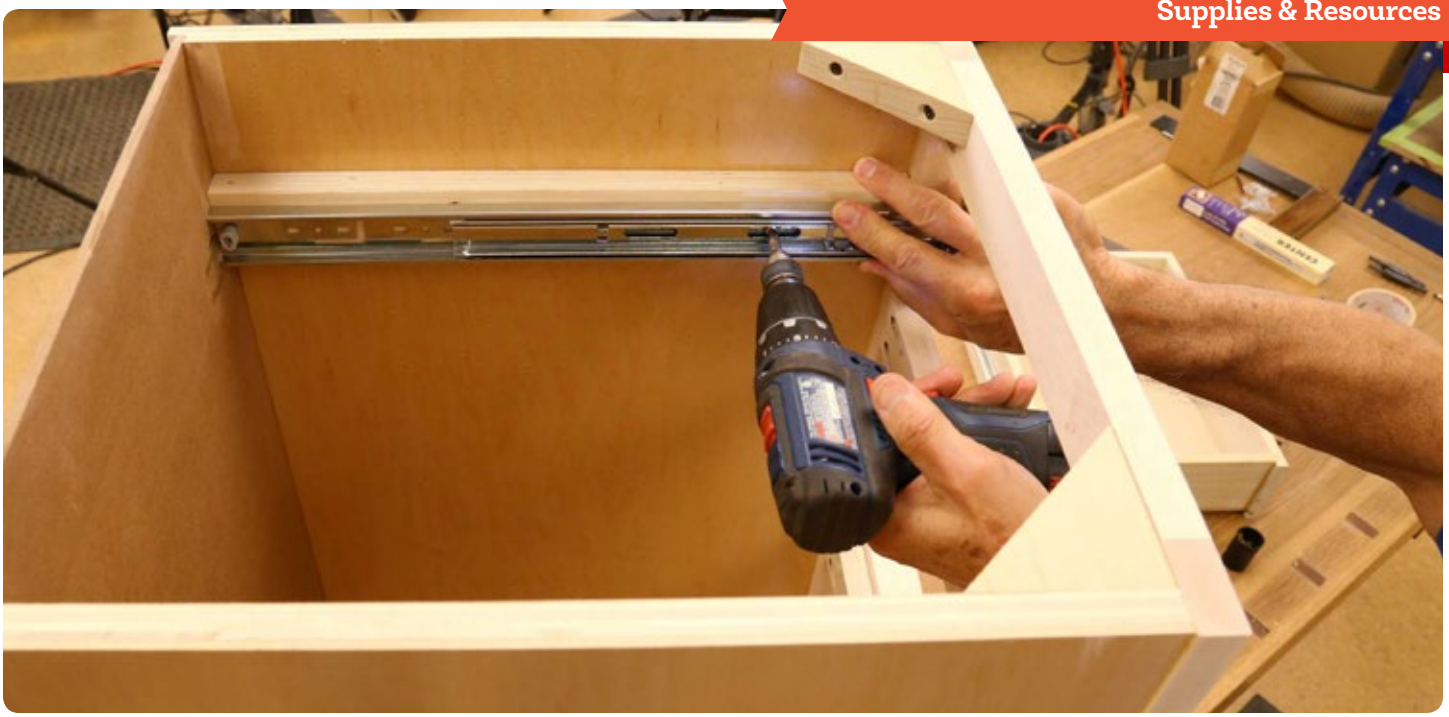
Supplies & Resources



TOOLS & SUPPLIES

- Table saw
  - Jim uses SawStop brand
- Router
  - Jim uses Bosch MRC23RS kit
- Jigsaw
- 8" dado blade set
  - Jim uses Forrest Blades brand
- Porter Cable dovetail jig #4212 with bits and accessories
- Pocket hole jig and bits
  - Jim uses Kreg brand
- Rail and stile bit set (roundover)
  - Jim uses Freud brand
- Raised panel bit
- Router base centering pin
- Self-centering bit 3/32"
- Counter bore with tapered bit
- Folding rule with extension
  - Jim uses Lufkin brand
- Thickness gauge
- 90 Degree Squaring Brackets
  - Jim uses 3D Square brand
- Cabinet square
- Spacer balls
- Drawer glide tape
  - Jim uses Woodcraft brand
- Full-extension Slides
- Epoxy-coated roller glides
- Blumotion undermount slides
- Brass set up bars
- Duck double stick tape

Jim prefers Bosch, DeWalt and Rockler brand tools.

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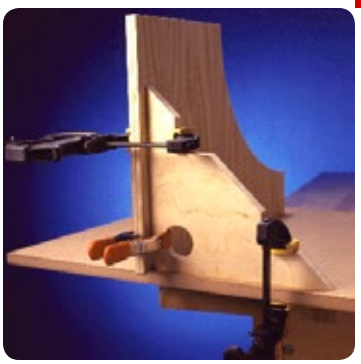
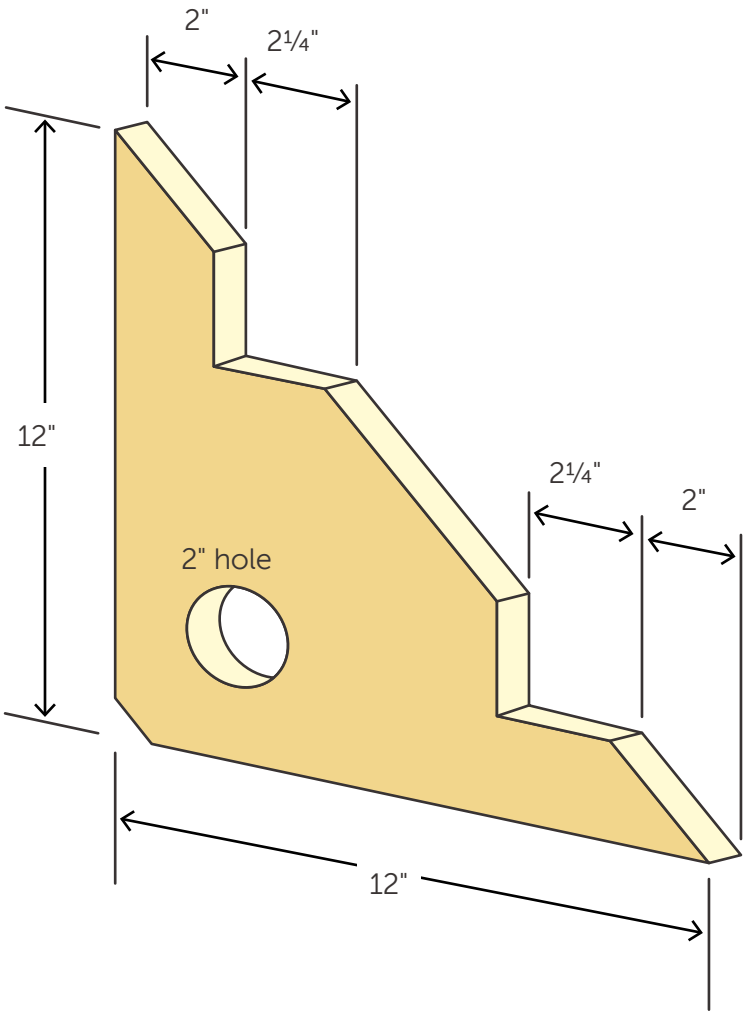
Right-Angle Brace



Anytime you need to hold two large workpieces at a right angle, say while you're screwing or gluing them together, you need one or more of these plywood triangles. As shown in the photo right, these right-angle braces have two notches for accepting clamp jaws. The circular cutout comes in handy for temporarily holding the brace in place with a spring clamp while you position bar clamps on the notches. It also gives you a way to hang the jig on a peg when you're through.

The more you use this shop helper the more jobs you'll find for it. Although we designed the brace for carcase assembly, we also found it handy for holding an on-edge picture frame rigidly to a bench as we sanded the frame's edges.



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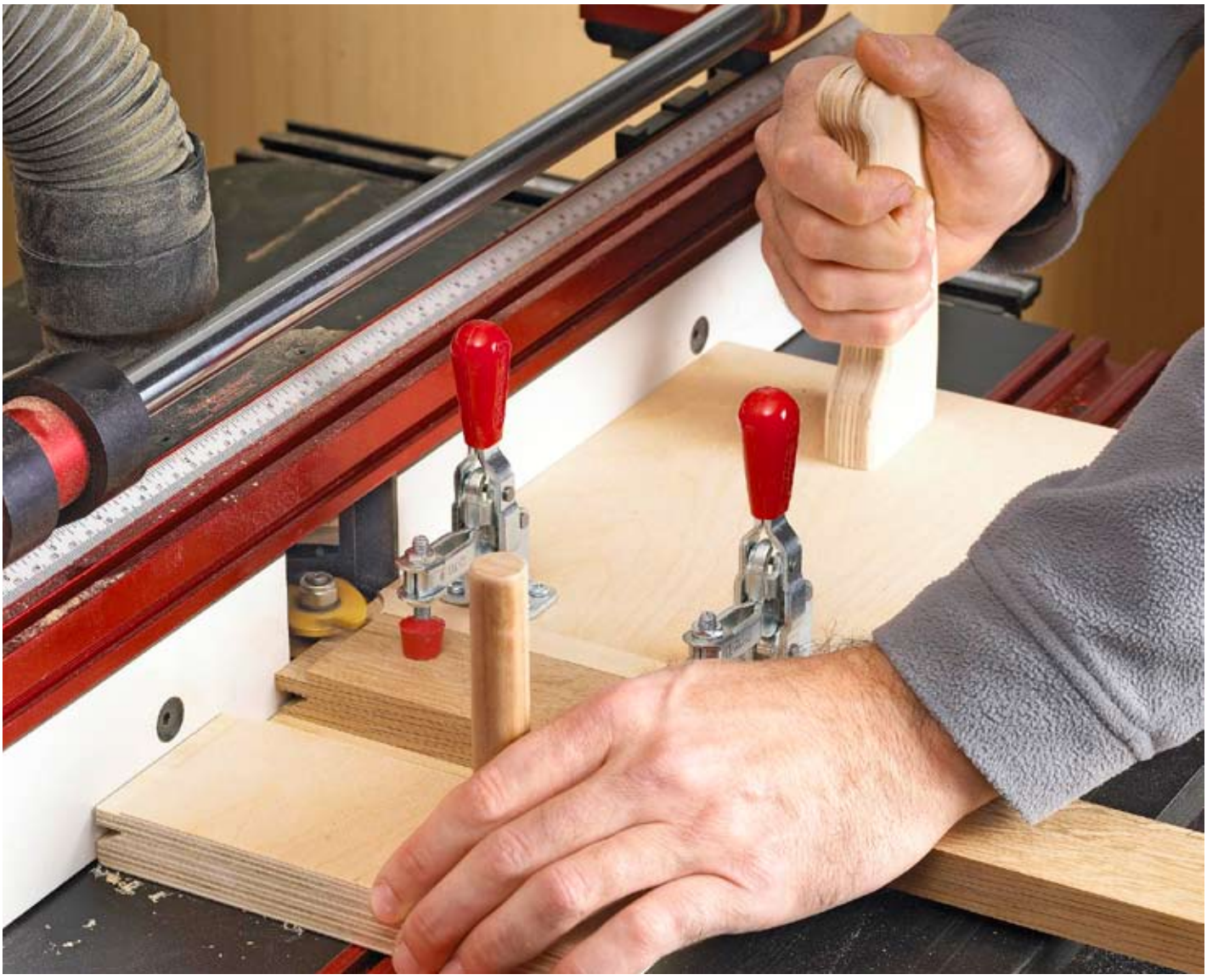
Drawers for Cabinetry & Fine Furniture

with Jim Heavey

Router-Table Cope-Cutting Sled

ROUTER-TABLE COPE-CUTTING SLED

Rout rail ends safely and precisely with this easy-to-make accessory.



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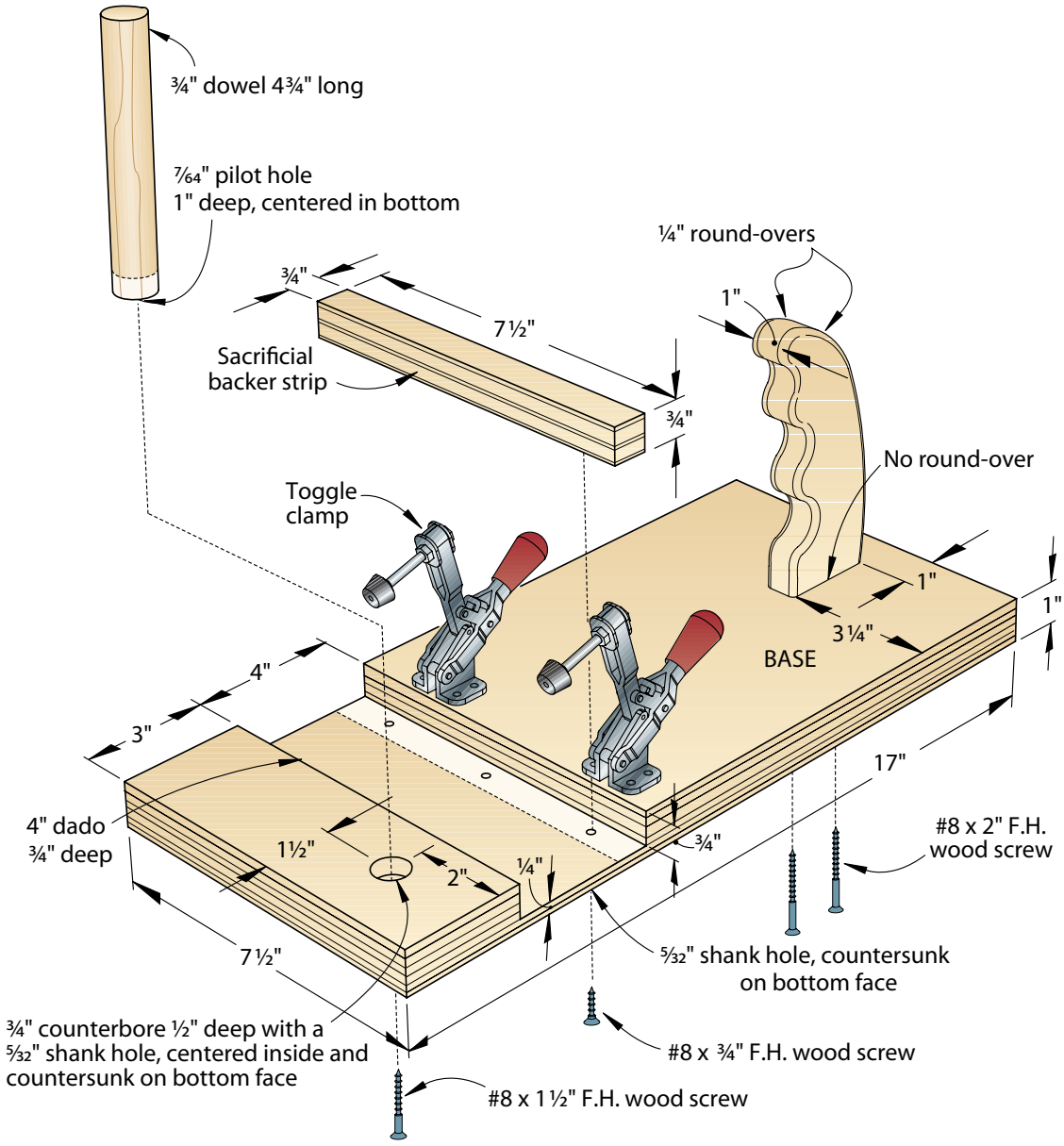
A rock-solid support system helps you rout rail ends that tightly fit mating stiles. The large base, dado, and hold-downs designed into this sled accomplish just that, while the handle and dowel keep your hands safely away from the spinning bit.

This sled shines at production-oriented work—cutting lots of rails on a regular basis, for example. Better yet, make both for a perfect routing team.

Build this sled by cutting the parts to the sizes noted on the drawing. Make several extra sacrificial backer strips. The backers create zero-clearance supports for cleaner cuts and can be easily replaced after becoming too chewed up.



Glue two pieces of ½×7½×17" plywood together face-to-face for the base. Cut a ¾"-deep dado 4" wide in the 1"-thick base. Create the handle and rout ¾" round-overs along the handle edges except for the bottom. Screw the handle, dowel, and toggle clamps to the base, making sure the screwheads are countersunk so they won't rub against the router top.

To cope the end of a rail using the sled, raise the bit ¼" higher than if you were cutting the rail directly on the router tabletop to accommodate the height of the sled base. Use the toggle clamps to secure a scrap piece of stock the same thickness as your rails firmly against the router-table fence and backer strip with the toggle clamps. Turn on the router and ease the sled and workpiece into the bit. Just after completing the cut in the rail end where shown in the photo, slide the sled and test piece backward. Doing this prevents destruction of the sled's trailing inside edge. Check the fit of the joint against your previously routed stiles, and adjust the height of the bit as necessary before cutting your rails.

Project Design: **Rod Cox, St. Paul, Iowa**