MATERIALS

<table>
<thead>
<tr>
<th>Stock #</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>20568</td>
<td>Bubinga</td>
</tr>
<tr>
<td></td>
<td>1/4” x 3” x 24”</td>
</tr>
<tr>
<td>64885</td>
<td>Maple</td>
</tr>
<tr>
<td></td>
<td>1/4” x 1 1/2” x 24”</td>
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<tr>
<td>57033</td>
<td>Rockler Wireless Speaker Kit</td>
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<tr>
<td>59288</td>
<td>Rockler Router Table Spline Jig</td>
</tr>
<tr>
<td>90385</td>
<td>Straight 2-Flute Router Bit</td>
</tr>
<tr>
<td>51761</td>
<td>1-7/8” Forstner Bit</td>
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</tbody>
</table>

All items subject to changes in availability.
1. CUTTING THE DADOS

Cut the two grooves in the inside face of the stock that will become the sides, top, and bottom. Insert a ¼-in. dia. straight bit in the router table and set the bit height to ¼-in. Then position the fence ¼-in. away from the bit. Use feather boards to help keep the stock flat on the table and tight against the fence. Rout the two 1/4-in.-wide x 1/4-in.-deep grooves in the inside face of the stock.

2. CUTTING THE SIDES

Miter cut both ends of the side, top, and bottom pieces. Use a sacrificial fence to help support the stock and set up a stop block to ensure that each piece is cut 3-in. long. Label the four pieces sequentially to keep them in order for assembly. This will keep the grain aligned around each mitered corner.

3. DRILLING FRONT AND BACK

Cut front and back faces to 2–3/4-in. x 2–3/4-in. Secure the pieces with a clamp and then drill the speaker holes in the center of the front and back faces. Use a 1-7/8-in.-dia. forstner bit, spade bit, or hole saw to bore the holes.

4. ASSEMBLING THE BOX

Sand all of the parts smooth, then assemble the box. Place the sides, top and bottom pieces in order, face down on a piece of tape. Apply glue to the miters. Then place the front and back pieces in the dadoes in the first piece and gently roll the box sides together (inset). Make sure the front and back pieces fit into the dado in each piece. Use the tape to secure the box sides and then clamp the assembly with band clamps (inset).
5. CUTTING THE SPLINE SLOTS

After the box assembly glue up had dried, cut spline slots using a router table and spline cutting jig. The Rockler Router Table Spline Jig is secured in the router table miter slot. It features a sliding cradle that safely secures work piece and aligns it with the bit to cut consistent spline or key slots.

6. GLUING IN THE SPLINES

Insert the splines. Cut eight splines. The splines should fit snuggly in the spline slots. Apply glue to the splines and slide one into each slot.

7. DRILLING FRONT AND BACK

After the splines are dried, trim the splines flush with the box sides. Use a handsaw or band saw to trim the splines. Then sand the splines smooth with the sides. Apply finish to the box. We chose to spray on a few coats of lacquer, but you can use any finish you prefer.

8. INSTALLING THE SPEAKER COMPONENTS

These components will friction fit in the 1-7/8-in.-dia. holes. First install the front speaker with attached cables. Then connect the two cables to the back control part and install it in the back face.
MATERIAL LIST

1 Sides, Top and Bottom (4)  
T x W x L  
1/4” x 3” x 3”

2 Front and Back (2)  
T x W x L  
1/2” x 2 7/8” x 2 7/8”