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Bill Krier
Editor in Chief, WOOD magazine

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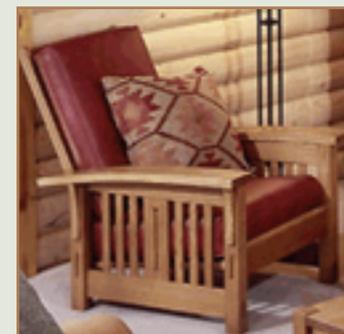
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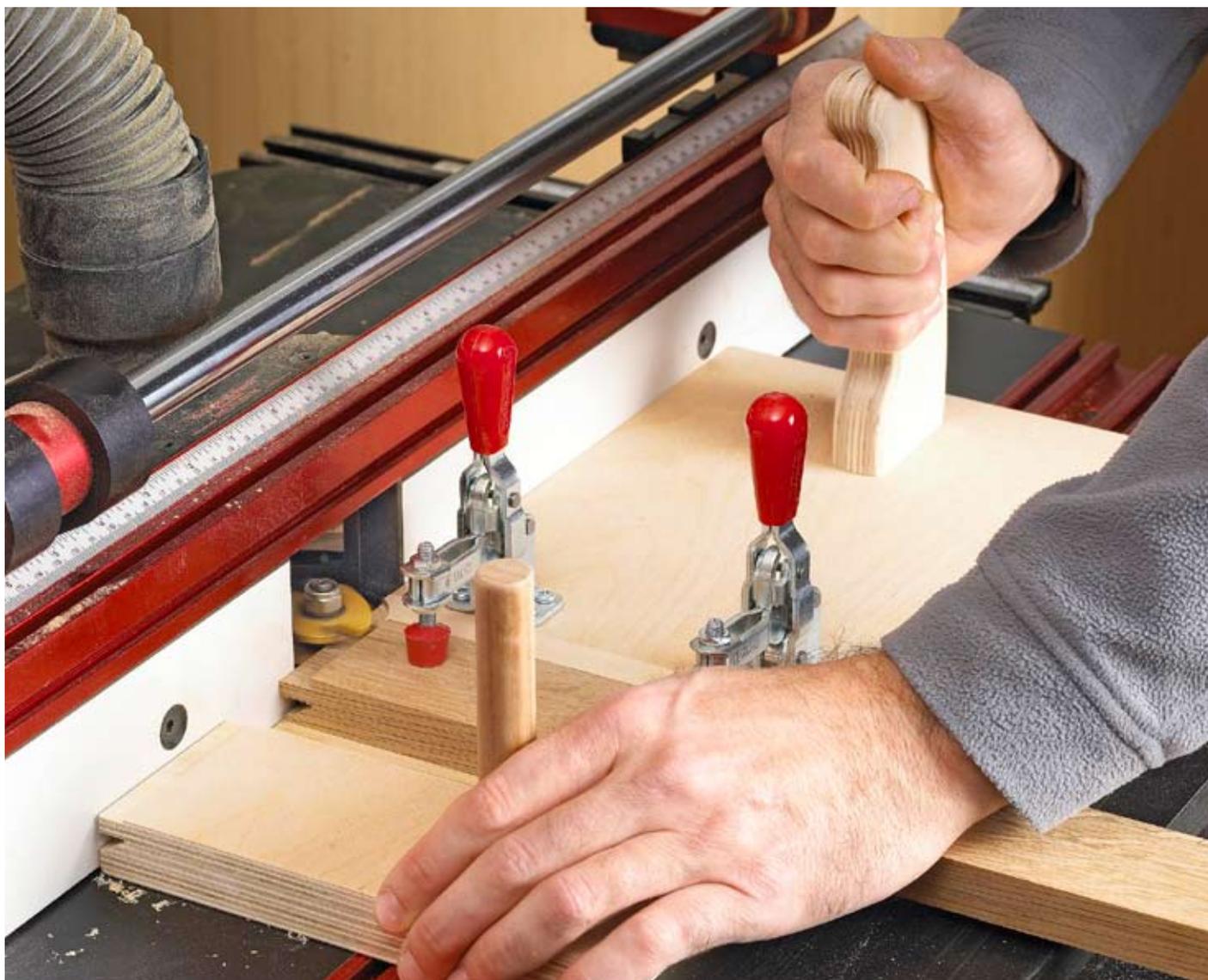
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ROUTER-TABLE COPE- CUTTING SLED

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



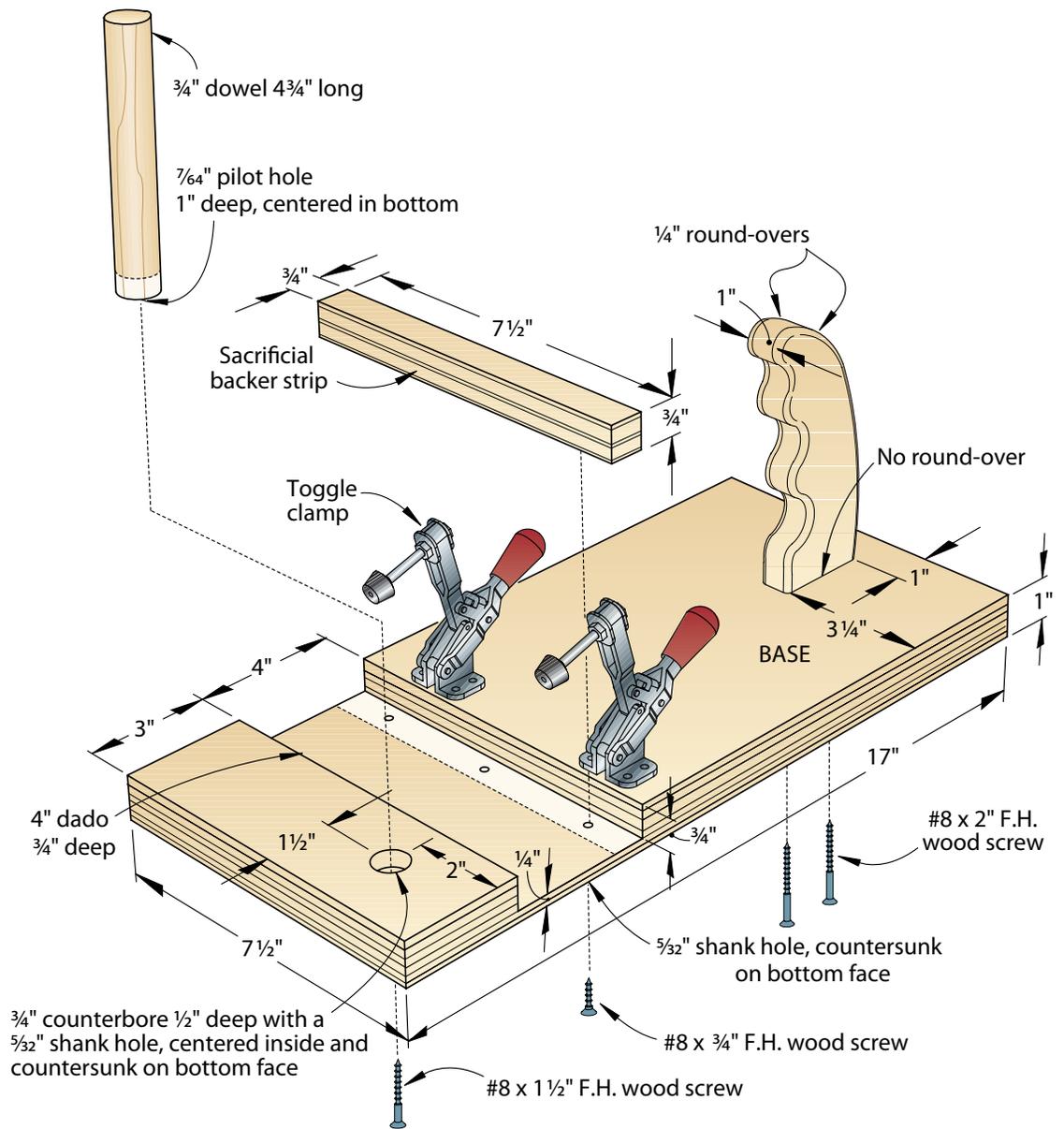
A rock-solid support system

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 $\frac{1}{2} \times 7\frac{1}{2} \times 17$ " plywood together face-to-face for the base. Cut a $\frac{3}{4}$ "-deep dado 4" wide in the 1"-thick base. Create the handle and rout $\frac{3}{4}$ " 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 $\frac{1}{4}$ " 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

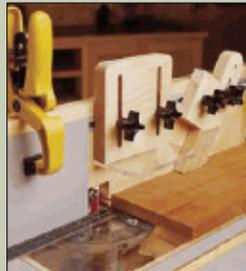
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