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Bill Krier
Editor in Chief, WOOD magazine

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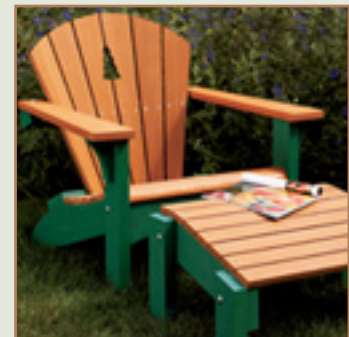
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ready-to-serve wine cabinet

Keep your favorite wines, stemware, and serving accessories handy in this stylish unit.



Don't let the sophisticated look of this project fool you. With straightforward case and drawer construction, a full-size pattern for forming the feet, and easy-to-shape wineglass holders, you'll complete it in a jiffy and have plenty of reasons to toast your success.

Start with the case

1 From $\frac{3}{4}$ " cherry plywood, cut the sides (A), sub-top and shelf (B), and bottom (C) to the sizes listed in the **Materials List**.

2 Cut a $\frac{3}{4}$ " dado and rabbet $\frac{3}{8}$ " deep across the *inside* face of each side (A), where dimensioned on **Drawing 1**, to fit the sub-top and shelf (B). Then, on the same face of each side, cut a $\frac{1}{4}$ " rabbet $\frac{3}{8}$ " deep along the *back* edge to house the plywood back (I).

3 From $\frac{3}{4}$ "-thick cherry, cut the stiles (D) to size. Then rout $\frac{1}{4}$ " chamfers, stopped 2" from the ends, along both edges on the *front* faces of the stiles, where shown. For an easy way to do this without tear-out, see the **Shop Tip**, below.

4 Glue and clamp the stiles (D) to the sides (A), where shown on **Drawing 1**, flush with the ends and *outside* faces of the sides. After the glue dries, sand the assemblies to 220 grit.

5 In the sub-top (B), drill a pair of countersunk mounting holes in the *bottom* face and a pair of $\frac{5}{32}$ " expansion slots $\frac{3}{8}$ " long for attaching the top (G) later, where dimensioned on **Drawing 2**. Drill overlapping holes to form the slots.

6 From $\frac{3}{4}$ "-thick cherry planed to match the thickness of the plywood bottom (C), miter-cut the bottom front trim (E) and side trim (F) to the sizes listed. Glue

and clamp the trim to the bottom, noting that the nonmitered back ends of the side trim overhang the bottom $\frac{1}{4}$ ". After the glue dries, rout a $\frac{3}{8}$ " round-over along the top and bottom edges of the trim. Sand the assembly smooth.

7 From $\frac{3}{4}$ "-thick edge-joined cherry, cut the top (G) to size. Then rout $\frac{3}{8}$ " round-overs along the top and bottom edges on the ends and front to create a bullnose profile. Sand the top smooth.

Now glue the case together

1 Dry-assemble the sides/stiles (A/D) and sub-top and shelf (B), and verify that the parts fit together correctly. Make any needed adjustments. Then glue and clamp the parts together, as shown in **Photo A**.

2 Measure between the stiles (D) for the exact length of the sub-top and shelf trim (H), where shown on **Drawings 1** and **2**. Then, from $\frac{3}{4}$ "-thick cherry resawn or planed to $\frac{1}{4}$ " and ripped to match the thickness of the $\frac{3}{4}$ " plywood sub-top and shelf (B), crosscut the trim to the measured length. Cut an extra piece from $\frac{3}{4}$ " scrap to the same length for use as a spacer to complete the case assembly. Glue and clamp the trim in place, flush with the top and bottom faces of the sub-top and shelf. Sand smooth.

3 Position the case with the back down. Using the spacer to maintain the correct distance between the stiles (D) at the bottom, clamp (do not glue) the bottom/trim assembly (C/E/F) and spacer to the case, as shown in **Photo B**. Then drill mounting holes through the bottom (C) and centered into the sides (A), where shown on **Drawing 1**. Drive the #8x2" flathead wood screws.

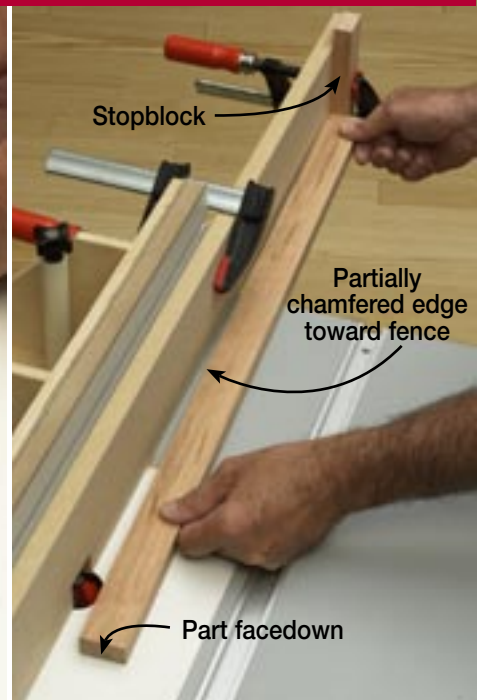
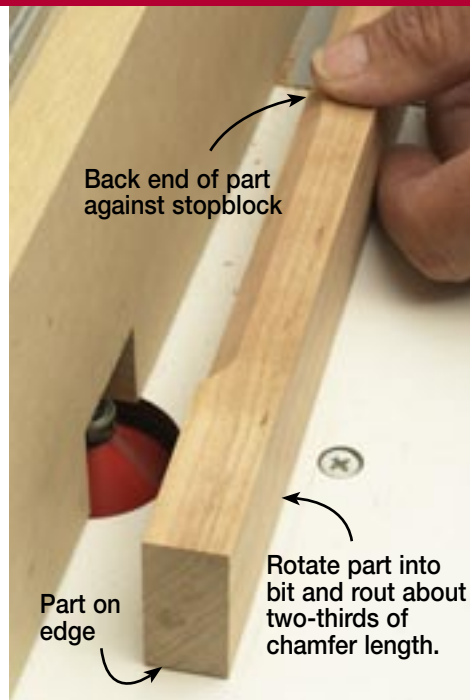
4 To mount the top (G), position it with the *bottom* faceup on your workbench. Then place the case, with the sub-top (B) down, on the top, centered side-to-side and flush at the back. Mark the centers of the mounting holes and slots in the sub-top on the top, as shown in **Photo C**. Remove the case, and drill pilot holes into the top at the marked centerpoints. Reposition the case. Now, using a short screwdriver, fasten the top with #8x1 $\frac{1}{4}$ " flathead wood screws and #8x1 $\frac{1}{4}$ " panhead screws with #10 flat washers, where shown on **Drawing 1**.

5 From $\frac{1}{4}$ " cherry plywood, cut the back (I) to size to fit the rabbeted opening in the case. Position the back in the case, tight against the top (G). Drill mounting holes through the back and into the case, where shown. Then remove the back, sand it smooth, and set it aside.

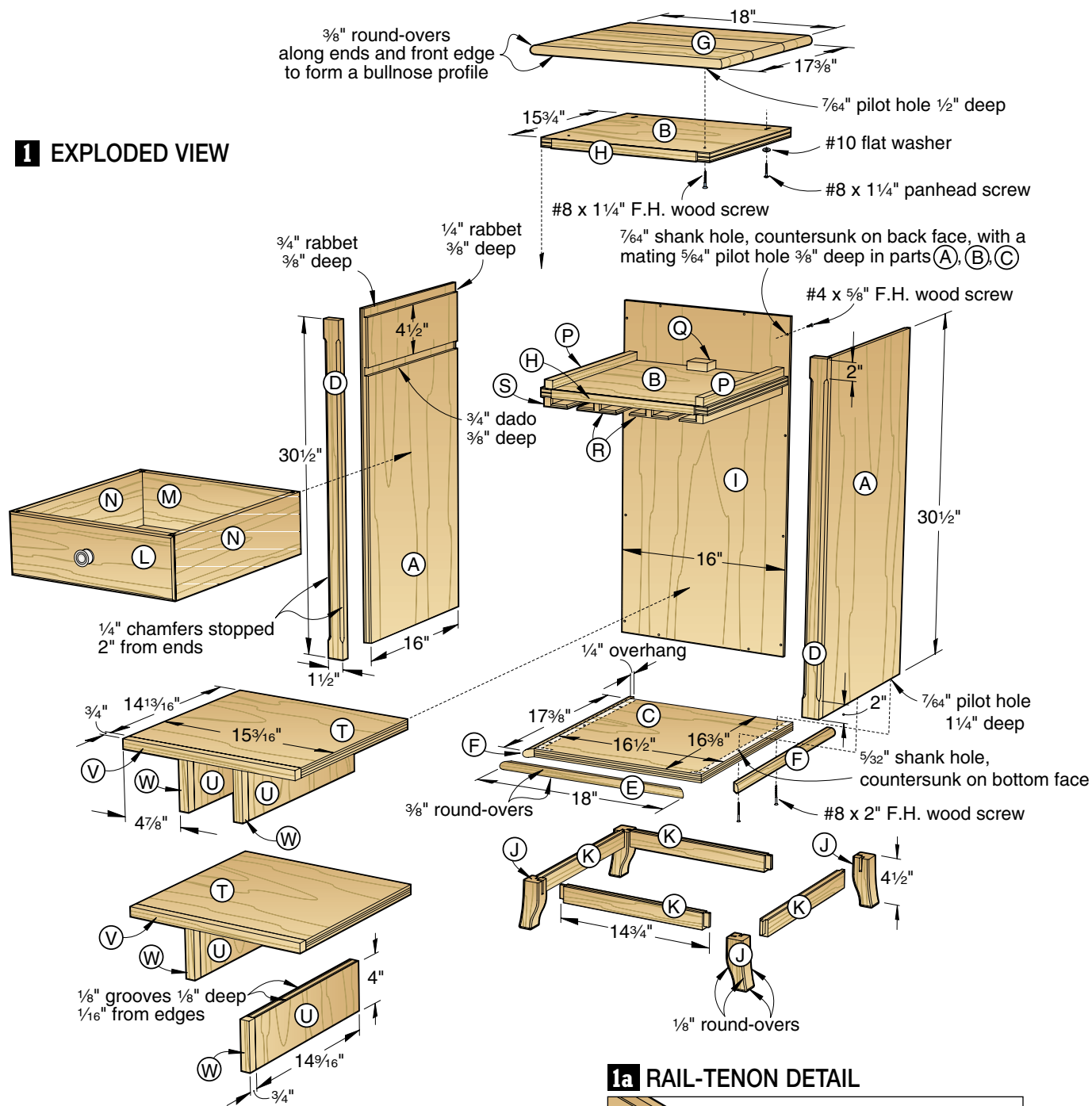
SHOP TIP

Don't get burned routing stopped chamfers

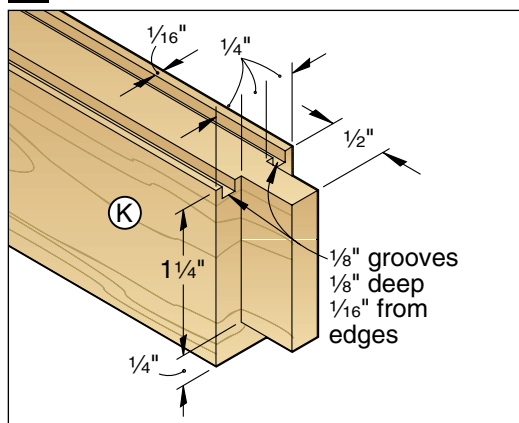
Ever experienced tear-out or burning when routing a stopped chamfer? Tear-out can happen if you rout the entire chamfer in one pass. Burning occurs if the spinning bit lingers in one spot, so you need to quickly pull the part away from the bit at the end of the chamfer. Here's an easy way to avoid these problems. With the part on *edge* and against a stopblock, rotate the part into the bit, as shown at *right*. Without hesitating, rout about two-thirds the length of the chamfer. Then flip the part end-for-end and reposition it against the stopblock with the face down and partially chamfered edge toward the fence, as shown at *far right*. Rout again, stopping when you pass the previously chamfered area.



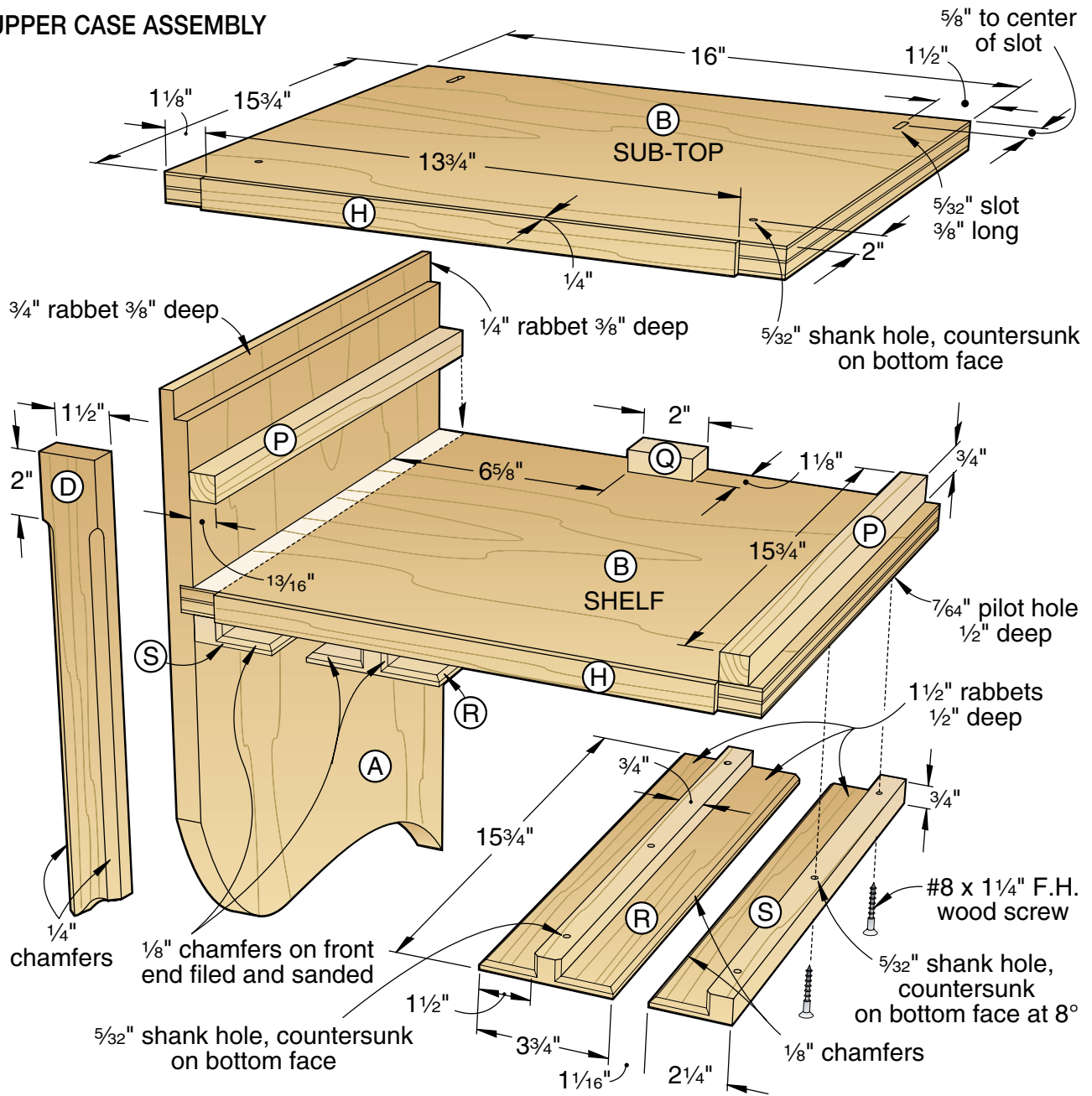
1 EXPLODED VIEW



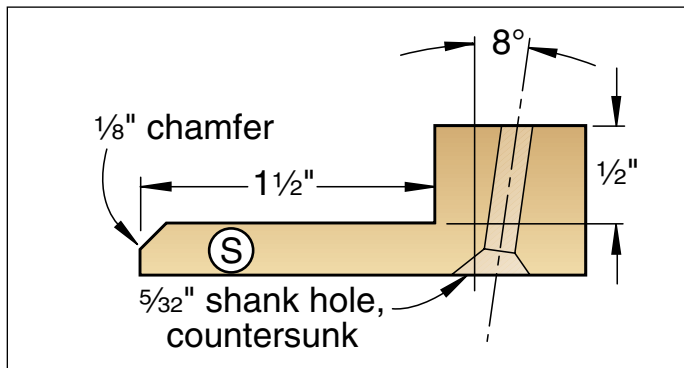
1a RAIL-TENON DETAIL



2 UPPER CASE ASSEMBLY



2a OUTER HOLDER SECTION VIEW DETAIL



Move down to the base

1 From laminated $\frac{3}{4}$ "-thick cherry (or $1\frac{1}{2}$ "-thick stock), cut two $2\times 9\frac{1}{2}$ " blanks to form the feet (J). You'll get two feet from each blank.

2 Make two copies of the full-size foot pattern from the *WOOD Patterns*® insert. Spray-adhere a pattern to each blank, folding the pattern where shown. Using a $\frac{1}{4}$ " brad-point bit in your drill press, drill $1\frac{1}{4}$ " mortises $\frac{5}{16}$ " deep in the face and edge of each blank, where shown on the pattern and as shown in **Photo D**. Then, using sharp chisels, square the ends and sides of the mortises.

3 Bandsaw and drum-sand each blank to the pattern lines, but do not separate the feet. Using a $\frac{1}{8}$ " round-over bit in your table-mounted router, round over the edges and ends of the blanks on both faces, where shown on the pattern and **Drawing 1**. Sand the routed edges smooth.

4 Using an extension on your tablesaw miter gauge for support, and a stopblock to ensure identical lengths, crosscut two $4\frac{1}{2}$ "-long feet from each blank, where shown on the pattern.

5 Cut the rails (K) to size. Using a dado blade in your tablesaw, form a $\frac{1}{4}$ " tenon $\frac{1}{2}$ " long at each end of the rails,

where shown on **Drawings 1** and **1a**, to fit snugly into the foot mortises. (We made test-cuts in cutoffs to verify our setup before cutting the rail tenons.) After cutting the tenon cheeks, set the rails on the bottom edges and cut the ends again to trim the $1\frac{1}{2}$ "-wide tenons to $1\frac{1}{4}$ ".

6 Refit your tablesaw with a standard $\frac{1}{8}$ "-kerf blade. Then cut a pair of $\frac{1}{8}$ "-deep grooves $\frac{1}{16}$ " from each face of the rails along the *top* edges, where dimensioned on **Drawing 1a**. The grooves capture glue squeeze-out when mounting the base to the case. Sand the rails smooth.

7 Dry-assemble the feet (J) and rails (K), and verify that the parts fit together correctly. Then glue and clamp the base together, as shown in **Photo E**.

8 Place the case on the floor with the bottom up. Apply glue to the area on the rails (K) between the $\frac{1}{8}$ " grooves. Now position and clamp the base (J/K) to the bottom of the case, as shown in **Photo F**.

Now head up to the drawer

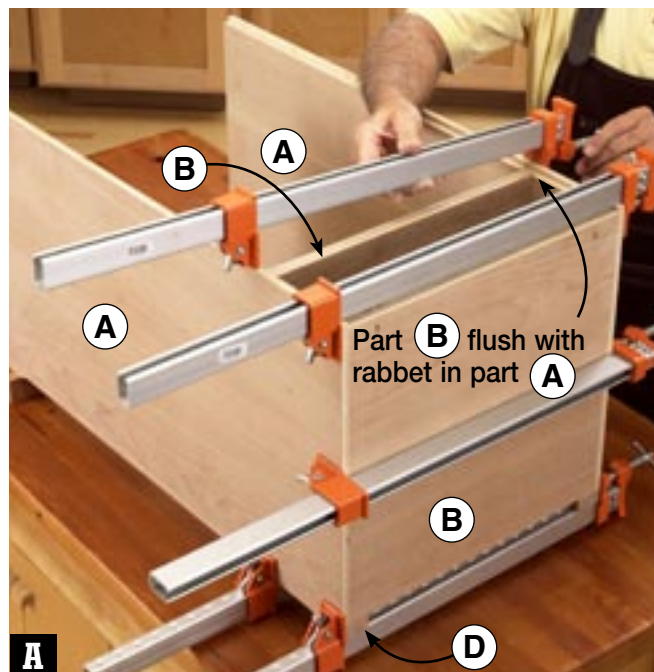
1 From $\frac{3}{4}$ "-thick cherry, cut the drawer front (L) to size. Then, from $\frac{3}{4}$ " stock planed to $\frac{1}{2}$ ", cut the back (M) and sides (N) to size.

2 Fit your tablesaw with a $\frac{1}{4}$ " dado blade. Then, referring to **Drawings 3** and **3a** and the four-step **Drawing 4**, machine the grooves, rabbets, and dados in the drawer parts. When cutting the $\frac{1}{4}$ "-deep grooves $\frac{1}{4}$ " from the bottom edges in the front (L) and sides (N) to receive the $\frac{1}{4}$ " plywood bottom (O), switch to a standard $\frac{1}{8}$ "-kerf blade and cut the grooves to width in two passes to snugly fit your plywood.

3 Using a 45° chamfer bit in your table-mounted router, rout a $\frac{1}{8}$ " chamfer across the ends and along the edges of the drawer front (L) on the *front* face, where shown on **Drawing 3**. Then drill an $\frac{1}{16}$ " hole, centered, through the front for screw-mounting a $1\frac{1}{4}$ " knob later.

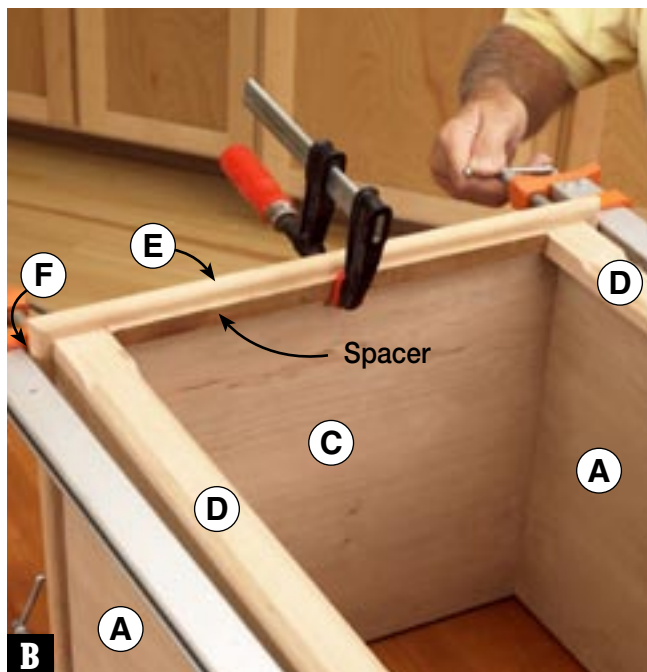
4 From $\frac{1}{4}$ " cherry plywood, cut the bottom (O) to size. Sand all of the drawer parts smooth. Then glue and clamp the front (L), back (M), and sides (N) together, keeping the top edges of the back and sides flush. Check for square. Now slide the bottom (do not glue) in place, and secure it to the back with #18 $\times\frac{3}{4}$ " brads.

5 From $\frac{3}{4}$ "-thick cherry, cut the drawer cleats (P) and stop (Q) to the sizes listed. Position the cleats (without



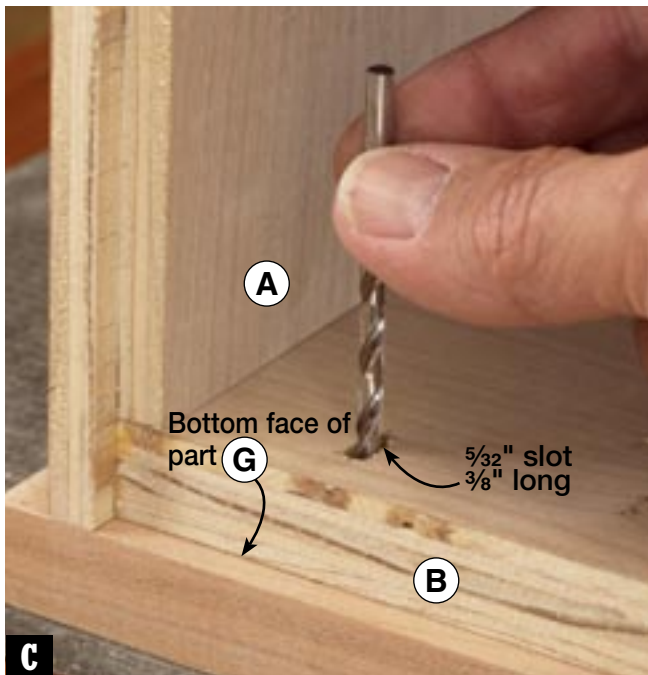
ASSEMBLE THE CASE

Glue and clamp the case together, ensuring that the sub-top and shelf (B) are flush with the rabbeted back edges of the sides (A).



MOUNT THE BOTTOM

Clamp the bottom/trim assembly (C/E/F), centered side-to-side, to the case, with the spacer tight between the stiles (D).



C

MARK TOP MOUNTING HOLES

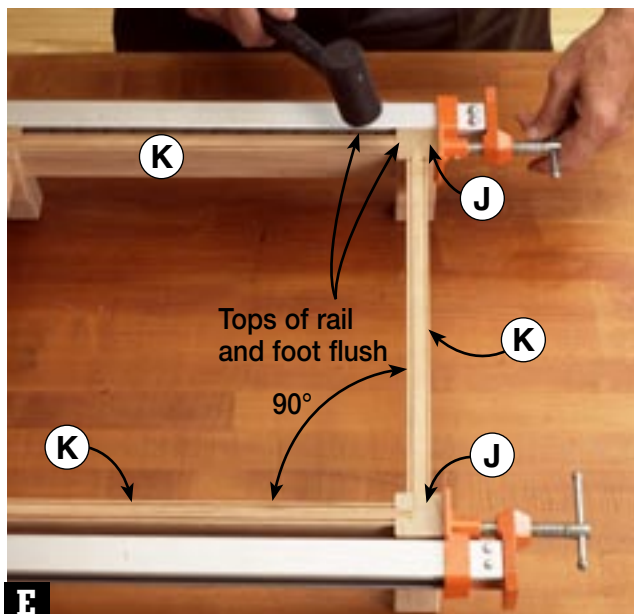
Using a $\frac{5}{32}$ " brad-point bit, mark the centers of the mounting holes and slots in the sub-top (B) on the *bottom* face of the top (G).



D

DRILL THE FOOT MORTISES

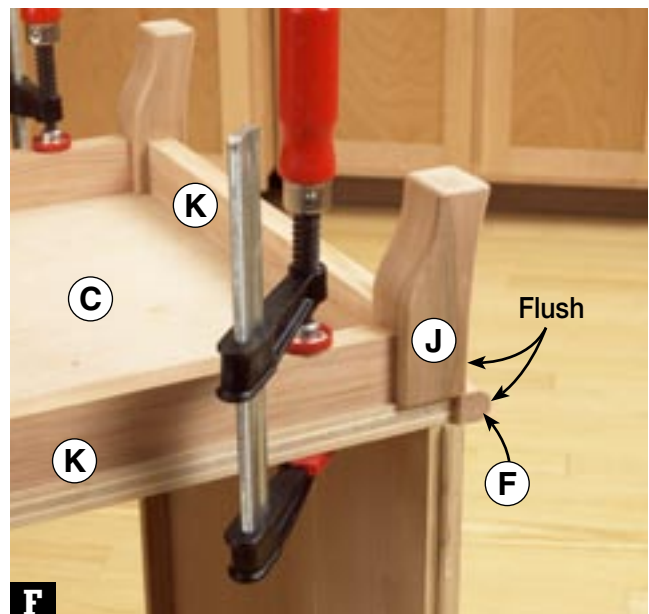
Drill overlapping holes to form $1\frac{1}{4}$ " mortises $\frac{9}{16}$ " deep in the face and edge of the foot blank, where shown on the pattern.



E

GLUE THE BASE TOGETHER

Glue and clamp the feet (J) and rails (K) together, keeping the top surfaces flush. Measure the diagonals to verify square.

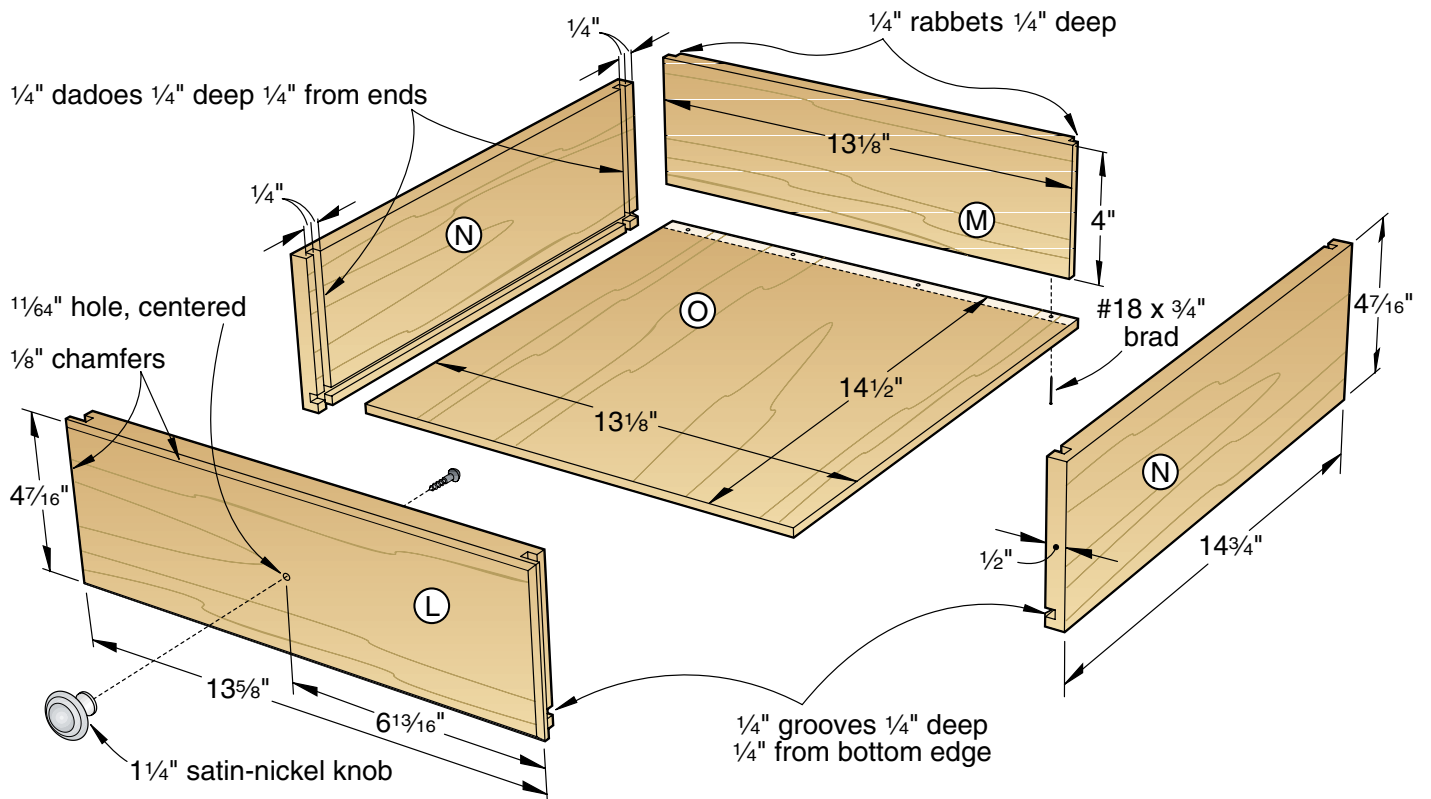


F

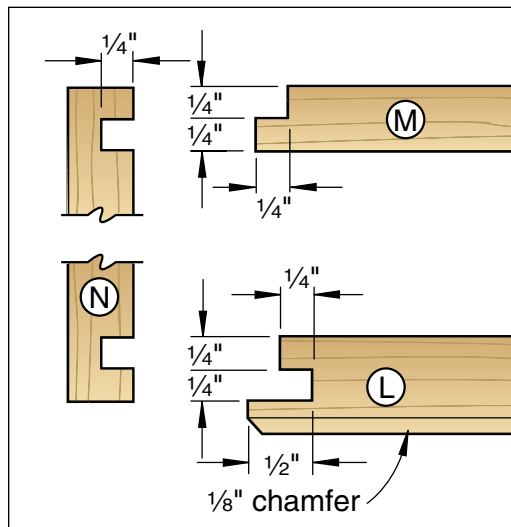
ADD THE BASE TO THE CASE

Glue and clamp the base (J/K) to the case bottom (C/E/F), with the base centered side-to-side, and the feet (J) flush with the back.

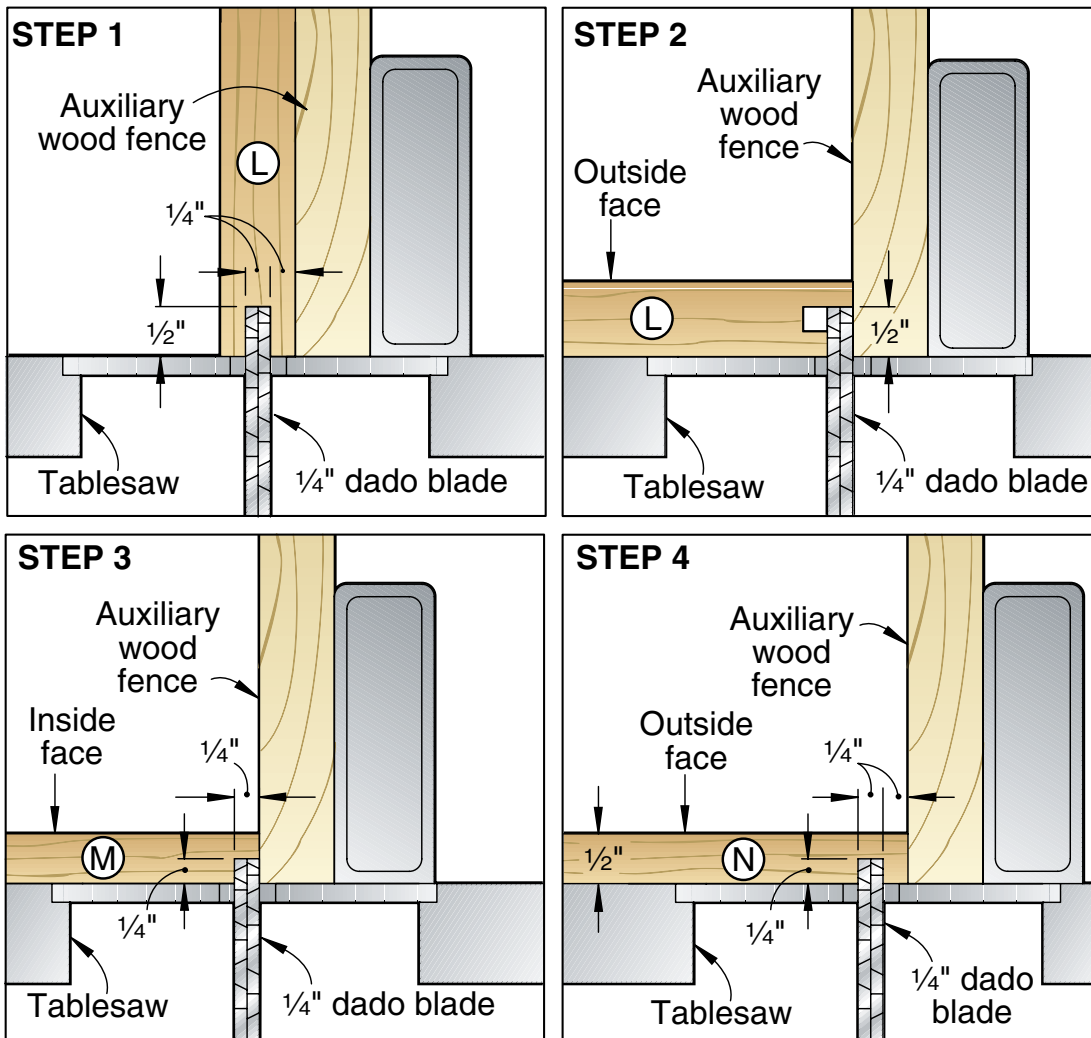
3 DRAWER



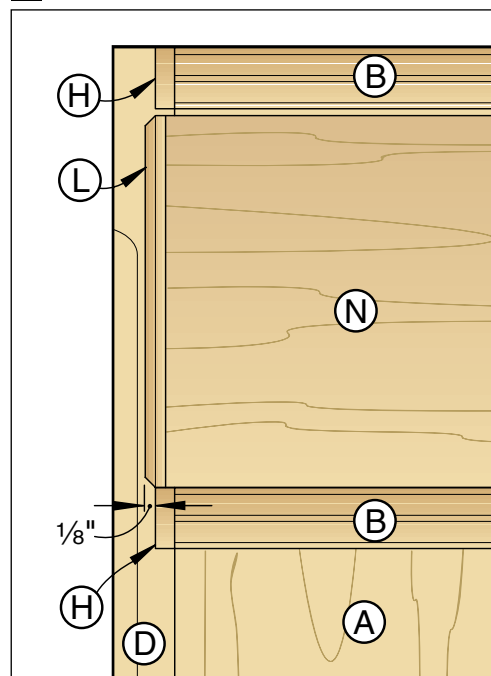
3a DRAWER-JOINT DETAIL



4 MACHINING THE DRAWER PARTS



5 CASE SIDE SECTION VIEW



glue) in the case, tight against the sides (A) and stiles (D). Slide the drawer into place, and verify that it moves smoothly. If tight, remove the drawer, and plane or sand the cleats as needed to achieve the desired fit. Then glue and clamp the cleats into position.

6 Dry-clamp the stop (Q) to the shelf (B), centered side-to-side and flush at the back. Slide the drawer into the case until it contacts the stop. Verify that the front (L) overhangs the shelf trim (H) $\frac{1}{8}$ ", where shown on **Drawing 5**. If the overhang is greater than $\frac{1}{8}$ ", trim the stop width, as needed. If the overhang is less than $\frac{1}{8}$ ", position the drawer with a $\frac{1}{8}$ " overhang, and glue and clamp the block to the shelf, tight against the drawer back (M). Remove the drawer.

Add the wineglass holders

1 From $\frac{3}{4}$ "-thick cherry, cut the wineglass inner and outer holders (R, S) to the sizes listed. Using a standard blade in your tablesaw, cut $1\frac{1}{2}$ " rabbets $\frac{1}{2}$ " deep in the holders, where shown on **Drawing 2**, making two cuts to form each rabbet. Then bevel-rip a $\frac{1}{8}$ " chamfer along the *edges* (not *ends*) of the holders, where shown. For help with cutting the rabbets and chamfers, see the sidebar, "Shape the wineglass holders in 4 quick steps," on page 10.

2 Using a wood or cabinet file, form a $\frac{1}{8}$ " chamfer on the front ends of the inner and outer holders (R, S), where shown on **Drawing 2**.

3 Drill countersunk mounting holes in the bottom faces of the holders (R, S), angling the holes in the outer holders (S) at 8° , where shown on **Drawing 2a**. Sand the holders.

4 To mount the holders (R, S) in the case, position the case with the top (G) down and supported on 4x4 spacers for clamp clearance, as shown in **Photo G**. From $\frac{3}{4}$ " scrap, cut a $1\frac{1}{16}\times 12$ " piece. Then crosscut six $1\frac{3}{4}$ "-long pieces for spacers. Position the holders (*without* glue) on the shelf (B), flush at the back edge, with the $1\frac{1}{16}$ "-wide spacers between them, as shown. Clamp the holders into place. Using the mounting holes in the holders as guides, drill pilot holes into the shelf. Drive the screws. For easy finishing later, remove the screws and holders, mark the holder locations, and set them aside.

Time for the shelves

1 From $\frac{3}{4}$ " cherry plywood, cut the shelves (T) and dividers (U) to the

sizes listed. Then, from $\frac{3}{4}$ "-thick cherry planed to match the plywood thickness, cut the shelf trim (V) and divider trim (W) to the given sizes.

2 As you did for the base rails (K), cut a pair of $\frac{1}{8}$ " glue-relief grooves along the top edges of the dividers (U), where shown on **Drawing 1**.

3 Glue and clamp the shelf trim (V) to the shelves (T), and the divider trim (W) to the dividers (U), keeping the ends and edges flush. Sand smooth. Then glue and clamp the dividers (U/W) to the bottom of the shelves (T/V) where dimensioned, keeping the parts flush at the back. (The shelf trim overhangs the divider trim $\frac{1}{4}$ " at the front.)

Finish up

1 As needed, sand any areas of the case, back, drawer, wineglass holders, and shelves to 220 grit and remove the dust.

2 Apply a stain, if you wish, and a clear finish. (We applied Varathane Premium Wood Stain No. 245 Traditional Cherry, followed by two

coats of satin AquaZar Water-Based Polyurethane, sanding to 320 grit between coats.)

3 When the finish dries, remount the wineglass holders (R, S). Then fasten the back to the case with #4x $\frac{5}{8}$ " flathead wood screws. Attach a $1\frac{1}{4}$ " knob to the drawer using the screw supplied with the knob. For a smooth-gliding drawer, apply paraffin wax to the cleats (P) and bottom edges of the sides (N). Install the drawer and shelves in the case. Now fill the cabinet with your favorite wines, wineglasses, and accessories, pop a cork, and celebrate your fine work! ♣

Produced by **Marlen Kemmet**

Written by **Owen Duvall** with **Chuck Hedlund**

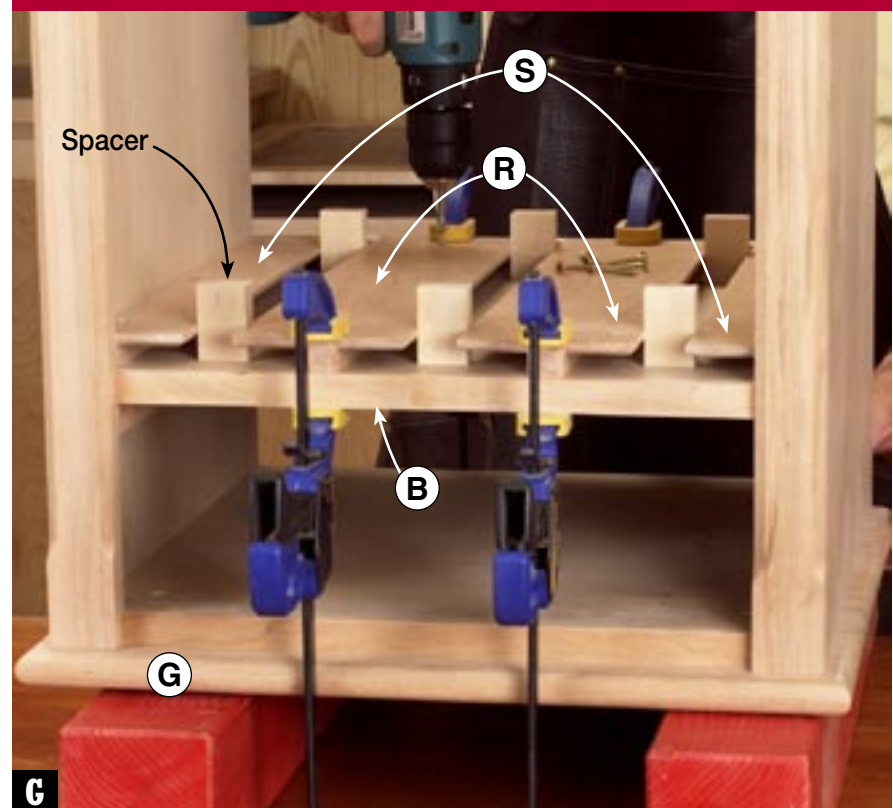
Project design: **Kevin Boyle**

Illustrations: **Roxanne LeMoine**

Graphic design: **Lorna Johnson**

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INSTALL THE HOLDERS



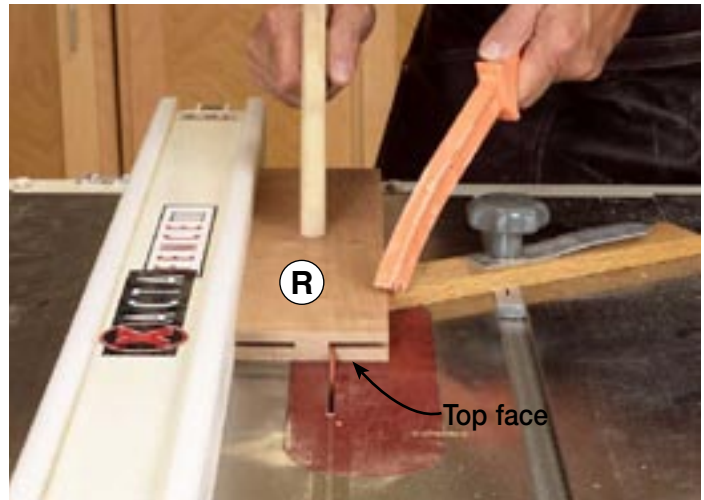
With the inner and outer holders (R, S) clamped in position with $1\frac{1}{16}$ "-wide spacers between them, drill pilot holes into the shelf (B) and drive the screws.

Shape the wineglass holders in 4 quick steps

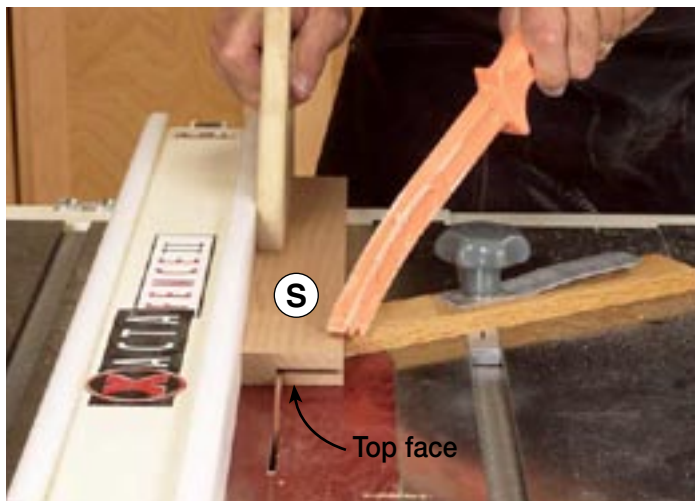
It's easy to cut the rabbets in the wineglass holders and chamfer the edges using a standard blade in your tablesaw. Here's how.



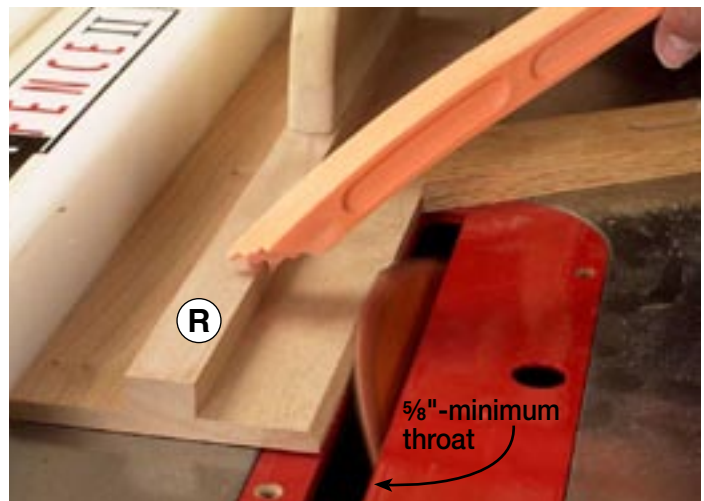
STEP 1 Raise your blade 1½" above a zero-clearance insert, and position the fence ¼" from the *inside* of the blade. Using a pushblock, pushstick, and feather board for safety, rip the outer holders (S) along *both* edges, keeping the same face against the fence.



STEP 2 Lower the blade to ½", and reposition the fence 2¼" from the inside of the blade. With the *top face* of an inner holder (R) down, cut the piece, turn it end-for-end, and cut it again to complete the rabbets. **For stability, keep the pushblock centered on the holder.** Repeat for the other inner holder.



STEP 3 With the blade height still at ½", reposition the fence ¾" from the inside of the blade. Keeping an outer holder (S) tight against the fence with the *top face* down, cut the piece to complete the rabbet. Hold the pushblock snug to the fence to keep the part stable. Repeat for the other holder.



STEP 4 To chamfer the edges of the holders, switch to your standard blade insert. Tilt the blade to 45°, and raise it ¾". Position the fence, as shown, and cut a ⅛" chamfer along *both* edges of the inner holders (R). Then reposition the fence, and chamfer the *inside* edge of the outer holders (S).

Materials List

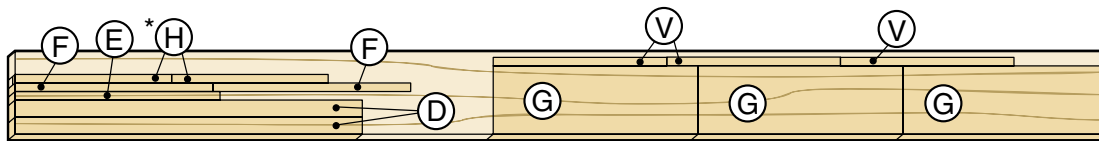
Case		FINISHED SIZE			Matl.	Qty.
		T	W	L		
A	sides	¾"	16"	30½"	CP	2
B	sub-top and shelf	¾"	15¾"	16"	CP	2
C	bottom	¾"	16⅜"	16½"	CP	1
D	stiles	¾"	1½"	30½"	C	2
E	bottom front trim	¾"	¾"	18"	C	1
F	bottom side trim	¾"	¾"	17⅜"	C	2
G	top	¾"	17⅜"	18"	EC	1
H	sub-top and shelf trim	¼"	¾"	13¾"	C	2
I	back	¼"	16"	31¼"	CP	1
Base						
J*	feet	1½"	2"	4½"	LC	4
K	rails	¾"	1½"	14¾"	C	4
Drawer						
L	front	¾"	47/16"	13⅝"	C	1
M	back	½"	4"	13⅝"	C	1
N	sides	½"	47/16"	14¾"	C	2
O	bottom	¼"	13⅝"	14½"	CP	1
P	cleats	¾"	13/16"	15¾"	C	2
Q	stop	¾"	1⅛"	2"	C	1
Wineglass holders						
R	inner holders	¾"	3¾"	15¾"	C	2
S	outer holders	¾"	2¼"	15¾"	C	2
Shelves						
T	shelves	¾"	14⅓/16"	15⅓/16"	CP	3
U	dividers	¾"	14⅑/16"	4"	CP	6
V	shelf trim	¾"	¾"	15⅓/16"	C	3
W	divider trim	¾"	¾"	4"	C	6

*Part initially cut oversize. See the instructions.

Materials key: CP—cherry plywood, C—cherry, EC—edge-joined cherry, LC—laminated cherry.

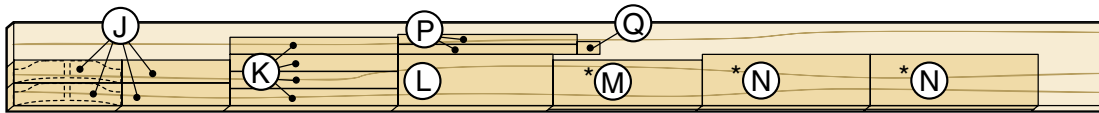
Supplies: #8x2" flathead wood screws (6), #8x1¼" flathead wood screws (14), #8x1¼" panhead screws (2), #4x⅝" flathead wood screws (12), #10 flat washers (2), spray adhesive, #18x¾" brads, 1¼" satin-nickel knob (available at your local home center or hardware store), paraffin wax.

Blade and bits: Dado-blade set, ⅛" and ⅜" round-over and 45° chamfer router bits, ¼" and ⅝/32" brad-point bits.

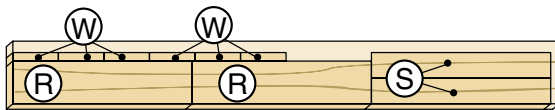


3/4 x 7 1/4 x 96" Cherry (5.3 bd. ft.)

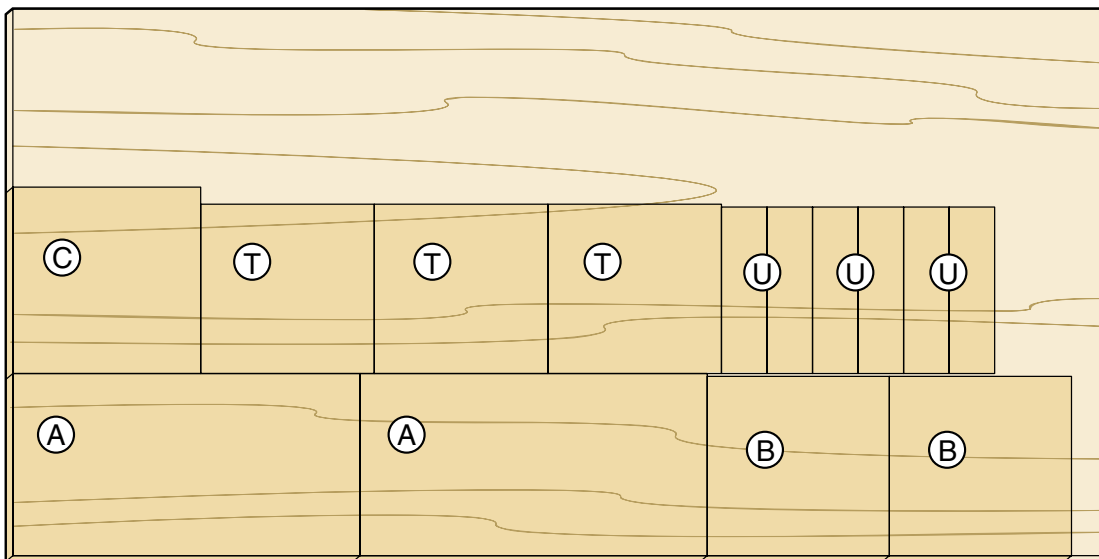
*Plane or resaw to the thicknesses listed in the Materials List.



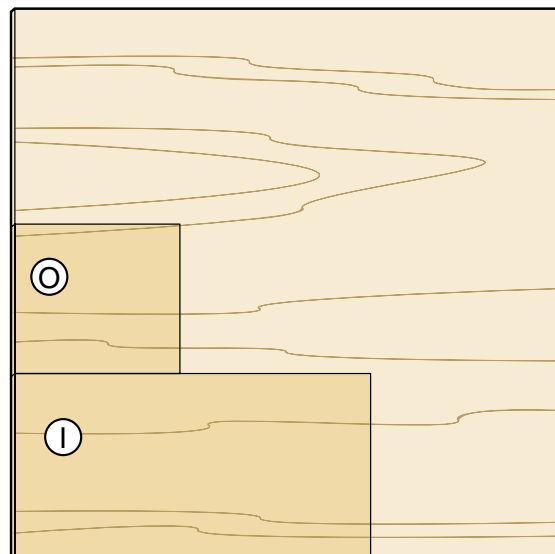
3/4 x 7 1/4 x 96" Cherry (5.3 bd. ft.)



3/4 x 5 1/2 x 48" Cherry (2 bd. ft.)



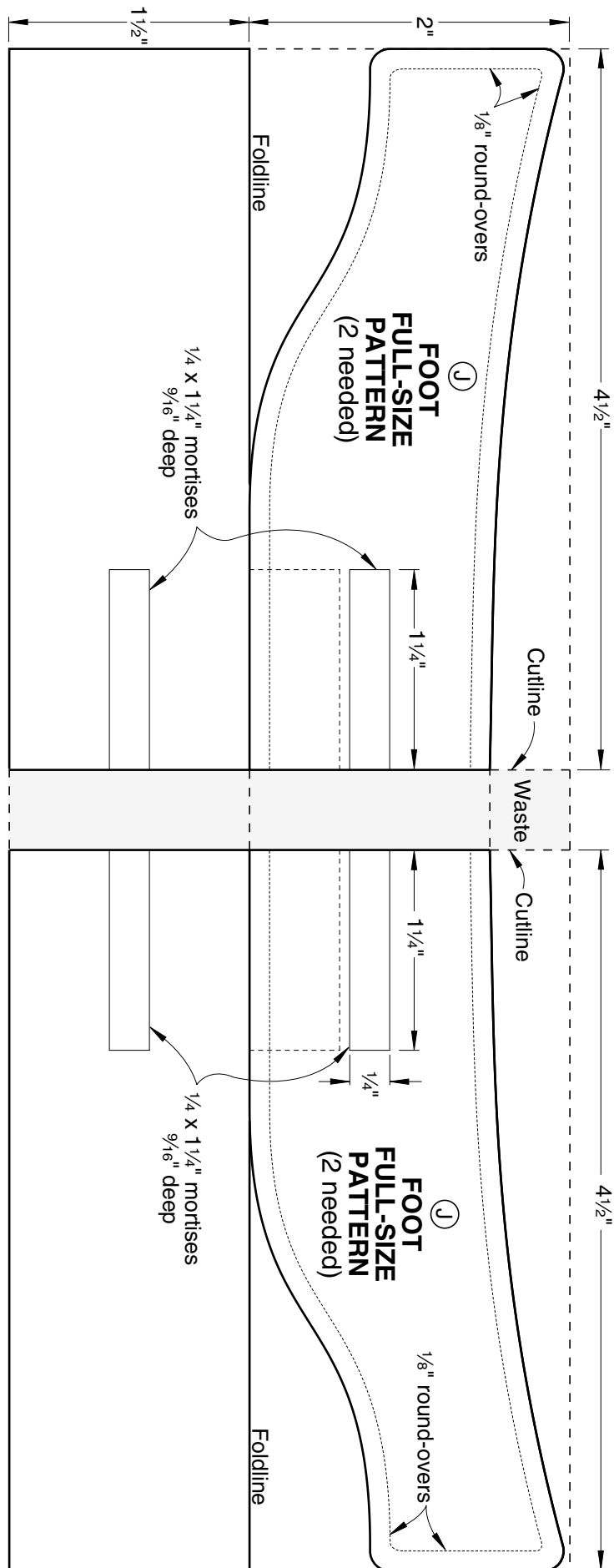
3/4 x 48 x 96" Cherry plywood



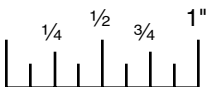
1/4 x 48 x 48" Cherry plywood

Cutting Diagram

FULL-SIZE PATTERN



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



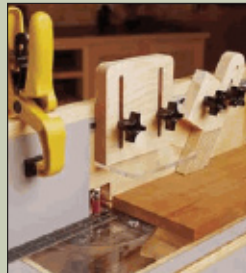
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