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Bill Krier
Editor in Chief, WOOD magazine

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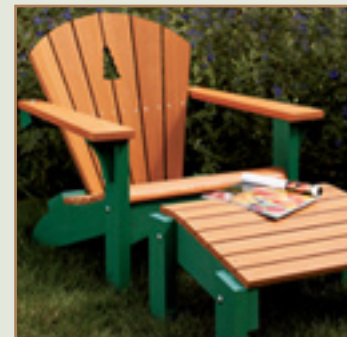
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Tablesaw Blade Locker



Build this compact storage unit and say good-bye to shuffling through blades stacked on a shelf or in a drawer. The pullout panels keep everything at your fingertips while protecting the carbide teeth.

PROJECT HIGHLIGHTS

- Overall dimensions: 11½" wide × 12" deep × 13¾" high.
- Stores a stack dado set and six 10" saw blades.
- Expand it to store additional blades by making a wider case and adding more pull-out boards.
- Hang your dado set on three pullout boards so you can get right to the blades and chippers you need.
- A pair of interlocking cleats makes wall-mounting a snap.
- If space allows, use the top of the case as a shelf and hang tablesaw accessories, such as throat plates and pushsticks, from the sides.
- For the lumber and other items needed to build this project, see the next page, bottom.

1 Cut the parts to size

- Cut the rails (A) and panels (B) to size [Materials List, below].
- From ⅛" tempered hardboard, cut the stops (C) to size.
- Plane stock to the same thickness as the ½" plywood, and cut the cleats (D) to size.

- Cut the top and bottom (E) and sides (F) to size. Then cut the case cleat (G) and wall cleat (H) to width and ¼" longer than listed. Rip 45° bevels on the mating edges of the case cleat and wall cleat [Drawing, below].

Materials List

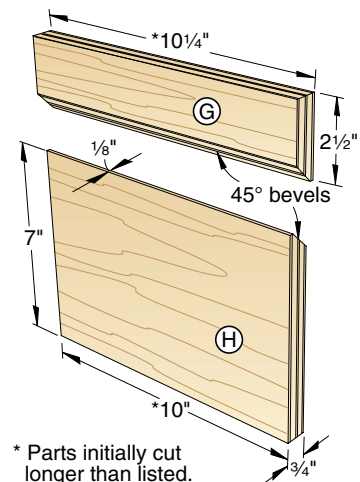
Part	FINISHED SIZE			Matl.	Qty.
	T	W	L		
A rails	½"	1⅛"	12"	BP	11
B panels	½"	7"	11¼"	BP	6
C stops	⅛"	½"	1"	H	12
D cleats	½"	¾"	12"	P	7
E top and bottom	¾"	12"	11½"	BP	2
F sides	¾"	12"	12¼"	BP	2
G* case cleat	¾"	2½"	10"	BP	1
H* wall cleat	¾"	7"	9¾"	BP	1

*Parts initially cut oversize. See the instructions.

Materials key: BP—birch plywood, H—tempered hardboard, P—poplar.

Supplies: #8×1½" and #8×2½" flathead wood screws, #10×¾" brass roundhead wood screws.

Blade and bits: Stack dado set, 1" Forstner bit.



* Parts initially cut longer than listed.

2 Make the pullout boards

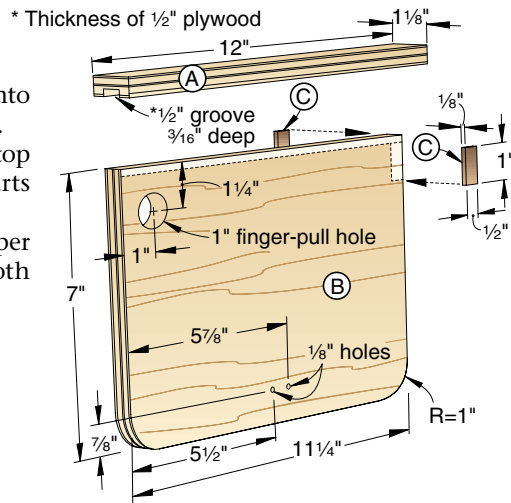
■ Adjust a dado blade to cut a groove to match the thickness of the 1/2" plywood panels (B). Then cut a centered 3/16"-deep groove into each rail (A).

■ Chuck a 1" Forstner bit into your drill press and drill a finger-pull hole into each panel (B). Mark 1" radii on the panel bottom corners. Saw and sand

them to shape. Drill two 1/8" holes into each panel for #10 roundhead screws.

■ Glue and clamp a rail (A) to the top edge of each panel (B), with both parts flush at the front.

■ Glue and clamp a stop (C) to the upper rear corner of each panel (B) on both sides.



3 Assemble the hangers

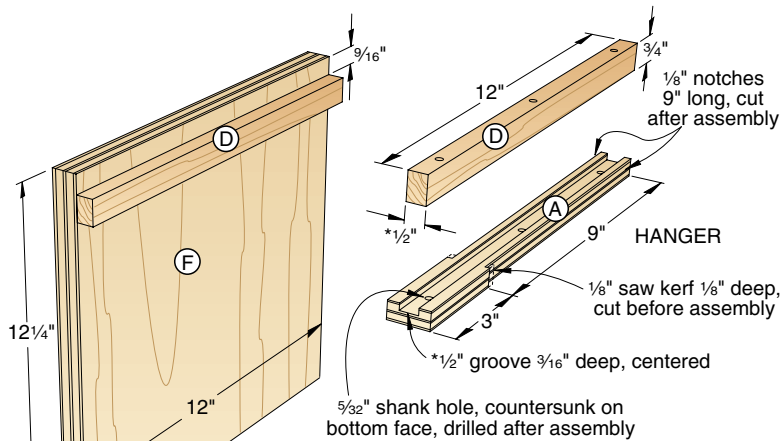
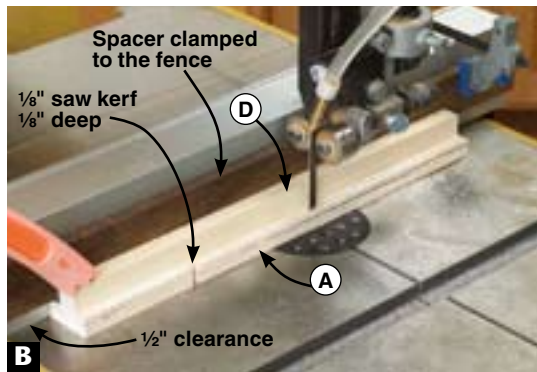
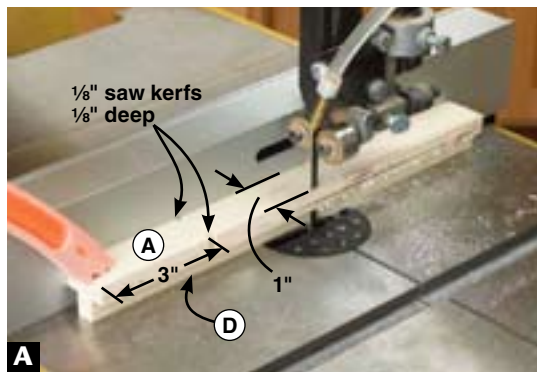
■ To form the ends of the 9"-long notches in the rails (A) of the hangers (A/D), fit your tablesaw miter gauge with an extension and stopblock. Then cut 1/8" saw kerfs 1/8" deep into both edges of each rail 3" from the front end [Drawing, below right].

■ Glue and clamp a cleat (D) into the rail (A) grooves, flush at the ends. Then, to complete the 9"-long rail notches, position your bandsaw fence 1" from the blade. With the hanger (A/D) rails (A) up, cut to the saw kerf [Photo A]. Next measure the distance from the cleat (D) to the edge of the rail, and cut a spacer to this width and the length of the bandsaw

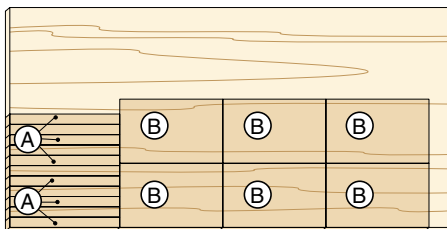
fence. Clamp the spacer to the fence 1/2" above the bandsaw table. Now rotate the hangers, and with the rails down, cut the opposite notches [Photo B].

■ Drill three countersunk holes through each hanger (A/D) [Drawing, below].

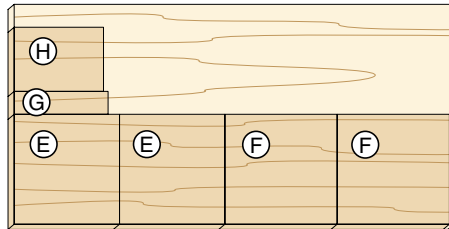
■ Retrieve the sides (F) and the remaining cleats (D). Glue and clamp the cleats to the inside faces of the sides [Drawing, below].



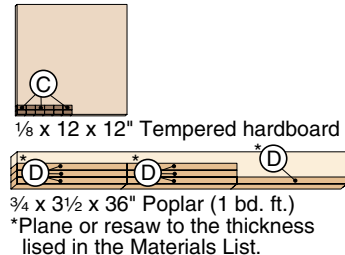
Cutting Diagram



1/2 x 24 x 48" Birch plywood



3/4 x 24 x 48" Birch plywood



1/8 x 12 x 12" Tempered hardboard

3/4 x 3 1/2 x 36" Poplar (1 bd. ft.)

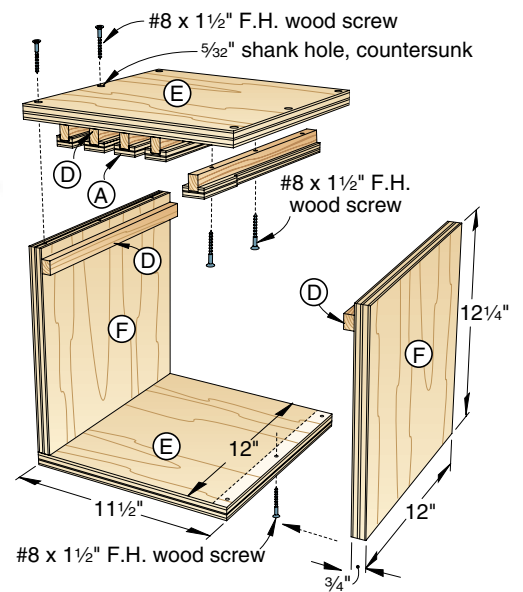
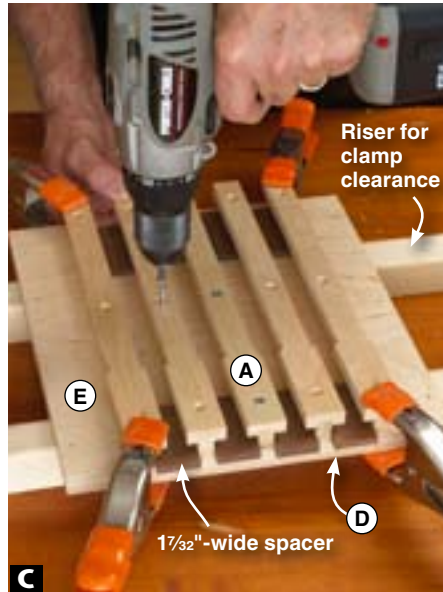
*Plane or resaw to the thickness listed in the Materials List.

4 Build the case

■ Finish-sand all the parts and assemblies. Then apply a clear finish. (We applied two coats of satin polyurethane, sanding between coats with 220-grit sandpaper.)

■ Retrieve the top (E). Center one hanger (A/D) on the bottom face, flush at the front, and clamp it in place. Using the hanger shank holes as guides, drill pilot holes into the top, and drive the screws. Then, inserting 1 $\frac{7}{32}$ "-wide spacers between the cleats (D), add the remaining hangers [Photo C].

■ Clamp the top assembly (A/D/E), bottom (E), and side assemblies (D/F) together, flush all around. Then drill countersunk screw holes through the top and bottom (E) and into the sides (F) [Drawing, far right]. Drive the screws.



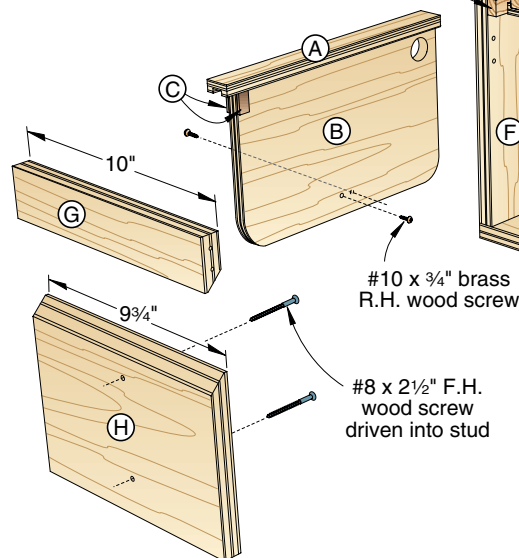
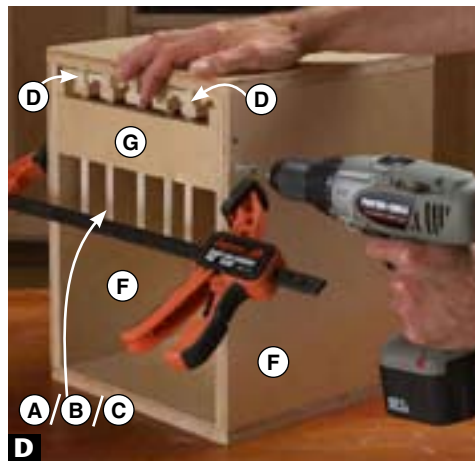
5 Assemble the locker

■ Drive roundhead screws into the 1/8" pilot holes in the panels (B) of the pullout boards (A/B/C) [Drawing, right]. Leave 3/16" between the head of the screw and the panel [Screw Detail]. File the protruding screw points flush on the opposite side of the panel.

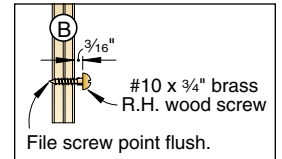
■ Slide the pullout boards (A/B/C) into the case from the rear. Measure the inside dimension of the case. Cut the

case cleat (G) to this length. Then cut the wall cleat (H) 1/4" less than this length. Position the case cleat between the sides (F), flush with the back edges and snug against the bottoms of the side cleats (D). Clamp the case cleat in place.

Drill countersunk screw holes through the sides and into the case cleat. Drive the screws [Photo D].



SCREW DETAIL



6 Now hang it up

■ Check for a wall stud in the desired location of the blade locker. If there is a stud, mark the location on the wall cleat (H), and drill two countersunk screw holes in a vertical arrangement. Hold the cleat level against the wall. Using the screw holes as guides, mark the screw locations on the wall. Drill pilot holes into the stud, and screw the cleat to the wall.

If there is no stud, drill the cleat holes in a horizontal arrangement, and use hollow wall fasteners to mount the cleat. Hang the blade locker by interlocking the case cleat (G) and wall cleat bevels. Slide out the pull-out boards, and hang your blades on the roundhead screws.

Note: To allow the case cleat (G) to clear the wall cleat (H) when mounting the blade locker under an overhead obstruction, such as a wall cabinet, draw a level line 11" below the obstruction, and align the bottom of the wall cleat with this line.

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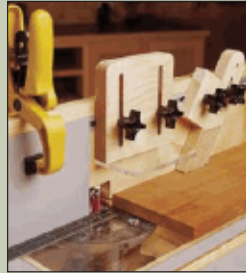
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