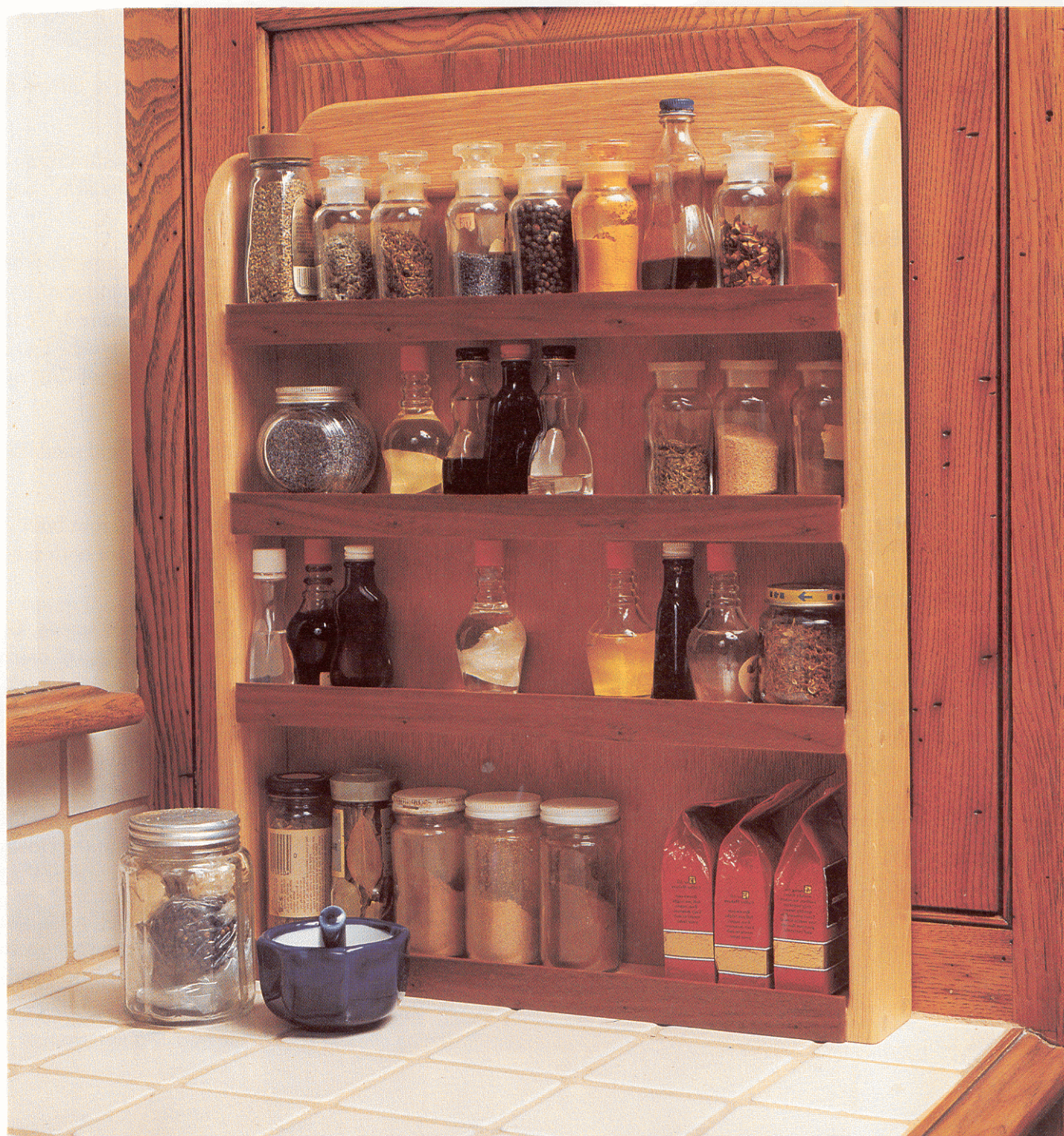


Spice Rack

The warm colors of its contrasting woods and the protective retaining lip at each shelf's edge distinguish this spice rack from many others. The completed project can be mounted on a wall or rested on a counter top, and you'll find that its shelves are wide enough to accept boxes and tins as well as standard-sized jars of spices.



Materials List

Walnut and white oak is recommended for this project.

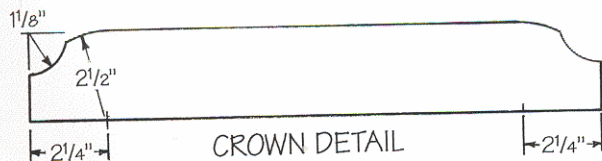
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|-----|-----------------------------|-----------------------------------|
| (4) | 1/4" x 1" x 16" | Walnut
retainer
strips |
| (2) | 3/4" x 2-1/2" x 16" | Oak
frame
base and
crown |
| (2) | 3/4" x 2-1/2" x 21" | Oak side
rails |
| (3) | 3/4" x 2-1/4" x 16" | Oak
shelves |
| (1) | 1/4" x 16-11/16" x 19-9/16" | Plywood
back |

Suggested Tools

3/8" drill
No. 8 pilot bit and countersink with stop collar
Router
1/4" roundover bit
1/2" straight bit
Tack hammer
Nail set
36" straightedge
No. 2 Phillips screwdriver
Jigsaw
Smooth file

Hardware & Supplies

No. 8 x 1" flathead wood screws
18-gauge x 3/4" brads
Spray lacquer



Construction Procedure

1. To create the decorative curve on the rack's crown, refer to the Crown Detail and to the following instructions. First, using two upper corners as centers, strike a 1-1/8" radius at each upper corner of one of the 2-1/2" x 16" oak pieces.

2. Then, on the same piece, measure 2-1/4" in from each end, and mark on the lower edge. Using these marked points as centers, strike two 2-1/2" radii to intersect with the 1-1/8" radii just made.

3. Use a jigsaw to cut the crown at the marked radii. Sand all its edges smooth.

4. Using a 1/4" roundover bit in the router, round the edges of all the radius cuts and the upper edge on one face. Then sand the crown well.

5. To round the upper outside corners of the 2-1/2" x 21" side rails, first measure and mark 1-7/8" down from one end of each rail. Measure 1-13/16" in from one edge, and mark to intersect the first line. Use that point on each piece to strike a 1-7/8" radius at the corner.

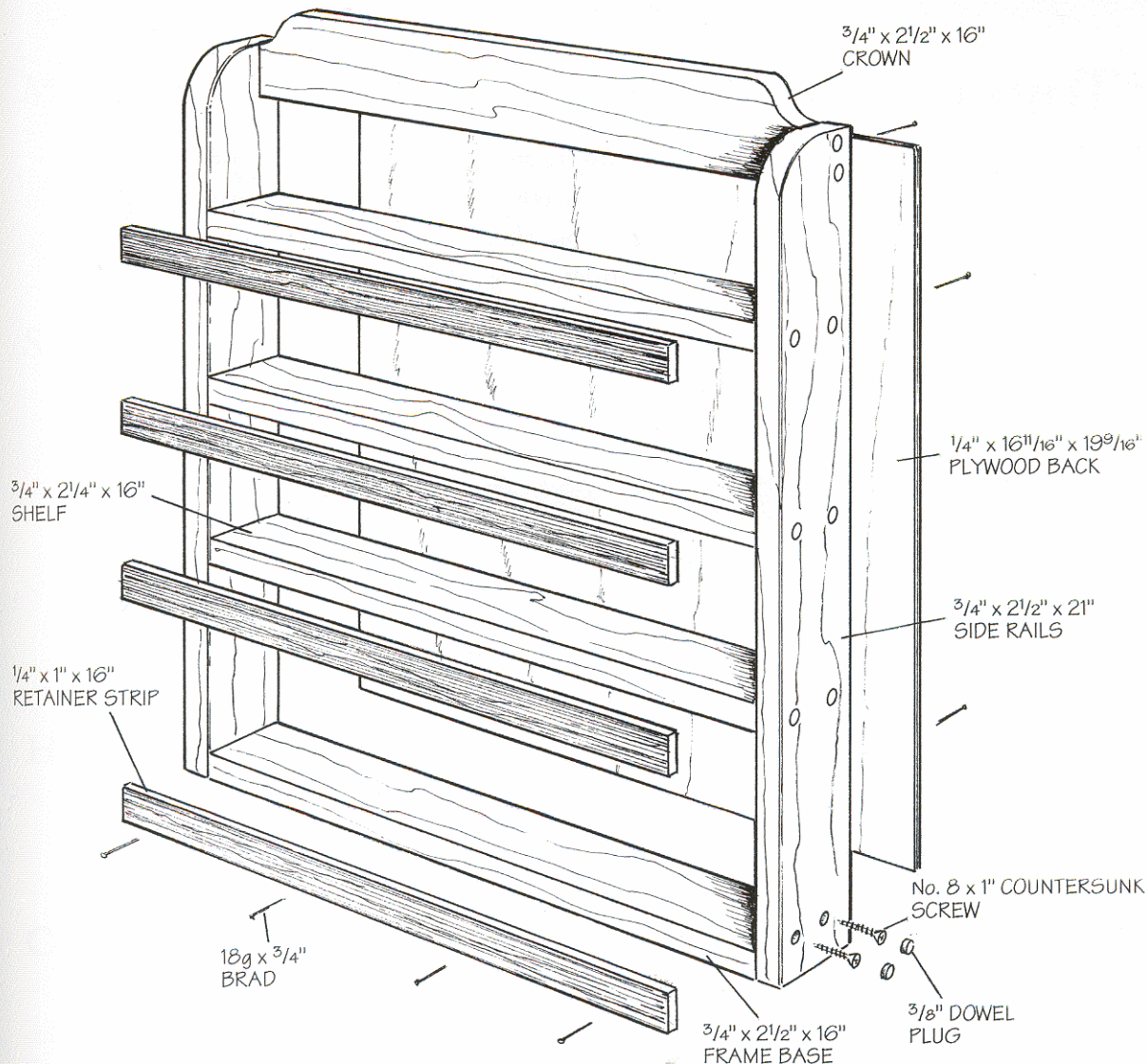
6. Cut both radii with a jigsaw, and sand the edges of both side rails smooth.

7. Use the 1/4" roundover bit to rout both the inside and outside of the front edges of both side rails. Sand both pieces of wood well.

8. With No. 8 x 1" flathead wood screws, fasten the side rails to the ends of the 2-1/2" x 16" oak frame base. Use the No. 8 pilot bit to drill holes 1-1/4" apart through the side rails' faces. Set the stop collar at 1-1/4".

9. Place the 2-1/2" x 16" crown at the top of the frame, flush with the sides' back edges; match the radius-cut ends. Secure the side rails to the crown as in Step 8, but space the screws vertically and 3/4" apart.

10. To locate positions for the 2-1/4" x 16" shelves, from the surface of the frame base, measure up and mark lines at the following distances on the inside of both side rails: 5-3/4", 11-1/4", and 16-3/4".



11. Fasten the three shelves so that their bottom surfaces are even with the lines marked on the side rails; their front edges should be flush with the side rails' front edges. Fasten them in place using the same method as before, spacing the screws 1-1/4" apart.

12. Use the 1/4" roundover bit to round all the inside and outside edges on the front of the rack, except for the edge of the frame base.

13. Turn the assembled frame over, with its back facing up. Switch to a 1/2" straight bit, and rout the inside edges at the back of the assembled frame to make a dado 3/8" wide and 1/4" deep all around. Use a smooth-cut file to round the corners of the plywood back; then test-fit the back into the routed recess. Remove the plywood back; then sand its edges.

14. Round the long face edges of the 1" x 16" walnut retainer strips with the 1/4" roundover bit. Round the ends with a smoothing file.

15. Fasten the strips to the shelves' edges with 3/4" brads spaced 5" apart; counterset the brads. A 1/4" lip should protrude above the surface of each shelf.

16. Fasten the back to the frame in the same manner.

17. Plug all the screw holes with 3/8" dowel plugs glued in place. Sand them flush with the surface of the wood.

18. Finish the project with several coats of spray lacquer.