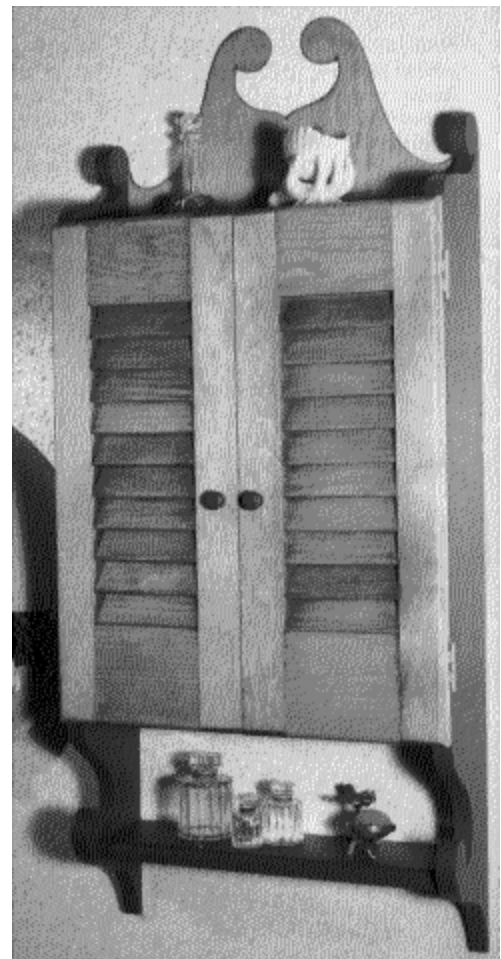


# Project 11355EZ: Wall Cabinet with Louvered Doors and Shelf

*This Early American style cabinet will look good in any room, although it seems particularly well suited for the kitchen or bathroom. To make it easy to build, we simplified the joinery, using a basic butt joint secured with countersunk and plugged wood screws. The fixed-louver doors are available at most lumberyards and hardware stores. The back is made from clear pine plywood. Not all lumberyards carry clear pine, but most will order it for you. The rest of the cabinet, including the louver doors, is made from solid pine.*

*The cabinet can be mounted by driving a pair of wood screws through the back and into a wall stud, or, if you can't find a stud or find one in your chosen location, you can attach the cabinet by using a Molly bolt or other suitable wall anchor to firmly secure the cabinet in place.*

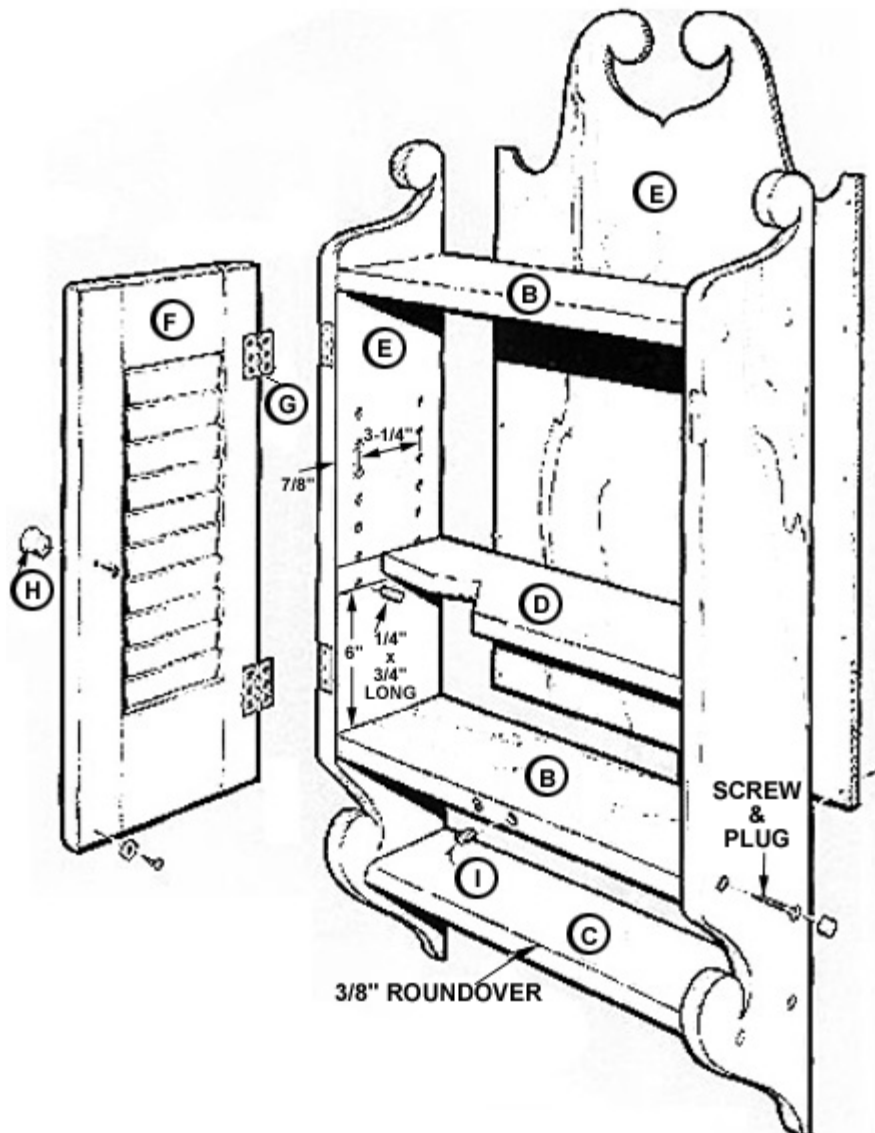


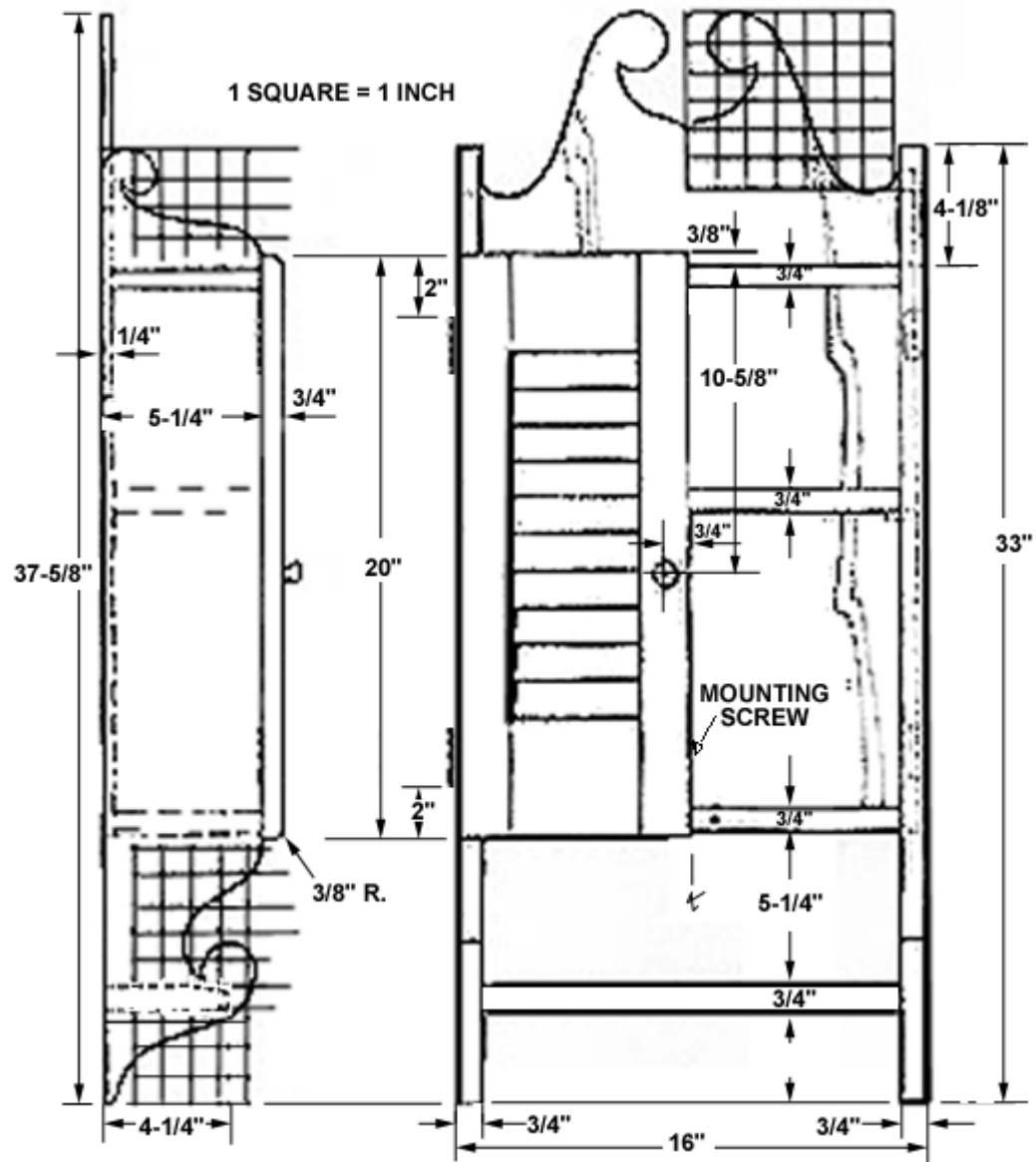
*Before starting, it's best to have the doors on hand. The door dimensions may vary slightly from the ones we show, requiring an adjustment of our case dimensions.*

# Wall Cabinet Materials List

Part	Description	Size	Number Required
A	Side	3/4" x 5-1/4" x 33"	2
B	Top/Bottom	3/4" x 5" x 14-1/2"	2
C	Fixed Shelf	3/4" x 4-1/4" x 14-1/2"	1
D	Adjustable Shelf	3/4" x 5" x 14-3/8"	1
E	Back	1/4" x 5-1/2" x 28-1/4"	1
F	Door	3/4" x 8" x 20"	2
G	Hinge	1-1/4" x 1-3/4"	4
H	Knob	3/4" dia.	2
I	Magnetic Catch	5/16" dia.	2

# Wall Cabinet Complete Schematic





# Wall Cabinet Instructions

## Step 1: Make the Two Sides (A)

1. Cut each side (A) to the dimensions shown in the materials list.
2. Lay out and mark the center-line locations for the adjustable shelf peg holes.
3. Use a 1/4" drill bit to bore each shelf peg hole to a depth of 3/8"
4. Use a router equipped with a straight bit and an edge guide to cut the 1/4" deep x 1/2" wide rabbets that will accept the back (E) on the back edge of each side (A) (see **Figure 1**). **NOTE: The rabbet is stopped flush with the underside of the bottom (B) and is 1" from the top end.**
5. Transfer the two curved profiles shown in the schematic to each end of the sides (A).
6. Use a band saw or saber saw, staying slightly on the waste side of the line, to cut the curved profiles.
7. Use a file and sandpaper to sand the edge of the curved profiles exactly to the line.

## Step 2: Make the Top (B), Bottom (B), and Shelves (C and D)

1. Cut the top and bottom (B) and the fixed shelf (C) to the dimensions given in the materials list.
2. Apply the roundover on the front edge by using a router and a 3/8 in. radius roundover bit or by hand-shaping it with a file and sandpaper.
3. Use 1-1/4" long x #8 flathead wood screws countersunk to a depth of 1/4" to join the top, bottom, and fixed shelf to the sides. **NOTE: There's no need to add glue here, since end-grain butt joints like this offer little glue strength.**
4. Glue the plugs in place and sand them flush with the surface.
5. Measure the distance between the sides (A) to cut the adjustable shelf (D) to length and width.

## Step 3: Make the Back (E)

1. Use 1/4" thick clear pine plywood to make the back (E).
2. Rip the plywood to fit snugly between the rabbets on the back edge of the sides.
3. Transfer the grid pattern to the back.
4. Cut the grid pattern to shape with the band saw.

#### **Step 4: Make the Doors (F)**

1. Use ready-made, 3/4" x 8" x 20" pine shutters with non-movable louvers.  
**NOTE: Your lumberyard will probably need to special-order the shutters, since they will usually only stock the movable-louver variety. OR, if you prefer, use the movable-louver shutters—just be sure to locate the adjusting rod on the inside face of the door and keep in mind that you may need to cut a pair of notches in the front edge of the adjustable shelf to provide clearance for the adjusting rods.**
2. Cut the mortises for the hinges (G).
3. Test mount the two doors (F).
4. Remove the doors and hinges if all looks fine, OR readjust as necessary.
5. Use the router table to apply a 3/8" radius to the front edge of the top, bottom and outside edges of each door.
6. Use a file and sandpaper to slightly round the inside edge—where they meet when assembled to the case—of each door (F).
7. Obtain the 3/8" dia. knobs (H) from any hardware store.

#### **Step 5: Sand and Finish**

1. Use 220-grit sandpaper to sand the doors (F), back (E) and assembled case.
2. Choose your surface modifications. We applied two coats of blue paint to the assembled case and knobs; finished the doors, back, and adjustable shelf with two coats of Minwax's Puritan Pine; and then added, after drying, two coats of orange shellac, followed by a coat of McCloskey's Eggshell Varnish. **NOTE: Since the back (E) will be glued in place later on, you'll want to protect the area of it that fits into the rabbet from paint or finish—which will weaken the joint—by applying a strip of masking tape along each edge. Paint and finish will only weaken the joint between the back.**
3. Use glue and box nails (or wood screws) to add the back and firmly secure it in place.
4. Install the hinges and magnetic catches (I).
5. Attach the doors and knobs.
6. Use 1/4" dia. by 3/4" in. long dowel pegs to attach the adjustable shelf.

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