Congratulations on your purchase of the Library Ladder Hardware Kit! These instructions will guide you through the process of building a 7-step (8 foot) ladder. Familiarity with the instructions will make the process easier to understand and more enjoyable.
Wooden Step Ladder

3/8" Diameter

1/8"

Note: If attaching the optional aluminum spindle drill a 7/16" diameter hole instead.
7 Step (8 Foot) Ladder Plan

1. Cut Ladder Rails (1 and 2) to size. Shape edges to a 3/4” radius bullnose. Cut dadoes, 3/4” wide x 1/8” deep. Drill for #10 screws, cap nuts and spindle.

2. Cut the Steps (3) to size. Bullnose front and back edges.

3. Prepare or turn Wood Spindle (4) or purchase the optional Aluminum Decorative Spindle (5).

4. Mask dadoes and ends of steps (glue surfaces) for finishing process.

5. Finish ladder components with stain and three coats of clear finish, sanding between coats.

Reference the Track Height and Ladder Rail Length Diagram on page 7 for taller ladders.
Cast Metal Step Ladder

1. Rail End View

- 3/4" Bullnose
- 3/4" stock flat cut

2. Dimensions

- 18 3/16"
- 9 12°
- 3 1/2" 3/16" stock
- 10 3/4" 12°
- 9 9 1/16"
- 11 3/4"
- 3/4"
- 3/4"
- 3/8" Diameter
- 12 3/8" 2 3/8" 3 3/4" 102°
- 9 9 3/4"
- 3/4" 2 1/16" 3/4" 102°

3. 95 5/8"

4. 11 3/4"
7 Step (8 Foot) Ladder Plan

1. Cut Ladder Rails (1 and 2) to size and shape edges to a 3/4" radius bullnose.

2. Drill 3/8" holes according to plan for mounting the Cast Steps (6). Drill a 7/16" hole for mounting the Aluminum Decorative Spindle (5).

3. Finish ladder components with stain and three coats of clear finish, sanding between coats.

Reference the Track Height and Ladder Rail Length Diagram on page 7 for taller ladders

<table>
<thead>
<tr>
<th>PARTS LIST - 8' CAST STEP LADDER</th>
<th>T x W x L</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Left Ladder Rail - Wood</td>
<td>3/4&quot; x 3½&quot; x 95½&quot;</td>
<td>1</td>
</tr>
<tr>
<td>2. Right Ladder Rail - Wood</td>
<td>3/4&quot; x 3½&quot; x 95½&quot;</td>
<td>1</td>
</tr>
<tr>
<td>5. Aluminum Decorative Spindle</td>
<td>1½&quot; Diameter x 16½&quot;</td>
<td>1</td>
</tr>
<tr>
<td>6. Cast Step</td>
<td>3/4&quot; x 4½&quot; x 14½&quot;</td>
<td>7</td>
</tr>
<tr>
<td>7. Connector Bolts</td>
<td>1/4&quot;-20 x 3/4&quot;</td>
<td>30</td>
</tr>
<tr>
<td>8. Cap Nut (7/8&quot; long barrel)</td>
<td>1/4&quot;-20</td>
<td>28</td>
</tr>
</tbody>
</table>
**Ladder Track Installation**

1. Mount Track Brackets (17) with Pan Head Screws (20) to a secure fixture (bookcase, cabinet, wall, etc.) Space brackets every 32-36 inches along track. Reference the track height diagram on page 7.

2. Measure the width of your fixture to determine the amount of 6’ tracks (21) needed. Use Track Unions (19) to connect tracks together. Space Track Unions (19) as to not interfere with Track Brackets (17). Track should extend 1 1/8” beyond outer Track Brackets (17) for Track End Caps (18) to fit properly. Fig. 1.
   **Note:** For applications wider than 6’, you will need additional sections of 6’ track. In the event you need to shorten any length of track, divide all tracks evenly for best results, e.g., for a 16’ run, order three 6’ tracks and cut all to 5’4”.

3. Assemble Track (21) to Track Brackets (17) and install Track End Caps (18).
   **Note:** The brackets are tight fitting, a rubber mallet and block of wood may be required to attach.

**Wooden Step Ladder Assembly**

1. Begin ladder assembly. Glue the Wood Spindle (4) and Wooden Steps (3) into place. Add #10 x 2 1/2” Washer Head Screws (13) for steps. Start with one rail at time. 7/64” pilot holes are recommended to minimize binding or splitting.

2. Attach Step Rods (11) and Cap Nuts (12). Fig. 2.

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**PARTS LIST - LADDER HARDWARE**

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 Hook Bracket Assembly</td>
<td>2</td>
</tr>
<tr>
<td>10 Wheel Assembly</td>
<td>2</td>
</tr>
<tr>
<td>11 Step Rod</td>
<td>7</td>
</tr>
<tr>
<td>12 Cap Nuts (5/8” long barrel)</td>
<td>14</td>
</tr>
<tr>
<td>13 #10 x 2 1/2” Washer Head Screws</td>
<td>28</td>
</tr>
<tr>
<td>14 #14 x 3/4” Pan Head Screws</td>
<td>2</td>
</tr>
<tr>
<td>15 1/4-20 x 35mm Connector Bolts</td>
<td>6</td>
</tr>
<tr>
<td>16 1/4-20 Acorn nuts</td>
<td>6</td>
</tr>
</tbody>
</table>
3. Drill holes and install Hook Bracket Assemblies (9) to Ladder Rails (1 and 2) using Connector Bolts (15) and Acorn Nuts (16). Center components between Aluminum Decorative Spindle (4). Fig. 3.

4. Dry fit Wheel Assemblies (10) to ladder. Attach ladder to track and place in the climbing position (steps parallel to the floor). Adjust Wheel Assemblies (10) vertical to the floor. Fig. 4. Drill and attach Connector Bolts (15) and Acorn Nuts (16) for top of Wheel Assembly (10). Bottom attaches with a 9/64" pilot hole and a Pan Head Screw (14).

Note: For added strength and design, install Step Brackets (42128, sold separately). Install 2 per step.

**Cast Metal Step Ladder Assembly**

1. Begin Ladder Assembly. Attach Aluminum Decorative Spindle (5) and Cast Steps (6) to just one rail using Cap Nuts (8) and Connector Bolts (7). Fit the second rail on to the assembled side and attach the rung and cast steps using Cap Nuts and Connector Bolts (7). Fig. 5.

2. Drill holes and install Hook Bracket Assemblies (9) to Ladder Rails (1 and 2) using Connector Bolts (15) and Acorn Nuts (16). Center components between the Aluminum Decorative Spindle (4). Fig. 3.

3. Dry fit Wheel Assemblies (10) to ladder. Attach ladder to track and place in the climbing position (steps parallel to the floor). Adjust Wheel Assemblies (10) vertical to the floor. Fig. 4. Drill and attach Connector Bolts (15) and Acorn Nuts (16) for top of Wheel Assembly (10). Bottom attaches with a 9/64" pilot hole and a Pan Head Screw (14).

**Note:** Step Rods (11), Cap Nuts (12) and Washer Head Screws (13) will not be used for Cast Step Ladders.

<table>
<thead>
<tr>
<th>PARTS LIST - Ladder Hardware</th>
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<tbody>
<tr>
<td><strong>Quantity</strong></td>
</tr>
<tr>
<td>17 Track Bracket*</td>
</tr>
<tr>
<td>18 Track End Cap*</td>
</tr>
<tr>
<td>19 Track Union*</td>
</tr>
<tr>
<td>20 #12 x 1½&quot; Pan Head Screws*</td>
</tr>
<tr>
<td>21 6' Track* (Not Shown)</td>
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</tbody>
</table>

* not included in kit
Making a 9', 10', or Taller Ladder

Good news – it’s easy!
Here’s how to increase the height of your ladder beyond 8’ in one foot increments: Simply add 11¾" to the length of your ladder rails and build one more step into the ladder structure for each additional foot of height you would like your ladder to reach.

Attention Rockler Plan User
Before starting, please read the plan completely. Check Rockler.com for updates that may not be included on this copy.
If you have further questions, please contact our Technical Support Department, 1-800-260-9663 or support@rockler.com