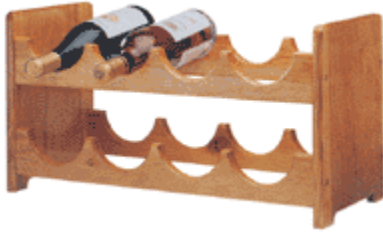


# **The Wine Rack and Adjustable Desktop Bookshelf**



### **Creating The Components**

Start by laying out the four rails on two pieces of stock (A) as shown in Fig 1. By following the procedure outlined here, you'll be able to get two rails from each piece of stock and save time in the process. Center four 4" diameter circles on the rail stock, leaving a 1/2" space between the circles. Use a hole saw, scroll saw or saber saw to cut out the circles.

Use your Drum Sander to smooth the insides of your circular cut-outs. Set up your table saw or bandsaw rip fence to a width of 2-1/2". Rip cut one 2-1/2" rail from the rail stock. Then turn the same piece of rail stock and rip the second rail from it. Repeat the procedure on the other piece of rail stock to get all four rails.

Cut the two ends (B), following the dimensions on the Bill of Materials. Use your bandsaw, scroll saw, saber saw or disc sander (with coarse paper) to form the 3/4" radii on both ends, as shown in Fig 2.

Next, using a router and a 1/4" round-over bit, shape all the edges of the rails (A), except for the ends. Use the same bit to shape all the edges of the ends (B), except the bottoms of the feet. Sand all pieces.

### **Assembly**

Locate the positions for the #8 x 1-1/4" flathead wood screws in the ends (B) as shown in Fig 2. Use your drill press to bore a 3/8" diameter x 1/4" deep counterbore at each location. Dry assemble the rack together as shown and clamp it temporarily together using bar clamps or pipe clamps. Use your portable electric drill to bore a 1/8" diameter pilot hole through the sides (B) at the same location and into the middle of the ends of each rail (A).

Assemble the rack using glue and #8 x 1-

1/4" flathead wood screws. Cover the screw heads using 3/8" diameter dowel plugs or buttons.

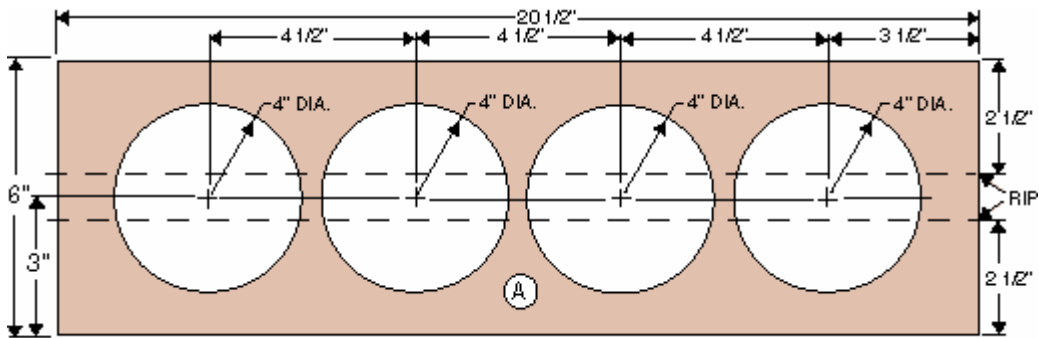


FIGURE 1

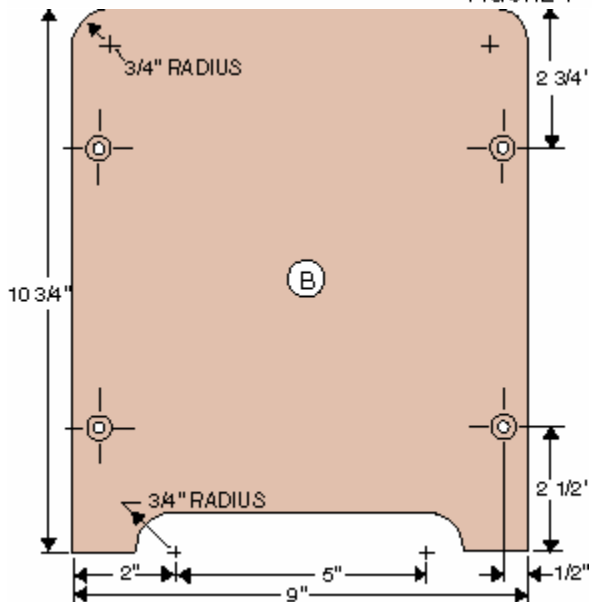


FIGURE 2

