

Disappearing Doors

Just like the doors on your entertainment center, but for your closet

BY GARY M. KATZ



This system is ideal for hiding a home office, a walk-in closet, a laundry room or a display case because the doors can be kept out of the way when open.

I got a call to install three pairs of foldaway doors for a home office. When I went to measure the job for materials, I was surprised to see a 12-ft. wide by 7-ft. tall closet opening in a guest bedroom. The homeowner wanted me to install full-size doors that hinge open, then slide back into pockets in the sidewalls, like the doors on an entertainment center.

The homeowner wanted to use the opening as a convertible office, but he didn't want his desk and files visible when he had guests. He also needed the doors to open out of the way so that he wouldn't feel as if he were working

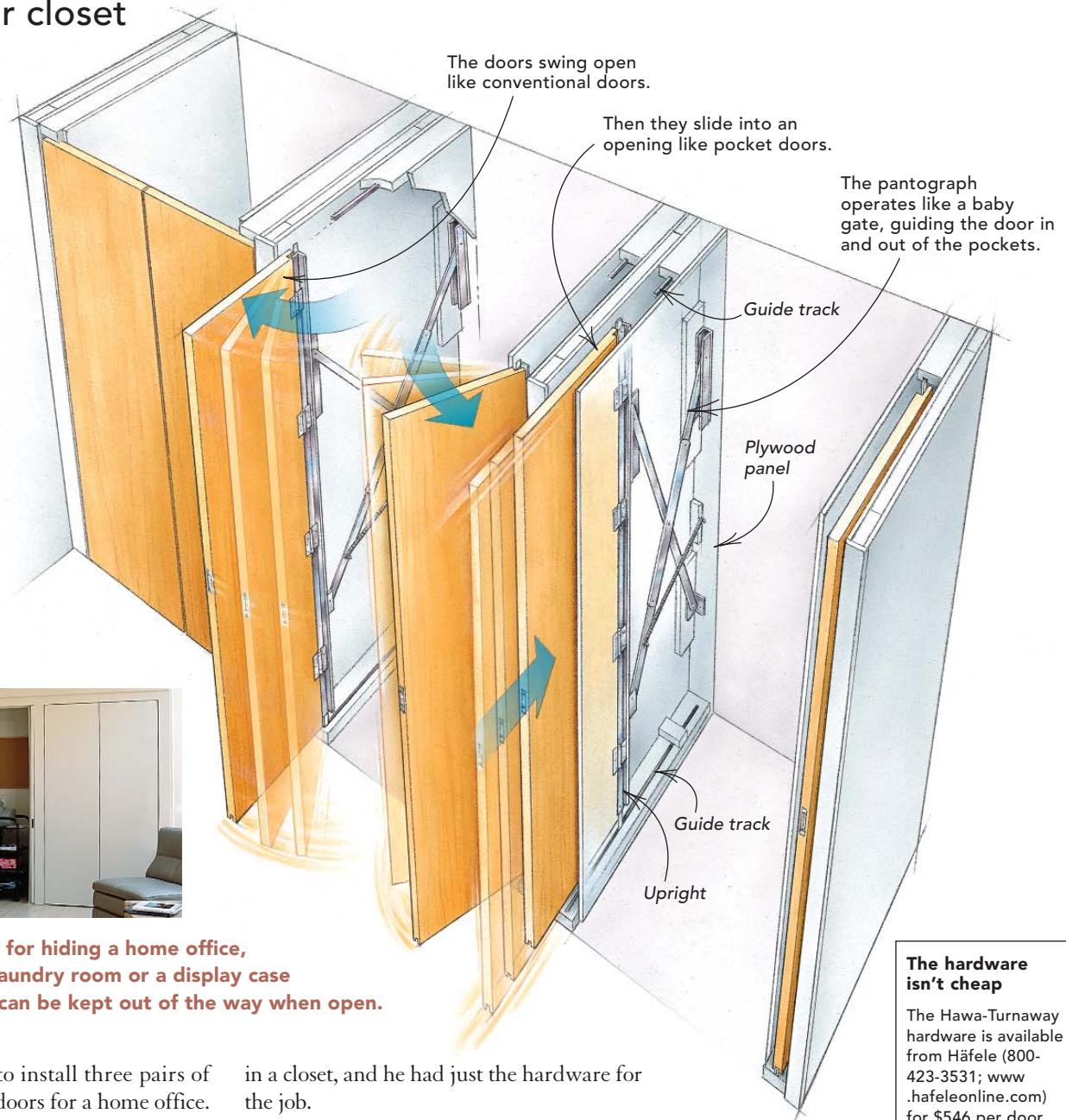
in a closet, and he had just the hardware for the job.

I had to familiarize myself with the Hawa-Turnaway high-precision hardware, so I opened one box. Like most carpenters, I set aside the instructions until I could understand the basic function of the hardware. After fooling with the two colossal aluminum pantographs, what I called the scissors, I began to understand the operation. The pantograph ensures that the doors glide in and out of the sidewall pocket.

But I knew I was in trouble once I opened the directions: "Warning! This product must

be installed to exact dimensions in a precision-built cabinet. Do not attempt to install this product in a rough opening on a job site." I showed this warning to the general contractor and the homeowner, and they asked me to take the job and to do my best.

The key to installing the system properly is getting the top and bottom tracks level, plumb and perfectly parallel; otherwise, the



The hardware isn't cheap

The Hawa-Turnaway hardware is available from Häfele (800-423-3531; www.hafeleonline.com) for \$546 per door, plus shipping and handling.

IF THE FRAME ISN'T PERFECT, THE DOORS WON'T WORK



1 Leveling the bottom tracks is the single most important step. A long level establishes the high point of the floor. Level lines are marked where the 2x4 blocks need to lie.

2 Fixing the dips. After the opening is leveled, the 2x4 blocks are shimmed to create a level floor plane.

3 Keeping it in line. The top rails are installed by measuring up from the leveled bottom blocks, are checked for level and are held plumb to the bottom rail.

4 Final adjustments are no big deal. The arm of the pantograph is adjusted so that it will not overextend the pocket and so that the door slips back flush to the opening.

5 Custom doors finish the job. Although the author chose light, hollow-core doors, the hardware can handle an 80-lb. door.

doors bind in the track and do not open or close properly (drawing, facing page).

I installed the upper and lower plastic U-shaped tracks in wood blocks because the doors needed to clear a carpeted floor and a head jamb. Creating a perfectly level plane was a prerequisite for this job. The floor was miserably out of level (photo 1, above), but I could shim the blocks pretty easily (photo 2, above). In addition, the blocks acted as backing cleats for the plywood panels needed to create the pocket walls. I used a plunge router to cut the dados in the blocks for the tracks, then installed and shimmed them level. In-

stalling the top blocks was much easier (photo 3, above).

The back of the large pantograph was mounted to the sidewall in two locations: I bolted the top to the wall, but the bottom had to be mounted in a vertical track secured with Allen-screw pins so that the pantograph could be adjusted (photo 4, above). I fastened the doors to leaf hinges that mounted in a track on the front of the pantograph. By sliding the hinges in the track, I could raise and lower each door, so aligning the tops of all the doors was a snap. Adjustable steel guides keep the hardware on track.

I wouldn't recommend that just anyone take on a pair of full-size foldaway doors—not to mention three of them. But with some careful planning and patience, installing this precision hardware can result in a smoothly operating, slick pair of hidden doors (photo facing page). □

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