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Bill Krier  
Editor  
WOOD® magazine

### **Adobe Acrobat Troubleshooting Guide**

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#### **My printer won't print the text correctly**

Almost all printing problems are due to not enough free system resources memory. The files are very memory intensive since they include graphics, text, and photos. Close all other programs/applications and print directly out of the Acrobat Reader program, not your Web-browser.

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# holds cards, will travel business card case



Add the wow factor to handing out your business cards with a classy case that says, "I take my woodworking seriously."



It stores neatly away ...



... and holds up to 10 cards.



Shown in cherry and maple, top, and lacewood and wenge, bottom, these card cases are closed up and ready to hit the road.

**T**hanks to its simple pinned hinge, this case props itself open for displaying cards on a desktop, and also folds shut into a slim tote for traveling in a suit-coat pocket. Completed, it measures just  $\frac{3}{8} \times 2\frac{3}{4} \times 4\frac{1}{4}$ " and holds about 10 cards. We'll show you how to make the wenge and lacewood card case, but you can use any combination of contrasting wood species, or even a single species.

**Note:** For the safe cutting of the small parts in this project, install a zero-clearance insert in your tablesaw. The sidebar, right, shows methods for cutting small pieces that you can adapt to any project.

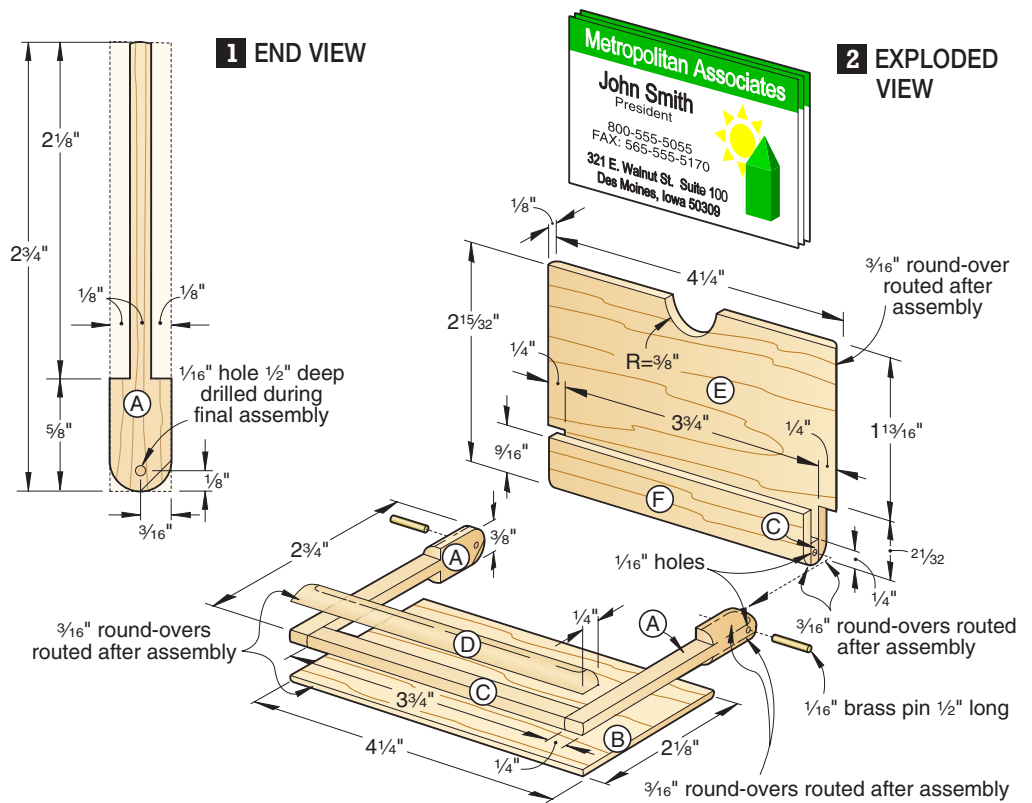
## Cut the parts, and assemble the case halves

**1** To make the sides (A), rip a  $\frac{7}{16}$ "-wide  $\frac{1}{4}$ "-long strip from the edge of a  $\frac{3}{4}$ "-thick piece of wenge. Then cut a  $\frac{3}{4} \times 2\frac{3}{4} \times 16$ " piece of scrap for a carrier board. Now plane both the wenge and carrier board to  $\frac{3}{8}$ " thick. Set the carrier board aside, and from the resulting  $\frac{3}{8} \times \frac{3}{4} \times 14$ " piece of wenge, rip a  $\frac{1}{4}$ "-wide strip, as shown in **Photo A**. From this  $\frac{1}{4} \times \frac{3}{8} \times 14$ " strip, cut the sides to the size listed on the **Materials List**. Set aside the remaining piece of wenge for the fillers (C).

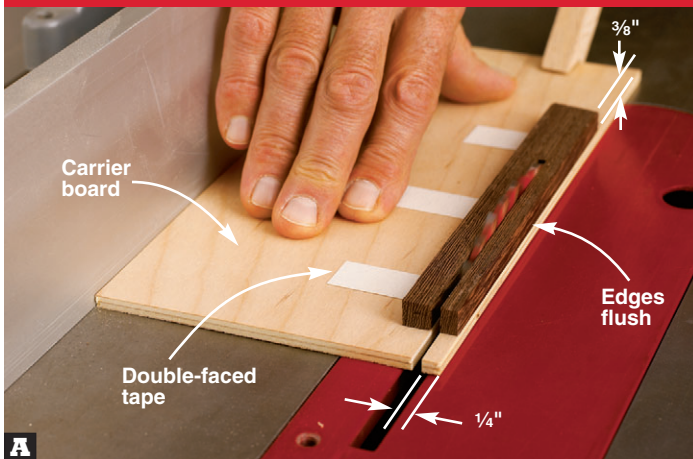
**2** Retrieve the  $\frac{3}{8}$ "-thick carrier board, and adhere the sides (A) to its ends, as

shown in **Photo B**. Raise the  $\frac{1}{8}$ "-kerf blade in your tablesaw to  $2\frac{1}{8}$ ". Then attach an auxiliary fence to the rip fence, and position it so the blade just grazes its surface. Begin forming the  $\frac{1}{8}$ "-deep  $2\frac{1}{8}$ "-long recesses shown on **Drawing 1** by making the two cuts shown in **Photo C** in the sidebar, below. Now reposition the fence so the left face of the blade is flush with the left face of the scrap, and make two more cuts. Remove the sides from the scrap.

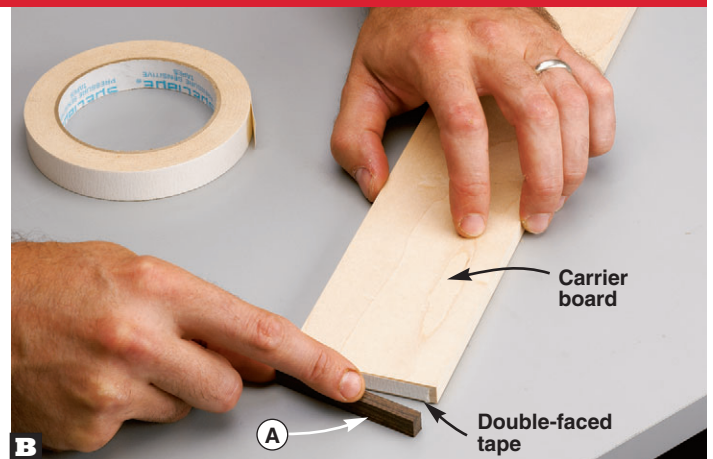
**3** From a  $\frac{3}{4}\times 3\frac{1}{4}\times 10$ " piece of lacewood, resaw and plane a piece to  $\frac{1}{8}$ " thick. From this  $\frac{1}{8}\times 3\frac{1}{4}\times 10$ " piece, crosscut two  $4\frac{1}{4}$ "-long blanks. From one blank, rip a  $\frac{3}{16}$ "-wide strip for the tray lip (F), as shown in **Photo D**. Then rip the remaining piece to  $2\frac{1}{8}$ " wide for the cover (B). From the other blank, rip a  $\frac{1}{4}$ "-wide strip for the tray filler (D). Then rip the remain-



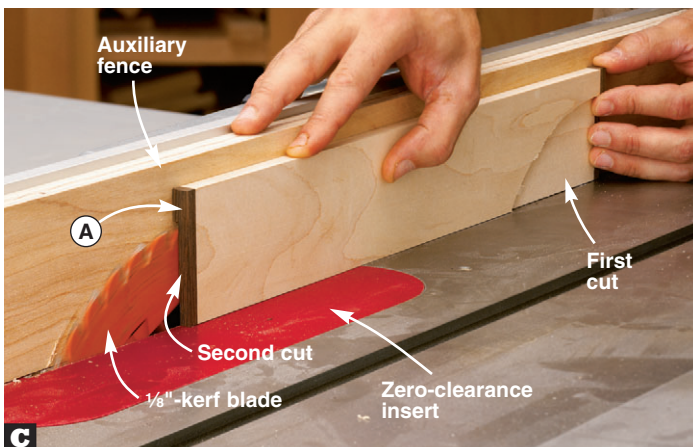
### CARRIER BOARDS AND DOUBLE-FACED TAPE = SAFE CUTS WITH SMALL PARTS



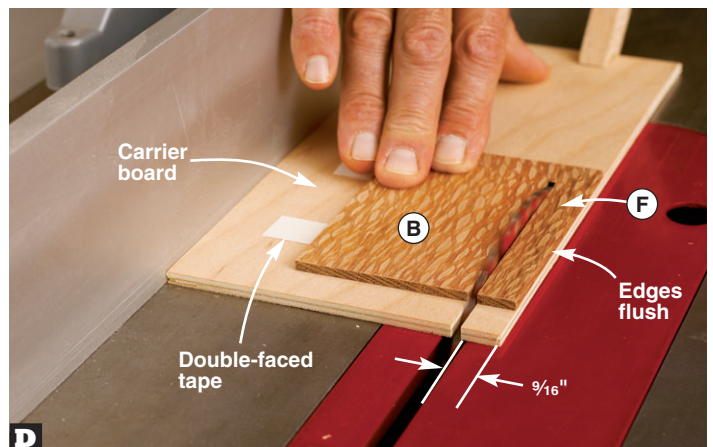
Adhere the  $\frac{3}{8}\times\frac{3}{4}$ " wenge strip to a  $\frac{1}{4}$ " plywood carrier board with double-faced tape, keeping the edges flush. Rip off a  $\frac{1}{4}$ "-wide strip.



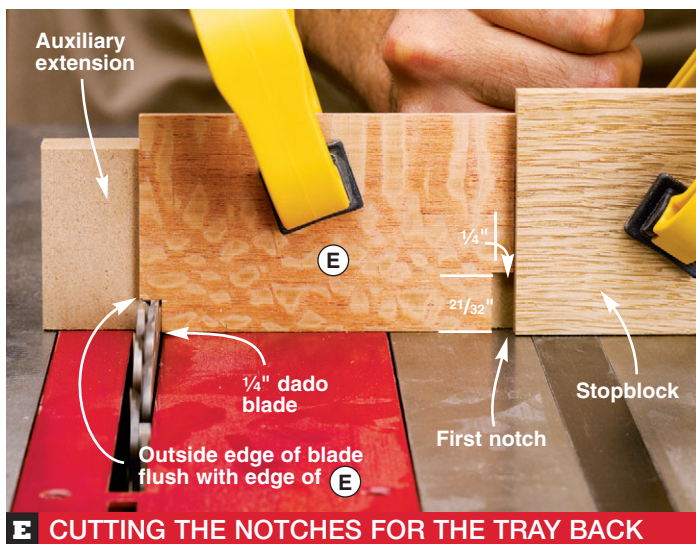
Use double-faced tape to adhere the sides (A) to the ends of a carrier board. Make sure the parts and carrier are flush all around.



Feed the carrier board with the sides (A) into the blade just past its center. Then pull the carrier back, and repeat at the other end.



Adhere the blank for parts B and F to a  $\frac{1}{4}$ " plywood carrier board, keeping their edges flush. Rip off a  $\frac{9}{16}$ "-wide strip for part F.



**E CUTTING THE NOTCHES FOR THE TRAY BACK**

Clamp a stopblock to your miter-gauge auxiliary extension to position the end of the tray back (E) flush with the outside edge of the  $\frac{1}{4}$ " dado blade. Cut the  $\frac{2\frac{1}{32}}$ "-deep notches.



**F DRILLING THE HINGE PIN HOLES**

Holding the case in a handscrew clamp to keep it perpendicular to the drill-press table, drill  $\frac{1}{16}$ " holes  $\frac{1}{2}$ " deep through the ends of the sides (A) and into the filler (C).

ing piece to  $2\frac{15}{32}$ " wide for the tray back (E). Now retrieve the  $\frac{1}{4} \times \frac{3}{8}$ " piece of wenge, and plane the  $\frac{3}{8}$ " dimension down to  $\frac{1}{8}$ ", leaving a  $\frac{1}{8} \times \frac{1}{4}$ " piece. From this, cut the fillers (C) to size.

**4** Glue and clamp the sides (A) and one filler (C) to the cover (B), where shown on **Drawing 2**. To keep the sides parallel, temporarily insert the other filler (C) between the sides at their pivoting ends. With the glue dry, glue and clamp the tray filler (D) in place, where shown.

**5** To notch the tray back (E), install a  $\frac{1}{4}$ " dado blade in your tablesaw, and attach an auxiliary extension to the miter gauge, positioning it so the dado blade will cut through it. Raise the blade to  $2\frac{1}{32}$ ", and cut the notches, as shown in **Photo E**.

**6** Mark a  $\frac{3}{8}$ "-radius finger pull centered on the edge of the tray back (E), where shown on **Drawing 2**. Scrollsaw and sand it to shape.

**7** Retrieve the piece of lacewood previously cut for the tray lip (F), and cut it to finished length, trimming an equal amount off each end. Now glue and clamp the second filler (C) and the tray lip to the tray back (E), where shown on **Drawing 2**.

**8** Mark the centers of the  $\frac{1}{16}$ " holes on the sides (A) with an awl, where shown on **Drawing 1**. Assemble the case halves and clamp them together, making sure the ends of the sides are flush with the edges of the filler (C), tray back (E), and tray lip (F). Drill the holes, as shown in **Photo F**. Remove the clamps.

## Fine-tune and finish

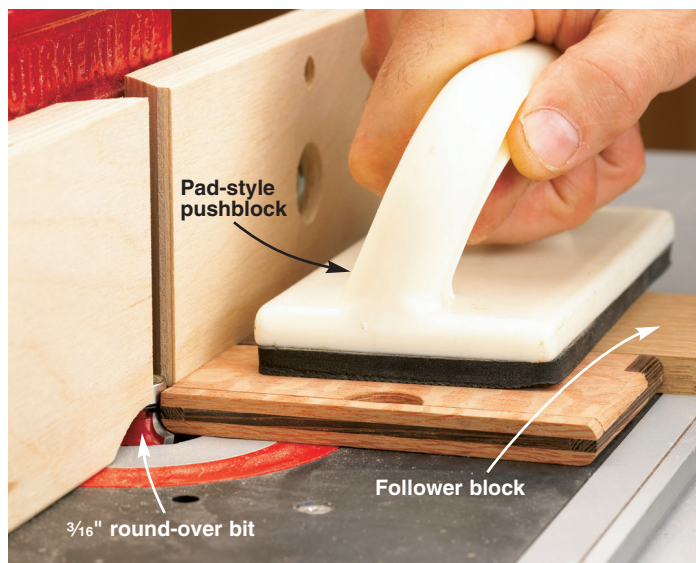
**1** Cut two  $\frac{5}{8}$ "-long hinge pins from  $\frac{1}{16}$ " brass rod, and press them into the holes, leaving  $\frac{1}{8}$ " protruding. (We found brass rod

at local hardware stores and hobby shops.) Carefully try to open the case, checking the clearance between the cover (B) and tray lip (F), tray filler (D) and tray back (E), and where the tray back notches around the sides (A). If the parts bind at any of these locations, remove the hinge pins, and carefully bevel the edges with a file. To keep from widening the gaps you see between parts when the case is closed, form the bevels only on the parts' inside edges.

**2** Reinsert the brass hinge pins, check the clearances, and make any necessary adjustments. When satisfied with the fit, withdraw the hinge pins, dip their ends in quick-setting epoxy, and push them into the holes. After the epoxy cures, clip the protruding hinge pins with wire cutters, and file them flush.

**3** Chuck a  $\frac{3}{16}$ " round-over bit in your table-mounted router, and rout the case ends and edges, as shown in **Photo G**.

**4** Finish-sand the outside of the case, and apply a clear finish. (We used three coats of Danish oil, buffing with an ultra-fine Scotch-Brite pad after the first two coats.) Now load your case with business cards, and head off to your next meeting. ♣



**G ROUTING THE CASE ENDS AND EDGES**

Positioning the fence flush with the bit's pilot bearing, first rout the case ends, then the front and back edges. For safety, use a pad-style pushblock. To eliminate chipping, use a follower block.

Written by **Jan Svec**  
Project design: **Kevin Boyle**  
Illustrations: **Roxanne LeMoine**

## Materials List

Part	FINISHED SIZE			Matl.	Qty.
	T	W	L		
A* sides	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$2\frac{3}{4}$ "	W	2
B* cover	$\frac{1}{8}$ "	$2\frac{1}{8}$ "	$4\frac{1}{4}$ "	L	1
C* fillers	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$3\frac{3}{4}$ "	W	2
D* tray filler	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$4\frac{1}{4}$ "	L	1
E* tray back	$\frac{1}{8}$ "	$2\frac{15}{32}$ "	$4\frac{1}{4}$ "	L	1
F* tray lip	$\frac{1}{8}$ "	$\frac{9}{16}$ "	$3\frac{3}{4}$ "	L	1

\*Parts initially cut oversize. See the instructions.

**Materials key:** W—wenge, L—lacewood.

**Supplies:**  $\frac{1}{16}$ "-diameter brass rod, double-faced tape, quick-setting epoxy.

**Blades and bits:** Stack dado set;  $\frac{3}{16}$ " round-over router bit.

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