GENERAL SAFETY WARNINGS

This product is designed only for specific applications as defined in the instructions and should not be modified or used for any manner not described in these instructions. Use only recommended accessories. Before using the Adjustable Full Vertical Bed: **READ, UNDERSTAND** and **FOLLOW ALL INSTRUCTIONS AND SAFETY WARNINGS. KEEP THESE INSTRUCTIONS READILY AVAILABLE FOR FUTURE REFERENCE.**

> Always confirm that you are using the most recent version of the Instructions and safety warnings for your product (see the Instructions link on the product page at Rockler.com).

> Before using another tool with this product, always read, understand and follow the instructions and safety warnings in the owner’s manual for that tool. If you do not have the owner’s manual, obtain one from the tool’s manufacturer before using it with this product.

> Before using any chemical with this product, always read, understand and follow all safety warnings and guidelines in the manufacturer’s Safety Data Sheet (SDS; formerly called “MSDS”), especially regarding:
  * How to safely use the chemical, including potential hazards and recommended first aid measures;
  * Personal safety equipment required to safely use the chemical (e.g. gloves, eye protection, mask/respirator, etc.);
  * Proper and safe handling, storage and disposal of the chemical.

> Before using this product, review and verify that all tools to be used with it have safety equipment installed and are in proper working order as defined by the tool’s owner’s manual.

> Do not use this product until you have read and are confident you understand:
  * Product Specific Safety Warnings (p. 4);
  * Elevation Drawings (p. 5);
  * Bed Cabinet Materials (p. 6);
  * Bed Cabinet Cut List (p. 7);
  * Parts List (pp. 8-9);
  * Build the Inner Bed Frame (p. 10);
  * Install the Pivoting Leg Hardware (pp. 10-11);
  * Install the Lower Ball Stud Plates and Female Pivot Plates (p. 11);
  * Attach Head, Foot and Side Rails to Frame (p. 12);
  * Attach the Face Panels (pp. 12-13);
  * Prep the Bed Cabinet Verticals and Bed Headboard (p. 13);
  * Install the Bed Stops on the Bed Cabinet Verticals (p. 13);
  * Install the Upper Ball Stud Plates on the Bed Cabinet Verticals (p. 14);
  * Install the Male Pivot Plates on the Bed Cabinet Verticals (p. 14);
  * Build the Top Header Assembly (p. 15);
  * Apply Finish Before Installation (p. 15);
  * Get Set Up at Installation Site (p. 15);
  * Establish Initial Ball Stud Plate Settings (p. 15);
  * Install Mattress Support Panels and Retaining Straps (p. 16);
  * Attach the Bed Cabinet Verticals and the Bed Headboard (p. 16);
  * Attach the Top Header Assembly to the Cabinet Verticals (p. 17);
  * Install the Gas Springs (pp. 18);
  * Mount the Bed Cabinet to the Wall (pp. 18 - 20);
  * Install Mattress and Fine-Tune Ball Stud Plate Settings (p. 20).

> The user assumes all risk and responsibility for the proper and safe use of this product and for ensuring product suitability for the intended application.

> It is the sole responsibility of the purchaser of this product to ensure that anyone you allow to use this product reads and complies with all instructions and safety precautions outlined in this manual prior to use.

> Follow all standard shop safety practices, including:
  * Keep children and bystanders away from the tool operating area;
  * Do **NOT** use power tools in explosive environments, or in the presence of flammable liquids, fumes or dust;
  * **TURN OFF AND UNPLUG** all power tools **BEFORE** making any adjustments or changing accessories;
  * Remain alert and use good judgment. Do not use this product if you are in any way impaired by medications, alcohol, drugs or fatigue;
  * Keep your work area well lit and clean;
  * Dress appropriately. Secure loose clothing, remove all jewelry and tie up long hair before using this product;
  * **ALWAYS** wear safety glasses, hearing protection and respiratory protection that complies with NIOSH/OSHA/ANSI safety standards;
  * Use dust collection tools and dust face masks to reduce exposure to dust;
  * Use safety equipment such as featherboards, push sticks and push blocks, etc., when appropriate;
  * Maintain proper footing at all times and do not overreach;
  * Do **NOT** force woodworking tools.

> These warnings and instructions do **NOT** represent the total of all information available regarding tool safety, use and technique. Always seek out opportunities to learn more and improve your skills and knowledge.

⚠️ **WARNING:** Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known of the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.
SAFETY WARNING KEY

⚠️ DANGER: Danger indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠️ WARNING: Warning indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠️ CAUTION: Caution indicates a hazardous situation that, if not avoided, may result in minor or moderate injury or property damage.

☁️ NOTICE: Notice indicates important or helpful information and/or user tips.
**PRODUCT SPECIFIC SAFETY WARNINGS**

**DANGER**

> To avoid serious injury, keep hands and fingers away from the spinning router bit. Maintain awareness of the bit at all times.

**WARNING**

> **TO AVOID THE RISK OF SERIOUS INJURY, DO NOT ALLOW CHILDREN TO PLAY ON THE BED UNIT OR OPERATE IT WITHOUT ADULT SUPERVISION.**

> **IN CONSTRUCTING YOUR BED UNIT, DO NOT DEVIATE FROM THESE INSTRUCTIONS.** If you want to make any modifications, first call 1-877-966-3852. Unapproved modifications will void your warranty, might cause your bed unit to not work correctly, and could result in serious injury during use.

> **You MUST have another ADULT help you while installing your wall bed unit to make sure the bed doesn’t close inadvertently while you are working. Failure to do so increases the risk of serious injury.**

> **The components of this wall bed unit operate with stored mechanical energy, which can cause serious injury if mishandled. TO REDUCE THE RISK OF INJURY, THE BED UNIT MUST BE CORRECTLY AND SECURELY ANCHORED TO THE WALL, WITH THE CORRECT FASTENERS FOR THE TYPE OF WALL, AS SPECIFIED IN THESE INSTRUCTIONS.**

> To reduce the risk of serious injury, do **NOT** attempt to lower the bed frame assembly until the bed cabinet has been securely attached to the wall.

> **The placement of fasteners in images in these instructions is for illustration purposes only. To avoid the risk of serious injury, you must correctly place and securely attach fasteners in your wall.**

> **The Right and Left Side Rails (C and D) MUST be made with 3/4" plywood (nominal thickness) because of the stress placed on these parts and the need for greater strength and structural integrity.**

> **The Top Header Rear Rail (L) MUST be attached securely to the Top Header with glue and #8 x 2" Coarse-Thread Screws. Failure to securely attach the Top Header Rear Rail to the Top Header increases the chance that the bed cabinet could detach and tip over, potentially resulting in serious injury.**

> **The bed will not stay down without the weight of a mattress. Operating the bed mechanism without a mattress in place increases the risk of sudden closing, entrapment and serious personal injury.**

> **Do NOT use drywall anchors.**

> **Do NOT use an impact driver to drive fasteners; the added torque increases the risk of stripping the pilot holes and weakening connections. Do NOT overtighten screws.**

> **Do NOT deviate from the required interior cabinet opening dimensions listed for the bed size you will be building. An improperly sized bed cabinet could create a safety hazard and result in serious personal injury.**

> **Do NOT construct the cabinet from MDF, particleboard or melamine-coated MDF or particleboard. The decreased screw-holding ability of these materials increases the risk of cabinet joint failure and serious personal injury.**

> **Mattress dimensions MUST NOT exceed 39" x 75" x 12" thick, including pillowtop. Mattress MUST NOT weigh less than 35 lbs. or more than 50 lbs. Do NOT use a foam or very light mattress with this product.**

> **Turn off and unplug your router before installing the bit or adjusting the cutter height.**

**CAUTION**

> **Do NOT overtighten the Ball Studs in the Upper Ball Stud Plates.**

> **To prevent damage to the pivoting leg assembly, make sure it is in the closed position when rotating the Cabinet Verticals and Headboard to the upright position during assembly.**

> **Be sure to properly orient the Gas Springs by noting the location of the labels reading, “Mount this end up.”**
Elevation Drawings

Side View

Front View

Dimensions:
- 83" length
- 59 7/8" width
- 15 7/8" depth

82 1/4" height
The Right and Left Side Rails (C and D) **MUST** be made with 3/4" plywood (nominal thickness) because of the stress placed on these parts and the need for greater strength and structural integrity.
### Bed Cabinet Cut List

<table>
<thead>
<tr>
<th>Material</th>
<th>T x W x L</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; Plywood</td>
<td>3/4&quot; x 4' x 8'</td>
<td>4</td>
</tr>
<tr>
<td>1/4&quot; Plywood</td>
<td>1/4&quot; x 4' x 8'</td>
<td>2</td>
</tr>
<tr>
<td>6' Hardwood</td>
<td>1&quot; x 2&quot; x 6'</td>
<td>11</td>
</tr>
<tr>
<td>8' Hardwood</td>
<td>1&quot; x 2&quot; x 8'</td>
<td>2</td>
</tr>
</tbody>
</table>

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### Diagram

- **1/4" Plywood**
  - N
- **3/4" Plywood**
  - F
  - E
  - K
  - L
- **8' Hardwood**
  - B
  - G
  - M
  - O
  - N
- **6' Hardwood**
  - H
  - J
  - C
  - D

6' Hardwood - Must match species of plywood

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**Note:** The diagram includes representations of the materials and their dimensions, with labels for each component.
## Bed Cabinet Parts List

<table>
<thead>
<tr>
<th></th>
<th>Qty.</th>
<th></th>
<th>Qty.</th>
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<tr>
<td>1</td>
<td>Right Metal Pivoting Leg</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>2</td>
<td>Left Metal Pivoting Leg</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>#10 x 3/4” Black Screw</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>4</td>
<td>T-Nut</td>
<td>16</td>
<td>14</td>
</tr>
<tr>
<td>5</td>
<td>Machine Screw</td>
<td>16</td>
<td>15</td>
</tr>
<tr>
<td>6</td>
<td>1/4” x 2” Hex-drive Leg Support Rail Screw</td>
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<tr>
<td>7</td>
<td>Right Lower Ball Stud Plate</td>
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<td>17</td>
</tr>
<tr>
<td>8</td>
<td>Left Lower Ball Stud Plate</td>
<td>1</td>
<td>18</td>
</tr>
<tr>
<td>9</td>
<td>#10 x 1 1/8” Screw</td>
<td>4</td>
<td>19</td>
</tr>
<tr>
<td>10</td>
<td>Female Pivot Plate</td>
<td>2</td>
<td>20</td>
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### Other Required Materials

<table>
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<th>Item</th>
<th>Qty.</th>
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</thead>
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<td>Veneer Edge Banding</td>
<td>13/16&quot; x 75'</td>
</tr>
<tr>
<td>Wood Glue</td>
<td>8 oz. bottle</td>
</tr>
<tr>
<td>3d x 1/4&quot; Finish Nails</td>
<td>1 box</td>
</tr>
<tr>
<td>4d x 1/2&quot; Finish Nails</td>
<td>1 box</td>
</tr>
<tr>
<td>6d x 2&quot; Finish Nails</td>
<td>1 box</td>
</tr>
<tr>
<td>#8 x 1/4&quot; Coarse-thread Screws</td>
<td>100</td>
</tr>
<tr>
<td>#8 x 1/2&quot; Coarse-thread Screws</td>
<td>30</td>
</tr>
<tr>
<td>#8 x 2&quot; Coarse-thread Screws</td>
<td>40</td>
</tr>
</tbody>
</table>

### Required Tools

- Handheld power drill
- 1/8" diameter drill bit
- 3/16" diameter drill bit
- 1/4" diameter drill bit
- 5/16" diameter drill bit
- 5/8" Forstner bit
- 3/4" Forstner bit
- 1" Forstner bit
- Power saw, table saw or circular saw
- Jigsaw or coping saw
- Phillips-head and flathead screwdrivers or driver bits for drill
- Tape measure
- #4 hex wrench
- Hammer
- Chisel
- Clamps
- Straightedge or framing square
- Household iron (for veneer tape)
- Utility knife
- 7/16" socket, wrench or driver
- 1/2" wrench
- Stud finder
Build the Inner Bed Frame

1. Cut the Inner Frame Strut Pieces (A) to size and organize them into pairs.

2. For each pair, lay one piece flat on its face and the other on its long edge. Apply wood glue to the inside edge of the piece lying flat; then bring the pieces together to form an "L" shape and make sure the ends are flush. Drill and countersink 1/8" pilot holes about 8" apart and join the pieces with #8 x 1½" coarse-thread screws. Make five Frame Strut assemblies.

3. Position the Frame Strut assemblies between the Inner Frame Sides (B) and space them 18 3/4" apart. Drill and countersink 1/8" pilot holes through the Inner Frame Sides into each end of the Frame Strut assemblies and attach with #8 x 2" coarse-thread screws. Drive the screws so the heads are flush with the surface.

Install the Pivoting Leg Hardware

1. Cut the Side Rails (C and D) to size. Mark the radius on the top front edges of both Side Rails, as well as the locations of the 5/8" holes on the Side Rails' inside faces. Shop Drawings.

2. Cut the rounded corners with a jigsaw and sand smooth. Apply veneer edge banding along the top edges and rounded ends of the Side Rails (C and D). Also apply edge banding to the top edges of the Head Rail (E) and the Foot Rail (F). Trim excess.

3. Drill the 5/8" diameter holes 1/2" deep on the inside faces of the Side Rails (C and D). Fig. 2.

4. Position the Right Metal Pivoting Leg (1) in place on inside face of the Right Side Rail (C), inserting the pivot in the hole you just drilled. Make sure the pivot plate is square to the edges of the Side Rail; then mark the locations of the bottom two screw holes.

5. Remove the Right Metal Pivoting Leg (1) and drill 1/4" diameter through holes at the two locations you just marked, using a backer board to avoid tear-out.

6. From the outside face of the Right Side Rail (C), insert two T-Nuts (4) in the two 1/4" holes. Align the holes in the plate of the Right Metal Pivoting Leg (1) with the holes in the Side Rail and secure with Machine Screws (5) threaded into the T-Nuts. Drive #10 x 3/4" Black Screws (3) in the remaining holes in each plate. Fig. 2.
7. Repeat Steps 4-6 for the Left Metal Pivoting Leg (2) and Left Side Rail (D).

8. Locate the center on each end of the solid-wood Leg Support Rail (O) by drawing diagonal lines from corner to corner. Drill a 1/4" diameter hole 1 1/2" deep centered on the “X” at each end. Don’t attach the rail to the Metal Pivoting Legs (1 and 2) at this time; wait until the piece has been finished.

9. Remove the Right and Left Metal Pivoting Legs (1 and 2) to allow easy finishing of the Side Rails (C and D).

**Install the Lower Ball Stud Plates and Female Pivot Plates**

1. Mark and drill 1" diameter through holes for the Female Pivot Plates (10) toward the back of the Right and Left Side Rails (C and D) at the location specified on the Shop Drawing. Use a backer board to avoid tear-out.

2. Position the Right Lower Ball Stud Plate (7) on the Right Side Rail (C) so that the channel rests on top of the rail, with the plate on the outside and the hex adjustment head facing the front end of the rail. Align the back edge of the Right Adjustable Lower Plate with the back end of the Side Rail and mark the front two hole locations. Fig. 3.

3. Drill 1/4" diameter through holes at the two marked locations. Insert two T-Nuts (4) into the holes from the inside face of the Right Side Rail (C). Attach the Right Lower Ball Stud Plate (7) to the Right Side Rail with two Machine Screws (5) threaded through the Plate into the T-Nuts. Fig. 3.

4. Repeat Steps 3 and 4 to mount the Left Lower Ball Stud Plate (8) on the Left Side Rail (D).

5. On the inside of each Side Rail (C and D), position a Female Pivot Plate (10) with the pivot in the 1" through hole. Use a square to align the plate; then mark screw locations. Drill stopped pilot holes and attach each Female Pivot Plate with four #12 x 3/4" Silver Screws (14). Fig. 4.
Attach Head, Foot and Side Rails to Frame

1. Position the Foot Rail (F) against the foot end of the inner frame, making sure that the bottom edges are aligned and that the ends of the Foot Rail are flush with the Inner Frame Sides (B). Fig. 5.

2. Drill five evenly spaced 1/8" pilot holes through the Inner Frame Strut (A) and into the inside face of the Foot Rail (F), being careful not to drill all the way through the Foot Rail. Attach with #8 x 1¾" Coarse-Thread Screws.

3. Repeat Steps 1 and 2 for the Head Rail (E).

4. Position the left and right Side Rails (C and D) against the Inner Frame Sides (B) so that the Female Pivot Plates (10) are on the inside. Make sure that the front, back and bottom edges of the Side Rails are flush with the frame. From the inside, drill eight 1/8" pilot holes (two between each Frame Strut) through the frame and into each Side Rail (C and D). Attach with 1¾" Coarse-Thread Screws (44). Fig. 5.

5. Drill two 1/8" diameter pilot holes through the outside face of each Side Rail (C and D) into the Foot Rail (F). Attach by driving #8 x 2" Coarse-Thread Screws flush to the surface. Fig. 5.

6. Use the two unused screw holes toward the back of the Right and Left Lower Ball Stud Plates (7 and 8) as a guide to drill 1/8" diameter pilot holes through each Side Rail (C and D) into the Head Rail (E). Also drill a third 1/8" diameter pilot hole toward the bottom of each Side Rail into the Head Rail.

7. Attach the Side Rails (C and D) to the Head Rail (E) by driving the included #10 x 1½" Screws (9) into the open screw holes in the Right and Left Lower Ball Stud Plates (7 and 8). Drive a #8 x 2" Coarse-Thread Screw into the bottom pilot hole in each side rail until flush.

Attach the Face Panels

To ensure that the bed is square, the Bed Face Panels (G) MUST be aligned next to each other, and the Foot Rail (F) MUST be flush with the ends of the Bed Face Panels.

To ensure that the bed is square, the Bed Face Panels (G) MUST be aligned next to each other, and the Foot Rail (F) MUST be flush with the ends of the Bed Face Panels.

1. Choose the best face for each Bed Face Panel (G) and position the panels next to each other on a non-marring surface with those faces down. Apply veneer edge banding to the outside edges and to the edges that will show at the foot of the bed. Trim excess. Fig. 5.

2. Measure 1/4" in from the long edges and draw a line the full length on each side.

3. Lay the bed frame assembly on the Bed Face Panels (G) so that the front of the Foot Rail (F) is flush with the veneered ends of the Bed Face Panels and the Side Rails (C and D) are aligned with the lines you drew in Step 2.

Fig. 5
4. To show where to apply glue, trace pencil lines along the inside of the Inner Frame Struts (A) and Sides (B).

5. Remove the bed frame assembly and apply glue to the Bed Face Panels (G) inside the trace lines you drew in Step 4.

**NOTICE**

The edges of the Bed Face Panels (G) **MUST** extend 1/4” past the edges of the assembled bed frame on the long sides. The ends of the Bed Face Panels might extend 1/4” beyond the Head Rail (E).

6. Reposition the bed frame assembly on the Bed Face Panels (G), again making sure that the front of the Foot Rail (F) is flush with the veneered ends of the Bed Face Panels and that the Side Rails (C and D) are aligned with the lines you drew in Step 2.

7. Maintaining alignment, drill a 1/8” pilot hole through the Inner Frame Struts (A) and into the Bed Face Panels (G) at the two locations marked “X”, taking care not to drill all the way through the panels. Secure with a #8 x 13/8” Coarse-Thread Screw at each “X” location. **Fig. 6.**

8. Maintaining flush edges, drill another 1/8” pilot hole through the Inner Frame Struts (A) and into the Bed Face Panels (G) at the two locations marked “Y”. Secure with a #8 x 13/8” Coarse-Thread Screw at each “Y” location. **Fig. 6.**

9. Make sure the Side Rails (C and D) are aligned with the line 1/4” in from the outside edges of the Bed Face Panels (G). If they aren’t, hold them in line and then drill a 1/8” pilot hole at the locations marked “Z” and secure with #8 x 13/8” Coarse-Thread Screws. Check for square again. An out-of-square assembly will cause major problems in future steps. **Fig. 6.**

10. Once the assembly is squared, drill 1/8” pilot holes every 6” through the remaining Inner Frame Struts (A) and into the Bed Face Panels (G) and secure with #8 x 1 1/4” Coarse-Thread Screws. Wipe away any excess glue.

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**Prep the Bed Cabinet Verticals and Bed Headboard**

1. Apply veneer edge banding to the front edges of both Bed Cabinet Verticals (I) and to the top and bottom edges of the Bed Headboard (H). Trim excess.

2. If you are cutting notches in the back edges of the Bed Cabinet Verticals (I) to accommodate base molding at the installation site, mark and cut those notches.

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**Install the Bed Stops on the Bed Cabinet Verticals**

1. Make a mark 7/8” in from the front edge and 6” down from the top edge on the inside face of each Bed Cabinet Vertical (I). **Fig. 7.**

2. Drill a 5/16” diameter hole 1/2” deep centered on these marks.

3. On each side, insert the pin on the Bed Stop (19) into that hole, line up the Bed Stop so that the flat is parallel to the front edge of the Bed Cabinet Vertical (I) and attach the Bed Stop with a #10 x 3/4” Black Screw (3). **Fig. 7 - Top Edge of Bed Cabinet Verticals (I)**
Install the Upper Ball Stud Plates on the Bed Cabinet Verticals

1. On the inside face of each Bed Cabinet Vertical (I), make a vertical mark 10" in from the front edge. Make additional horizontal marks 29\(\frac{3}{8}\)" and 32\(\frac{5}{8}\)" up from the bottom edge. Fig. 8.

**WARNING** Turn off and unplug your router before installing the bit or adjusting the cutter height.

2. Install a 3/4" straight bit in a plunge router that’s equipped with an edge guide, or use a straightedge clamped to the Bed Cabinet Vertical (I). Set the bit cutting depth to 1/4", and set the edge guide or the straightedge so that the center of the bit will be 10" from the front edge of the Bed Cabinet Vertical. In other words, the bit should be centered on the vertical mark you made in Step 1.

3. In each Bed Cabinet Vertical (I), carefully rout a 3/4" wide x 1/4" deep mortise between the horizontal lines you marked in Step 1. Make sure to keep the router tight against the guide and start and stop the mortise at the inside edges of the lines while routing the mortise.

**NOTICE** The Ball Studs (16) and Ball Stud Spacers (17) are not installed on the Upper Ball Stud Plates (15) at this point.

4. Insert an Upper Ball Stud Plate (15) in each mortise and use the two mounting holes in the Upper Plate to mark drilling locations. Remove the Upper Ball Stud Plate and drill 1/4" diameter through holes at the marked locations, using a backer board under the Bed Cabinet Verticals (I) to prevent tear-out.

5. Place an Upper Ball Stud Plate (15) back in each mortise. Insert a T-Nut (4) in each hole on the outside face of the Bed Cabinet Verticals (I) and thread Machine Screws (5) through the mounting holes in the Upper Ball Stud Plates and into the T-Nuts. Tighten securely.

Install the Male Pivot Plates on the Bed Cabinet Verticals

1. Make a mark 4\(\frac{3}{4}\)" in from the front edge and 11\(\frac{3}{4}\)" up from the bottom edge on the inside face of each Bed Cabinet Vertical (I). Fig. 8.

2. Drill a 5/8" diameter hole 1/2" deep centered at each of these marks.

3. To mount each Male Pivot Plate (11), insert the short (back) end of the pivot rod into the hole and use a square to align the plate. Mark the locations of the upper two screw holes and remove the Male Pivot Plate.

4. Drill 1/4" through holes at these locations, using a backer board to avoid tear-out. Fig. 8.

5. From the outside face, insert two T-nuts (4) in the holes.

6. Realign each Male Pivot Plate (11) with the holes and secure with Machine Screws (5) threaded into the T-nuts (4). Drill pilot holes and drive #12 x 3/4" Silver Screws (14) into the plate’s remaining two holes.

**Fig. 8 - Bottom Edge of Bed Cabinet Verticals (I)**
Build the Top Header Assembly

1. Apply Veneer Edge Banding to the bottom edges of the Top Header Front Rail (K) and Top Header Rear Rail (L). Trim excess. Fig. 9.

2. Use 1/2" deep spacer blocks to raise the Top Header (J) off the work surface. This will provide the necessary 1/2" overhang of the Top Header Front and Rear Rails (K and L).

3. Run a bead of glue along the front edge of the Top Header (J). Position the Top Header Front Rail (K) so that its ends are flush with the ends of the Top Header.

4. Attach the Top Header Front Rail (K) with 2" Finish Nails. Fig. 9.

5. Run a bead of glue along the back edge of the Top Header (J). Position the Top Header Rear Rail (L) so that its ends are flush with the ends of the Top Header.

**WARNING** The Top Header Rear Rail (L) MUST be attached securely to the Top Header with glue and #8 x 2" Coarse-Thread Screws. Failure to securely attach the Top Header Rear Rail to the Top Header increases the chance that the bed cabinet could detach and tip over, potentially resulting in serious injury.

6. Drill pilot holes through the Top Header Rear Rail (L) into the Top Header (J). Attach with #8 x 2" Coarse-Thread Screws. Fig. 9.

7. Position both solid-wood Top Header Mounting Cleats (M) between the Top Header Front and Rear Rails (K and L) on top of and flush with the ends of the Top Header (J). Drill four evenly spaced countersunk 1/8" diameter pilot holes through the top edge of the Mounting Cleats and into the Top Header. Take care not to drill all the way through the Top Header.

8. Apply glue to the bottom edges of the Top Header Mounting Cleats (M); then place them in position and secure them to the Top Header (J) with #8 x 2" Coarse-Thread Screws. Fig. 9.

Apply Finish Before Installation

1. Remove all hardware from the wooden components to make finishing easier.

2. Fill all nails holes and sand all components.

3. Apply finish of choice to visible areas of all pieces, including moldings.

Get Set Up at Installation Site

1. After the wooden bed parts have been finished, reinstall all hardware except for the Bed Stops (19) and the Metal Pivoting Legs (1 and 2).

2. Position the assembly on the floor where you plan to install the bed, first placing a blanket, rug or other padding under the Face Panel (G) surface to protect it from scratching.

Establish Initial Ball Stud Plate Settings

**NOTICE** These are initial settings to provide maximum lifting power in beds constructed with 3/4" thick plywood material. They can be adjusted, if necessary, later.

1. Use a 7/16" socket or other wrench to adjust the two Lower Ball Stud Plates until the ball stud of each is at position 4. Fig. 10.

**CAUTION** Do NOT overtighten the Ball Studs in the Upper Ball Stud Plates.

2. In each of the two Upper Ball Stud Plates (15), thread a Ball Stud (16) through a Ball Stud Spacer (17) and into position 2 in the Upper Ball Stud Plates. Tighten until snug. Do not overtighten. Fig. 10.
Install Mattress Support Panels and Retaining Straps

1. With the help of another adult, if necessary, turn the bed frame assembly over or position it upright and install the desired cabinet pulls on the outside of the Bed Face Panels (G). For optimal leverage, cabinet pulls should be located between 5' and 6' from the bottom of the Bed Face Panels.

2. Reposition the bed frame assembly so the Bed Face Panels (G) are facedown on a blanket or other nonmarring surface. Position the Mattress Support Panels (N) side by side on top of the slats of the inner bed frame. **Fig. 11.**

3. Drill pilot holes and attach with eight #8 x 1 1⁄4" Coarse-Thread Screws per panel. Do not use glue.

4. From each of the front corners, measure out 16" in both directions and make marks near the edges of the Mattress Support Panels (N), directly over the inner frame.

5. At each mark, attach one end of a Mattress Retaining Strap (20) with a #8 x 1 1⁄4" Coarse Thread Screw.

6. Reinstall the Metal Pivoting Legs (1 and 2) and Leg Support Rail (O).

Attach the Bed Cabinet Verticals and the Bed Headboard

1. Position the Bed Cabinet Verticals (I) on their front edges, next to the corresponding side of the bed frame assembly. **Fig. 11.**

2. Slide a Plastic Pivot Plate Spacer (12) on the bar of the Male Pivot Plate (11) on each Bed Cabinet Vertical (I).

3. Position the Bed Cabinet Verticals (I) so that the pivot bars go in the pivot holes in the assembled bed frame. The ends of the pivot bars should protrude through the pivot holes on the inside of the bed frame.

4. Snap the provided “E” Clips (13) in the grooves of the pivot bars.

5. From the back bottom edge of each Cabinet Vertical (I), measure up 15" and make a mark. Do the same at 18" and 28". **Fig. 12.**

6. Position the Bed Headboard (H) between the Cabinet Verticals (I) with its bottom edge at the 15" marks and hold or clamp in place. **Fig. 12.**

7. Drill pilot holes through each Cabinet Vertical (I) into the Bed Headboard (H) at the 18" and 28" marks. **Fig. 12.**

8. Secure the Bed Headboard to the Cabinet Verticals with #8 x 2" Coarse-Thread Screws.
Attach the Top Header Assembly to the Cabinet Verticals

**CAUTION**

> To prevent damage to the pivoting leg assembly, make sure it is in the closed position when rotating the Cabinet Verticals and Headboard to the upright position during assembly.

1. With the bed frame assembly still on the floor with the Face Panel (G) surface facing down and the pivoting leg in the closed position, carefully rotate the Cabinet Verticals (I) and Bed Headboard (H) upright.

**NOTICE** Clamps can be used to hold the Top Header assembly between the Cabinet Verticals, making attachment easier.

2. Position the Top Header assembly (J, K, L and M) between the Cabinet Verticals (I), making sure that the Top Header Rear Rail (L) is at the back. Align everything so that the top edges of the assembly are flush with the top edges of the Cabinet Verticals and hold or clamp in place. **Fig. 13.**

3. Working from above the cabinet, drill four evenly spaced pilot holes for #8 x 1 1/4" Coarse-Thread Screws through the solid-wood Top Header Mounting Cleats (M) into the Cabinet Verticals (I) at each end of the Top Header (J), taking care not to drill all the way through the Cabinet Verticals. **Fig. 13.**

4. Attach the Top Header assembly at each end with four #8 x 1 1/4" Coarse-Thread Screws driven through the Top Header Mounting Cleats (M) into the Cabinet Verticals (I).
Install the Gas Springs

**WARNING**

> The components of this wall bed unit operate with stored mechanical energy, which can cause serious injury if mishandled. TO REDUCE THE RISK OF INJURY, THE BED UNIT MUST BE CORRECTLY AND SECURELY ANCHORED TO THE WALL, WITH THE CORRECT FASTENERS FOR THE TYPE OF WALL, AS SPECIFIED IN THESE INSTRUCTIONS.

> You MUST have another ADULT help you while installing your wall bed unit to make sure the bed doesn’t close inadvertently while you are working. Failure to do so increases the risk of serious injury.

1. With the cabinet assembly upright and the bed frame down, position the bed cabinet 2-3' from the wall where it will be installed (to give you enough room to work behind it).

2. With an adult helper holding the bed cabinet, lift the front of the bed frame so it pivots up into the cabinet. Go at least 3” beyond flush at the top. **Fig. 14.**

**CAUTION** Be sure to properly orient the Gas Springs by noting the location of the labels reading, “Mount this end up.”

3. Install a Gas Spring (18) on each side by snapping one end onto the Lower Ball Stud Plate (7 and 8) on the Bed Side Rail (C and D) and the other end on the Upper Ball Stud Plate (15) on the Cabinet Vertical (I). **Fig. 14.**

4. With your adult helper securely holding the bed cabinet and you working from behind the cabinet, push the top of the bed out 4” or 5” and reattach the Bed Stops (19).

**WARNING** To reduce the risk of serious injury, do NOT attempt to lower the bed frame assembly until the bed cabinet has been securely attached to the wall.

5. Working with your helper, carefully let the bed frame return to the vertical position.

Mount the Bed Cabinet to the Wall

**THESE WARNINGS PERTAIN TO ALL REMAINING STEPS:**

**WARNING**

> The components of this wall bed unit operate with stored mechanical energy, which can cause serious injury if mishandled. TO REDUCE THE RISK OF INJURY, THE BED UNIT MUST BE CORRECTLY AND SECURELY ANCHORED TO THE WALL, WITH THE CORRECT FASTENERS FOR THE TYPE OF WALL, AS SPECIFIED IN THESE INSTRUCTIONS.

> Once the Gas Springs (18) are installed, the bed will not stay down without the weight of a mattress. Operating the bed mechanism without a mattress in place increases the risk of sudden closing, entrapment and serious personal injury.

1. Make sure the cabinet will be able to sit flush against the wall.

2. Position the cabinet against the wall. Center the bed frame in the cabinet opening by placing a folded piece of cardboard between the bed frame and the Cabinet Vertical (I) on each side near the top.
3. Securely attach the bed cabinet to the wall using one of the following methods. You will need to use at least three fasteners to secure the cabinet.

For walls with wood studs:

**WARNING** You MUST attach the bed cabinet assembly to the wall by driving at least three 1/4" x 3" lag screws through the Top Header Rear Rail (L) into 2 x 4 or larger wooden wall studs. Failure to secure the unit into wooden wall studs increases the chance that the bed cabinet will detach and tip over, potentially resulting in serious injury.

Do NOT use an impact driver to drive fasteners; the added torque increases the risk of stripping the pilot holes and weakening connections. Do NOT overtighten screws.

A. Use a stud finder to locate and mark the centers of at least four wall studs. Fig. 15.

B. Drill 3/16" pilot holes through the Top Header Rear Rail (L) at these locations.

C. Attach securely with four 1/4" x 3" lag screws. Fig. 16.

For walls with metal studs:

**WARNING** You MUST attach the bed cabinet assembly to the wall with at least four 3/16" x 4" toggle bolts secured through the Top Header Rear Rail (L) into metal studs. Failure to secure the unit properly increases the chance that the bed cabinet will detach and tip over, potentially resulting in serious injury.

A. Use a stud finder to locate and mark the centers of at least four studs. Fig. 15.

B. Drill 1/4" holes through the Top Header Rear Rail (L) and into the wall at these locations.

C. With an adult helper, move the bed cabinet away from the wall.

D. Use a 9/16" drill bit to widen and extend the pilot holes, being sure to drill through the metal studs.

E. Insert toggle bolt screws in the holes in the Top Header Rear Rail (L) and thread on the toggle wings.

F. Reposition the bed cabinet against the wall, carefully inserting the toggle bolts into the pilot holes and pushing the bolts in. Fig. 17.

G. Tighten the toggle bolts until the cabinet is secure to the wall.
For concrete, mortar or brick walls:

**WARNING** You MUST attach the bed cabinet assembly to the wall by driving at least four 3/16" x 2 1/4" masonry screws through the Top Header Rear Rail (L) into the wall. Failure to secure the unit properly increases the chance that the bed cabinet will detach and tip over, potentially resulting in serious injury.

A. Drill four evenly spaced 3/16" through holes in the Top Header Rear Rail (L).

B. With a 4"-long 5/32" diameter concrete drill bit, use the through holes in the Rear Header Rail (11) to drill pilot holes 2" into the wall.

C. Attach securely with 3/16" x 2 1/4" masonry screws.

Fig. 18.

4. If the gap between the bed frame and the Cabinet Verticals is uneven, push or gently kick the Cabinet Vertical at the bottom on the side with the smallest gap at the top.

**Install Mattress and Fine-Tune Ball Stud Plate Settings**

**WARNING**

> You MUST have another ADULT help you while installing your wall bed unit to make sure the bed doesn’t close inadvertently while you are working. Failure to do so increases the risk of serious injury.

> Once the Gas Springs (18) are installed, the bed will not stay down without the weight of a mattress. Operating the bed mechanism without a mattress in place increases the risk of sudden closing, entrapment and serious personal injury.

> Mattress dimensions MUST NOT exceed 54" x 75" x 12" thick, including pillowtop. Mattress MUST NOT weigh less than 50 lbs. or more than 65 lbs. Do NOT use a foam or very light mattress with this product.

1. With the help of another adult, rotate the bed frame out of the cabinet, unfold the leg assembly and lower the bed frame to the floor, making sure to maintain downward pressure.

2. While the helper continues to hold the bed frame down, place the mattress on the frame and secure it with the Mattress Retaining Straps (20).

3. If lowering the bed frame seems too difficult, or if the bed frame starts to lift even with the mattress in place, the setting on the Lower Ball Stud Plates could be too high, resulting in too much lifting power.

To decrease the lifting power, use a socket wrench or driver to turn the hex head on the Lower Ball Stud Plates (7 and 8) to the right, moving the ball stud to a lower setting. Be sure to make identical adjustments to both Lower Ball Stud Plates. And make adjustments in small increments. Even small adjustments can make a big difference in the bed’s lifting power. Fig. 19.

If the bed frame sticks out beyond the front of the cabinet when the bed is in the closed position, you will need to make a similar adjustment, turning the hex head on the Lower Ball Stud Plates (7 and 8) to the right to move the ball stud to a lower setting. Again, make small, identical adjustments to both Lower Ball Stud Plates to “sneak up” on the right setting. Do NOT force the bed frame closed without making the adjustment; if you do, you will damage the head of the gas spring.

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.