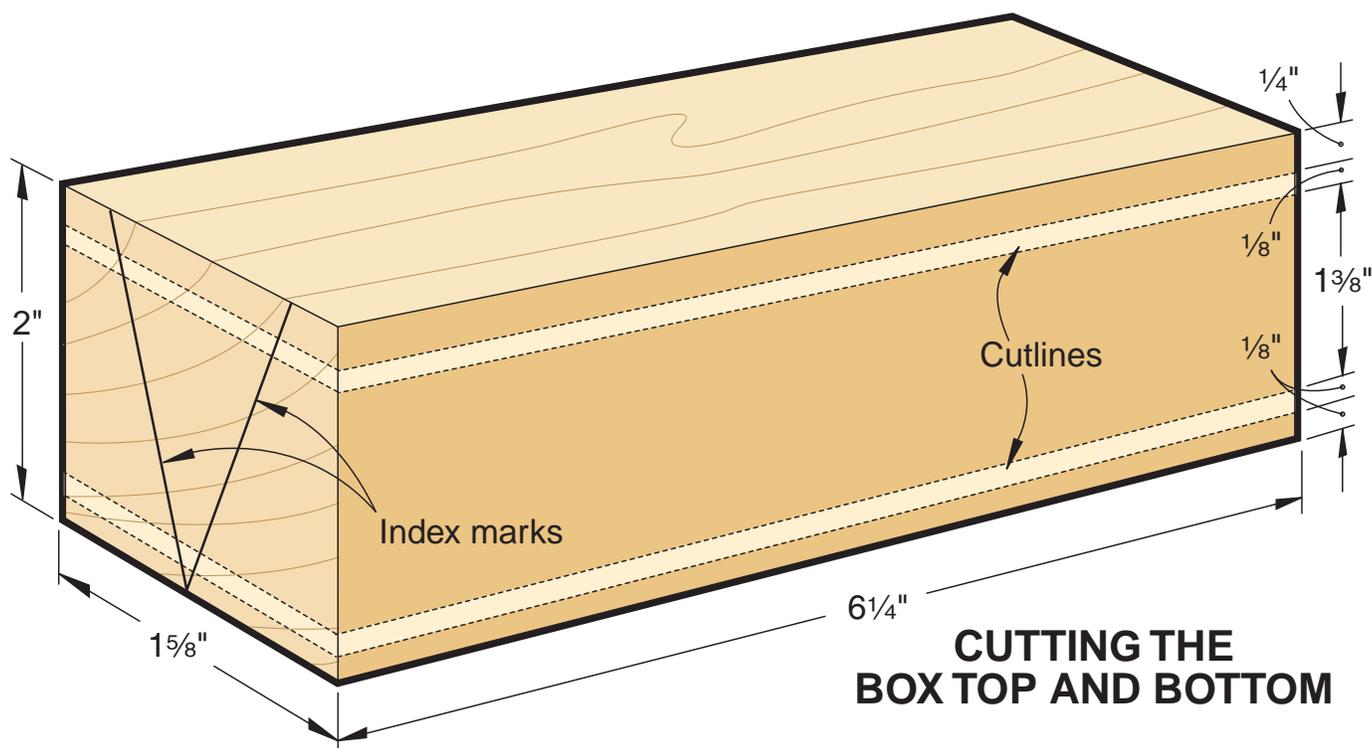
Rout the body and make the lid

1 Rout a 3/16" round-over along the top back edge of the body (the dadoed side). Do the job on a table-mounted router. To bridge the dadoes, set a fence flush with the router bit's pilot.

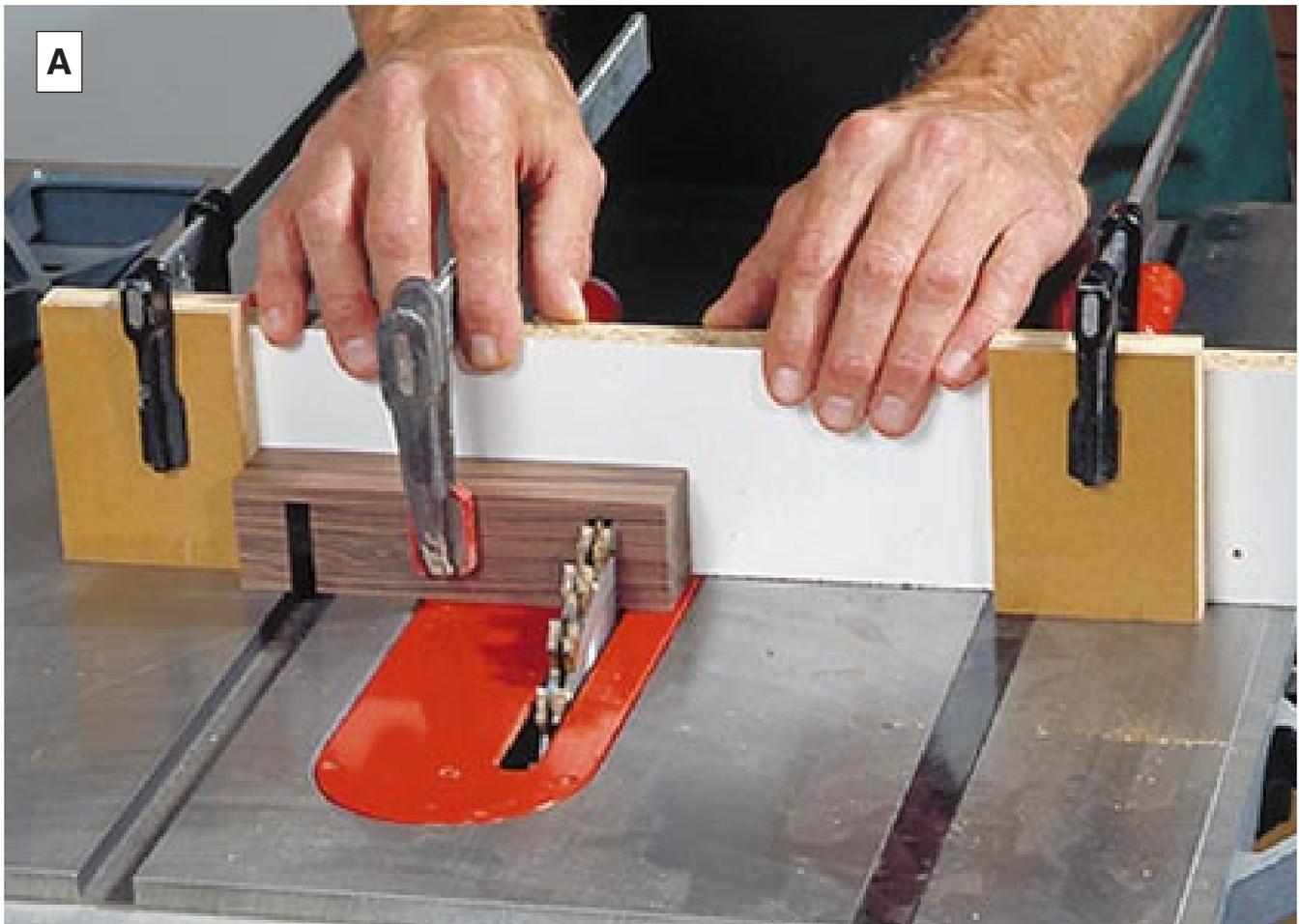
2 Using a 1/2" round-nose bit in the table-mounted router, rout the pen grooves in the body where shown. To rout them, position a fence on the router table 1/4" from the bit. Clamp stopblocks to the fence 5 1/8" from each side of the bit. Clamp a straight-edged board to the table parallel to the fence, and 1 3/8" from it. This will help keep the body against the fence throughout the routing.

Rout the grooves in small depth increments—start at about 1/8" deep and increase the depth by about that much each pass. Make a pass at each depth with each face against the fence to form the two grooves.

3 Now, make the lid hinges. Start with two 1/4x5/16x1 1/16" pieces of stock that match the rest of the parts. You can cut the hinge

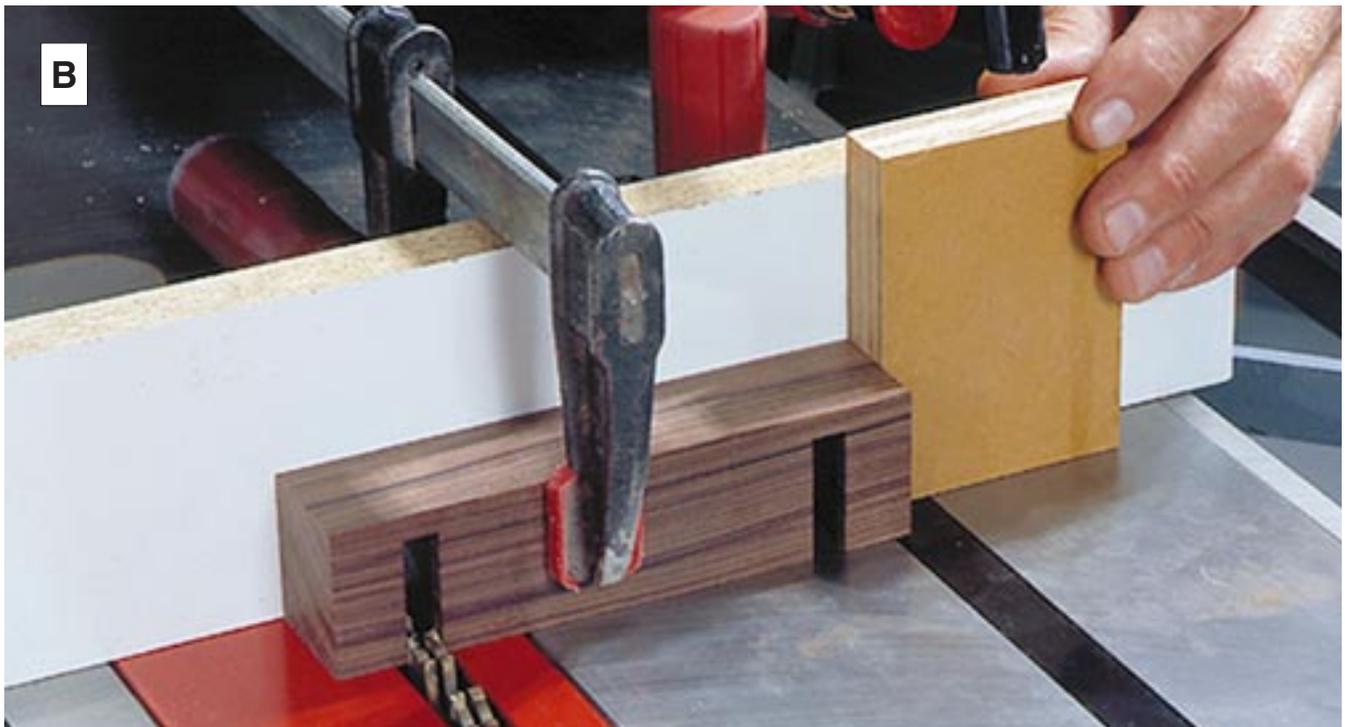


CUTTING THE BOX TOP AND BOTTOM



A

Install an extended miter-gauge fence to saw the deep dadoes in the body.



B

The body dadoes help when setting stopblocks for sawing hinge dadoes in the lid.

C

Tape on the end of the file protects the lid when filing the screws flush.

blanks from the cut-off end of the blank.

4 Tape the pieces together edge to edge. Then, referring to the Hinge Arm Full-Size Pattern on *page 8*, sand pen recesses where shown. (We did this with sandpaper wrapped around $\frac{1}{2}$ " dowel rod.)

5 Glue the hinges into the lid dadoes. (We used epoxy.) Position the hinges perpendicular to the lid in both directions. (See the Exploded View and Side Section View drawings.)

6 After the epoxy cures, sand off the squeeze-out on the top and back of the lid. You can pare away squeeze-out on the inside of the lid and sides of the hinges with a sharp chisel.

7 Drill a $\frac{5}{64}$ " hole $\frac{5}{8}$ " deep at the middle of each hinge, centered on the edge of the lid. Enlarge the holes through the hinge arms to $\frac{7}{64}$ ", and countersink them shallowly—shallow enough that the screw slot will be above the surface.

8 Drive a screw into each hole, and file the heads flush with the arms, as shown in *Photo C*. Tape the tip of the file to keep it from gouging the wood.

Write the last chapter

1 Mark the location of the hinge pin on each end of the body. Refer to the Side Section View and Exploded View drawings for placement.

2 Place the lid on the body, and slide a shim about $\frac{1}{32}$ " thick between them. (We used cardboard from the back of a notepad.) Clamp the parts together, keeping the edges and ends flush.

3 Drill the hinge hole on each end. Clamp the body/lid assembly to a fence on the drill-press table for accurate drilling, as shown in *Photo D*. Unclamp the assembly.

4 Glue the bottom to the body. Double-check your alignment marks before gluing for the best grain match.

5 Finish-sand the top and inside of the body, the underside of the lid, and the hinge arms. Clamp the lid to the body again, with the shim in place, and drive in the hinge pins. File the pin ends flush with the body. Unclamp, and remove the shim.

6 Sand the sides and ends flush, and finish-sand all exterior surfaces. (We sanded with progressively finer grits, ending with 320.) Break the sharp edges slightly by block-sanding.

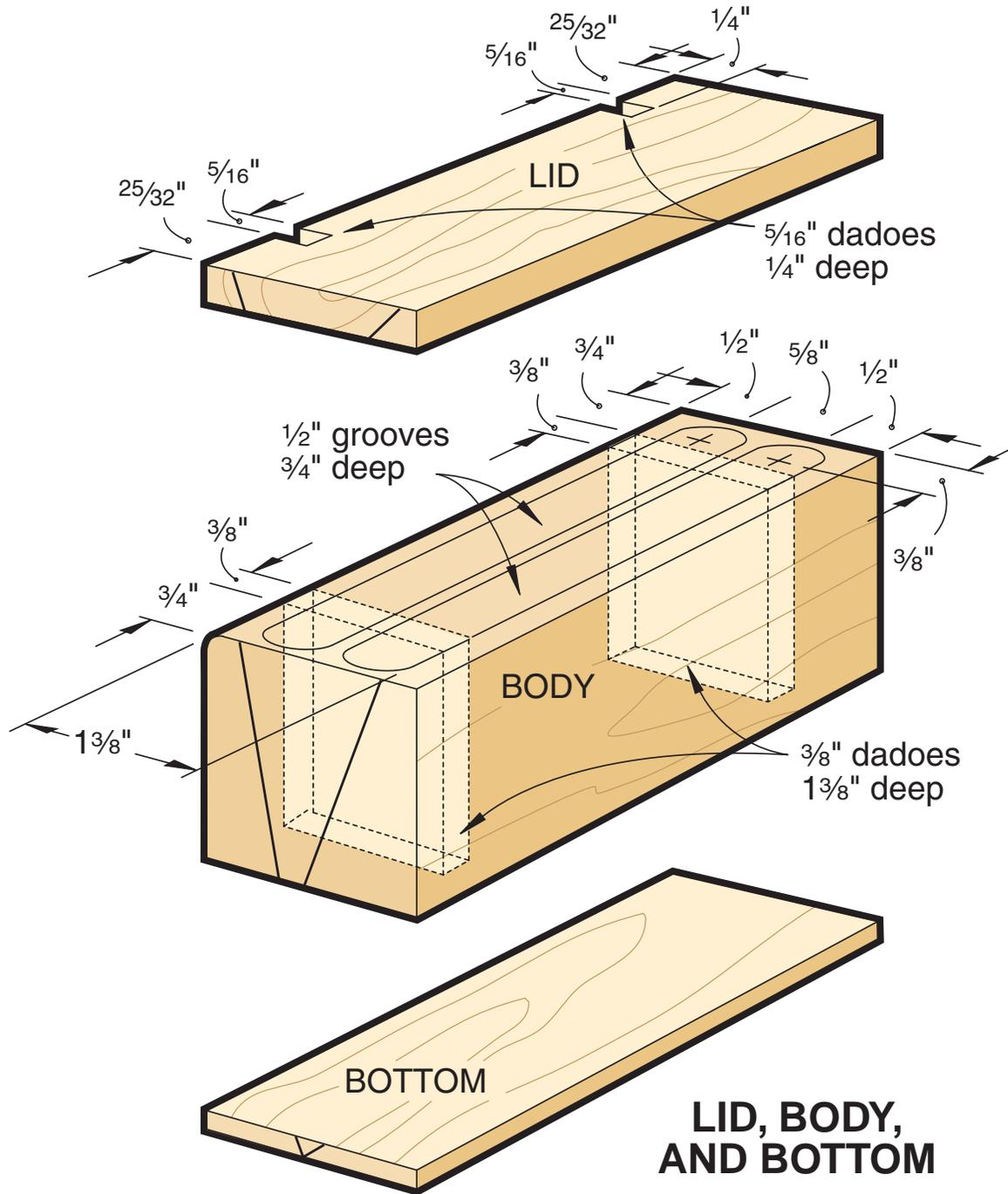
7 Apply a clear oil finish overall. (We finished the box shown with Deftoil Danish oil finish, clear natural.) ♣

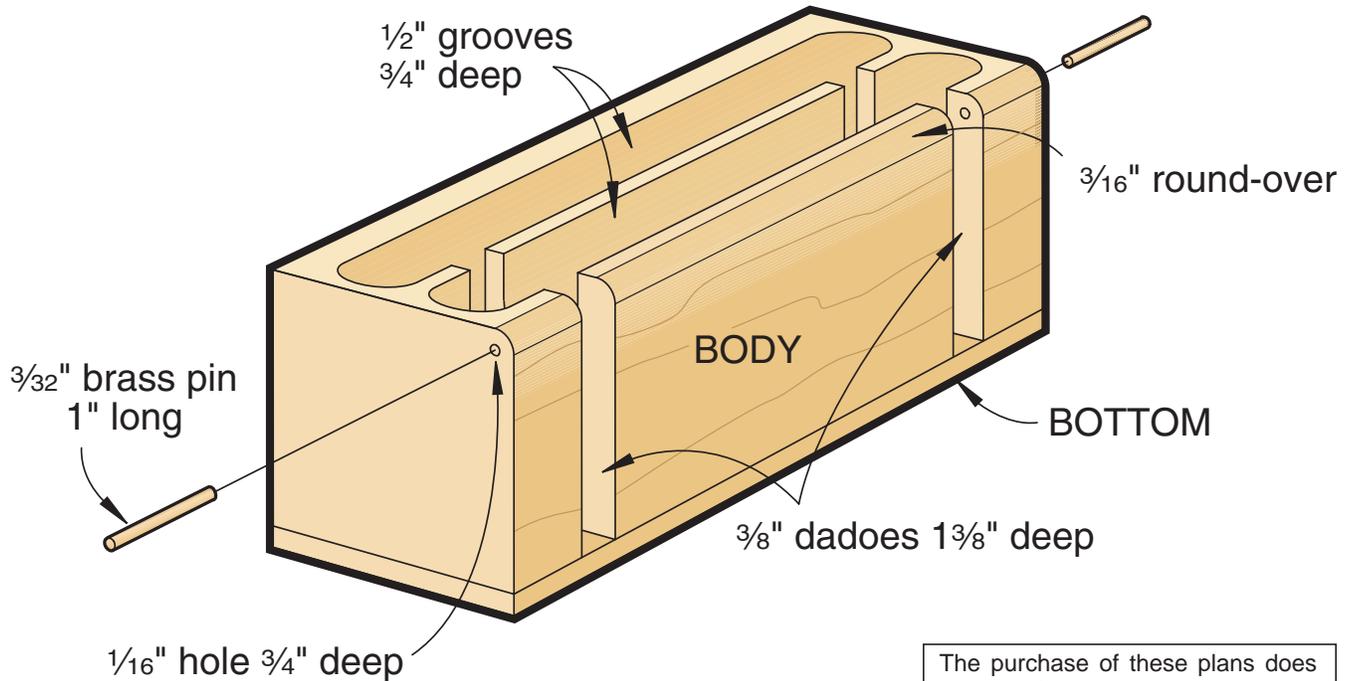
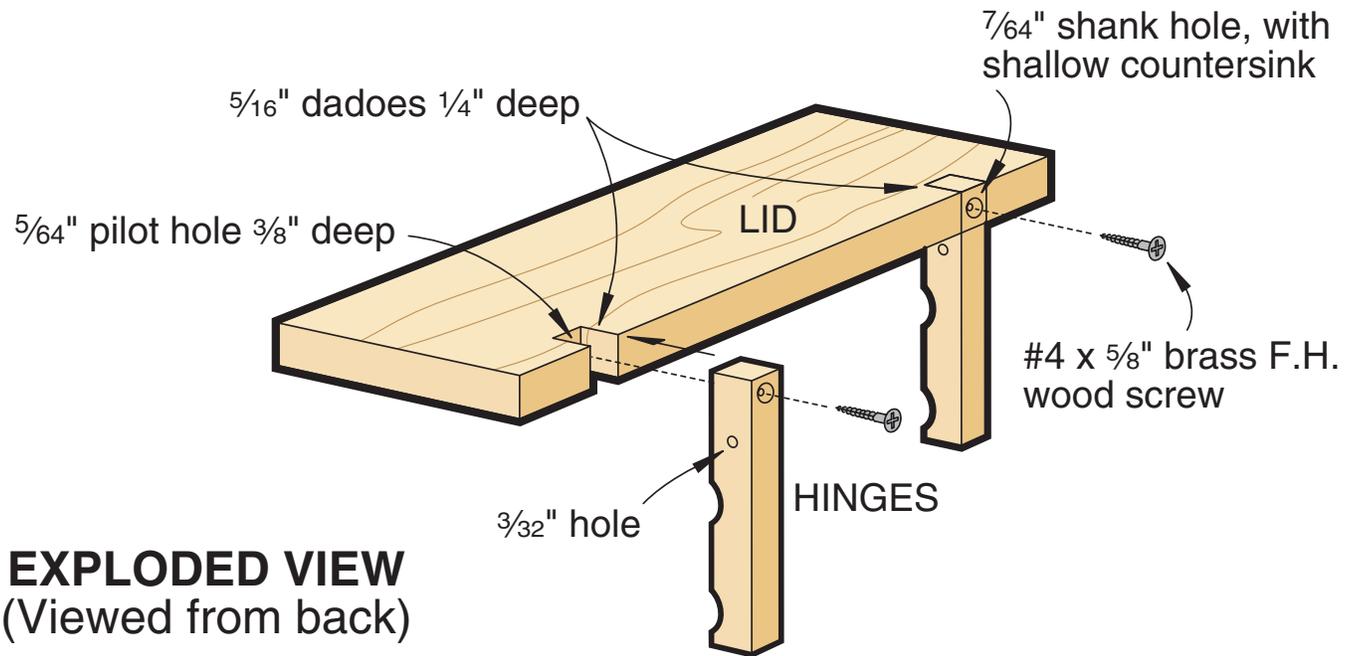
Produced by Marlen Kemmet
Project Design: Elliott Landers
Illustrations: Roxanne LeMoine; Lorna Johnson
Graphic Design: Jamie Downing
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D

Insert a cardboard spacer between the body and lid when drilling hinge holes.

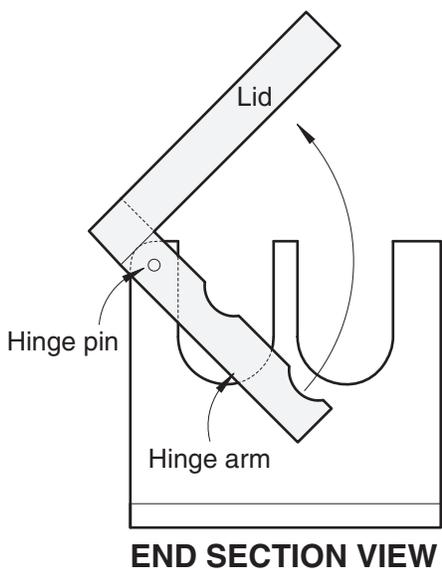
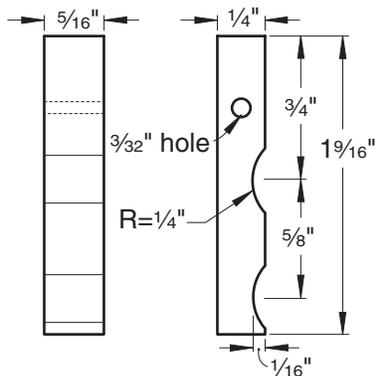




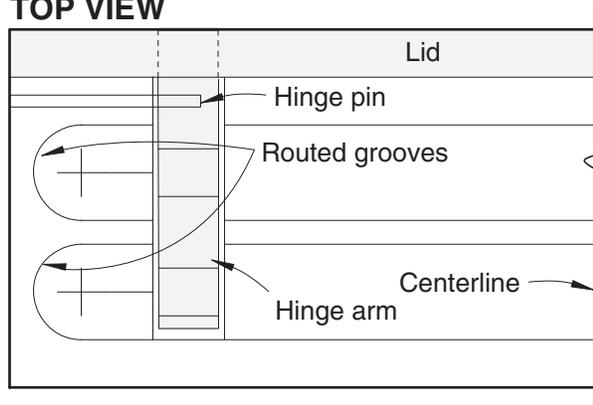


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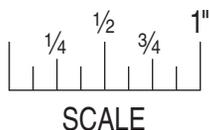
**HINGE ARM
FULL-SIZE PATTERN
(2 needed)**



TOP VIEW



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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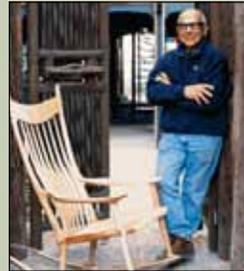
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