Congratulations on the purchase of your new 6½” Bookshelf Speaker Kit! It contains the audio components necessary to wire two speakers. Just build your own custom speaker boxes and enjoy quality sound! Please read these instructions fully before building your boxes or wiring your speakers.
### Make Speaker Boxes

1. Build your speaker boxes out of MDF, particleboard, hardwood plywood or solid wood. For 3/4" material, the outside dimensions of the box should be 20" H x 9" W x 11" D. **Whatever the thickness of your material, the interior dimensions of the speaker box should be 18\(\frac{1}{2}\)" H x 7\(\frac{1}{2}\)" W x 9\(\frac{1}{2}\)" D.**

2. For each box, follow the Drilling Diagram carefully to locate and cut the openings for the Woofer (1), Tweeter (2), Terminal Cup (3) and Air Tube (10).

3. Apply the finish of your choice.

4. Using the Woofers (1), Tweeters(2) and Terminal Cups (3) as guides in their holes, mark and drill pilot holes for the #6 x 5/8" Mounting Screws (9). (Use a 3/32" bit for hardwood and a 1/16" bit for softwoods.)

5. Divide the Poly Fill (11) and secure half to the inside back face of each speaker box with glue or another adhesive. Spread the fill to avoid obstructing the openings in the back of the box.

### Parts List - 6\(\frac{1}{2}\)" Bookcase Speaker Kit

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 6(\frac{1}{2})&quot; USA Woofer</td>
<td>2</td>
</tr>
<tr>
<td>2 1&quot; Silk Dome Tweeter</td>
<td>2</td>
</tr>
<tr>
<td>3 Terminal Cup</td>
<td>2</td>
</tr>
<tr>
<td>4 6' Speaker Wire</td>
<td>2</td>
</tr>
<tr>
<td>5 Capacitor</td>
<td>2</td>
</tr>
<tr>
<td>6 Butt Connector</td>
<td>2</td>
</tr>
<tr>
<td>7 Small Terminal Clip</td>
<td>2</td>
</tr>
<tr>
<td>8 Large Terminal Clip</td>
<td>10</td>
</tr>
<tr>
<td>9 #6x5/8&quot; Mounting Screws (Not Shown)</td>
<td>22</td>
</tr>
<tr>
<td>10 Air Tube</td>
<td>2</td>
</tr>
<tr>
<td>11 Poly Fill</td>
<td>1</td>
</tr>
</tbody>
</table>
Drilling Diagram

Wiring the Speakers

Note: To ensure strong connections, we recommend using a crimping tool where wires feed into the Terminal Clips (7 and 8) and Butt Connector (6). Fig. 1.

1. Cut the 6' Speaker Wire (4) into four equal sections and split the ends.

2. Using electrician's pliers or a wire stripper, remove about 1/2" of the plastic sheath at the ends of the wires.

3. For each speaker, carefully follow the Wiring Diagram on Page 4 to connect one section of Speaker Wire (4) to the Woofer (1) and one to the Tweeter (2).

   A. The red-striped wires should be connected to positive (+) terminals and the unmarked wires to negative (-) terminals.

   B. To make the connections, you will feed the wires into Terminal Clips (7 and 8) and use a crimping tool to join the two. The Terminal Clips (7 and 8) then slide onto tabs on the speaker components. Use Large Terminal Clip (8) for both wires to the Woofer (1) and for the positive wire to the Tweeter (2). Use a Small Terminal Clip (7) for the negative wire to the Tweeter (2).

4. Using the #6 x 5/8" screws (9), mount the Woofer (1) and Tweeter (2) to the speaker box. Feed the wires through the opening for the Terminal Cup (3) in the back of the box.

5. Insert the positive wire coming from the Tweeter (2) into one end of the Butt Connector (6) and crimp to join. Double over the wire at one end of the Capacitor (5), insert it into the other end of the Butt Connector (6) and crimp to join. Fig. 2.

6. Carefully following the Wiring Diagram, connect the wires from the Woofer (1) and Tweeter (2) to the Terminal Cup (3).

   A. Feed the negative wires coming from the Woofer (1) and Tweeter (2) into a Large Terminal Clip (8) and crimp to join. Slide the Large Terminal Clip (8) onto the negative tab on the Terminal Cup (3).

   B. Feed the positive wire from the Woofer (1) and the single wire from the Capacitor (5) into a Large Terminal Clip (8) and crimp to join. Slide the Large Terminal Clip (8) onto the positive tab on the Terminal Cup (3).

7. Using the #6 x 5/8" screws (9), mount the Terminal Cup (3) to the speaker box.

8. Install the Air Tube (10) in its mounting hole.

Check Rockler.com for updates. If you have further questions, please contact our Technical Support Department at 1-800-260-9663 or support@rockler.com
Wiring Diagram

- Tweeter (2)
- Large Terminal Clip (8)
-终端杯 (3)
- Large Terminal Clip (8)
- Capacitor (5)
- Butt Connector (6)
- Large Terminal Clip (8)
- Negative terminal is the smaller of the 2 ports
- Large Terminal Clip (8)
- Positive terminal has a red dot to the right of it

CUSTOMIZE YOUR SPEAKERS FURTHER!

Black 36" x 68" Speaker Cloth...17899
Beige 36" x 68" Speaker Cloth...17906
Speaker Panel Connectors........12500
Speaker Baffle Cover Sheet......31027
Screw-On Case Feet...............18673