INSTALLATION INSTRUCTIONS – VERTICAL BEDS (WOOD) –

These instructions do not apply to our economy melamine murphy beds or Horizontal murphy beds

BEFORE YOU BEGIN, PLEASE TAKE A FEW MOMENTS TO FAMILIARIZE YOURSELF WITH ALL OF THE PARTS AND CONFIRM THAT ALL OF THE HARDWARE IS INCLUDED. BEDDER WAY COMPANY IS NOT RESPONSIBLE FOR LOSS OF TIME OR HIRED LABOR DUE TO MISSING PARTS. ALSO, READ THESE INSTRUCTIONS THOROUGHLY BEFORE STARTING THE ASSEMBLY AND INSTALLATION.

⚠️ WARNING

FAILURE TO PROPERLY SECURE THE BED TO THE WALL CAN CAUSE SERIOUS INJURY! READ ALL SAFETY INSTRUCTIONS BEFORE INSTALLATION.

ASSEMBLY AND INSTALLATION REQUIRES TWO PEOPLE!

You will need to have these tools to install the Murphy bed:

- Drill
- Phillips Screwdriver
- Stud Finder
- ⅛” Wood or Masonry Drill Bit (per wall type)
- Ladder

Mattress Requirements:
Your bed will hold up to a 12” thick innerspring or memory foam mattress. (Sold separately).
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<thead>
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<th>Part</th>
<th>QTY.</th>
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<th>Color</th>
<th>Picture (not actual sizes)</th>
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<td>A</td>
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<td>B</td>
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<td>C</td>
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<tr>
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<td>Thick Nylon Washer</td>
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HARDWARE INCLUDED
(Additional hardware/screws are included for beds with side cabinets and/or lighting kits)
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<td><em>this is for use with handles on V107 and V100 models only</em></td>
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BEFORE YOU INSTALL YOUR MURPHY BED

1. Unless you requested to have your Murphy bed without a notch for the base molding at the bottom of your wall, a 5 inch tall by 1 inch notch is included on your Murphy bed Cabinet Verticals. **This is necessary for the Murphy bed to sit flush against the wall for a secure installation.** If you ordered your Murphy bed without a notch because you want to make a different size notch, you should do this first, BEFORE any other step.

Follow the steps below to make a notch/or make a larger notch for your base molding:

a. Mark your notch height and notch depth on the inside of each side vertical. Notches deeper than 1½" will interfere with the Stringer. If your notch size needs to be deeper than 1½", please go to Page 29 for further instructions. Do this BEFORE installing your murphy bed.

b. Using a handsaw or a jigsaw, make two straight line cuts based on your marks.

c. Hold the side verticals up against the wall with the unfinished/notched side towards the wall to double check that the notches you made will accommodate your wall’s base molding. Notches are not to exceed 12” High x 2” Wide.
UNFINISHED MURPHY BEDS

2. If you ordered your Murphy bed UNFINISHED, there are some very important details to consider. They are as follows:
   a. All pieces should be individually finished before you assemble the bed. You will not be able to completely finish all necessary surfaces after assembly.
   b. If you are applying paint to finish your Murphy bed, please make sure to prime all parts with a good quality primer before painting.
   c. DO NOT APPLY FINISHES TO THE PISTONS, PIVOT PLATES, OR LEG MECHANISM!
   d. Always check to make sure all parts are completely dry before you assemble the Murphy bed.

⚠️ IMPORTANT SAFETY INFORMATION! ⚠️

- It is extremely important that the bed be properly and securely affixed to the wall. Failure to do so can cause serious injury or death.
- The Murphy bed should be securely fastened to wall studs, concrete, block, brick or other wall type using the proper fasteners. To test this, pull on the Header a few times to make sure it does not come away from the wall after the bed is installed.
- When affixing the header to wall studs, the fasteners should be inserted into the center of the wall stud(s).
- Always make sure to locate any plumbing pipes, air returns or other obstructions within the walls before beginning your installation.
- The proper tools need to be utilized in installation of the bed. These are listed in the Installation Instructions.
- Installation of the bed should be performed by two people. Attempting to install the bed alone can cause injury.
- The Murphy bed should sit flush against the wall for secure installation.
- Never attempt to unscrew the Murphy bed from the wall while it is open.
- If you are using lighting, you should keep covers, comforters, and other bedding away from the bed when you close the bed. You should tuck any bulky bedding tightly between the mattress and the frame rails of the Murphy bed. Also, make sure no wires are being pinched at any location.
- Walls other than Wood Stud walls will require alternate fasteners (not provided) for installation. These may include molly/hollow wall anchors, toggle bolts (suggested for metal stud walls), Tapcons®, or other fastener types. Please consult your local home improvement store for recommendations. Installations that only use molly/hollow wall anchors are not recommended. The murphy bed should be securely fastened to wall stud(s) concrete, block, brick or other wall type.
PLACING PARTS ON THE ASSEMBLED FACE

The Assembled Face has been precisely machined for the parts you will need to install. Based on the machined holes in the side rails of the Assembled Face, you can easily determine the location of the parts/plates to be installed. The diagram above indicates the front end and back end of the Assembled Face. Notice that the front end will have elastic straps at each corner for securing the mattress in place. It also will have two notches to allow the Swing Leg (P) to be moved to the down position. If you are assembling the Murphy bed on hard flooring surfaces (tile, hardwood, etc.), make sure to place the Assembled Face on a protective material to avoid scratching the decorative façade or your floor.
Position one Swing Leg Plate (Q) at the front end of the Assembled Face, and from the inside, insert the 1” tube into the 1” hole. Insert four ¾” Wood Screws (H) in the four pre-marked holes on the inside of the Assembled Face. REPEAT THIS STEP ON THE OTHER SIDE OF THE ASSEMBLED FACE.

From the outside of the Assembled Face, push one 1½” Flat Head Cap Screw (R) through the Swing Leg Plate (Q). Next, place one Thin, Black Nylon Washer (S) on the 1½” Flat Head Cap Screw (R), on the inside of the Assembled Face. REPEAT THIS STEP ON THE OTHER SIDE OF THE ASSEMBLED FACE.

Using the picture above as a guide, place one Swing Leg (P) on the inside of the Assembled Face, pushing it onto the 1½” Flat Head Cap Screw (R). Next, place one Thin, Black Nylon Washer (S) on the 1½” Flat Head Cap Screw (R). There should be a
Thin, Black Nylon Washer (S) on both sides of the Swing Leg (P) inside of the Assembled Face. REPEAT THIS STEP ON THE OTHER SIDE OF THE ASSEMBLED FACE.

Thread a Locknut (T) onto the 1½” Flat Head Cap Screw (R). The ½” Wrench (V) that is included will be used to tighten the Locknut (T) to secure the Swing Leg (P). REPEAT THIS STEP ON THE OTHER SIDE OF THE ASSEMBLED FACE.

Using the included Allen Wrench (U) and the ½” Wrench (V), tighten the Locknut (T) onto the 1½” Flat Head Cap Screw (R), but be sure to not over-tighten the Locknut (T) as this will make the Swing Leg (P) harder to operate. If you feel that you have over-tightened the Locknut (T), simply loosen it very slightly until the Swing Leg (P) moves freely up and down. The Locknut (T) will stay engaged and not come off of the 1½” Flat Head Cap Screw (R), but the Swing Leg (P) will move more easily. REPEAT THIS STEP ON THE OTHER SIDE OF THE ASSEMBLED FACE.
Position one Pivot Hole Plate (E) at the back end of the Assembled Face, and from the inside, insert the 1” tube into the 1” hole. Using the pre-marked hole locations as a guide, secure the Pivot Hole Plate (E) with four ¾” Wood Screws (H) on the inside of the Assembled Face. REPEAT THIS STEP ON THE OTHER SIDE OF THE ASSEMBLED FACE.

At the back end of the Assembled Face, insert five ¾” T-Nuts (F) in the five through holes from the inside as shown above. Then, insert a ⅝” Machine Screw (G) in all five holes, through the Assembled Face Plate (C) and thread them into the five ¾” T-Nuts (F). Tighten these five ⅝” Machine Screws (G) using a Phillips screwdriver. REPEAT THIS STEP ON THE OTHER SIDE OF THE ASSEMBLED FACE.
PLACING PARTS ON THE CABINET VERTICALS

The Cabinet Verticals are precisely machined for the parts you are about to install. Based on the machined holes in the Cabinet Verticals, you can easily determine the location of the plates. The diagram also indicates the direction and position of these parts, as well as the proper fastener to use for each.

(Back side of Cabinet Vertical shown)
With one Cabinet Vertical lying on its side and several holes facing up, position one Pivot Pin Plate (D) with the ½” end of the rod inserted into the lower most ¾” hole. Insert two ¾” T-Nuts (F) in the two through holes from the “back side” of the Cabinet Vertical. Insert a ⅝” Machine Screw (G) through the Pivot Pin Plate (D) and thread into each of the ¾” T-Nuts (F). Finish by inserting two ¾” Wood Screws (H) in the remaining holes. The pre-marked holes ease this installation. REPEAT THIS STEP FOR THE REMAINING CABINET VERTICAL.

Position one Cabinet Vertical Plate (B) with the nut on the back of this plate inserted into the upper most ¾” hole. Insert two ¾” T-Nuts (F) in the through holes from the back side of the Cabinet Vertical. Insert two ⅝” Machine Screws (G) through the Cabinet Vertical Plate (B) and thread it into the ¾” T-Nuts (F). Finish by inserting three ¾” Wood Screws (H) in the remaining holes, using the pre-marked hole locations. REPEAT THIS STEP FOR THE REMAINING CABINET VERTICAL.
Position one Bed Stopper (I) with the pin on the back inserted into the ¼” hole near the top. Position the Bed Stopper (I) as to line up its hole with the pre-marked hole on the Cabinet Vertical. Secure this with a ¾” Wood Screw (H). REPEAT THIS STEP FOR THE REMAINING CABINET VERTICAL.

In the seven (7) remaining holes not covered with a round sticker, screw a ¾” Cam Dowel (L) in each. Be sure to screw them in all of the way, but be careful not to over tighten them (USE A HAND HELD PHILIPS SCREWDRIVER, NOT A DRILL). Then, remove the stickers from the remaining holes. REPEAT THIS STEP FOR THE REMAINING CABINET VERTICAL.
ASSEMBLING THE MURPHY BED

STEP 1: Position all of the parts approximately 24 inches from the wall where you plan to install the bed. Lay them out as shown below for ease of installation.

STEP 2: Place a Thick, White Nylon Washer (K) on the Pivot Bar on each Pivot Pin Plate (D) and stand the Cabinet Verticals on their finished (front) edge.
**STEP 3:** Slide the Pivot Pins all of the way into the Pivot Holes in the Assembled Face. The Thick, White Nylon Washer (K) will establish the spacing needed between these pieces.

**STEP 4:** Snap one E-Clip (J) into the groove on each of the Pivot Bars locking the Cabinet Verticals to the Assembled Face.
STEP 5:  Next, snap the smaller end of one Piston (A) onto the ball receiver on the Assembled Face Plate (C) on the Assembled Face. The arrow should be pointing to the top of the Murphy bed and away from the wall. REPEAT THIS STEP ON THE OTHER SIDE OF THE ASSEMBLED FACE.

DO NOT USE A HAMMER TO SNAP THE PISTON ON. IF YOU FIND IT DIFFICULT, TRY COMING IN AT A SLIGHT ANGLE WITH YOUR HAND A FEW INCHES AWAY FROM THE END AS YOU SNAP IT ON.

PLEASE NOTE: The Piston (A) will initially APPEAR to be too long to snap on. This is NOT the case, as you will move the Assembled Face in the next step to align the Piston (A) with the ball receiver on the Cabinet Vertical Plate (B) on the Cabinet Vertical.

YOU CAN NOT COMPRESS THE PISTON BY HAND DUE TO THE STRENTH OF THE PISTON. PLEASE READ THE NEXT STEP TO UNDERSTAND HOW TO SNAP THE PISTON INTO PLACE.

STEP 6:  In order to attach the pistons to the Cabinet Verticals, you must make sure that the Bed Stopper (I) is not resting on the Assembled Face. If it is, simply slide it off of the Assembled Face and let the Cabinet Vertical rest on the floor. Now, having already attached both pistons to the ball receiver on the Assembled Face in STEP 5, have one
person gently lift the Assembled Face about 6” off the ground while the second person snaps the larger end of the Piston (A) onto the ball receiver of the Cabinet Vertical Plate (B) on the Cabinet Vertical. **You may need to move the Assembled Face up and down slightly to perfectly align the ball receiver and the head of the Piston (A).** REPEAT THIS STEP ON THE OTHER SIDE OF THE ASSEMBLED FACE.

![Diagram]

DO NOT USE A HAMMER TO SNAP ON THE PISTON. **THE PISTON WILL BE ABLE TO SNAP ON ONCE YOU RAISE THE BED FACE TO THE CORRECT HEIGHT TO ALIGN THE PISTON WITH THE BALL STUD. USING A HAMMER OR ANY OTHER HARD OBJECT WILL BREAK THE RETAINER RING ON THE PISTON.**

**STEP 7:** If you purchased the optional Lighting Kit, you should install the lights in the Header now. **If you did not purchase this option, MOVE ON TO STEP 8.**

The lights have been pre-installed in the Header for you; however, they have since been removed for shipping purposes. You will need to re-install them into the header and secure them with the pre-installed retainer ring. You will connect the wiring in a later step; you are only installing the lights in the Header in this step.
INSTALLING THE LIGHTS IN THE HEADER:

Making sure that the light with the single cord is installed first, at the left side of the header, furthest from the pre-installed transformer; push the light through the header from the finished side up until the trim ring is flush with the finished side of the header (Figure A). Then, using a screwdriver, tighten the screw on the retainer ring, securing the light. Repeat this for the remaining light.

![Figure A](https://via.placeholder.com/150)

PLACING THE LIGHT KIT KILL SWITCH ON THE ASSEMBLED FACE

If you ordered the optional Light Kit, you will need to install Kill Switch onto the outside, back end of the Assembled Face. You will connect the wiring in a later step; you are only installing the Kill Switch in this step. The purpose of this Kill Switch is to cut the power to the light kit when the bed is closed, eliminating the possibility of inadvertently leaving the lights on.

![Kill Switch Image](https://via.placeholder.com/150)

The Kill Switch will be separately packaged; along with two small, silver wood screws used to fasten it to the Assembled Face. The Kill Switch will need to be installed on the outside of the back end of the Assembled Face, near the corner indicated in the upper right diagram.
Starting from the left edge, mark two holes on the Assembled Face. The first hole will be 6 inches from left to right and the second hole will be 8 inches from left to right. Both holes should be 1 inch down from the top edge. Using a Phillips screwdriver and the two small, silver wood screws, fasten the Kill Switch – WITH THE ARROW FACING UP – on the Assembled Face.

Please be sure that the arrow is facing up as indicated in the picture on the left.

**STEP 8:** With the unfinished side of the Header facing into the room and the finished side facing into the bed cabinet, attach the Header. Because of the position of the Cam Dowels, this piece can only be installed in one direction. Allow the Cam Dowels (L) to slip into the Cam Housings on one side. Secure this side of the Header by tightening the Phillips head within each Cam Housing using a screwdriver, not a drill. This is done by twisting the Phillips head approximately 225° until it is tight. You must finish the next step before attaching the remaining side.
**STEP 9:** Place the attached side of the Cabinet Vertical on the Assembled Face using the Bed Stopper (I).

**STEP 10:** While lifting the unattached Cabinet Vertical and the Header slightly above the Assembled Face, allow the Cam Dowels (L) to slip into the Cam Housings. Secure this side of the Header by tightening the Phillips head within each Cam Housing using a screwdriver, not a drill. This is done by twisting the Phillips head approximately 225° until

**Do not install any part where the unfinished sides or edges would be exposed after installation. The unfinished side of the Header should point to the ceiling; the unfinished side of a Headboard should be against the wall, etc. This is a common mistake, please double check that the unfinished side of the Header is pointed to the ceiling before calling customer service.**
it is tight. Allow this Cabinet Vertical to rest on the Assembled Face using the Bed Stopper (I).

**STEP 11:** Drive two Black 1½” Screws (M) into each side of the Header using the through holes. Make sure to do this on both sides of the Header.

**STEP 12:** With the unfinished side of the Headboard facing up and the finished edge facing toward the top of the Murphy bed, attach the Headboard. Follow the same Cam fastening procedure as with the Header.
STEP 13: With the unfinished side of the Stringer facing toward the wall and the finished edge facing into the bed cabinet, attach the Stringer. **If the Stringer interferes with your notch, please go to Page 29 for further instructions.** Follow the same Cam fastening procedure as with the Headboard and Header. (Notice this view is rotated 180° from the view above.)

IF YOU PURCHASED THE OPTIONAL LIGHTING KIT YOU WILL NOW FINISH THE INSTALLATION.
IF YOU DID NOT PURCHASE THIS OPTION, PLEASE GO TO STEP 14.

The wires need to be feed through the full length notch on the RIGHT CABINET VERTICAL and out of the baseboard notch. Finally, the quick connections will be made to the Transformer and the Safety Cutoff Switch. Simply follow the steps below and refer to the diagrams.

**Figure B**

a. First, route the 60 inch long dimmer wire (pre-installed at the Touch Pad) through the smaller notch on the Cabinet Vertical and into the larger notch on the Cabinet Vertical. Run this wire all the way up to the Header and plug the male end into the female end on the Transformer. (**Figure B**).

b. Then, route the long extension cord in the notch on the Cabinet Vertical gently pushing it as far in as it will allow. Make sure the female end is toward the top of the bed and the male end (normal plug end) is at the Stringer and through the baseboard notch (**Figure B**).

c. Next, plug the male end of the long extension cord into the female end of the pre-installed Safety Cutoff Switch installed on the Assembled Face – at the bottom of the bed closest to the Stringer (**Figure B**).

d. Next, connect the female end of the long extension cord to the male end of the wire exiting the Transformer (**Figure C**).

e. Next, plug the male end of the light into the female end of the wire exiting the Transformer. Make sure these are completely together before continuing.
**f. PLEASE NOTE:** The Transformer is installed in such a way as to minimize extra wire from sticking above the Header once the bed is installed. Therefore, the wires coming out of and going into the Transformer may appear to be reversed. This is NOT the case; simply plug the wires into its proper match.

**g.** Plug the wire from the Safety Cutoff Switch into an outlet. This is also a good time to test the lights to ensure they are working properly. Also, make sure that no wires are being pinched at any location. With the lights plugged in and completely connected, and while the bed is still lying flat on the floor, test the lights by touching the ring terminal on the dimmer wire (**Figure B**). It will dim from low to medium to high and then off again. Once the bed is installed, the Safety Cutoff Switch will operate as specified; cutting power to the lights once the bed is half way closed. This will ensure the lights will not come on with the bed in the closed position.
WHEN LIFTING THE BED, DOUBLE CHECK TO MAKE SURE THE NOTCH AT THE BOTTOM OF YOUR BED WILL ACCOMMODATE THE BASE MOLDING ON YOUR WALL. IF YOU SKIPPED THIS STEP, PLEASE GO BACK TO PAGE 4 NOW. THIS IS IMPORTANT BECAUSE THE MURPHY BED MUST SIT FLUSH AGAINST THE WALL FOR PROPER INSTALLATION.

STEP 14: With the bed fully assembled, and with two people, CAREFULLY lift the “ENTIRE CABINET” upright and push / slide it flush against the wall. USE “AT LEAST” TWO PEOPLE TO LIFT THE BED.

IF YOU HAVE LIGHTING, PLEASE BE SURE TO CONSIDER THE LOCATION OF YOUR OUTLET AND HOW YOU WILL RUN THE WIRE TO THE OUTLET BEFORE YOU PUSH THE BED AGAINST THE WALL.
NOTE: PLEASE BE CAREFUL ON WOOD FLOORS (OR BLANKETS) AS THE BED MAY TRY TO SLIDE WHEN YOU LIFT IT UP. IT IS IMPORTANT THAT YOU HAVE AT LEAST TWO PEOPLE WHEN LIFTING THE BED.

**FOR V107 CONTEMPO FACE and V100 FLAT FACE MURPHY BEDS ONLY**

INSTALL HANDLES NOW

Once the bed is standing, the handles can be installed on the face of the Murphy bed. Place one person behind the bed and the other in front. Using the appropriate length screws (included in the handle package), and the Silver 1¼” Washers (N), place the handle bolt screws through the pre-cut holes in the mattress platform and through the Murphy bed face. Then, tighten the handles to the front of the Murphy bed using a Phillips screwdriver.

By gently tapping the Cabinet Verticals (as needed) to the right or left, adjust the bed so that the gap between the Assembled Face and the Cabinet Verticals is equal all the way around.
YOU ARE NOW READY TO MOUNT THE BED TO THE WALL!

**STEP 15:** Using an electronic stud finder and following the manufacturer’s instructions for use, locate the studs in the wall as shown. Mark an “X” to indicate the CENTER of the stud. Locate as many studs as you can within this space (minimum of 3). This will vary for concrete, brick, or lathe and plaster walls.

In the locations where you have located and marked the center of the studs, drill a 1/8” pilot hole through the back of the Header. Do not go all the way into the stud with this hole, just into the wood strip.
Finally, making sure that the gap around the bed is equal, drive a Black 3” Wood Screw (O) into each predrilled hole and into the wall studs. You may consider different fasteners for different wall types. **MAKE SURE THAT THE SCREWS ARE IN THE STUD AND THAT THE HEADER IS TIGHT TO THE WALL.** You will know you have hit the studs if it’s more difficult to turn the screw. If not, you are into the drywall only. You will need to try to locate the studs again. To test this, pull on the Header a few times to make sure it does not come away from the wall.

![Image of bed setup]

**WARNING** IT IS EXTREMELY IMPORTANT THAT THE BED BE PROPERLY AND SECURELY AFFIXED TO THE WALL. FAILURE TO DO SO CAN CAUSE SERIOUS INJURY OR DEATH!
**STEP 16:** Once the bed is securely fastened to the wall, you are ready to install the crown molding. Simply slide the pre-fabricated crown molding all of the way onto the Header using the attached cleats for support. Finish the crown molding installation by installing two Silver 1¼” Screws (W) into the predrilled holes on the top of the cleats.

![Diagram of crown molding installation](image)

**STEP 17:** To install your mattress, you must first open the bed. Bedder Way Murphy beds are built to accommodate any standard innerspring mattress up to 12 inches in total thickness. Using the upper most handles (depending on style), pull the bed down into the open position. Until the mattress is installed, one person will need to hold the bed down. Without the mattress, the bed will want to return to the closed position. The weight of the mattress, once installed, will hold the bed down.

![Images of mattress installation](image)
**STEP 18:** To keep the mattress in place when the bed is closed, simply pull the elastic straps at the bottom of the Assembled Face over the end of the mattress. These straps fit nicely under the fitted sheets and out of plain view.

![Diagram of mattress with straps](image)

**STEP 19:** If you have side cabinets, these can be installed once the bed is fastened to the studs in the wall. Push the cabinet against the bed making sure that the crown molding and the base molding on the front of the cabinet lines up with the front edge of the bed. Once you are happy with the way the cabinet fits, drive screws from the side cabinet into the Cabinet Vertical of the bed as shown below. Be careful not to drive the screws too far and through the Cabinet Verticals!

**REFERENCE FROM PAGE 4 – MOVING THE STRINGER**

IF YOUR NOTCH NEEDS TO BE LARGER THAN 1 ½”, PLEASE FOLLOW THESE STEPS TO MOVE YOUR STRINGER. IF NOT, SKIP TO NEXT PAGE.

If you would like to make your notch larger than 1 ½” start by marking 2 new holes closer to the finished edge or front of each of your side verticals. The holes should be ½” up from the bottom of the side vertical, and at least 1 ½” from the edge of your new notch depth. The holes should be 3” apart from one another. Next, using a 5mm (3/16”) bit, drill ¼” down into the side vertical on your marks. BE CAREFUL TO NOT DRILL COMPLETELY THROUGH THE SIDE VERTICALS. Using a drill stop may be useful. For additional help, please reference Appendix A.
YOU HAVE SUCCESSFULLY FINISHED THE INSTALLATION OF YOUR NEW MURPHY BED!

WANT TO ADD A CABINET OR HOME OFFICE WORKSTATION? THESE ITEMS CAN BE ADDED AT ANY TIME BY CALLING OUR TOLL FREE NUMBER (866) 783-5105 OR VISITING WWW.BEDDERWAY.COM

THANK YOU FOR YOUR BUSINESS!