

The “Under-the-Mark V” Cabinet

by T.J. Parks

**There's a whole lot of storage space just waiting to be filled —
right under your Mark V!**

This plywood cabinet is a perfect mate for the Mark V. It makes good use of the space *underneath* the machine, creating a surprising amount of storage space for tools and accessories. Those easy-to-misplace items such as arbors, molder knives, saw blades, and sanding discs can be stored ready-to-use right where you can reach them. Even larger Mark V accessories such as the jointer and belt sander can fit inside this cabinet.

By mounting the bandsaw and jigsaw on the ends of the Mark V, a couple of accessories on the top of the cabinet, and the rest on the inside of it, *all* the items in the Ultimate Shop Accessory Package, and the Mark V itself, can be stored in 12 square feet. That's about the size of a walk-in closet!

Cut the plywood according to the cutting diagram with the help of another person. Use a plywood or carbide-tipped saw blade and a wooden fence extension for greater bearing surface and more control for straight cuts.

After all the pieces are cut*, set up the dado package to cut all dadoses 1/2" wide by 1/8" deep for glides and assembly. For accuracy, cut and sand the two contoured ends together. Then drill the mounting bolt holes in the ends and the clamp bars. Drill for door knob screws as well.

**You may choose to use only one piece of 4 x 8 x 1/2" plywood and make this cabinet without all the shelving indicated.*

Dry assemble the cabinet using bar clamps and check the fit of doors and shelves. Mark for hinge mortises. Measure and cut the aluminum angle stock to 15" lengths and drill screw holes in it.

Now disassemble the cabinet. Chisel the mortises for the hinges. Mount the angle stock. Be sure to leave room for the doors to close.

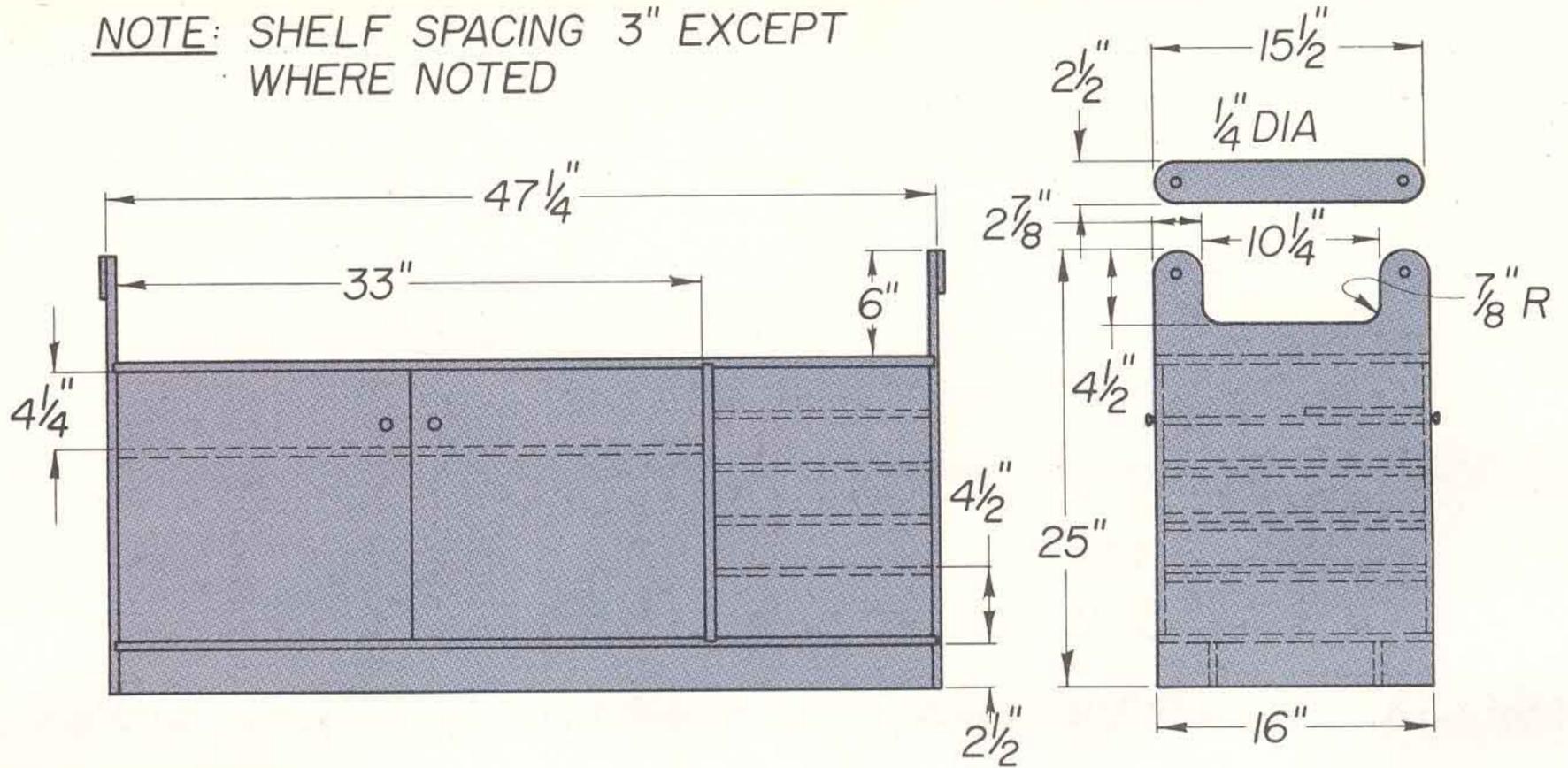
Reclamp the cabinet parts together and fasten with screws only. Use no glue. Mount the door knobs, hinges, and latches to the doors. The clips under the shelves that prevent them from tipping and spilling should be mounted near each shelf's back edge.

Mount the cabinet to the underside of the Mark V, fill it with accessories and tools arranged to suit your personal needs. After the cabinet is full, final fit the doors in place. Then take all the parts out of the cabinet one last time, disassemble it and apply glue to all joints, reusing the utility screws again to clamp it while the glue sets. Then you can fill the screw head countersinks with wood putty and apply the finish of your choice.

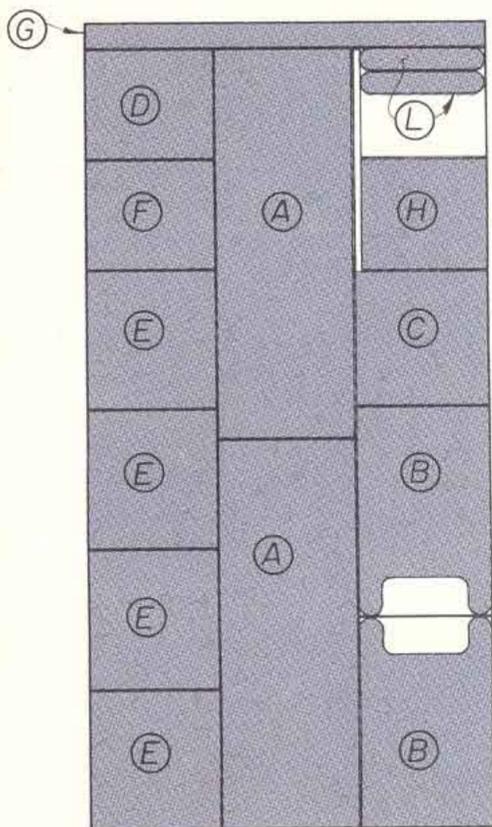
This cabinet can be modified to roll on casters to be used as a low-level work surface. You can also add modifications to hold the clutter collector deflectors from the Shopsmith project plan, "The Shopsmith Sawdust Collection System".

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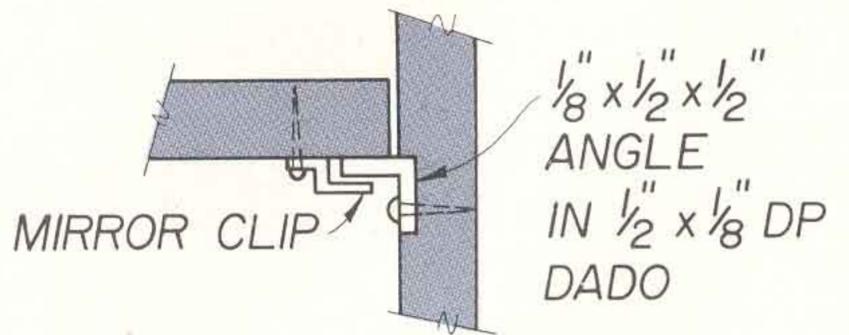
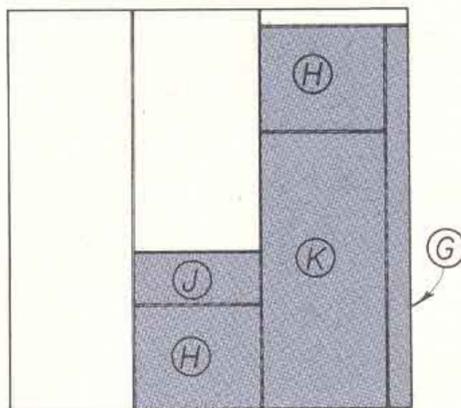
NOTE: SHELF SPACING 3" EXCEPT WHERE NOTED



CABINET LAYOUT



CUTTING LAYOUT



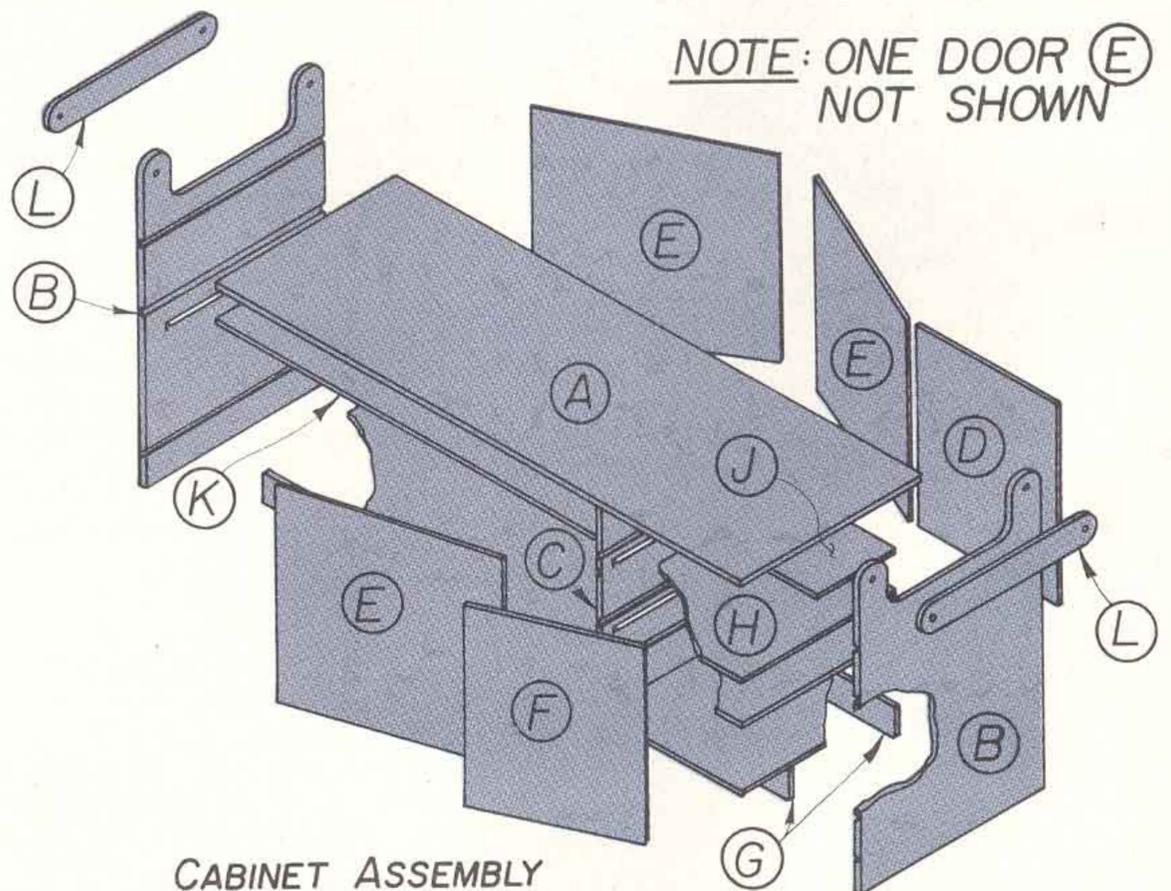
SHELF MOUNTING DETAIL

Bill of Materials
(finished dimensions in inches)

A	Top and Bottom (2)	1/2 x 16 x 46-1/2
B	Ends (2)	1/2 x 16 x 25
C	Partition	1/2 x 16 x 15-3/4
D	Back	1/2 x 15-1/2 x 12-3/4
E	Doors (4)	1/2 x 15-1/2 x 16-1/2
F	Door	1/2 x 15-1/2 x 12-3/4
G	Braces (2)	1/2 x 2-1/2 x 46-1/4
H	Shelves (3)	1/2 x 14-1/2 x 12-3/4
J	Shelf	1/2 x 12-3/4 x 7-3/4
K	Shelf	1/2 x 14-1/2 x 33
L	Clamp bars (2)	1/2 x 2-1/2 x 15-1/2

Hardware

- 10 3" T-hinges with screws
- 13' 1/8" x 1/2" x 1/2" Aluminum angle
- 30 #8 x 1/2" Panhead sheet metal screws
- 5 Knobs
- 42 #6 x 1-1/2" Utility screws
- 12 "Mirror" retainer clips



CABINET ASSEMBLY