

S-250 Vertical **Murphy Bed Mechanism With Folding Desk** Cut List & Plans

Style: S-250 Vertical (Metal Rails) Murphy Bed Mechanism Orientation: Vertical Size: King, Queen, Full, Twin

WARNING! ALL MURPHY/WALL BED SYSTEMS CONTAIN STORED ENERGY. FAILURE TO USE AND FOLLOW THESE INSTRUCTIONS DURING THE INSTALLATION PROCESS COULD RESULT IN SEVERE PERSONAL INJURY TO THE USER OR DAMAGE TO PRODUCT. PLEASE CONTACT CUSTOMER SER-VICE AT 866-725-6401 FOR ANY QUESTIONS.

Page intentionally left blank

Steps to Complete Project

Cabinet Material:

IT IS STRONGLY RECOMMENDED TO CONSTRUCT MURPHY BED CABINET USING 4 X 8 PLY CORE (FUR-NITURE GRADE) PANELS. MDF MAY BE USED BUT BED MAY BE HEAVY TO OPERATE. PARTICLE BOARD CANNOT BE USED FOR THIS PROJECT.

1. Cut, Mill and Edge band all cabinetry parts as detailed in these instructions.

2. Apply finish as desired to all cabinet parts as indicated in these instructions.

3. Assemble cabinetry components in the room the Murphy Bed is to be used.

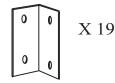
4. Anchor cabinetry to structural members (i.e. wood studs) in your wall.

- 5. Familiarize yourself with all of the mechanism components.
- 6. Install bed rails, and lift mechanism to the cabinetry parts as illustrated in these instructions.

Number of 4 x 8 Panels to Needed:

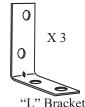
King Size Bed - 5 Queen Size Bed - 4 Full Size Bed - 4 Twin Size Bed - 3

Hardware to be sourced Locally:



Note: Corner bracket legs can be between .75" and 1.25" Length can be between 1.5" and 2" long *

* As an option you may choose to use hardwood corner blocks you cut yourself instead of using locally sourced corner brackets. See pages 12 & 13 for intended use.



WW (2) X 85

</11110>> X 6

#8 X 3/4" Pan head Screw

#8 X 2.5" Wood Screw

King Bed Cut List (Vertical Orientation)

FOR BEST RESULTS IT IS STRONGLY RECOMMENDED TO CONSTRUCT MURPHY BED CABINET USING 4 X 8 PLY CORE (FURNITURE GRADE) PANELS. MDF MAY BE USED BUT KING SIZE BEDS <u>WILL</u> BE HEAVY TO OPERATE. PARTICLE BOARD CANNOT BE USED FOR THIS PROJECT.

King Bed

Mattress Size: 76" x 80" 12" Max thickness

Overall Cabinet Dimensions

81 1/2" w x 88 1/4" h 16" dProtrusion from wall: 90Cabinet Material: 3/4" Ply core or MDFNote: MDF will make bed hard to operate.Consider using Ply core for front Panels.

Quantity	Description	Width	Length	Edge Banding
4	Bed Face Panels	19 7/8"	82 5/16"	All 4 Edges
2	Side Boards	16"	88 1/4"	One long Edge (front)
1	Headboard	14 1/4"	80"	One Long Edge (top)
1	Bridge Board	14 1/4"	80"	No Edge banding
1	Top Fascia	2"	80"	One Long Edge (bottom)
1	Rear Stretcher	6"	80"	One Long Edge (top)
1	Front Stretcher	4"	80"	One Long Edge (top)

Wallbed Desk Cut List (King Bed)			Desk Dimensions Depth 21 3/4" Width 81 1/2" Height (desk surface from floor) 28 3/4" Protrusion from Murphy Bed front 22 1/2"	
				'Ply core or MDF
Quantity	Description	Width	Length	Edge Banding
1	Desk top	22"	78 1/4"	One long Edge (front)
1	Desk Back Riser 8 1/2"		78 1/4"	One Long Edge (top)

Queen Bed Cut List (Vertical Orientation)

FOR BEST RESULTS IT IS STRONGLY RECOMMENDED TO CONSTRUCT MURPHY BED CABINET USING 4 X 8 PLY CORE (FURNITURE GRADE) PANELS. MDF MAY BE USED BUT KING SIZE BEDS <u>WILL</u> BE HEAVY TO OPERATE. PARTICLE BOARD CANNOT BE USED FOR THIS PROJECT.

Queen	Bed
~	

Mattress Size: 60" x 80" 12" Max thickness **Overall Cabinet Dimensions**

65 1/2" w x 88 1/4" h 16" d Protrusion from wall: 90 Cabinet Material: 3/4" Ply core or MDF

Quantity	Description	Width	Length	Edge Banding
4	Bed Face Panels	15 7/8"	82 5/16"	All 4 Edges
2	Side Boards	16"	88 1/4"	One long Edge (front)
1	Headboard	14 1/4"	64"	One Long Edge (top)
1	Bridge Board	14 1/4"	64"	No Edge banding
1	Top Fascia	2"	64"	One Long Edge (bottom)
1	Rear Stretcher	6"	64"	One Long Edge (top)
1	Front Stretcher	4"	64"	One Long Edge (top)

Wallbed Desk Cut List (King Bed)			Desk Dimensions Depth 21 3/4" Width 65 1/2" Height (desk surface from floor) 28 3/4" Protrusion from Murphy Bed front 22 1/2 Material: 3/4" Ply core or MDF	
Quantity	Description	Width	Length	Edge Banding
1	Desk top	22"	62 1/4"	One long Edge (front)
1	Desk Back Riser	8 1/2"	62 1/4"	One Long Edge (top)

FOR BEST RESULTS IT IS STRONGLY RECOMMENDED TO CONSTRUCT MURPHY BED CAB-INET USING 4 X 8 PLY CORE (FURNITURE GRADE) PANELS. MDF MAY BE USED. PARTICLE BOARD CANNOT BE USED FOR THIS PROJECT.

Full Bed

Mattress Size: 54" x 75" 12" Max thickness **Overall Cabinet Dimensions**

59 1/2" w x 83 1/4" h 16" d Protrusion from wall: 85 Cabinet Material: 3/4" Ply core or MDF

Quantity	Description	Width	Length	Edge Banding
4	Bed Face Panels	14 3/8"	77 5/16"	All 4 Edges
2	Side Boards	16"	83 1/4"	One long Edge (front)
1	Headboard	14 1/4"	58"	One Long Edge (top)
1	Bridge Board	14 1/4"	58"	No Edge banding
1	Top Fascia	2"	58"	One Long Edge (bottom)
1	Rear Stretcher	6"	58"	One Long Edge (top)
1	Front Stretcher	4"	58"	One Long Edge (top)

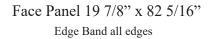
Wallbed Desk Cut List (King Bed)			Desk Dimensions	
			Depth 21 3/4" Width 59 1/2" Height (desk surface from floor) 28 3/4" Protrusion from Murphy Bed front 22 1/2" Material: 3/4" Ply core or MDF	
Quantity	Description	Width	Length	Edge Banding
1	Desk top	22"	56 1/4"	One long Edge (front)
1	Desk Back Riser	8 1/2"	56 1/4"	One Long Edge (top)

FOR BEST RESULTS IT IS STRONGLY RECOMMENDED TO CONSTRUCT MURPHY BED CAB-INET USING 4 X 8 PLY CORE (FURNITURE GRADE) PANELS. MDF MAY BE USED. PARTICLE BOARD CANNOT BE USED FOR THIS PROJECT.

Twin Be	ed		Overall Cabinet Dimensions		
Mattress Size: 39" x 75" 12" Max thickness			44 1/2" w x 83 1/4" h 16" d Protrusion from wall: 85 Cabinet Material: 3/4" Ply core or MDF		
Quantity	Description	Width	Length	Edge Banding	
2	Bed Face Panels	21 1/4"	77 5/16"	All 4 Edges	
2	Side Boards	16"	83 1/4"	One long Edge (front)	
1	Headboard	14 1/4"	43" One Long Edge (top)		
1	Bridge Board	14 1/4"	43"	No Edge banding	
1	Top Fascia	2"	43"	One Long Edge (bottom)	
1	Rear Stretcher	6"	43"	One Long Edge (top)	
1	Front Stretcher	4"	43" One Long Edge (top)		

Wallbed Desk Cut List (King Bed)			Desk Dimensions		
			Depth 21 3/4"		
			Width 44 1/4' Height (desk	surface from floor) 28 3/4"	
			Protrusion fro	om Murphy Bed front 22 1/2" ' Ply core or MDF	
Quantity	Description	Width	Length	Edge Banding	
1	Desk top	22"	41 1/4"	One long Edge (front)	
1	Desk Back Riser 8 1/2"		41 1/4"	One Long Edge (top)	

King Size Bed Suggested panel layout using 4' x 8' panels



48"

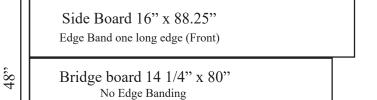
48"

48"

48"

Face Panel 19 7/8" x 82 5/16" Edge Band all edges

Face Panel 19 7/8" x 82 5/16" Edge Band all edges



Edge Band one long

edge (top)

Edge Band

one long

edge (top)

Desk Back Riser 8 1/2" x 78 1/4" Edge Band one long edge (top)

Top Fascia 2'' x 80".

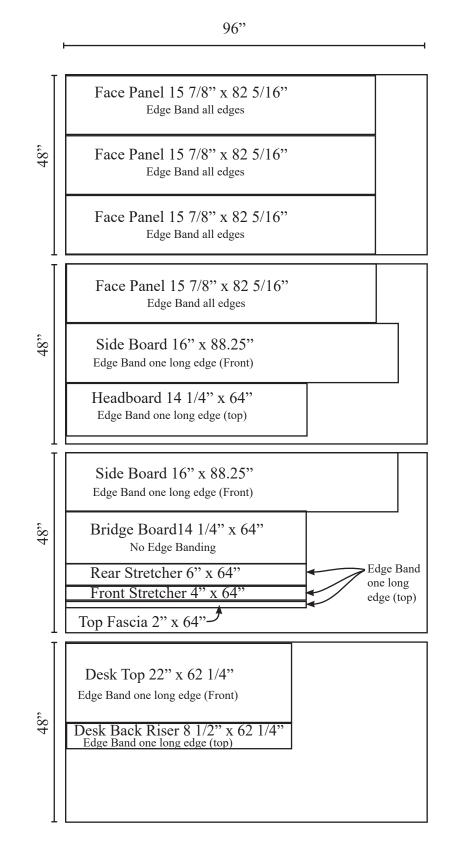
Side Board 16" x 88.25" Edge Band one long edge (Front)

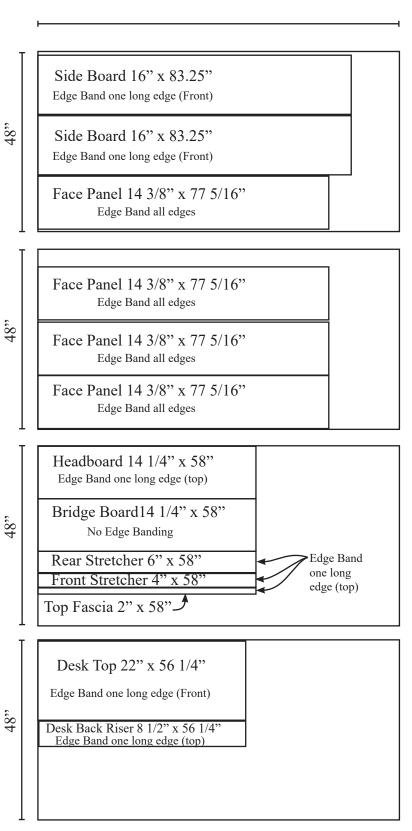
Headboard 14 1/4" x 80" Edge Band one long edge (top)

Rear Stretcher 6" x 80" Front Stretcher 4" x 80"

> Desk Top 22" x 78 1/4" Edge Band one long edge (Front)

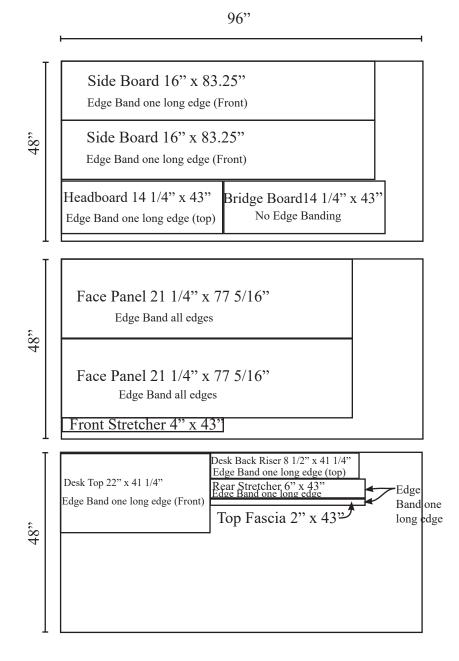
Queen Size Bed Suggested panel layout using 4' x 8' panels





96"

Twin Size Bed Suggested panel layout using 4' x 8' panels



Step 1: Milling Side Boards for Lift Mechanisms

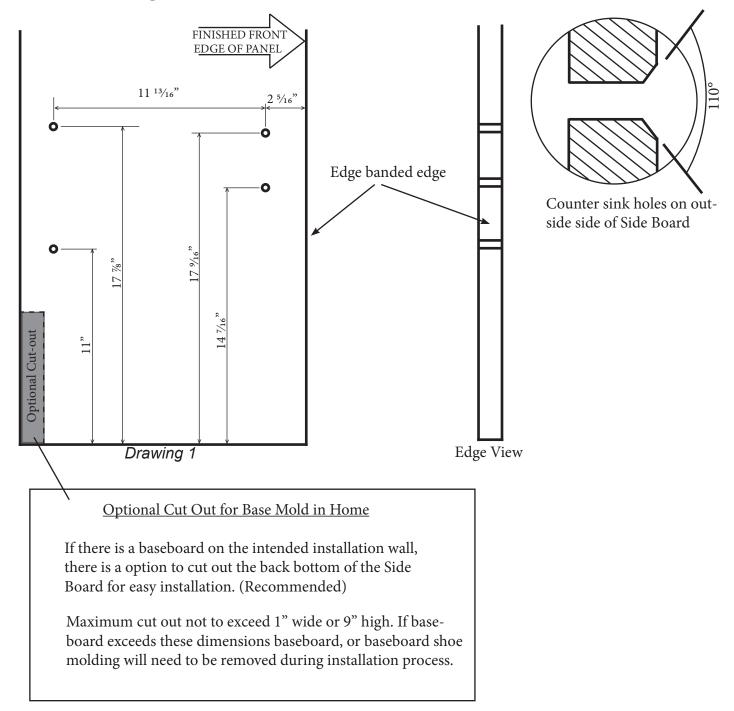
-Drill holes for lift mechanisms in the Side Boards (<u>mirror holes for left and right side boards</u>) by marking exact hole location on the inside side of the Side Boards using illustration below.

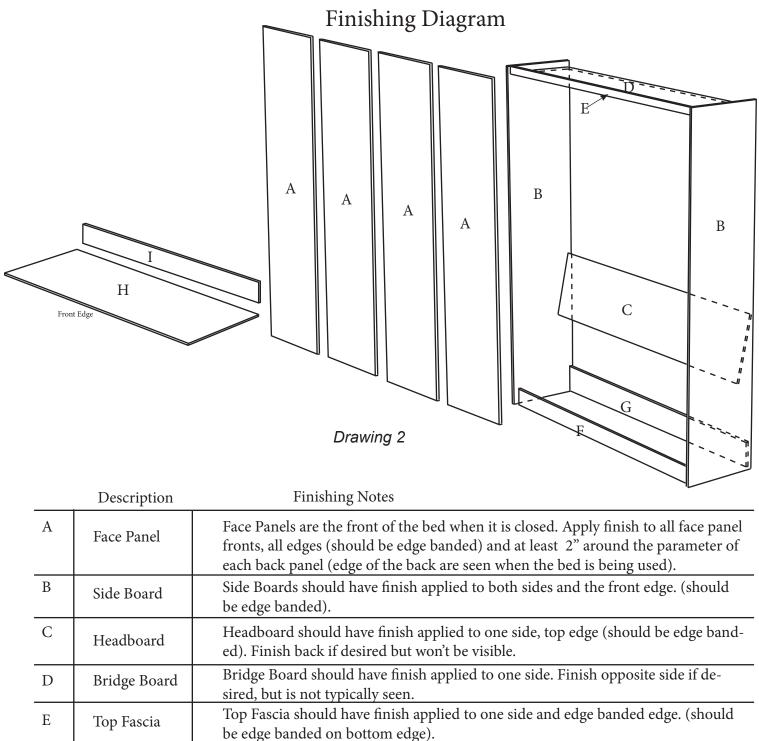
- Drill a 1/16" pilot hole for each mounting bolt. Then drill the final hole with a 5/16" bit.

- Countersink 5/8" on the outside of the panels just deep enough for the 5/16" x 1.25" Machine screws. (Found in the Mechanism box Pack 2).

Right Side Board illustrated

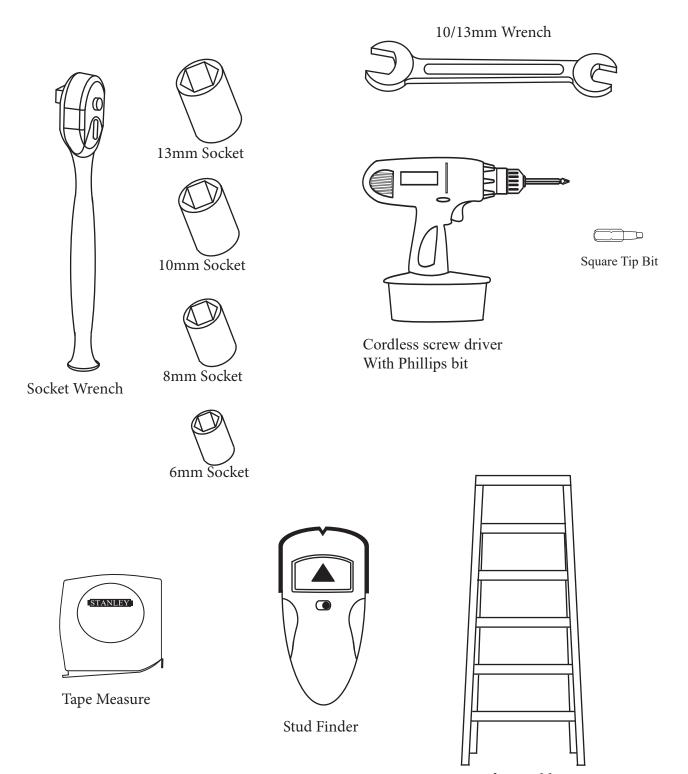
(Inside panel side)





		be eage builded on bottom eage).
F	Front Stretcher	Front Stretcher should have finish applied to one side and one edge. (should be edge banded).
G	Rear Stretcher	Rear Stretcher should have finish applied to one side and one edge. (should be edge banded).
Η	Desk Top	Desk Top should have finish applied to one side (bottom side if desired) and front edge. (should be edge banded on front edge).
Ι	Desk Back Riser	Desk Back Riser should have finish applied to one side and one edge. (should be edge banded on one edge).

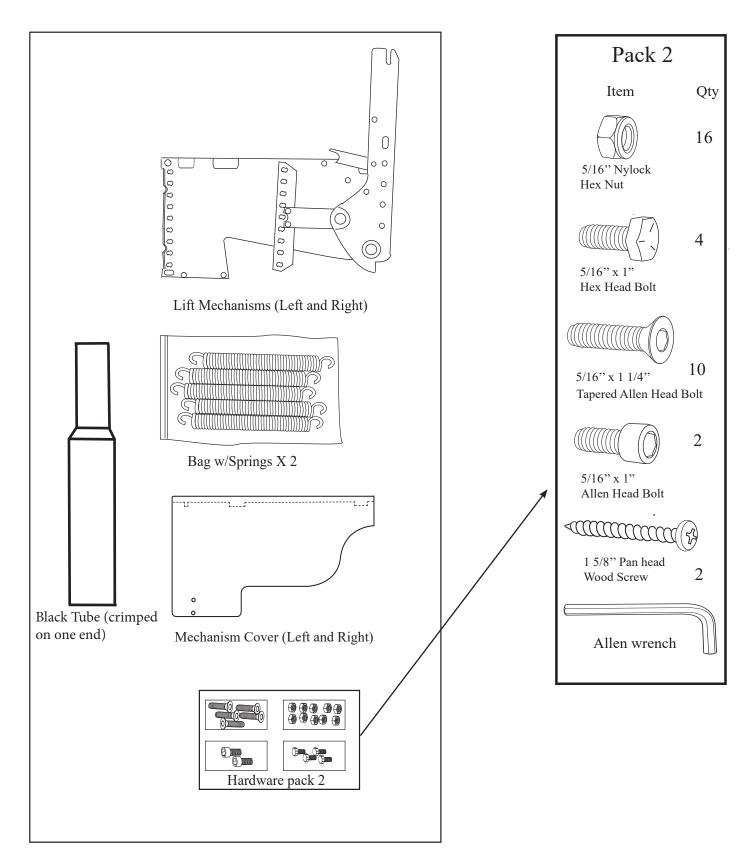
Tools Needed For Assembly and installation of Cabinet and Lift Mechanism.



6-foot Ladder

Begin Assembling Murphy Bed

Locate Mechanism box (Labeled SBLM) including Hardware Pack 2



Hardware needed for next step:

(From box labeled SBLM)

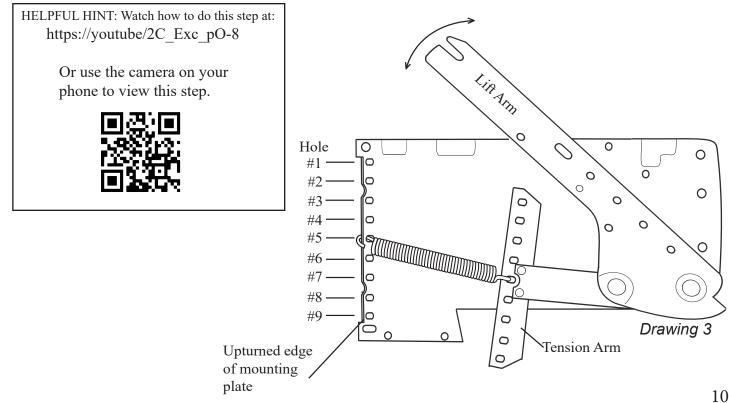
Step 3: Installing the Springs	Bed Size	Number of	of Springs
	King	Ply core 8	MDF 9
The required number of springs in the Lift Mechanisms varies with the different size	Queen	Ply core 7	MDF 8
Murphy Bed, material used and mattress weight. These values are approximate.	Full/Double	Ply core 5	MDF 6
	Twin/Single	Ply core 3	MDF 4

Install a spring into hole 5 by hooking one end of the spring into the hole on the Upturned edge of the mechanism plate King first then manipulate the Lift Arm back and forth slightly while placing the other end of the spring in the Tension arm into the corresponding hole. Now place a spring into the following holes in this order 4, 3, 2, 1 then into holes 6, 7, 8, 9. You Size Bed will need a total of 9 springs installed for a King size bed.

Install a spring into hole 5 by hooking one end of the spring into the hole on the Upturned edge of the mechanism plate Queen first then manipulate the Lift Arm back and forth slightly while placing the other end of the spring in the Tension arm into Size Bed the corresponding hole. Now place a spring into the following holes in this order 4, 6 then into holes 3, 7 then 2, 8. You will need a total of 7 springs installed for a queen size bed. MDF add one more spring per side.

Install a spring into hole 5 by hooking one end of the spring into the hole on the Upturned edge of the mechanism plate Full first then manipulate the Lift Arm back and forth slightly while placing the other end of the spring in the Tension arm into Size Bed the corresponding hole. Now place a spring into the following holes in this order 4, 6. Then 3, 7. You will need a total of 5 springs installed for a full size bed. MDF add one more spring per side.

Install a spring into hole 5 by hooking one end of the spring into the hole on the Upturned edge of the mechanism plate first then manipulate the Lift Arm back and forth slightly while placing the other end of the spring in the Tension arm into Twin the corresponding hole. Now place a spring into the following holes in this order 4, the holes 6. You will need a total of 3 Size Bed springs installed for a twin size bed. MDF add one more spring per side.



Hardware needed for next step from Pack #2



Tapered Allen Head Bolt

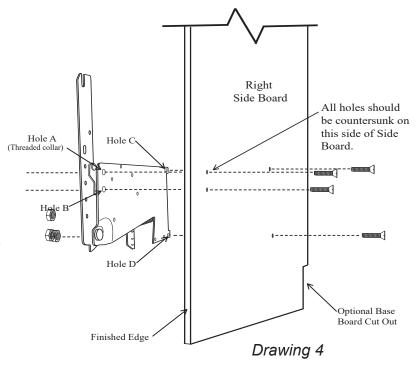
5/16" Nylock Nut

Step 4: Installing the Lift Mechanism

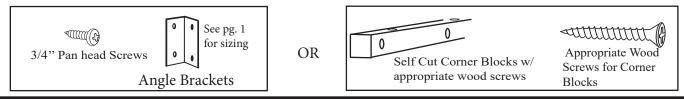
Install the Lift Mechanism to the Side Board first by inserting a $5/16 \ge 11/4$ " Tapered Allen Head Bolt through holes B, C and D from the outside (countersunk holes) of the Side Board. The bolts go through the corresponding holes of the Lift Mechanism. Now thread a bolt into hole A as illustrated. Thread on three 5/16" Nylock nuts and tighten hardware. Hole "A" has a threaded collar instead of a nut.

IMPORTANT! Over tightening the bolts will pull the head of the bolt too deeply into the Side Board. Tighten only until the head of the bolt is flush with the surface of the Side Board.

Repeat step 3 with the Left Side Board and Lift Mechanism.



Hardware needed for next step (Supplied Locally)



Step 5: Assembling the Bed Cabinet Surround

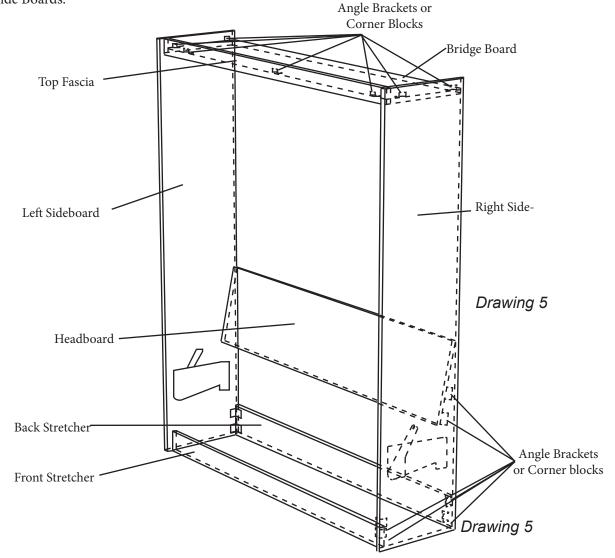
Bed Cabinet should be assembled in the room where it will be used

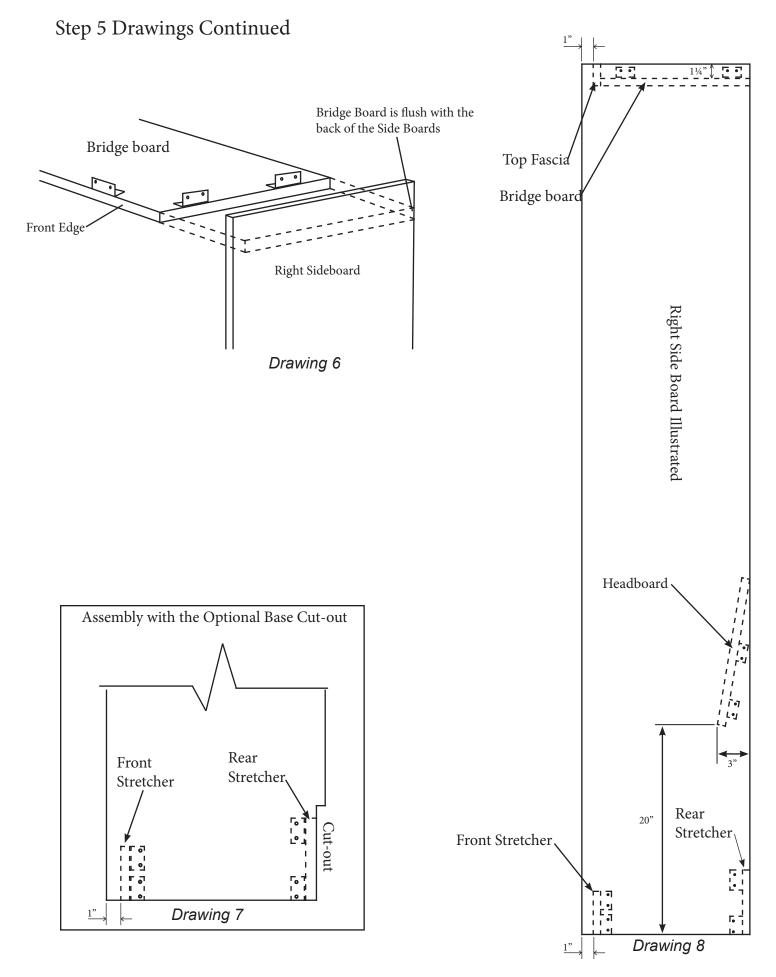
1. Locate the mounting position of the Headboard marking the left and right Side Boards 20" from the floor and 3" in from the back edge of the Side Boards See Drawing 8. Note from Drawing 8 that the Headboard sits at an angle and the bottom edge of the Headboard is out 3" from the back of the Side Boards. Use Corner Brackets or Corner Blocks (supplied locally). Note that the Angle Bracket or Corner Block cannot protrude beyond the back of the Side Boards. The Headboard location may vary slightly; just be sure it is secure and at the approximate 3" distance from the back edge.

2. Use Angle Brackets or Corner Blocks to assemble Front and Back Stretchers in positions shown in Drawings 5, 7, & 8. Use two Angle Brackets or Corner Blocks on each end. Note the Front Stretcher is 1" back from the front edge of the Side Boards.

3. Attach Bridge Board as shown in Drawings 5 & 8. Be sure back edge of the Bridge Board is flush with back of Side Boards and 1 1/4" down from the top of the Side Boards so it is flush with the bottom edge of the Top Fascia. The Top Fascia will cover the front edge of the Bridge Board.

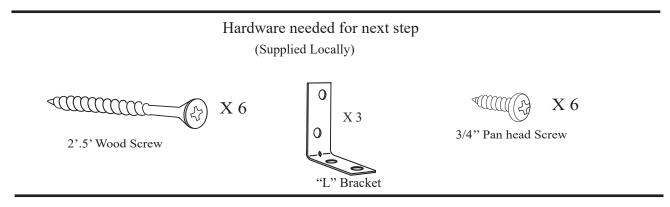
4. Attach the Top Fascia to the front edge of the Bridge Board using Angle Brackets or Corner Blocks as shown in Drawing 5 & 8. Note the Top Fascia covers the front edge of the Bridge Board and is flush with the bottom. The Top Fascia should be 1" back from the front of the Side Boards.





WARNING! THE NEXT STEP MAY REQUIRE PROFESSIONAL HELP.

IF YOUR WALLS ARE NOT TRADITIONAL WOOD FRAMING, YOU MAY NEED TO HIRE A HANDY MAN OR CONTRACTOR TO HELP IN ANCHORING THE BED TO YOUR WALL. FAILURE TO PROPERLY AN-CHOR CABINET COULD CAUSE SEVERE PERSONAL INJURY. CALL TECHNICAL SUPPORT AT 866-725-6401 IF YOU HAVE ANY QUESTIONS.



Step 6: Installing the Bed Cabinet Surround to the Wall

Using a Stud Finder locate and mark the studs in your wall directly above the Bed Cabinet. Attach "L" brackets to the top, back of the Bed Cabinet using 5/8" Pan Head screws corresponding to where the studs are located in your wall. Now attach the "L" brackets to the studs in the wall using six 2.5" wood screws. See illustration 6

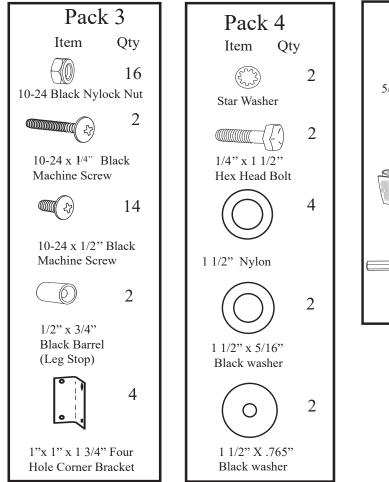
IMPORTANT! King, Queen and Full size beds require 3 studs, Twin size beds require 2 studs. It is VERY important that the bed cabinet be anchored securely to the wall. If the bed is not anchored properly the Bed Cabinet will fall causing death or serious injury. For technical support call 866-725-**STUD** 6401 toll free. 2.5" Wood Screw "L" Bracket 0 mmmmmm Studs in your wall annnnnnn 5/8" Pam Head Screw Illustration 6 Drawing 9 **Bed** Cabinet

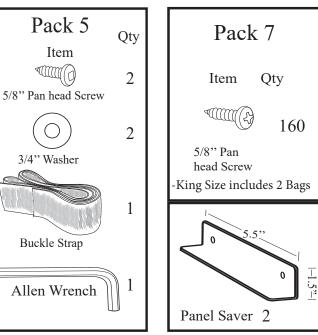
List of Contents from Rail Box

Labeled Panel Bed Steel Frame BED RAILS, STIFFENERS, AND LEGS LOCATED IN BOX:

Qty.	Frame Carton Items	Comments
2	Head(1) Foot(1) Rails	Identical Head & Foot King Length 77-3/8" Queen Length 61-7/16" Full Length 55-3/8" Twin Length 40-7/16"
2	Side Rails	Identical Right & Left (Longest rails) King Length 80-15/16" Queen Length 80-15/16" Full Length 75-15/16" Twin Length 75-15/16"
3 (5)	Stiffeners	U Shaped mental lengths 3 for Q,F,T (King) size
2	Folding Legs	One Left - One Right
1	Leg Connector Bar	Round bar Stabilizes and Eases Leg Operation

HARDWARE PACKS LOCATED IN BOX:

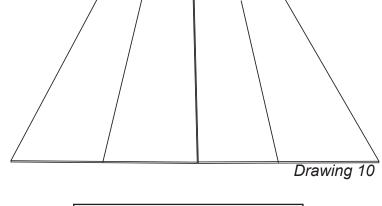




Important note: It is critical to orient the Bed Face panels and the Mattress Rails in the next 6 steps correctly. All of the drawings in the next 6 steps assume that you are <u>looking away from the wall you just installed the Bed Cabinet against</u> in the previous step. There is noted under each of the following renderings indicating "your bed cabinet installed on this side" which indicates that is where the Bed Cabinet is in relation to the face panels and rails.

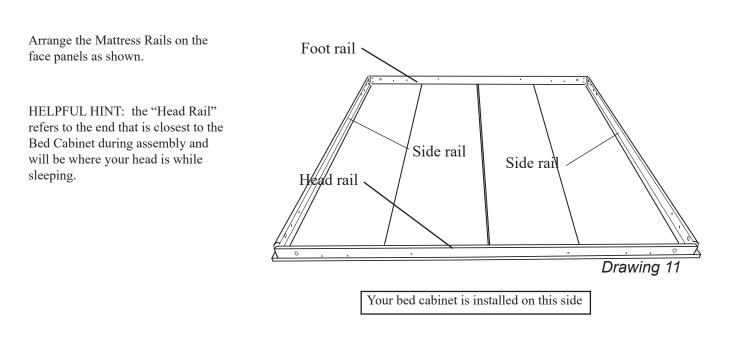
Step 7 : Assembling the Bed Face

Lay the Face Panels on the floor FACE DOWN (finished side). Position them in front of where the Bed Cabinet was installed in the last step and leave enough room to work around them.

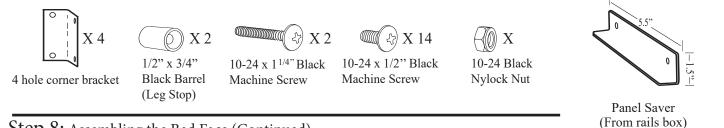


Your bed cabinet is installed on this side

Locate parts for next step from box labeled Panel Bed Steel Frame

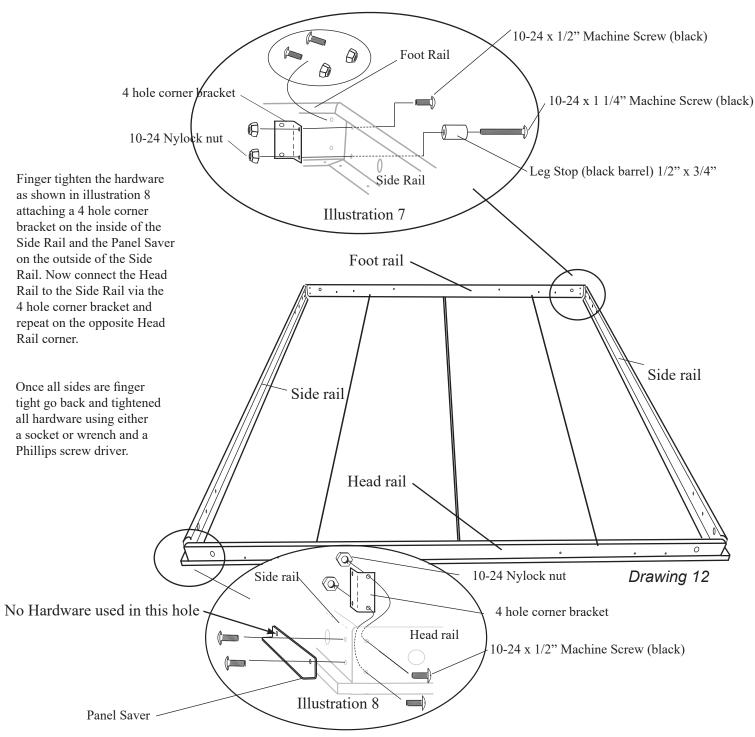


Hardware needed for next 2 steps most from Pack #3



Step 8: Assembling the Bed Face (Continued)

From hardware pack 3 locate the hardware shown above. Finger tighten the hardware as shown in illustration 7 connecting the Foot Rail to the Side Rail using the 4 hole corner bracket. Note the lower hole on each Side Rail uses the Leg Stop with the longer screw (1 1/4" Machine). Repeat step on the opposite Side Rail corner.

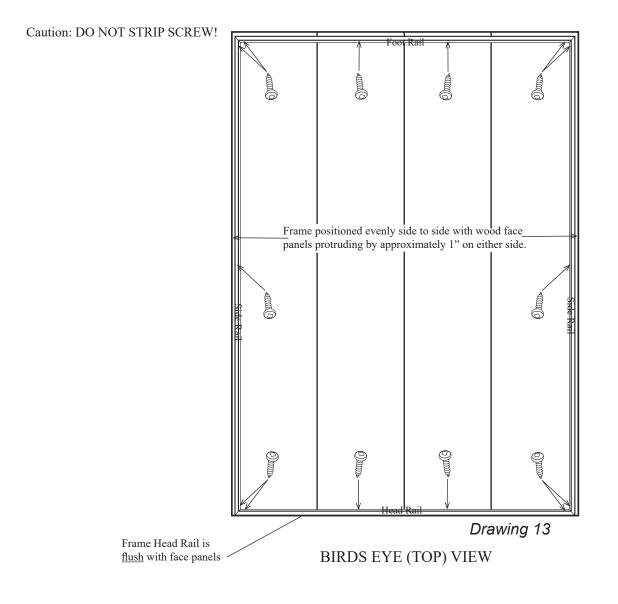


Hardware and parts needed for next steps

(Hardware pack #7)

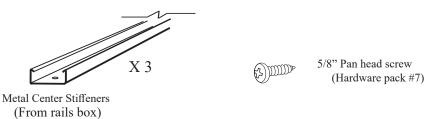
Step 8: Assembling the Bed Face (Continued)

Center the assembled frame side to side on the face panels (leaving approximately 1" space on either side) and bring the <u>Head Rail flush to the</u> <u>end of the Face Panels</u>. Once the frame is positioned correctly and the panels and rails are even and square to each other use 2 screws in each corner, 1 in each panel's Head and Foot rail, and 1 in the middle of each Side Rail as illustrated to hold assembly in place. With the rails held in place, use 5/8" screws in each of the remaining holes around the frame.



QUEEN, FULL AND TWIN SIZE BEDS See KING SIZE on next page

Hardware and parts needed for next steps

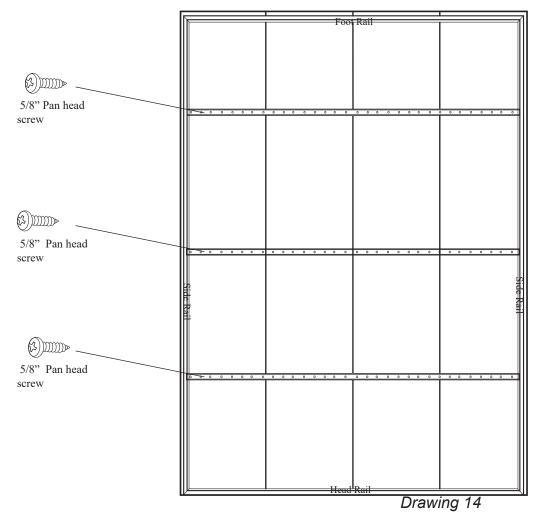


Step 9: Assembling the Bed Face Queen, Full and Twin (Continued)

Position the 3 Metal Stiffeners evenly in the space provided between the Head and Foot Rails as illustrated below. Now use the 5/8" screws to fasten the Stiffeners to the Face Panels using all provided holes in the Stiffeners. DO NOT STRIP SCREWS.

Note: Occasionally one of the holes in the Center Stiffeners will be positioned where the seam of the face panels come together. In this case you do not need to put a screw in where it will wedge between two panels.

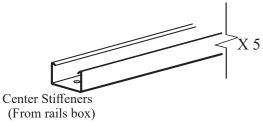
FOR KING SIZE SEE NEXT PAGE



BIRDS EYE (TOP) VIEW

KING SIZE BED ONLY LAYOUT

Hardware and parts needed for next steps



(3)) X Approx.125

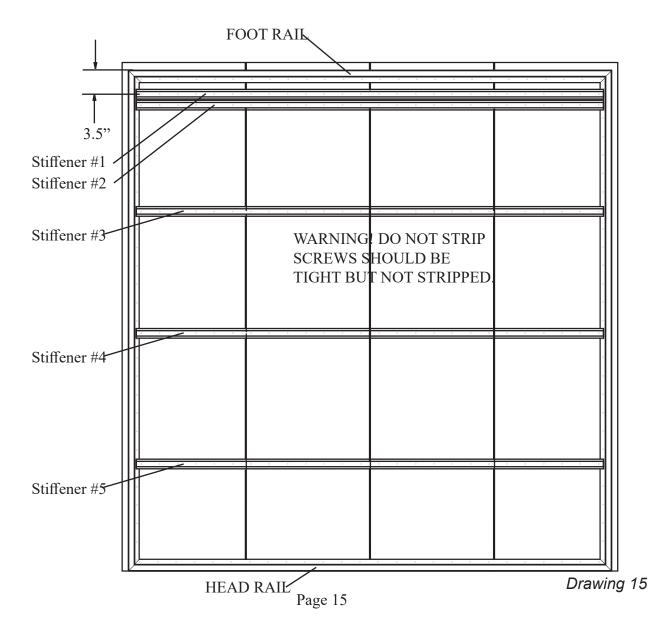
5/8" Pan head screw (Hardware pack 7)

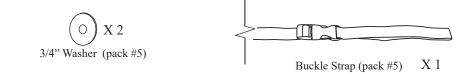
Step 9: Assembling the Bed Face KING SIZE ONLY (Continued)

On a king size frame, place the five Center Stiffeners across the backs of the Face Panels as illustrated below. The Stiffeners will overlap the bottom flange of the Side Rails. Note Stiffener #1 (near the foot rail) is positioned 3.5" from the end of the METAL FRAME so that the center of the Stiffener lines up with the 5/8" hole in the Side Rails. Stiffener #2 butts up against stiffener #1 and Stiffeners #3-5 are spaced evenly in the remaining space.

With the remaining 5/8" Pan head screws from hardware pack 7 attach the center stiffeners to the backs of the Face Panels through all of the provided holes in the stiffeners. DO NOT STRIP SCREWS.

Note: Occasionally one of the holes in the Center Stiffeners will be positioned where the seam of the face panels come together. In this case you do not need to put a screw in where it will wedge between two panels.

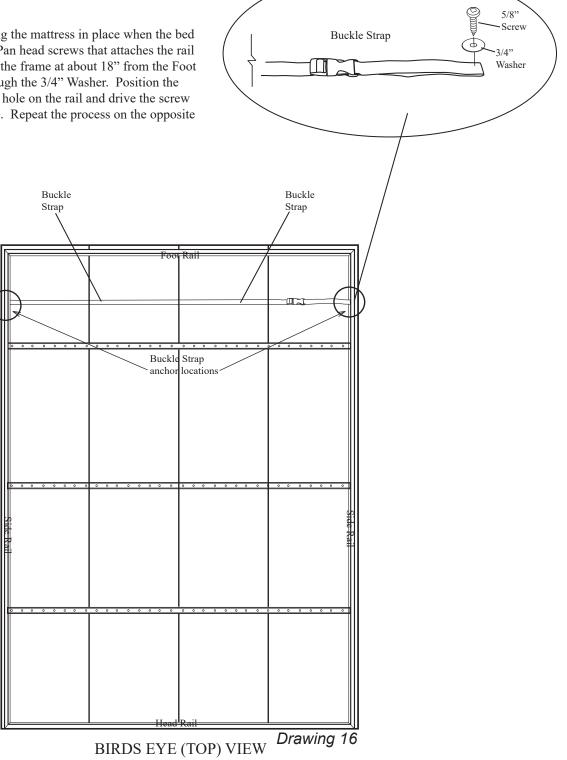




Step 10: Installing the Mattress Strap

Attach the Buckle Strap used for holding the mattress in place when the bed is closed. First <u>remove</u> one of the 5/8" Pan head screws that attaches the rail to the Face Panels on each Side Rail of the frame at about 18" from the Foot Rail. Then put the removed screw through the 3/4" Washer. Position the end of the Strap over the vacated screw hole on the rail and drive the screw through the strap and back into the hole. Repeat the process on the opposite Side Rail.

18" +/-



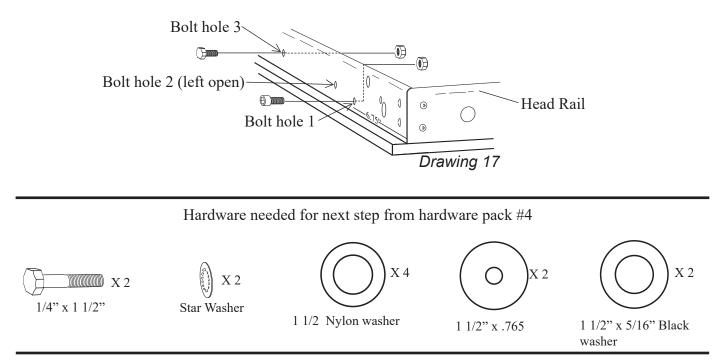
 X 4
 X 2

 5/16" Nylock Nut
 5/16" x 1" Hex Head Bolt

Hardware needed for next step from hardware pack #2

Step 11: Assembling the Bed Face (Continued)

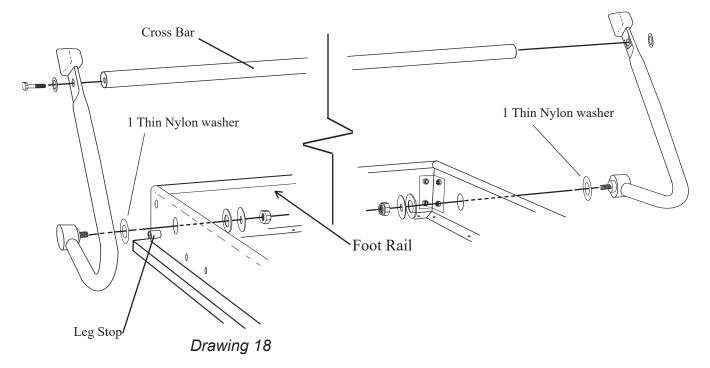
As illustrated below, insert the Allen Head Bolt through bolt hole # 1 and tighten it down securely using a Nylock Nut. Now insert a 5/16" x 1" Hex Head bolt through hole # 3 and thread the Nylock nut ONLY UNTIL THE NUT IS FLUSH WITH THE END OF THE BOLT. Bolt hole #2 will be used in a later step and is left open for now.



Step 12: Installing the Legs

Attach the Leg Assembly to the FOOT RAIL side of the frame as illustrated below. Use 1 Nylon washers on the out side of the frame for proper spacing.

Position the Cross Bar between the Legs. Place the Star washer on one of the 1/4" X 1 1/2" Hex Head bolts.

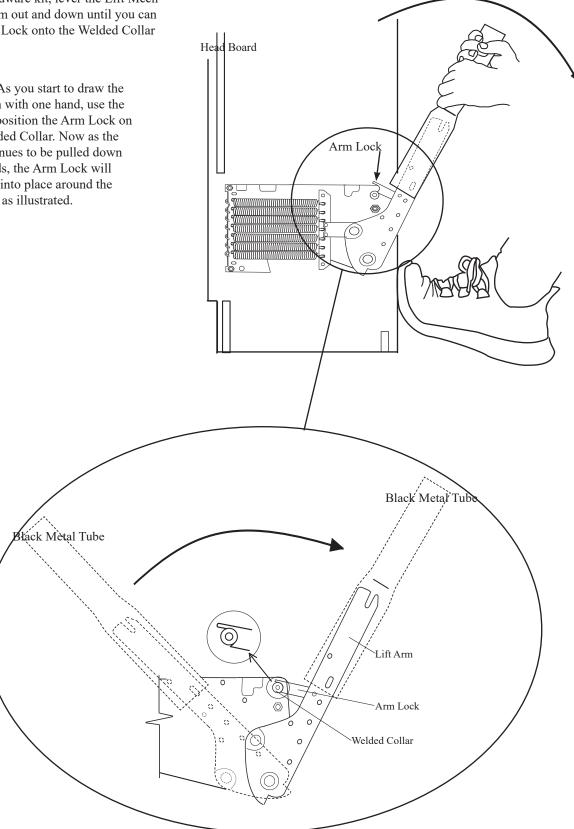


WARNING: There is tremendous force involved in the next step, do not place hands between the front of the Side Boards and the Tension Arms as you set the mechanism.

Step 13: Loading the Lift Mechanism

Brace one foot against the front edge of the Side Board and using the 14.5" black metal tubing provided in hardware kit, lever the Lift Mechanism's Lift Arm out and down until you can secure the Arm Lock onto the Welded Collar shown at right.

Helpful hint: As you start to draw the Lift Arm down with one hand, use the other hand to position the Arm Lock on top of the Welded Collar. Now as the Lift Arm continues to be pulled down with both hands, the Arm Lock will naturally drop into place around the Welded Collar as illustrated.



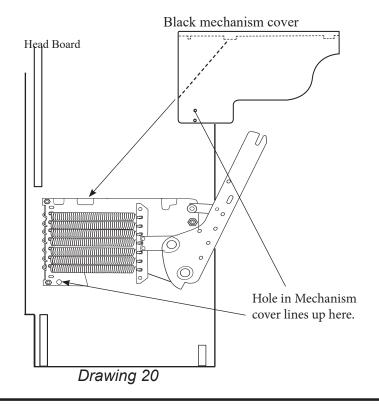
Hardware needed for next step from hardware pack #2



Wood Screw

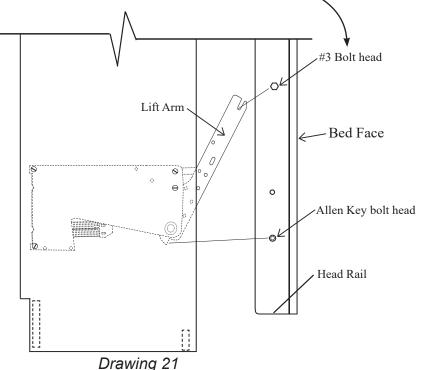
Slip the Mechanism Cover (from mechanism box) over the Mechanism so that the tabs on the cover fit into the notches provided. Line up the top hole with the barrel support and anchor in place using the 3/16° x 1 1/4° wood screw provided

Step 14: Installing the Spring Cover



Step 15: Installing the Bed Face on the Lift Mechanism

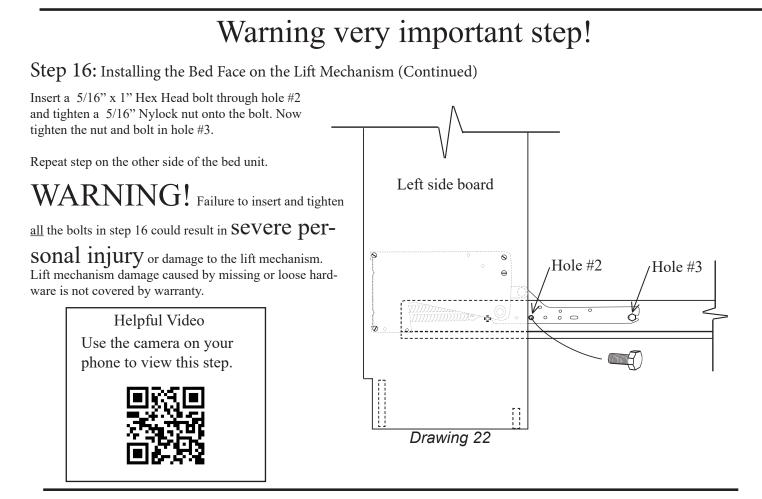
Two person Step: Stand the Bed Face unit up on its Head Rail. Now with you and your assistant on either side of the Bed Face unit lift until the # 3 bolt on the Side Rail is a few inches above the slotted end of the Lift Arm on both sides. Gently lower the Bed face unit between the Lift Arms and seat the #3 bolt into the slot at the end of the Lift Arms. Now start pulling the bed face unit down and away from the Bed Cabinet the Allen Head bolt will naturally seat into the notch at the lower end of the Lift Arms. Lower the bed unit down and extend the Legs so that they are on the floor. Someone will need to hold the bed unit down as it will want to rise.



Hardware needed for next step from hardware pack #2

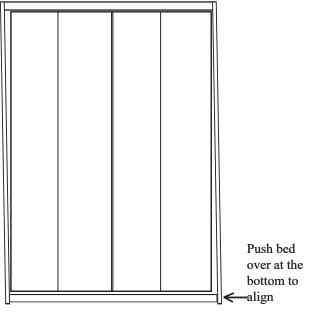
5/16" Nylock Nut

5/16" x 1" Hex Head Bolt



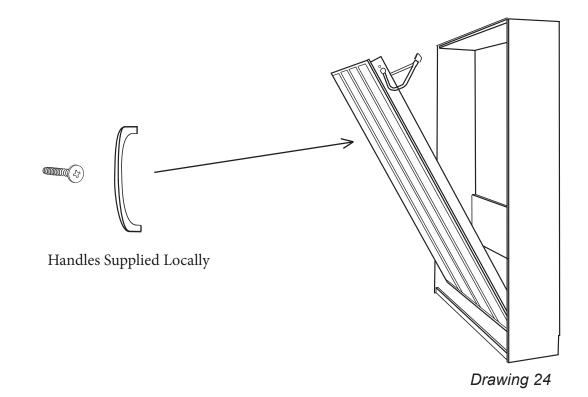
Step 17: Adjusting the Fit of the Bed Face

When the bed is closed, check to see if the gap on either side is the same. If the gap appears to be equal, skip this step. If the gaps are not right, meaning that the bed's face panel is too close to one sideboard, or, even toughing it at the top while the other side has a large gap it will need to be adjusted. The procedure will require the bottom of the bed to be moved slightly to the left of right depending on which side has the smaller gap. If the Bed Face is too close on the top right (see illustration) for instance, the right side (bottom) will be to be moved to the left slightly. Have one person push the bed at the bottom with their feet while the second person pulls at the opposite bottom side.

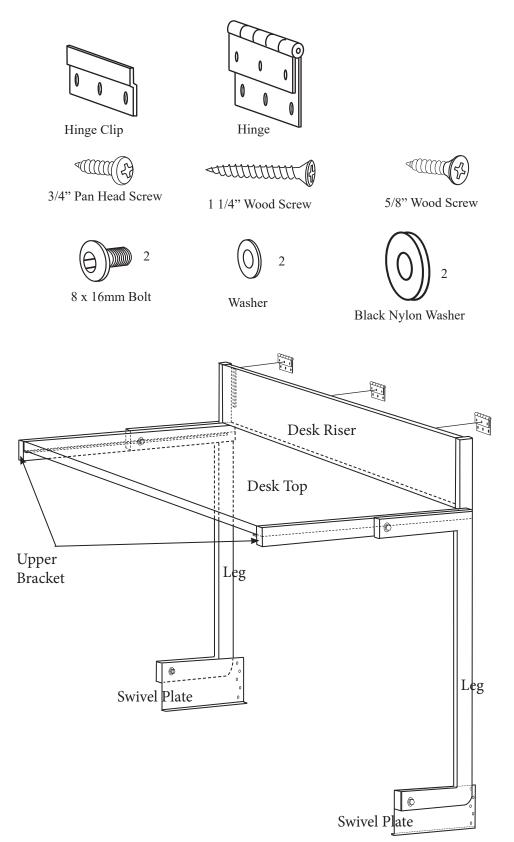


Step 18: Installing Handles (supplied locally)

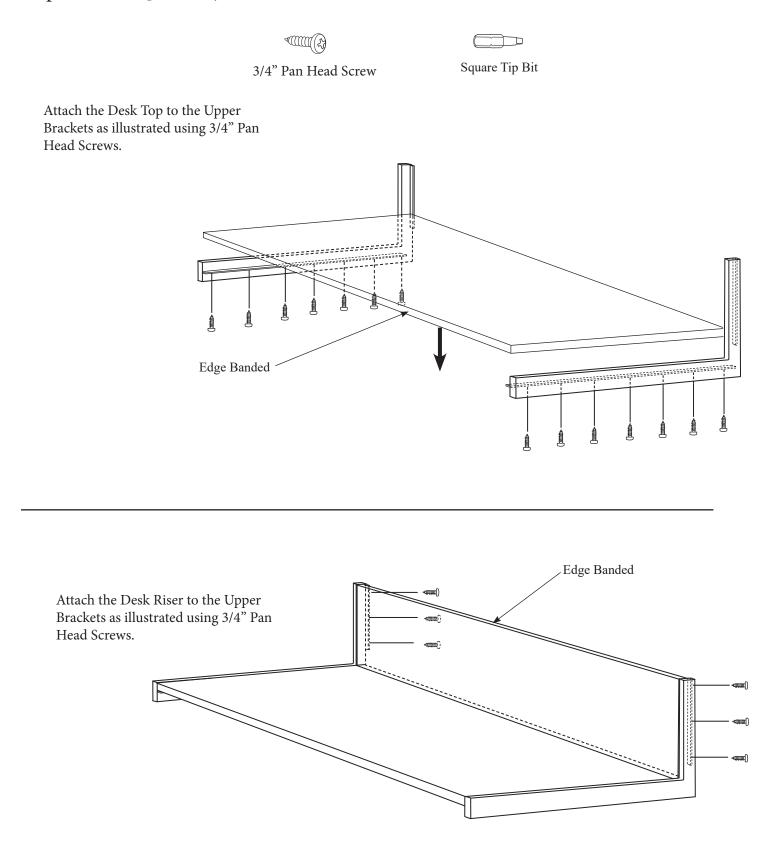
Measure and drill holes in the bed face where Handles are desired. Note Handles should be positioned more toward the top of the Bed Face for easier opening (Queen and King approx. 5 ft. from floor).

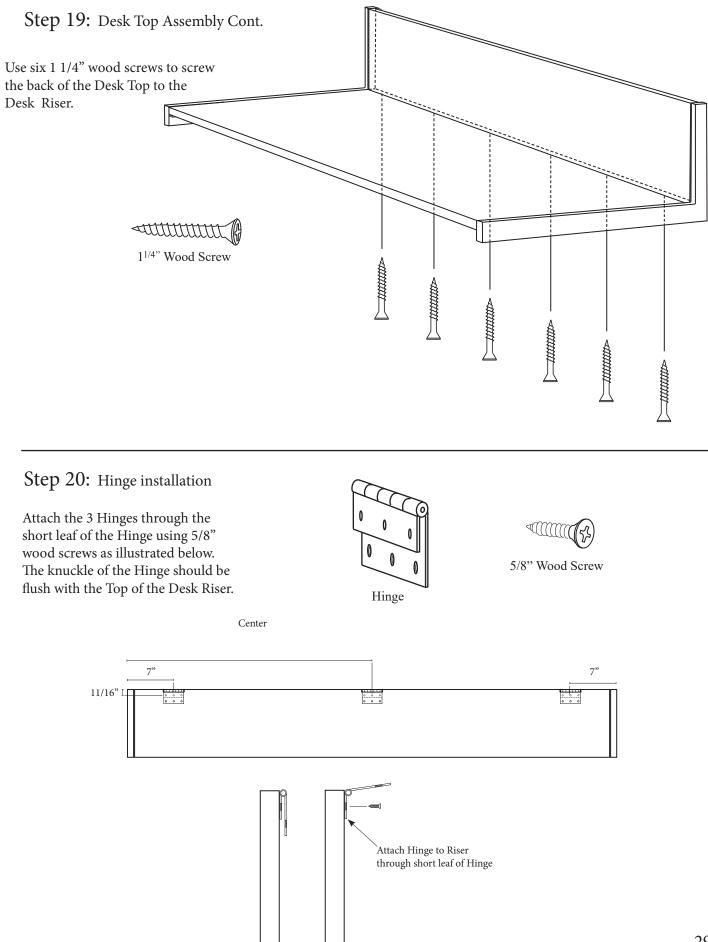


Desk Components Overview

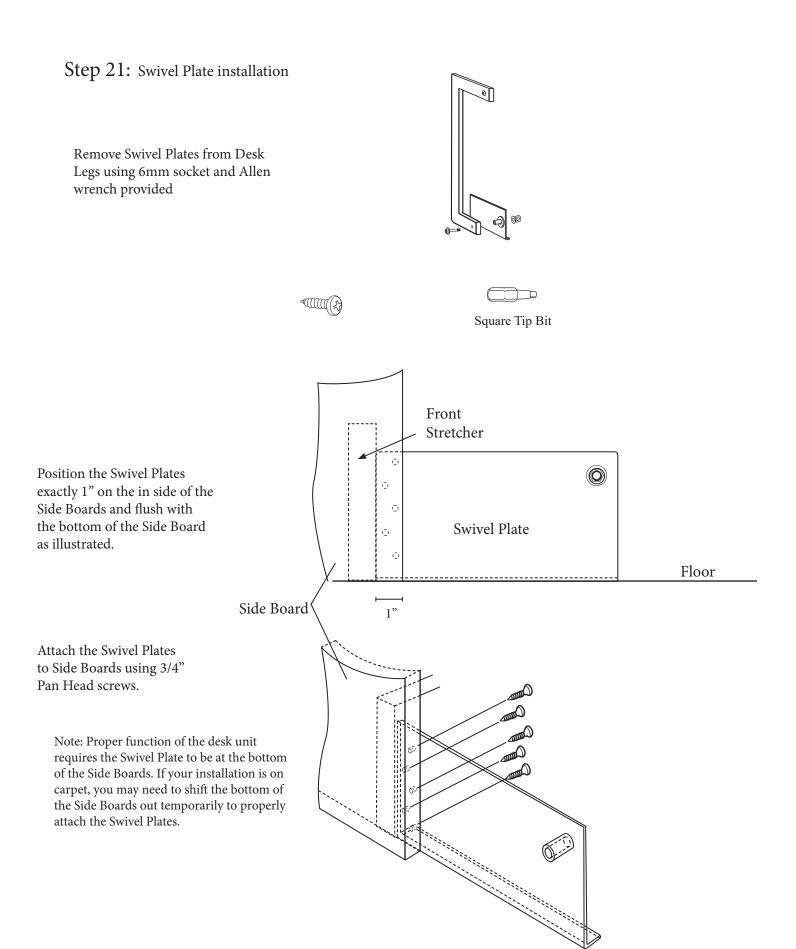


Step 19: Desk Top Assembly



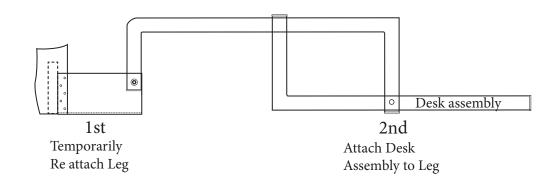


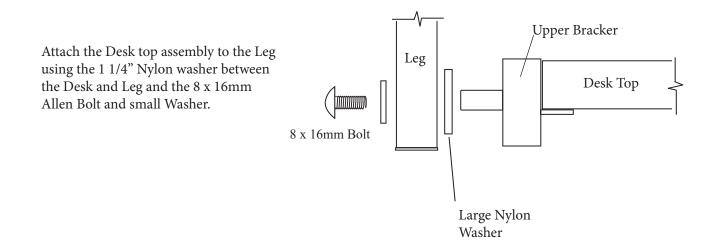
Side view



Step 22: Desk Assembly and Installation

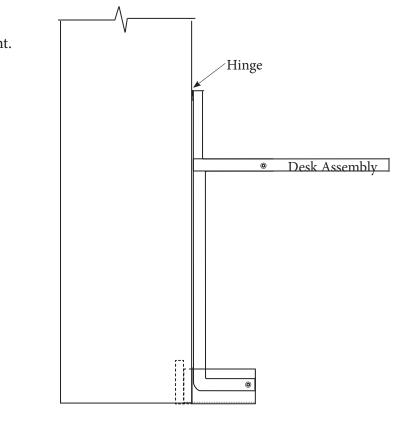
Place the Desk Leg back onto the swivel Plate and hand tighten using the hardware removed in the previous step (they will need to come apart one more time before final installation).



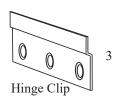


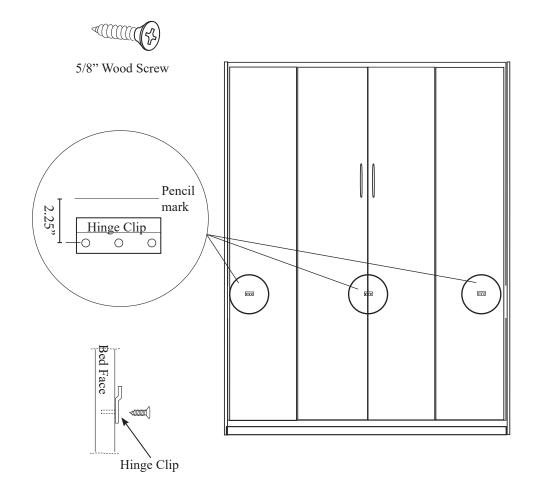
Step 22: Desk Assembly and Installation cont.

With help lift the Desk to the standing position and make sure it is <u>level</u> <u>side to side and front to</u> <u>back</u>. While it is held in that position lightly mark the Bed Face at the top of each hinge.



Lower the desk unit back to the floor and measure down 2.25" from your pencil marks and install the 3 Hinge Clips with the 5/8" screws.



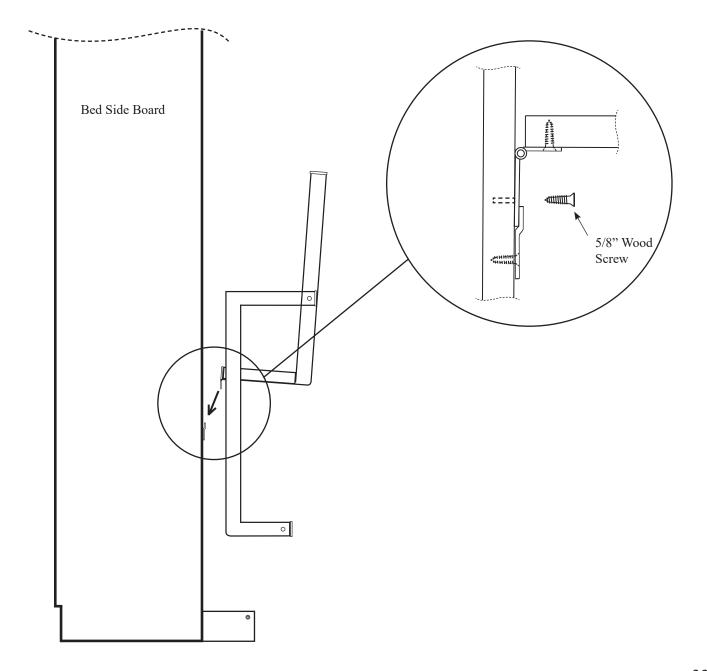


Step 22: Attaching Desk

Remove the Legs from the Swivel Plates and with help lift the Desk Unit and position the hinges into the Hinge Clips as illustrated. Use 9 -5/8" wood screws to attach all three hinges to the bed face.







Step 22: Attaching Desk Cont.

With help lower the Table and attach the Legs to the Swivel Plates using hardware removed in previos step.

> Caution Lower the Bed Slowly and watch the function of the Desk unit.

