RYOBI

Pantry Upgrade

PROJECT PLANS

Skill Level: Beginner

Building Note:

Board selection can vary based on your storage needs. Board width will determine the depth of the shelves, so choose board widths to accommodate your pantry item sizes. The lengths of the boards are also determined by your pantry dimensions. Quantity of materials are calculated by the size of your pantry and the number of shelves being installed.

Materials

Item	Qty
1" x (8,10,12")x 8' Board* (Shelf depth can very to fit your needs)	As needed
1" x 2"x 8' Board*	As needed
1"x 6" Steel Mending Plate	As needed (2 per shelf)
1-1/2"x 18-Gauge Collated Nails	1 Box
#10 x 2-1/2" Flat Head Wood Screws	1 Box
#6 x 5/8" Flat Head Wood Screws	As needed
Drill Bit: 7/64"	
Sandpaper**: 150g, 220g & 320g	

* Board Dimensions are "nominal". Actual dimensions are smaller due to lumber industry standards. Cuts are actual length.

** Starting grit will depend on board surface condition, a rough surface will require starting with a coarse grit first.

Grit is measured in the coarseness of the particles on the sandpaper. The lower the grit number, the coarser the paper. Heavy sanding would require 60 to 80 grit, medium sanding would require 120 to 220 grit, and finish sanding would require 320 to 400 grit. Super fine sanding would be 600 grit and higher.

A select/premium board or plywood comes with a smoother surface finish. It is clear or has very few tight knots, and it will have straight and sharp edges. This grade of wood pairs well with other boards or panels better and requires less time to sand and finish.

Tools Used

7-1/4" Sliding Compound Miter Saw

or

Circular Saw

Drill/Driver

18GA Brad Nailer

5" Random Orbit Sander

Tape Measure

Stud Detector

Hammer

Drill Bits

Driver Kit

Countersink Set

5" Orbit Sandpaper

Also Needed: Safety Glasses, Level and Clamps

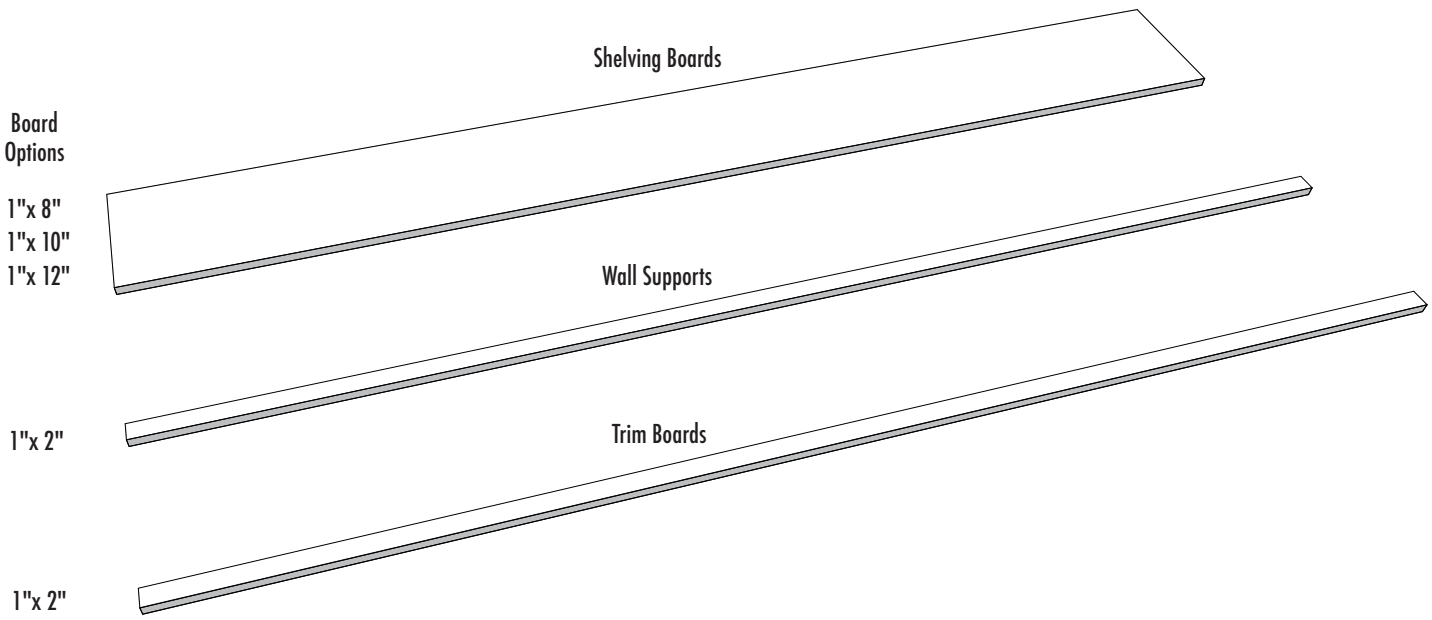
Battery Tip: A 4.0 Ah battery is recommended to be paired with high amp draw tools for maximum efficiency.

Lumber Cut List

Board *	Description	Cut to	Qty
1" x (8,10,12")	Back Shelves	Length	As needed
1" x (8,10,12")	Side Shelves	Length	As needed
1" x 2"	Wall Supports	Length	As needed
1" x 2"	Face Trim	Length	As needed

*Board Dimensions are "nominal". Actual dimensions are smaller due to lumber industry standards. Cuts are actual length.

Lumber & Sheet Layout Guide



Assembly Instructions

Step 1


Take note of the current position of the shelves in your pantry before removing them. You may want to replace shelves at the same locations, or you can customize to fit your needs.

Remove current shelving.

Patch any holes or scratches from previous shelving mounts.

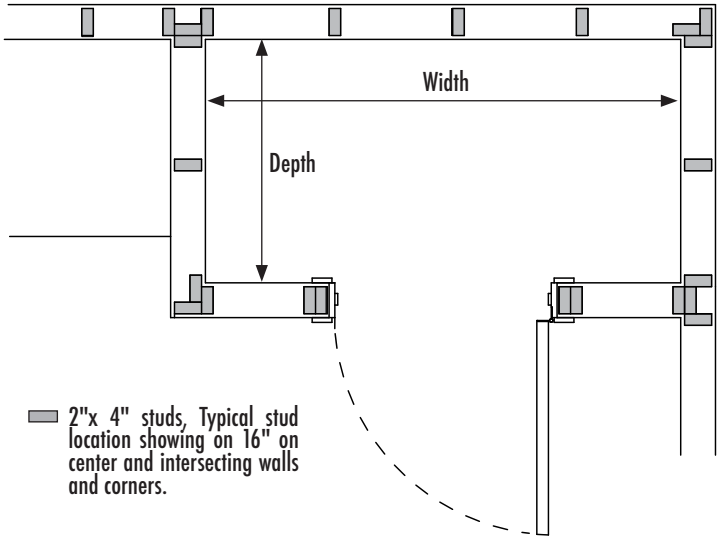
Paint as needed.

Step 2

Measure the width and depth of your pantry to determine the materials needed. Multiply that by the number of shelves being installed.

Tip - If you're fully customizing, think about how much space you'll need between each shelf for storage of all your food. A cereal box can be used as a guide.

(Sample Pantry Diagram)



Step 3

Sand down your boards so the paint or stain goes on evenly.

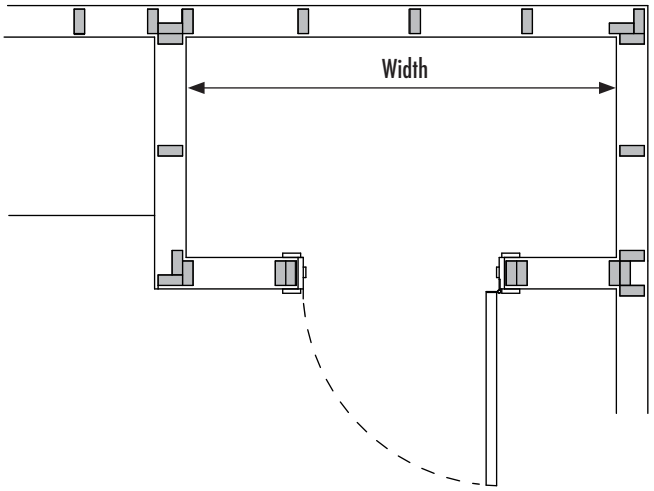
Paint or stain shelving boards, wall supports, and trim boards.

Tip - Before you get started, test your wood stain or paint on a spare piece of wood or on the underside of a shelf.

Step 4

Measure the width of the pantry at the location of where the shelf is to be installed. Dimensions may vary, so measure for each shelf location.

Use the following steps for shelf location.



Step 5





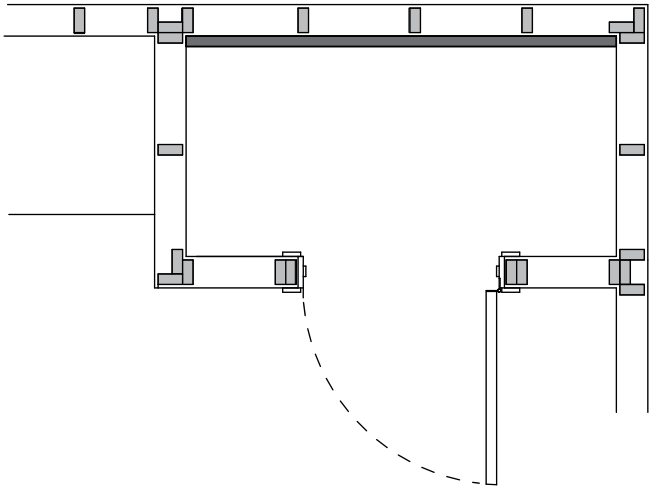
Cut 1″ x 2″ wall support boards to length.

Use the stud detector to locate the studs to mount boards on the back wall.

Use a level to adjust each shelf support then tack them in place with a couple 1-1/2″ brad nails.

Pre-drill each hole using 7/64″ drill bit. Then drill a countersink in each hole for a screw head.

Attach supports with 2-1/2″ wood screws.



Step 6

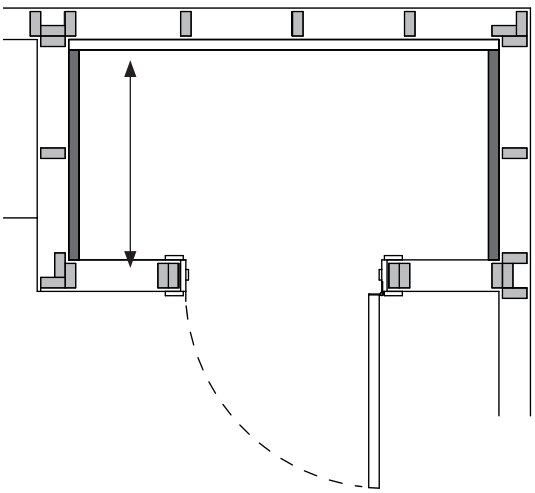


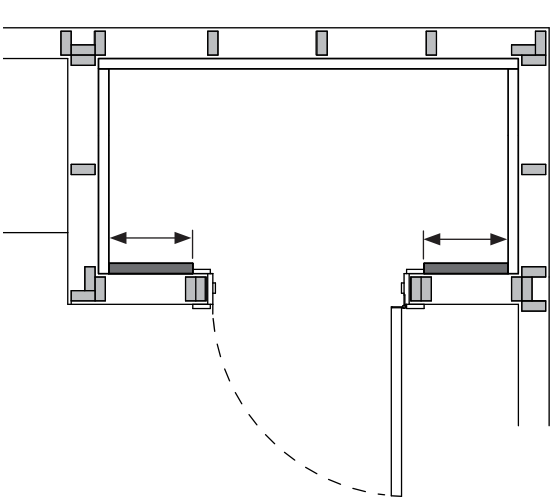



Measure the pantry sides to cut the side shelf supports.

Repeat Step 5 to attach 1″ x 2″ supports on both sides.

Align the side boards with back supports and keep them level.





Step 7

Measure the distances on each side of the door.

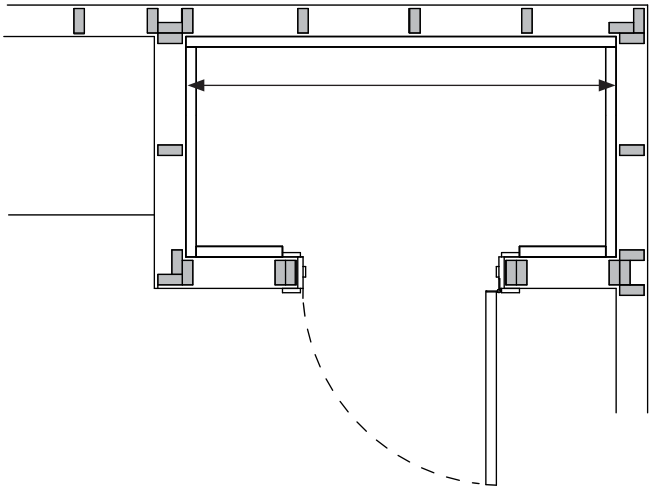
Repeat Step 5 to attach the 1″x 2″ supports on both sides.

This will leave supports longer than the depth of the shelves to attach to stud location. You can also use drywall anchors as an option. This will allow you to cut support boards shorter and match the shelf depth.

Touch up with paint if necessary.

Step 8

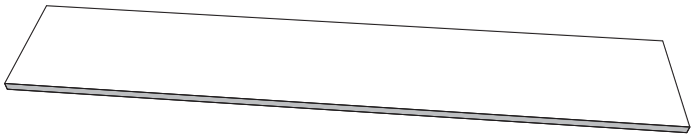
Double check measurements before cutting the back shelves.

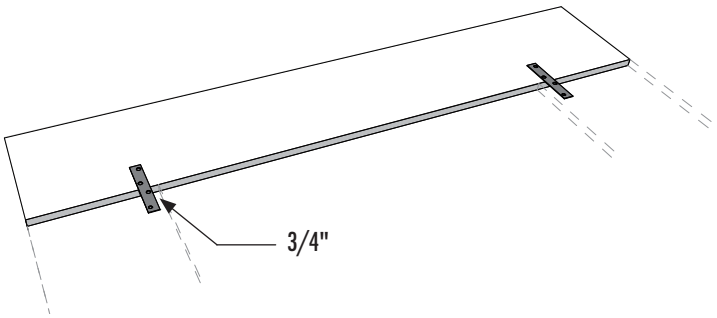


Step 9

After cutting the back shelves, lay them upside down. Place 6″ plates across half the board and leave 3/4" off the edge.

Attach with 5/8″ wood screws.



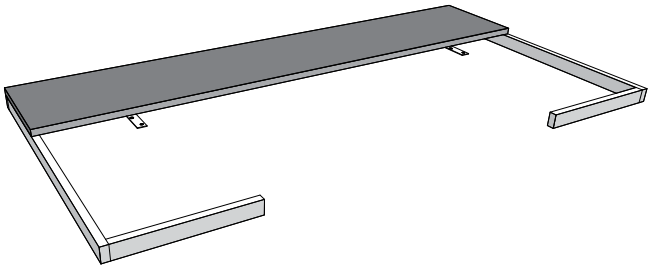


Step 10

Place back shelf on top of wall supports.

Attach by using 1-1/2" brad nails along the perimeter into the support boards.

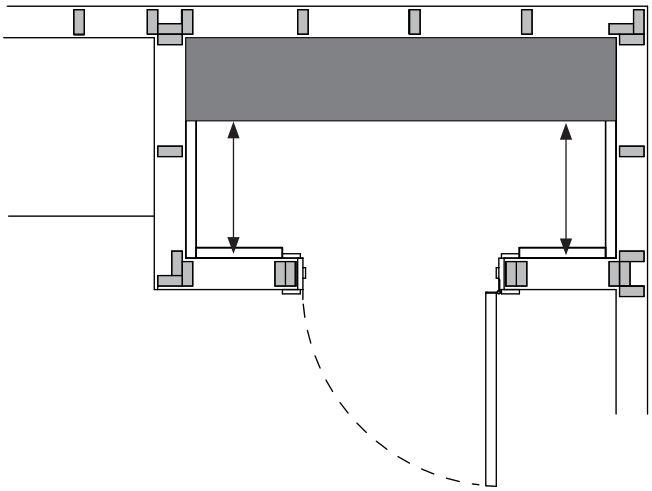
Do the same for each shelf.



Step 11

Measure the length of your side shelves from the wall inside the door way to the front of the back shelf.

Cut your shelves to the correct size.

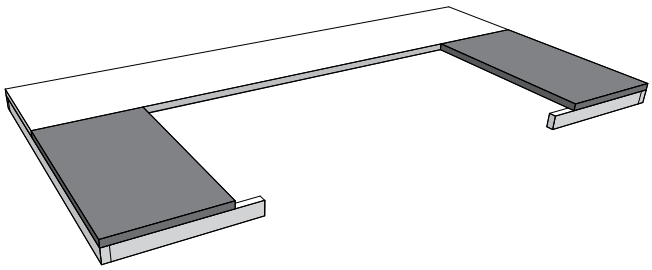


Step 12

Place the side shelf on top of the wall supports.

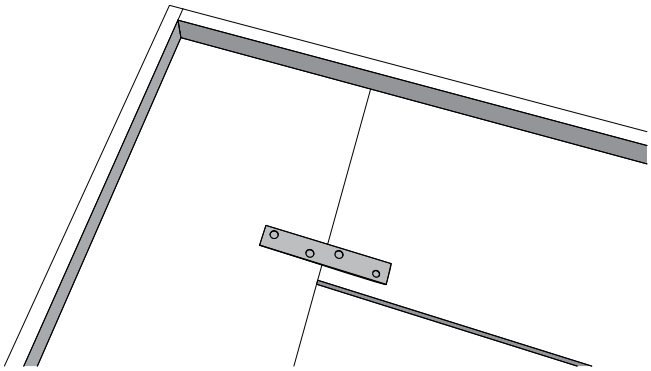
Attach by using 1-1/2" brad nails along the perimeter into the support boards.

Do the same for each shelf.



Step 13

On the underside of the shelves, finish attaching the plates with 5/8" wood screws.

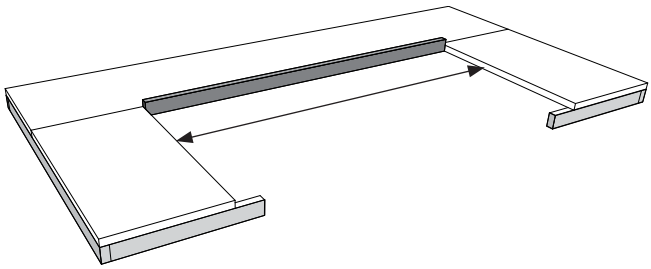


Step 14

Measure the distance between shelves.

Cut 1" x 2" trim board to length.

Attach with 1-1/2" brad nails.



Step 15

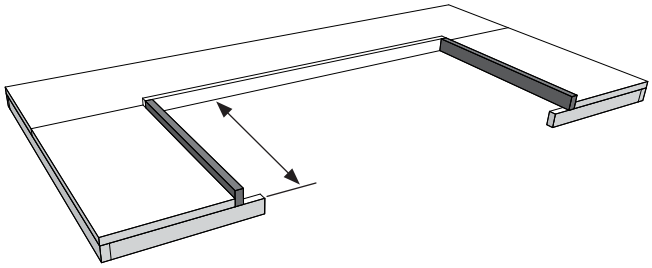
Measure the distance between the shelf and the wall.

Cut 1" x 2" trim board to length.

Attach with 1-1/2" brad nails.

Do the same for all shelves.

Touch up with paint as needed.



Step 16

Project complete!