

# ROOMTEC

## Murphy Bed Building Instruction Manual (Queen Vertical)



*Note: If you encounter any problems with the installation, missing or replacement parts, please Contact **ROOMTEC**.*

*Please also tell us your “**ORDER ID**,” we will solve the issue for you as soon as possible.*

*Customer Service: (800)209-3199 (MON -FRI 9:00am-5:00pm Eastern Time) or [hello@room-tec.com](mailto:hello@room-tec.com)*

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# PLEASE INSPECT YOUR BOX CONTENTS TO ENSURE YOU HAVE RECEIVED ALL COMPONENTS.

*Warning! This bed contains stored mechanical energy, which can cause serious injury if improperly handled. Your bed must be securely anchored to the wall! Read instructions and watch the video thoroughly before assembly and disassembly!*



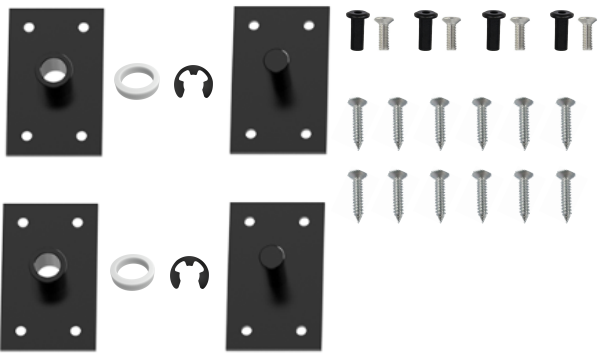
Online Video:  
[bit.ly/deluxeverticalvideo](http://bit.ly/deluxeverticalvideo)

## Tools Needed:

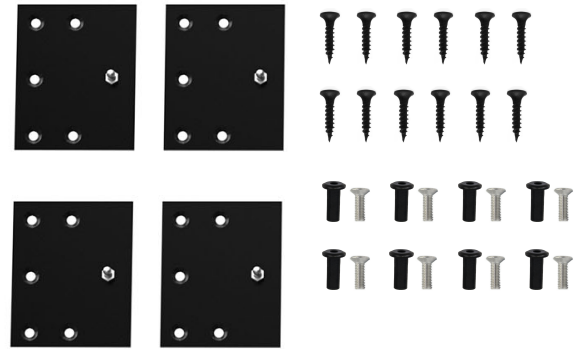
1	Power Drill Drill Bits: 1/8", 1/4", 5/16", 1" Forstner Bit, 5/8" Forstner Bit
2	Power Saw, Table Saw or Circular Saw
3	Jigsaw or Coping Saw
4	Phillips-Head and Flat-Head Screwdrivers or Driver Bits for Drill
5	Tape Measure
6	#4 Allen Wrench
7	Hammer
8	Clamps
9	Straight Edge or Framing Square
10	Household Iron for Veneer Tape and Utility Knife
11	Stud Finder



Two (2) Metal Pivoting Legs  
 Four (4) © Leg Support Rail SCREWS  
 Four (4) Black ⑥ SCREWS  
 Four (4) "T" Nuts with machine SCREWS



Two (2) pair of METAL PIVOTS  
 with two (2) plastic spacers  
 Two (2) "E" CLIPS  
 Four (4) "T" Nuts with MACHINE SCREWS  
 Twelve (12) ① silver SCREWS



Four (4) BALL STUD PLATES  
 with twelve (12) black ⑥ SCREWS  
 Eight (8) "T" Nuts with MACHINE  
 SCREWS



Two (2) GAS SPRINGS



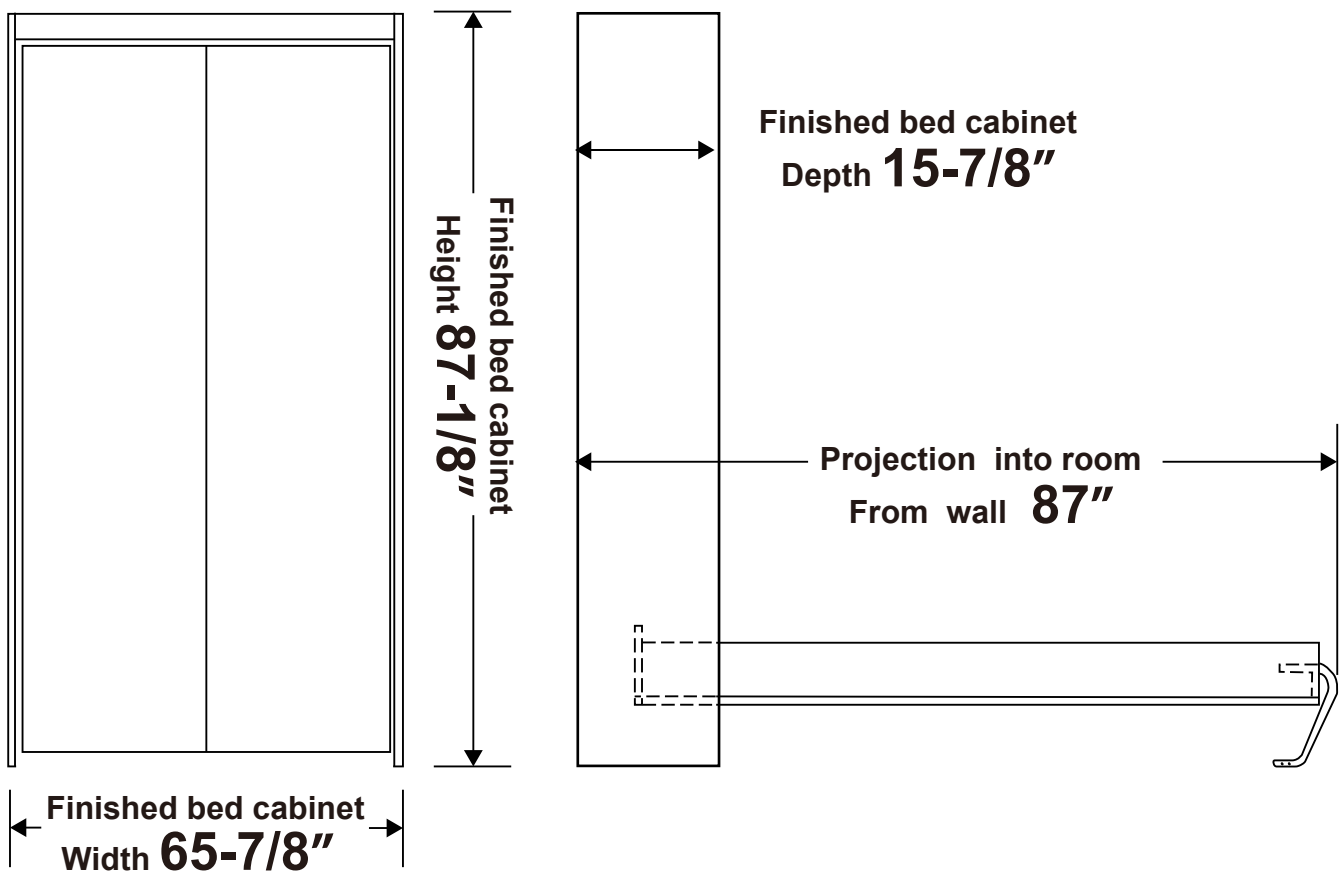
Two (2) BED STOPS with  
 Four (4) ⑥ black SCREWS



Two (2) ELASTIC MATTRESS  
 RETAINING STRAPS

# OUT-TO-OUT DIMENSIONS OF VERTICAL STYLE MURPHY BED CABINET

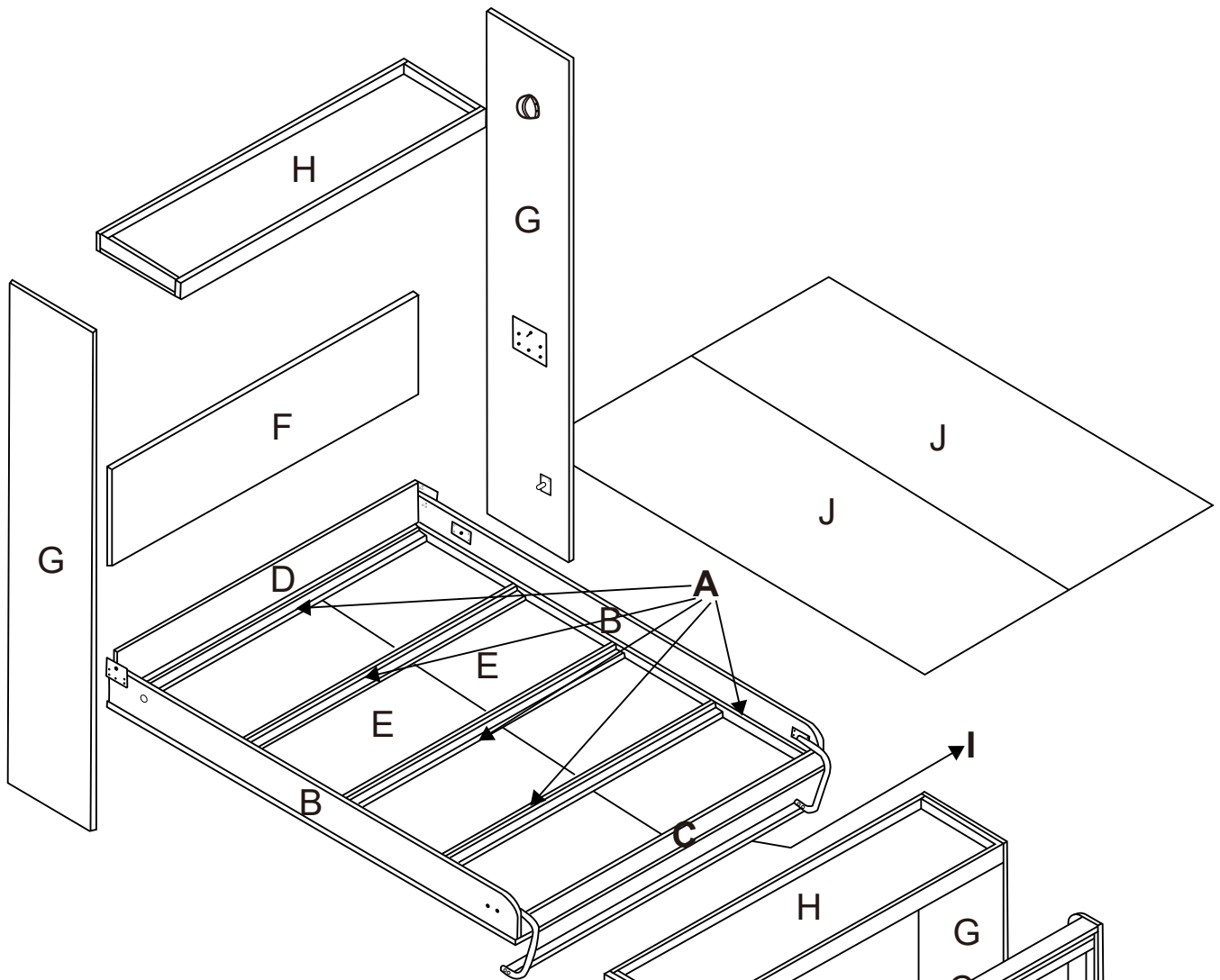
## OUTSIDE-EDGE TO OUTSIDE-EDGE FINISHED VERTICAL BED CABINET DIMENSIONS



### **Note:**

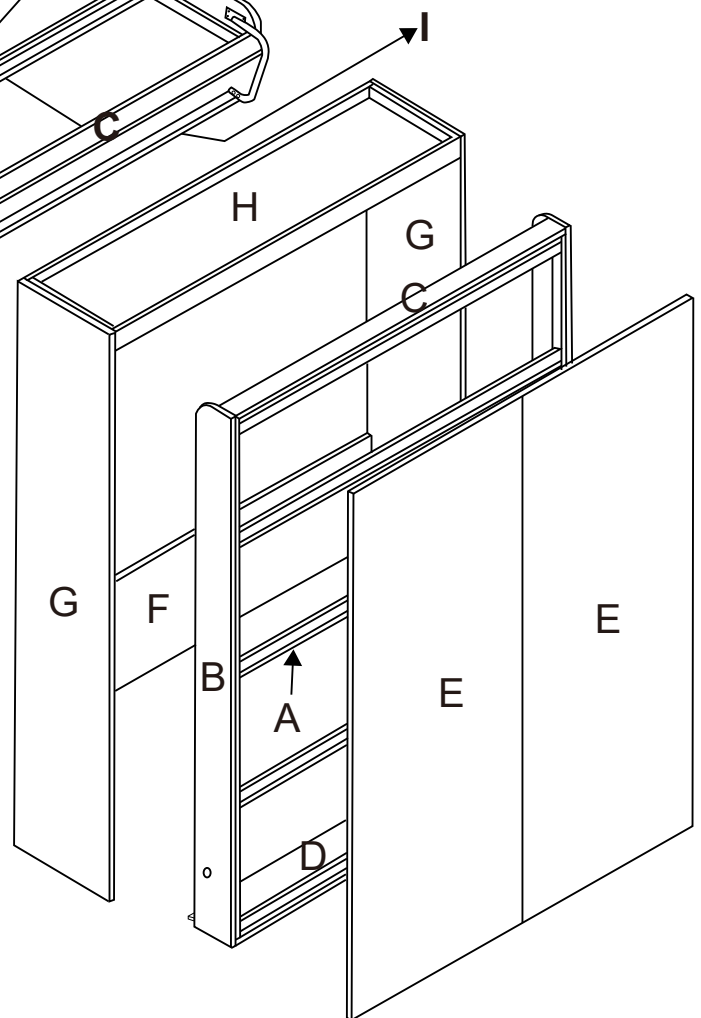
Your mattress dimensions must not exceed 60"x 80".

Mattress thickness CANNOT exceed 12" in thickness-including pillow top.



## Components of finished murphy bed

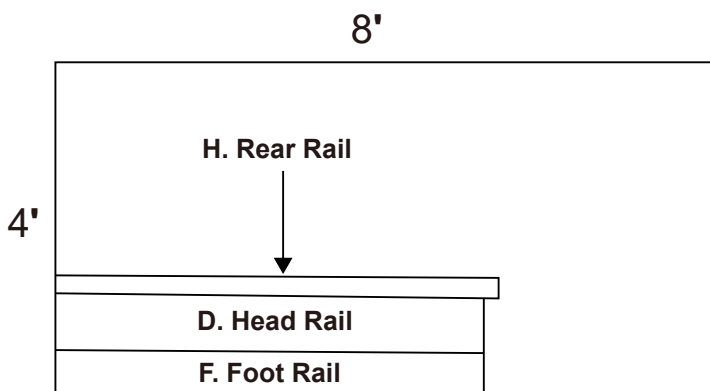
- A. Inner Wood Bed Frame
- B. Side Rails
- C. Foot Rail
- D. Head Rail
- E. Bed Face Panels
- F. Bed Headboard
- G. Bed Cabinet Verticals
- H. Bed Header
- I. Leg Support Rail
- J. 1/4" Plywood Mattress Support



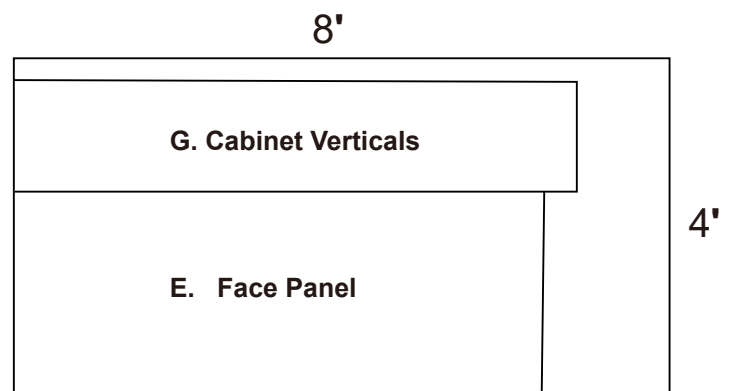
# QUEEN SIZE DELUXE KIT VERTICAL BED PLYWOOD CUTTING GUIDE

Requires: 4 sheets of 3/4" x 4' x 8' and 2 sheets of 1/4" x 4' x 8'

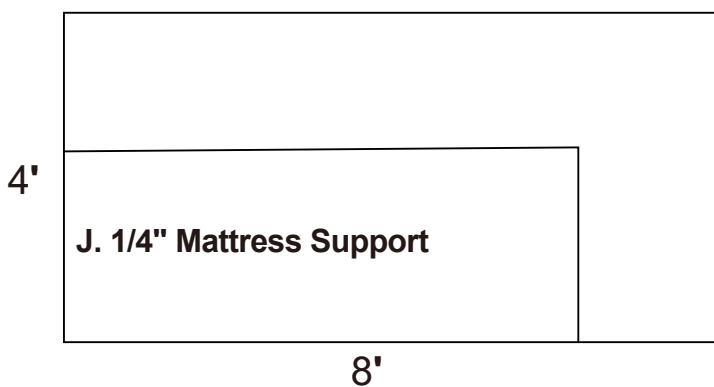
NOTE: Refer to page 6 for the cutting dimensions.



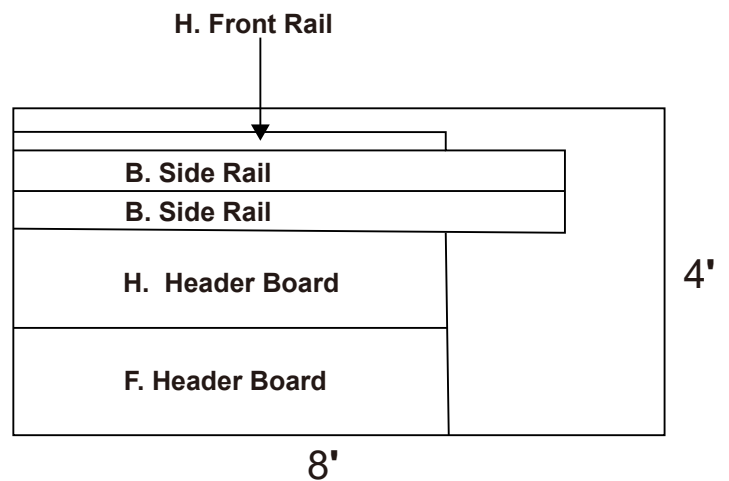
Requires 1 sheet 3/4"



Requires 2 sheets 3/4"



Requires 2 sheets 1/4"



Requires 1 sheet 3/4"

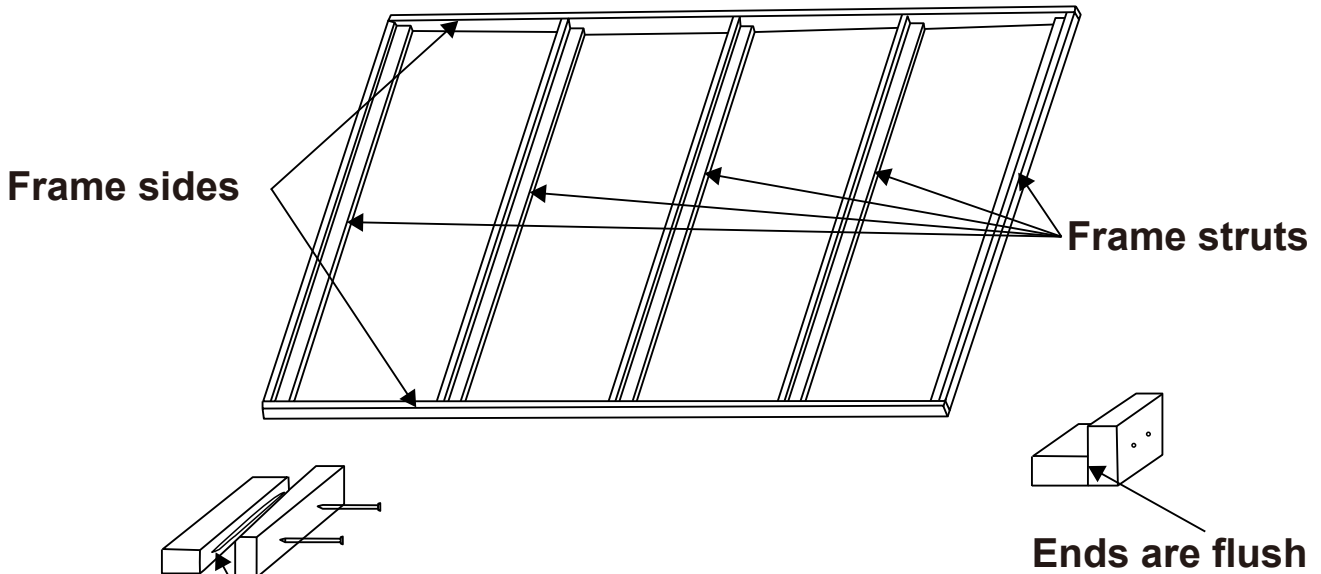
# QUEEN SIZE DELUXE KIT VERTICAL BED WITH 3/4" PLYWOOD FACE PANEL BILL OF MATERIALS / CUT SHEET

**Note:** Do not substitute other materials.

\_check off as completed.

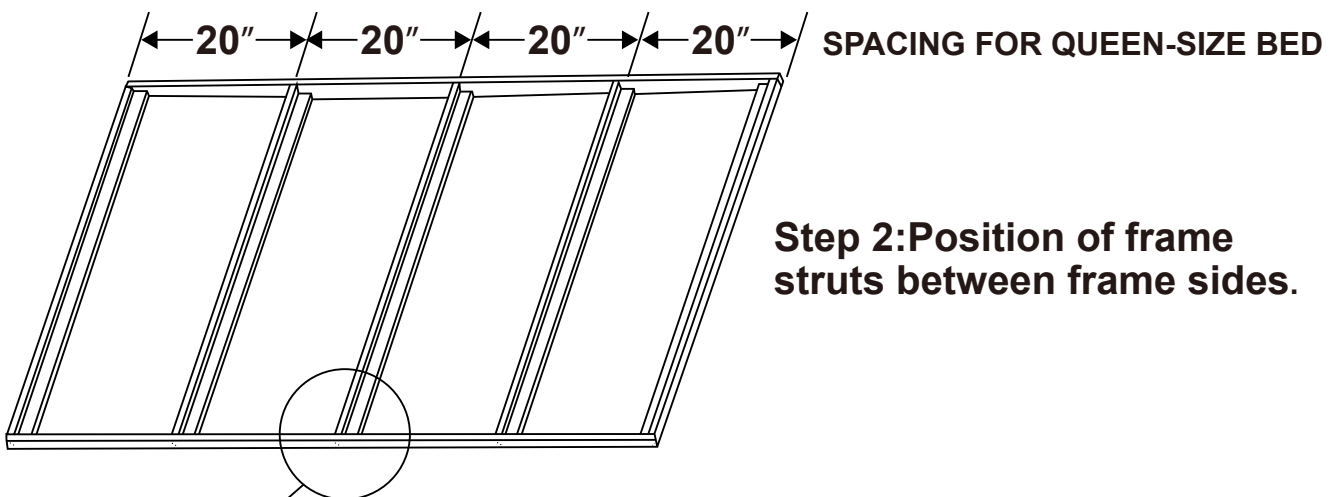
_A. INNER WOOD BED FRAME: *To be constructed of solid wood: poplar, clear pine, maple, etc.*		
FRAME STRUTS: *SOLID WOOD*	3/4" X 1-1/2" X 60-1/2"	10 pieces
FRAME SIDES: *SOLID WOOD*	3/4" X 1-1/2" X 80"	2 pieces
IMPORTANT: PLYWOOD MUST BE USED FOR THESE PIECES:		2 pieces
_B. SIDE RAILS:	3/4" X 5-7/8" X 81-1/2"	
_C. FOOT RAIL:	3/4" X 3" X 62"	1 pieces
_D. HEAD RAIL:	3/4" X 7-7/8" X 62"	1 pieces
_E. BED FACE PANEL:	3/4" X 32" X 81-3/4"	2 pieces
_F. BED HEADBOARD:	3/4" X 15-7/8" X 64-3/8"	1 pieces
_G. BED CABINET VERTICALS:	3/4" X 15-7/8" X 87-1/8"	2 pieces
_H. BED HEADER: HEADERBOARD: FRONT RAIL: REAR RAIL: MOUNTING CLEATS: *SOLID WOOD*	3/4" X 14-3/8" X 64-3/8" 3/4" X 2-3/4" X 64-3/8" 3/4" X 2-3/4" X 64-3/8" 3/4" X 1-1/2" X 14-3/8"	1 pieces 1 pieces 1 pieces 2 pieces
_I. Leg Support Rail: *SOLID WOOD*	3/4" X 1-2/5" X 60-1/4"	1 pieces
_J. 1/4" PLYWOOD mattress support:	1/4" X 31" X 80"	2 pieces
_K. VENEER or MELAMINE TAPE:	13/16" X 80 feet	
_L. WOOD GLUE:	One 8 ounce bottle	
_M. FINISH NAILS:	1-1/2"	Box of 50
	2"	Box of 25
_N. SCREWS:	#8 1-1/4" coarse thread	Box of 100
	#8 1-1/2" coarse thread	Box of 30
	#8 2" coarse thread	Box of 40
_O. DESIRED CABINET HANDLES OR PULLS		2 HANDLES
_P. MATTRESS	MUST weigh between 65 - 80 pounds	

# PART A. INNER WOOD BED FRAME



## Glue Step 1: Construction of five (5) frame struts.

Run a bead of wood glue along inside edge. Making sure ends are flush, drill pilot holes approximately 8" apart and nail with 1-1/2" finish nails, or you can use #8×1-1/2" screws.



## Step 2: Position of frame struts between frame sides.

## Step 3 : Mounting the frame struts between the frame sides.

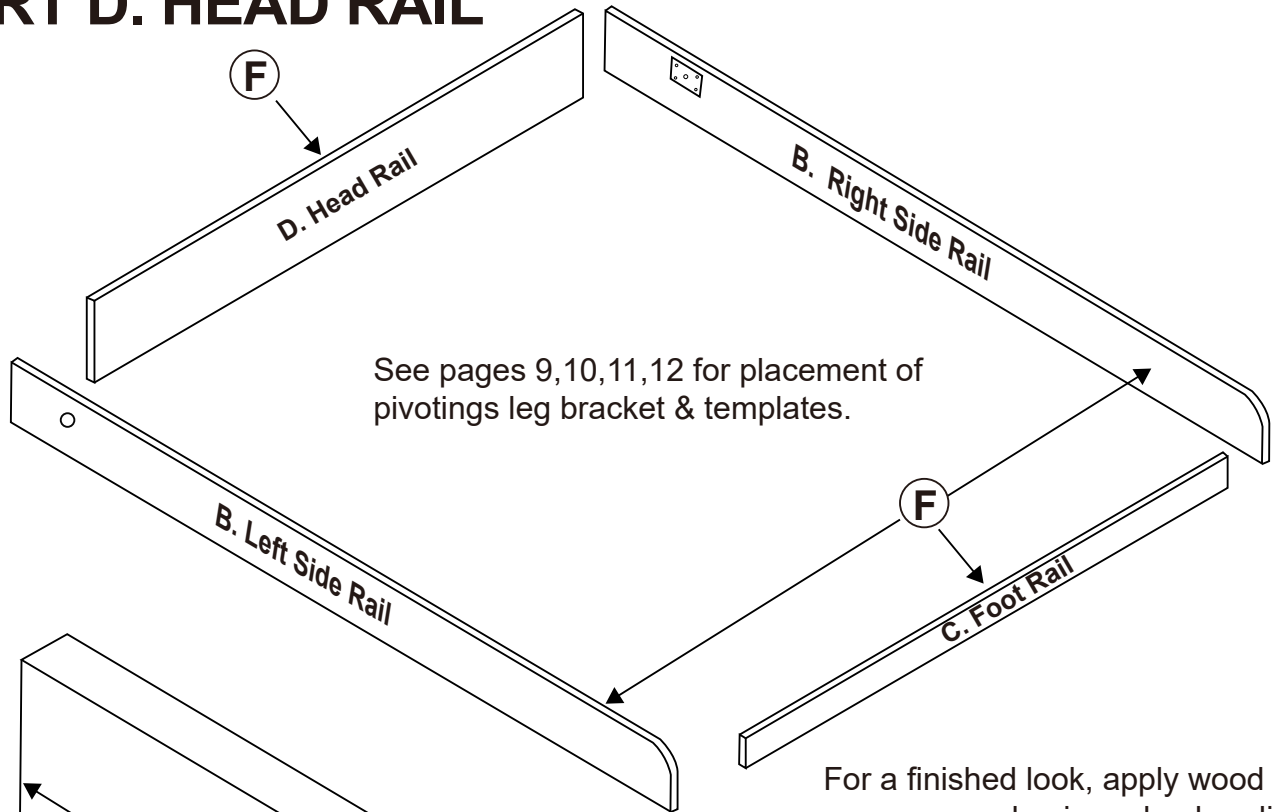
Using a 1/8" drill bit and countersink, drill pilot holes through the frame sides into each end of the "L" shaped frame struts. Screw #8 x 2" wood screw flush.

# PART B. SIDE RAILS: (MUST BE MADE OF PLYWOOD)

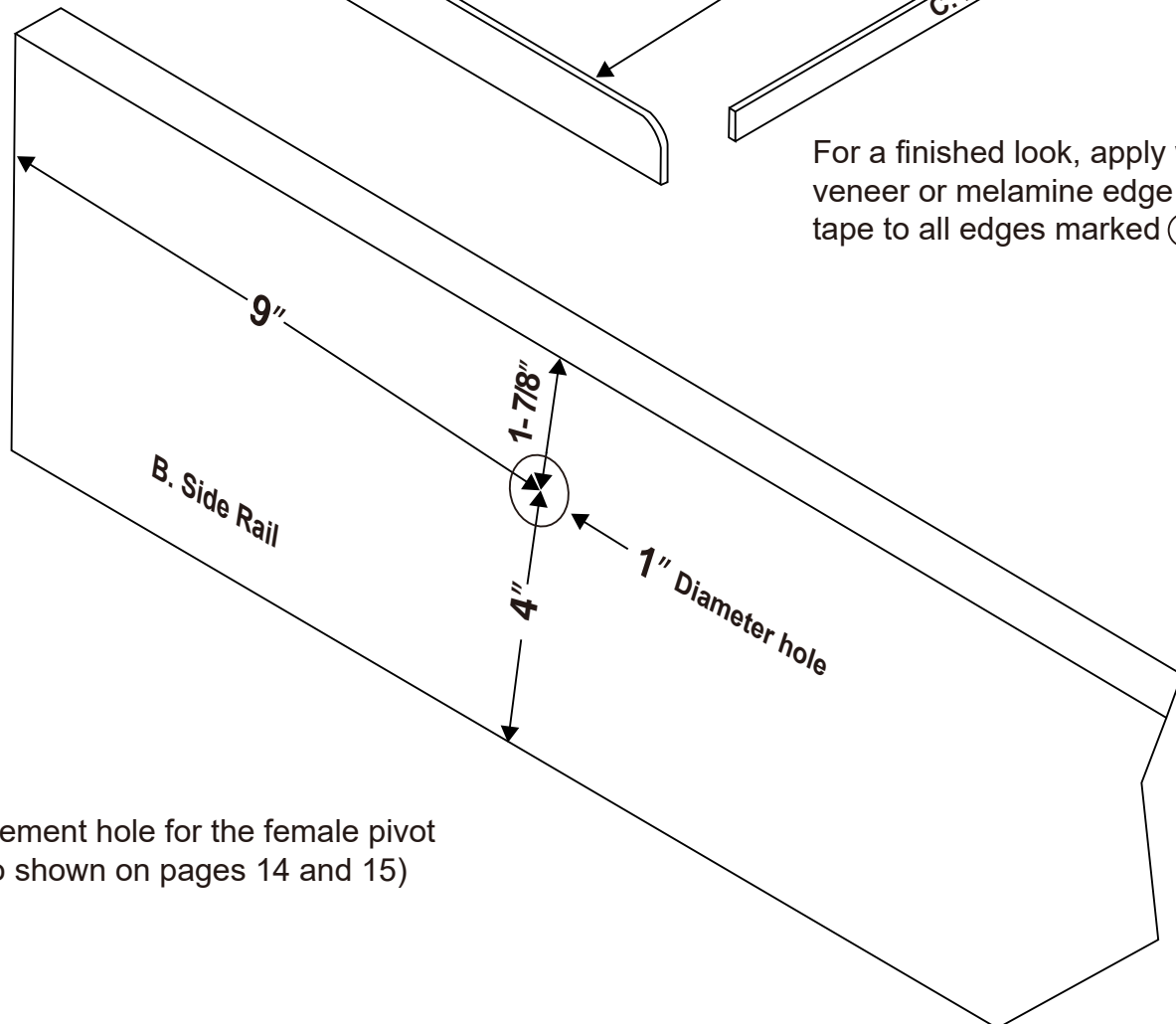
Why?..This is where the stress takes place.  
Plywood is stronger than solid wood.  
YES EVEN SOLID OAK.....

## PART C. FOOT RAIL

## PART D. HEAD RAIL



For a finished look, apply wood veneer or melamine edge banding tape to all edges marked (F).

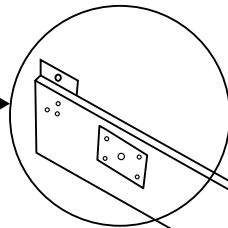


Placement hole for the female pivot  
(also shown on pages 14 and 15)

# HARDWARE PLACEMENT FOR B.SIDE RAILS

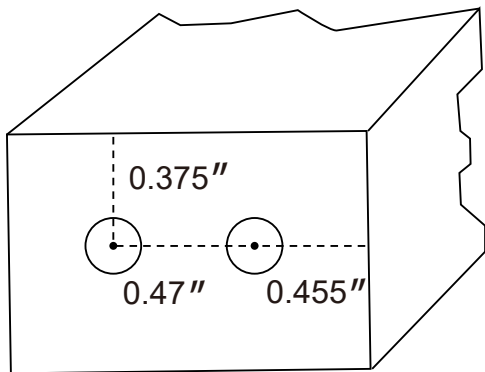
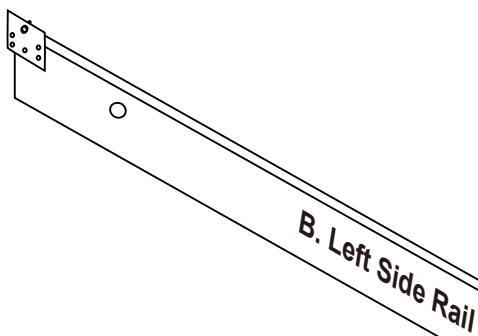
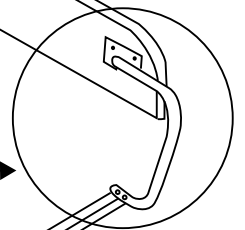
## Step 5:

See pages 13,14,15,16 for Placement of female pivot and lower ball stud plates.



## Step 4:

See pages 10,11,12 for placement of pivotings. leg bracket & templates.

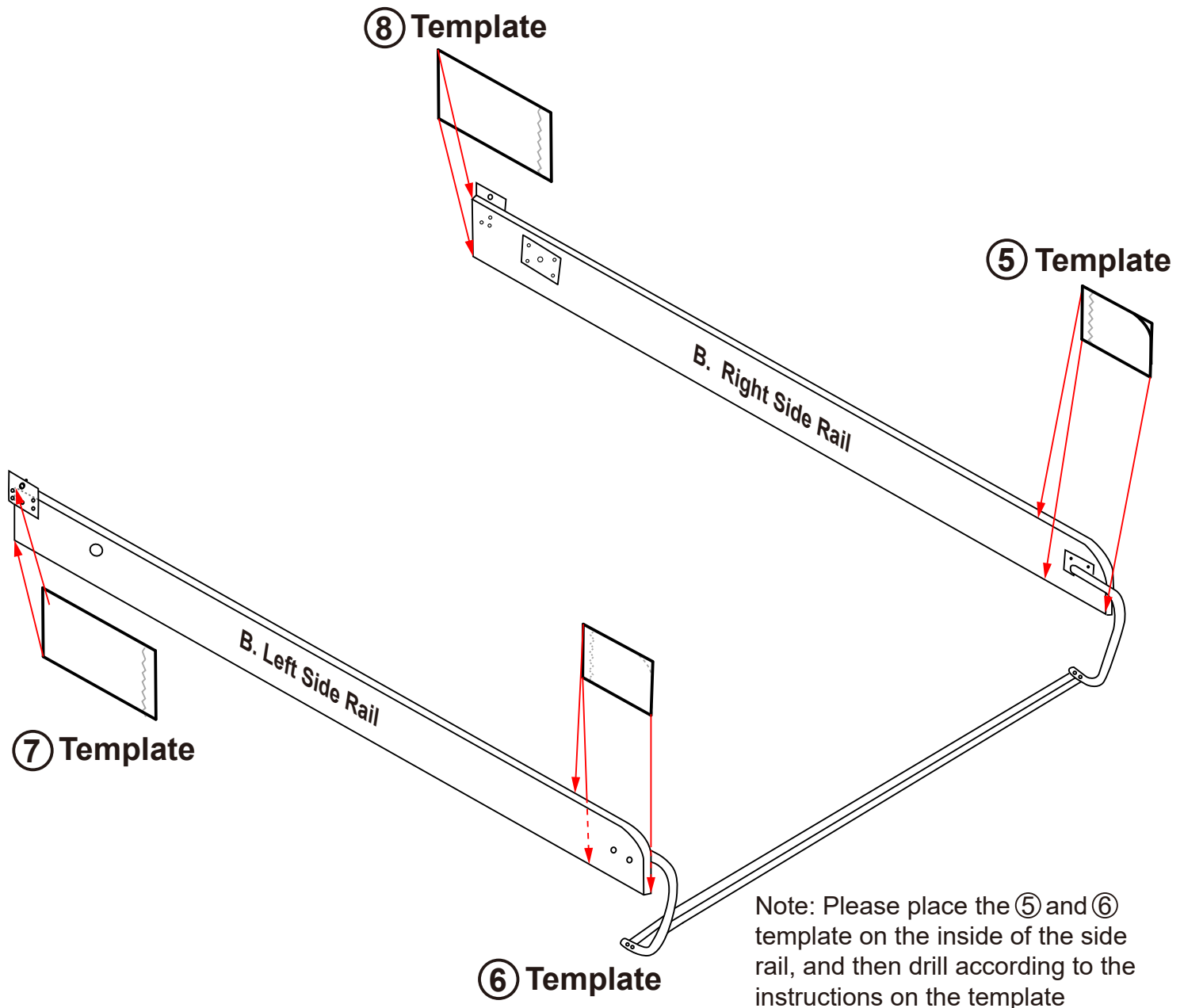


## Step 6: PART I. LEG SUPPORT RAIL

SEE PAGE 6 FOR CUTTING DIMENSIONS.

Mark the location of the holes ON EACH END OF RAIL pre-drill the 2 holes.

**Note: Align the paper template with the edge of the B. side rail according to the orientation shown in the figure below.**

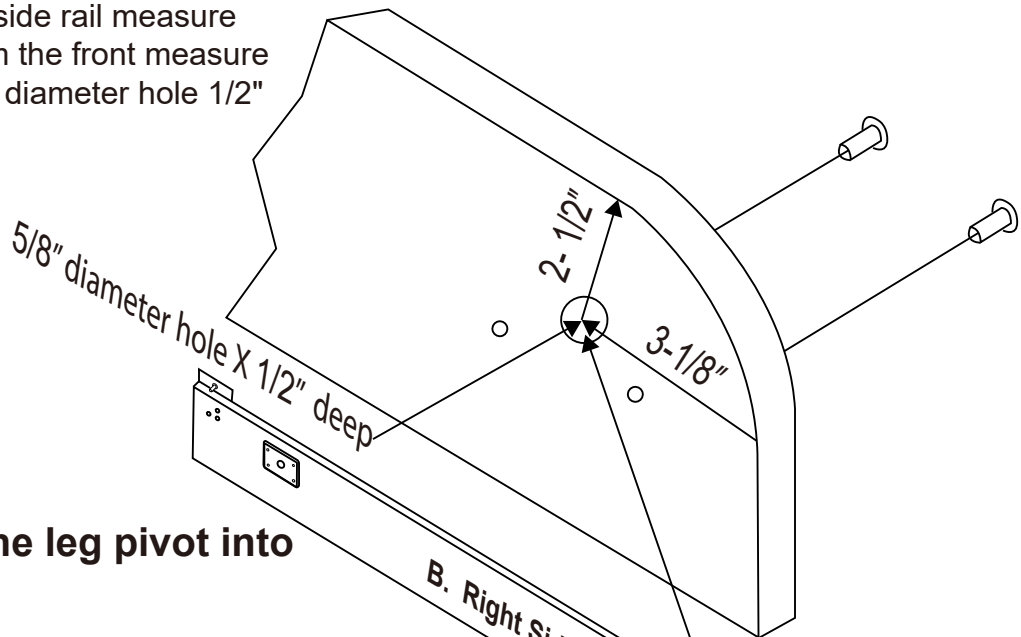


**NOTE: Be sure to follow the instructions on the template exactly for drilling and marking**

# B. RIGHT SIDE RAIL.

## Step 7: Leg placement

From the top of the side rail measure down 2-1/2" and from the front measure in 3-1/8". Drill a 5/8" diameter hole 1/2" deep.

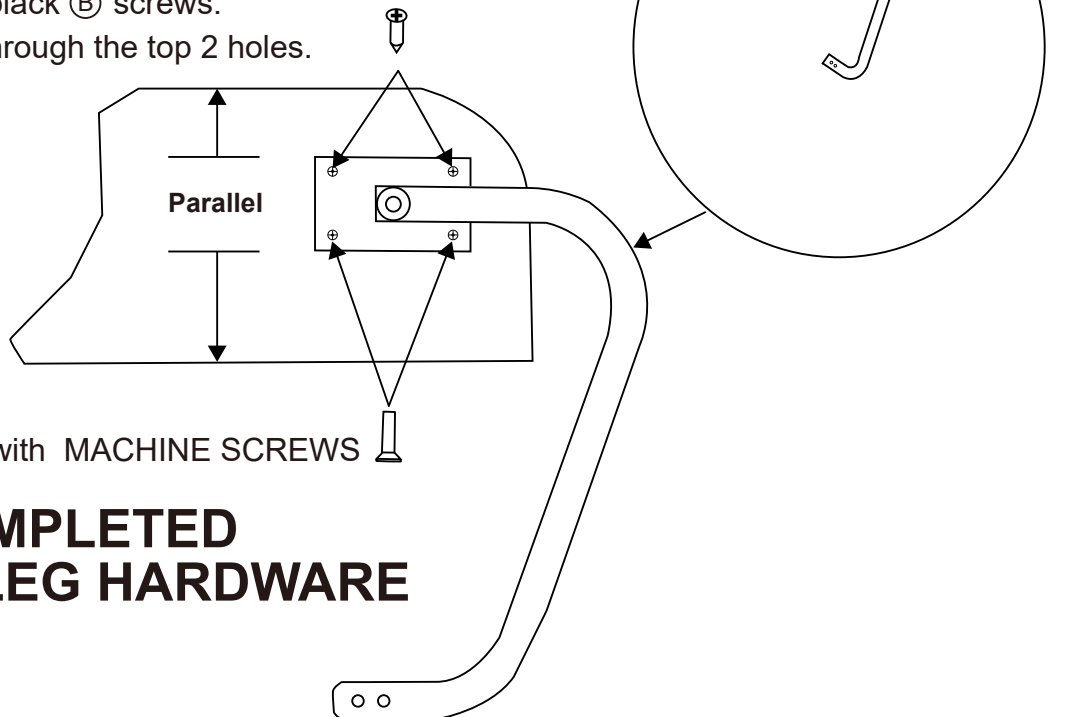


## Step 8: Place the leg pivot into the 5/8" hole.

With the pivot plate parallel to the top & bottom of the side rail. Drill a 1/4" hole through the bottom 2 (two) holes in the plate through the side Rails.

**Note:** To prevent tear out on the outside of the side rail, clamp a piece of scrap wood to the rail while drilling.

two (2) black Ⓑ screws.  
Screw through the top 2 holes.

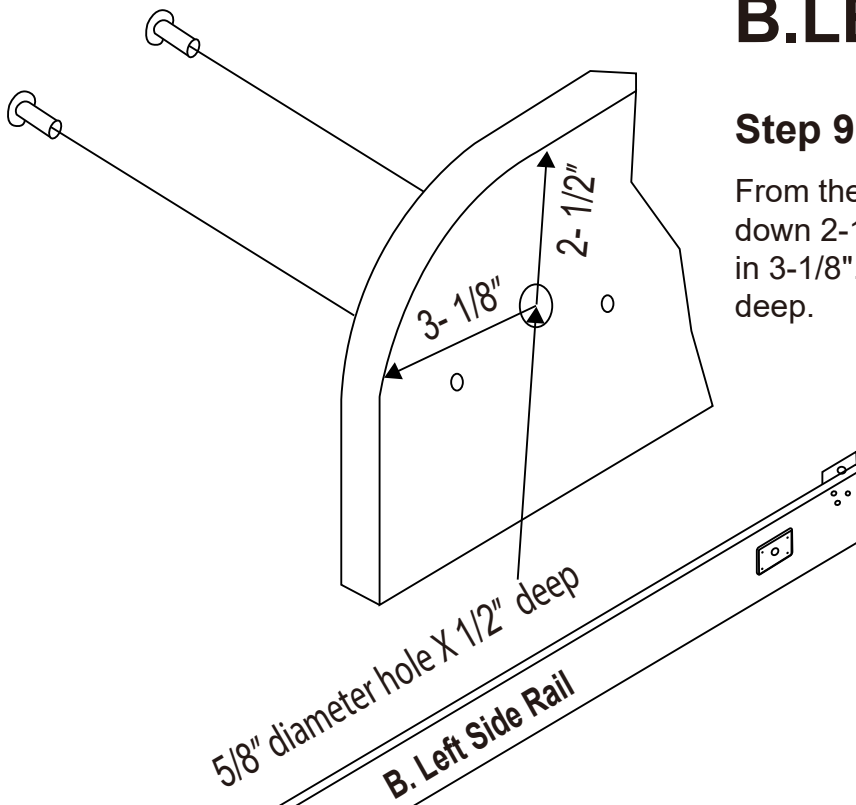


**WHEN COMPLETED  
REMOVE LEG HARDWARE**

## B. LEFT SIDE RAIL.

### Step 9: Leg placement

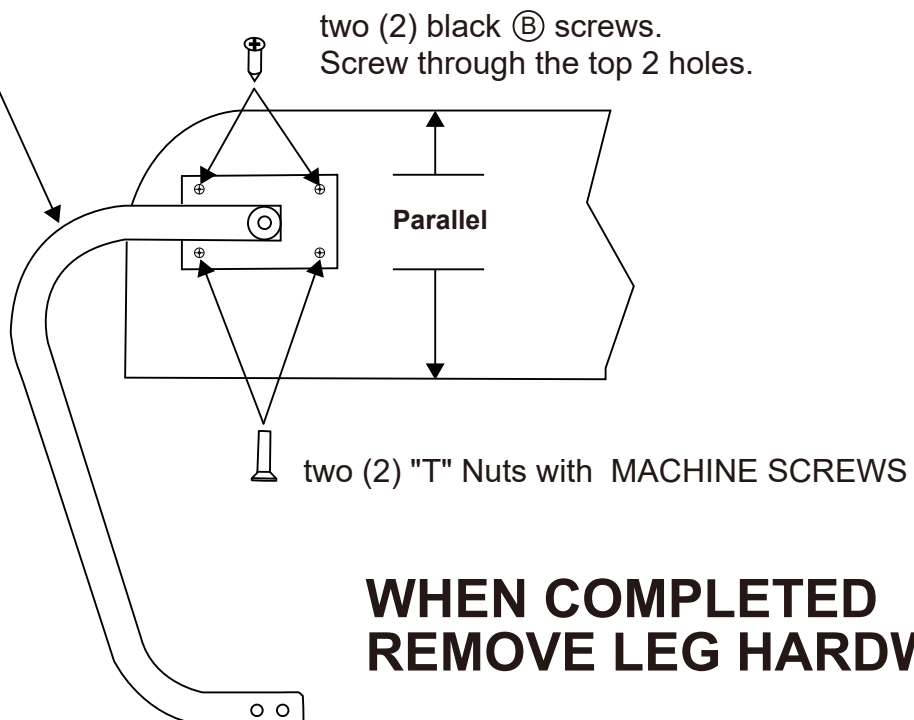
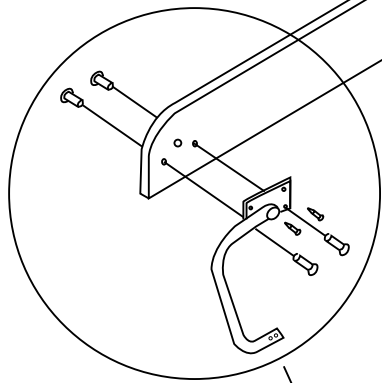
From the top of the side rail measure down 2-1/2" and from the front measure in 3-1/8". Drill a 5/8" diameter hole 1/2" deep.



### Step 10: Place the leg pivot into the 5/8" hole.

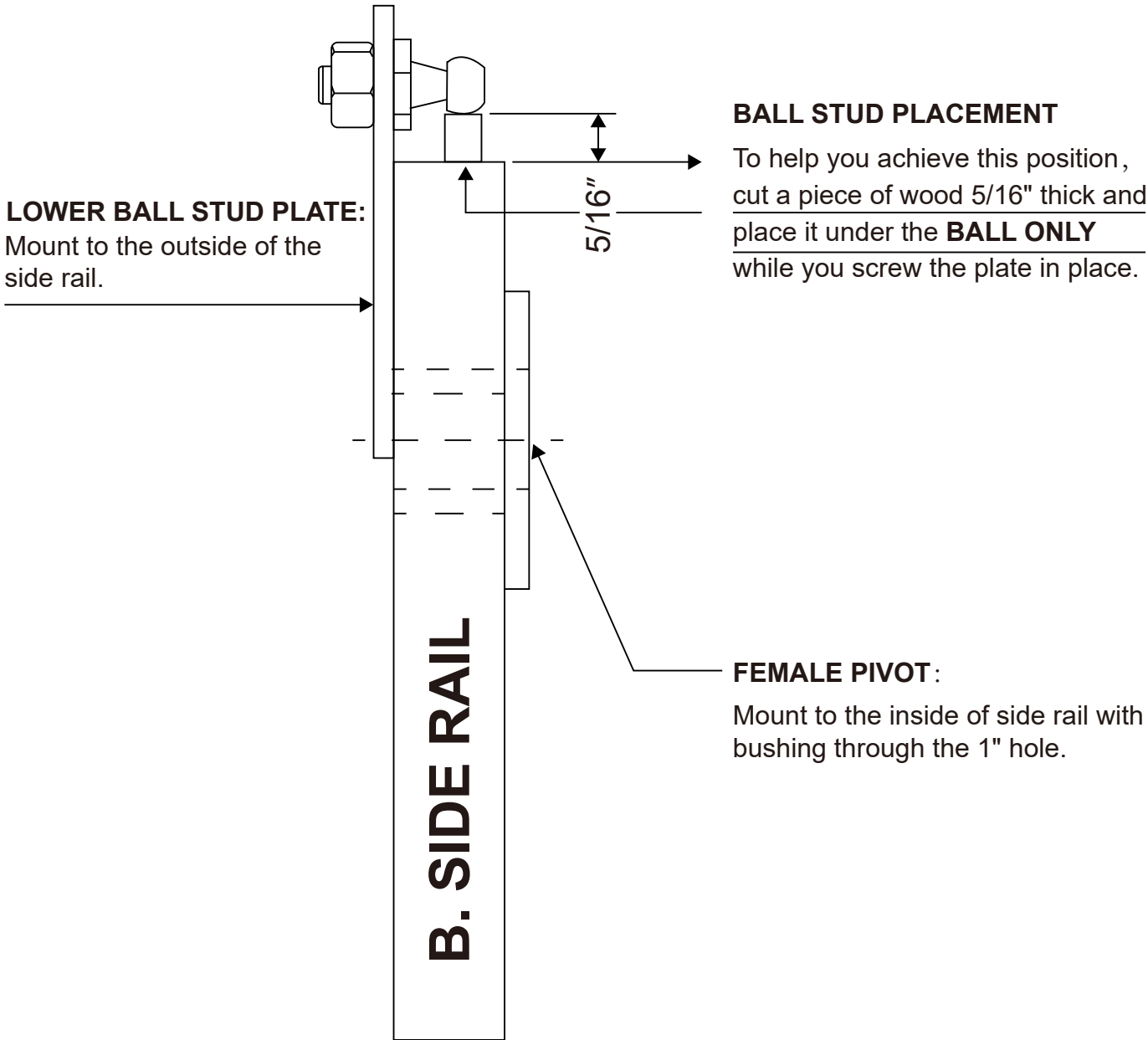
With the pivot plate parallel to the top & bottom of the side rail. Drill a 1/4" hole through the bottom 2 (two) holes in the plate through the side Rails.

**Note:** To prevent tear out on the outside of the side rail clamp a piece of scrap wood to the rail while drilling.

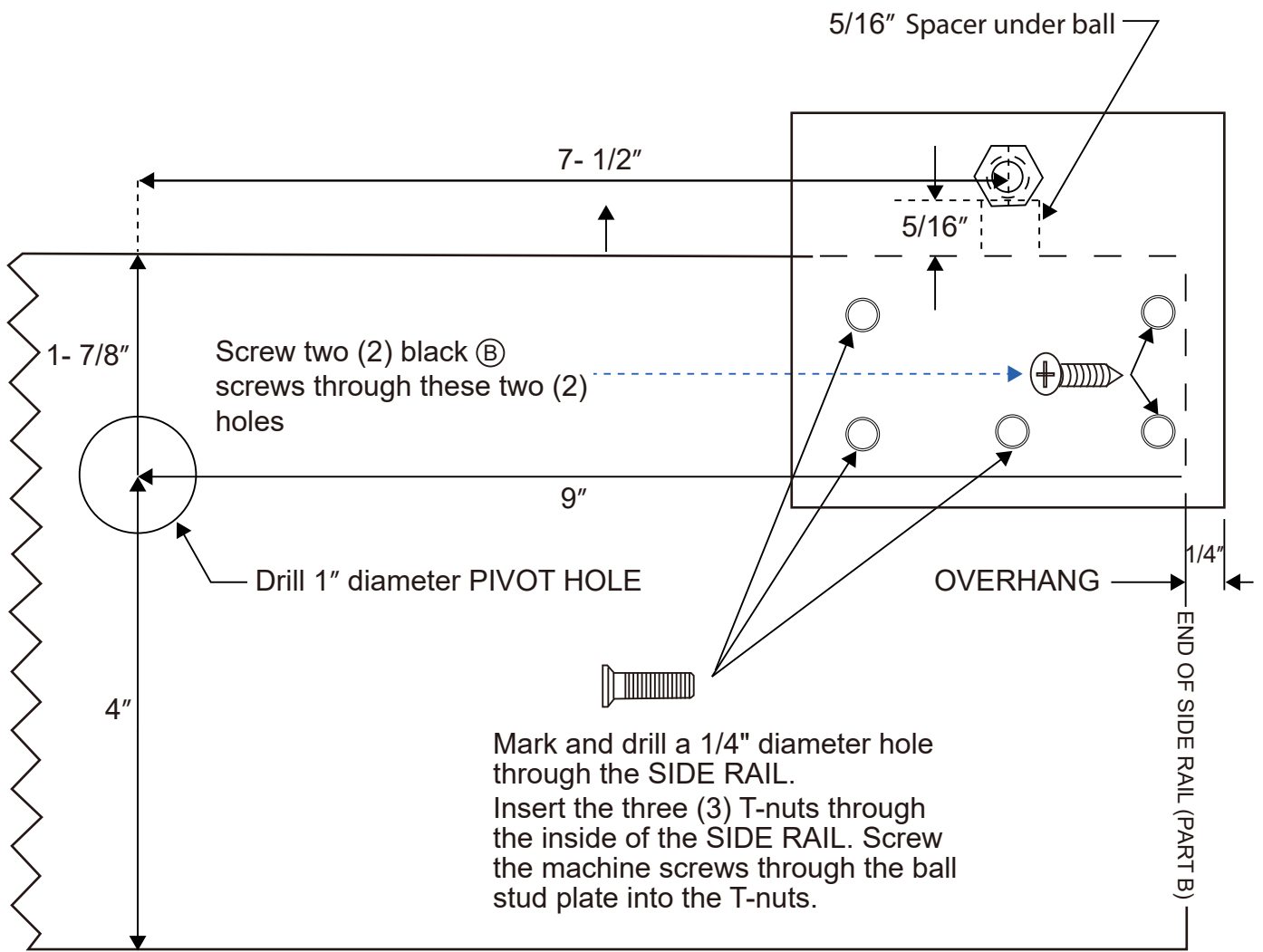


**WHEN COMPLETED  
REMOVE LEG HARDWARE**

**This page pertains to the orientation and mounting positions of the lower ball stud plates and female pivots, USE WITH PAGES 14,15,&16**

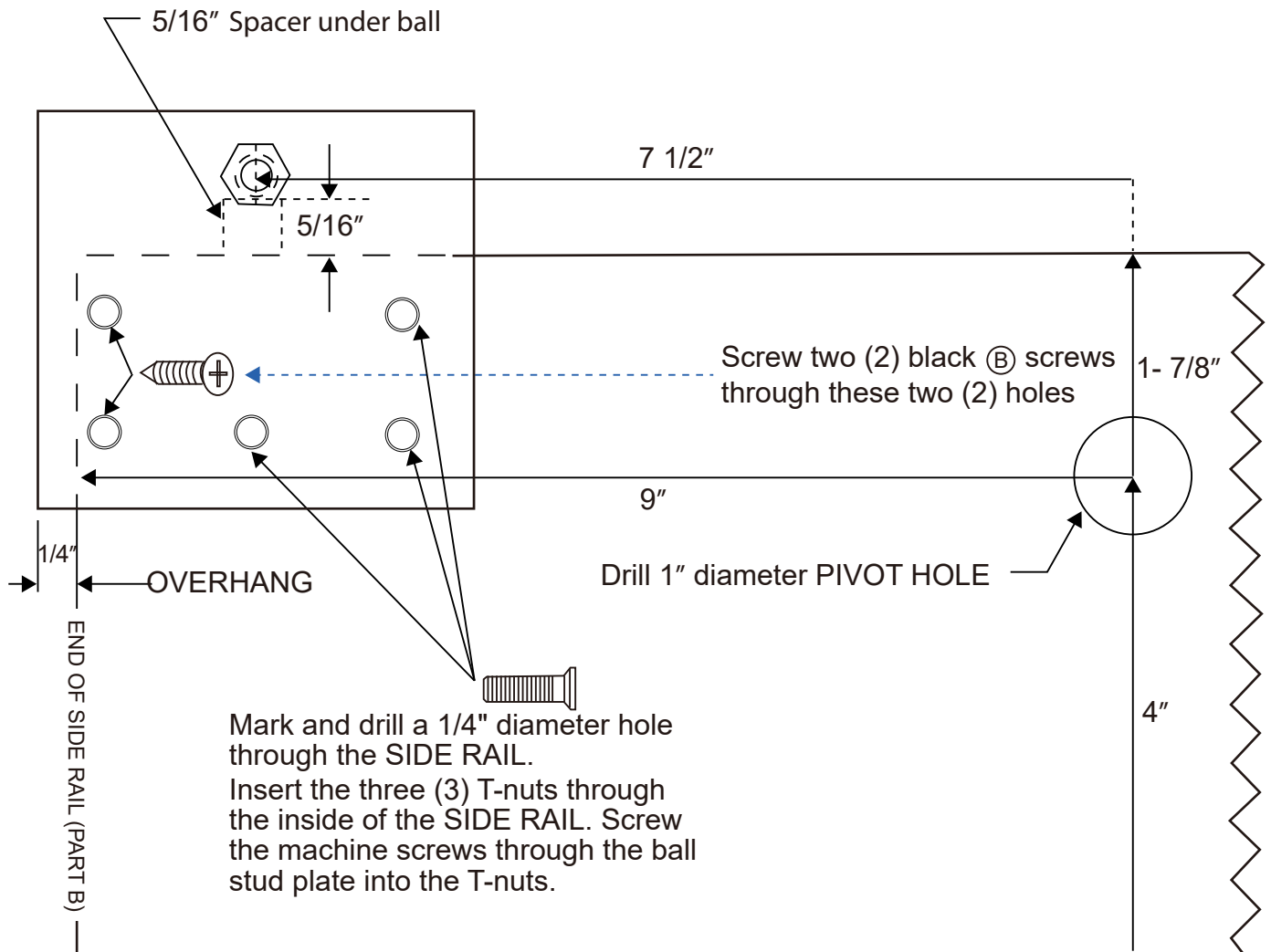


**Step 11: Mounting the lower ball stud plate to the outside of the SIDE RAIL PARTS B.**



**B.RIGHT SIDE RAIL  
QUEEN VERTICAL (upright)  
PLYWOOD CONSTRUCTION ONLY**

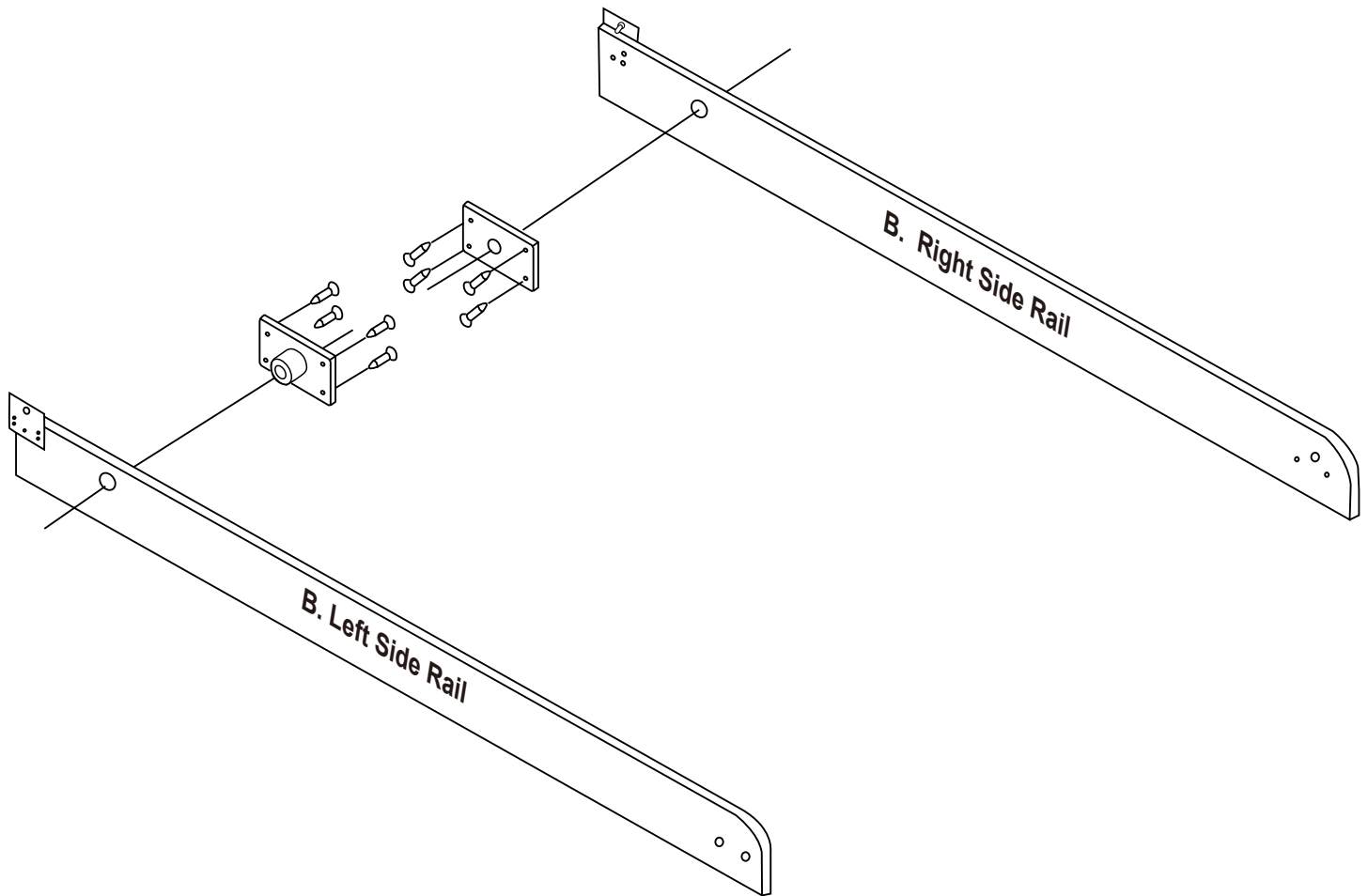
**Step 12: Mounting the lower ball stud plate to the outside of the side rail PARTS B.**



**B.LEFT SIDE RAIL  
QUEEN VERTICAL (upright)  
PLYWOOD CONSTRUCTION ONLY**

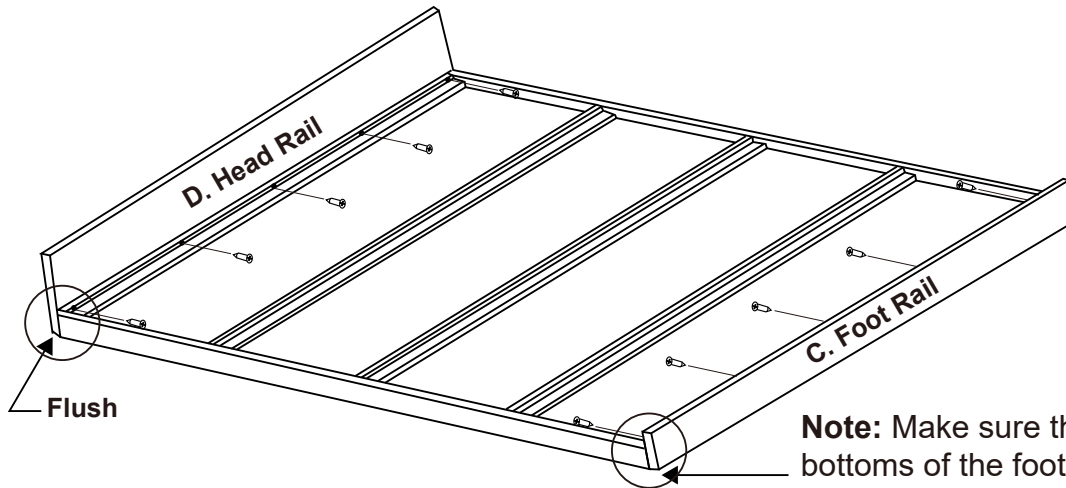
## Step 13: Mounting female pivot plates

Mount female pivot plate to inside of right and left side rails as shown. Press pivot into pivot hole. Using eight (8) Ⓐ silver screws provided, screw plate flush to rail.



## Step 14: Mounting the foot rail PART C and head rail D.

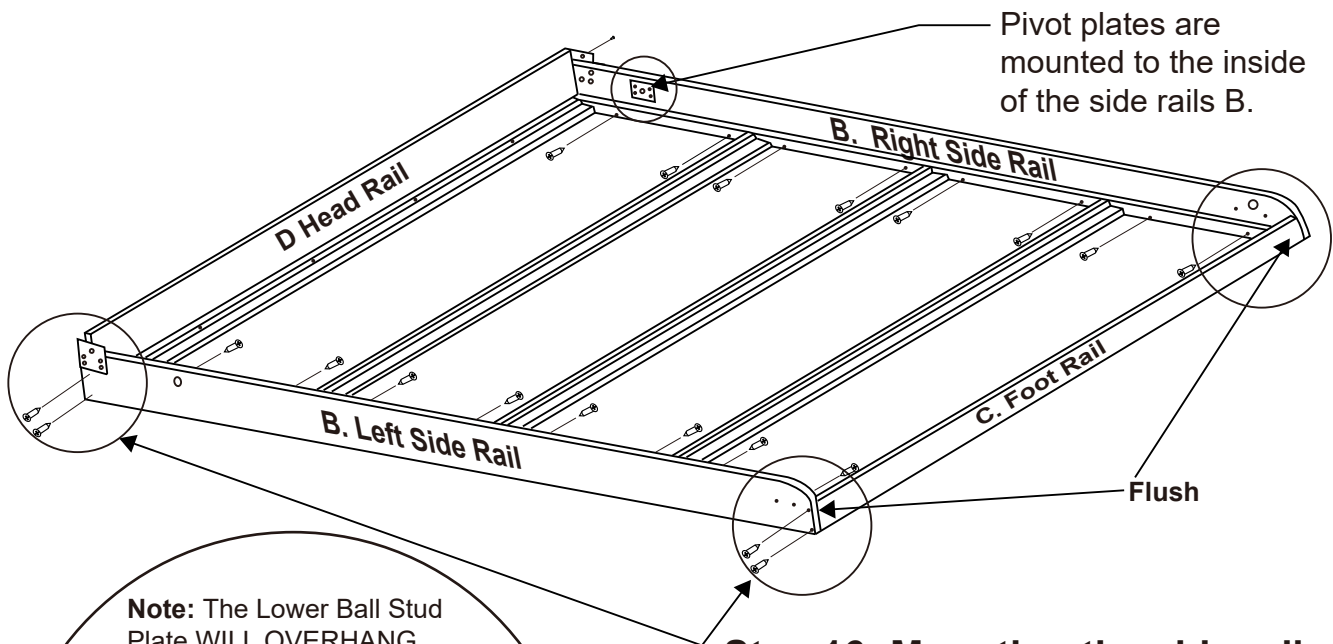
Drill 1/8" pilot hole 1-1/4" deep through the inner wood bed frame into the foot rail. Drive #8x 1-1/4" screws flush. repeat on part D Head Rail.



**Note:** Make sure the ends and bottoms of the foot rail are flush with the inner wood bed frame.

## Step 15: Mounting left and right side rails to inner wood bed frame.

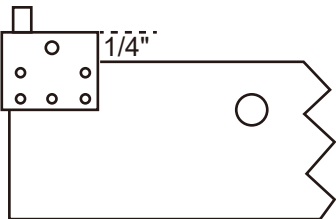
Using an 1/8" drill bit, drill two holes between each strut ( total of 8 holes per rail ) 1-1/4" deep through the frame side into the side rails. Drive #8 x 1-1/4" wood screws flush, snugging inner wood bed frame to the side rail.



Pivot plates are mounted to the inside of the side rails B.

Flush

**Note:** The Lower Ball Stud Plate WILL OVERHANG THE SIDE RAIL BY APPROXIMATELY 1/4".



This is the CORRECT PLACEMENT for the Lower Ball Stud Plate.

## Step 16: Mounting the side rails B to the foot rail Part C and head rail Part D.

Make sure sides and bottom are flush. Drill 1/8" pilot hole 2" deep through the side rails into the foot rail and head rail. Drive #8 x 2" screws flush.

**Note:** Remove Pivot Leg Hardware.

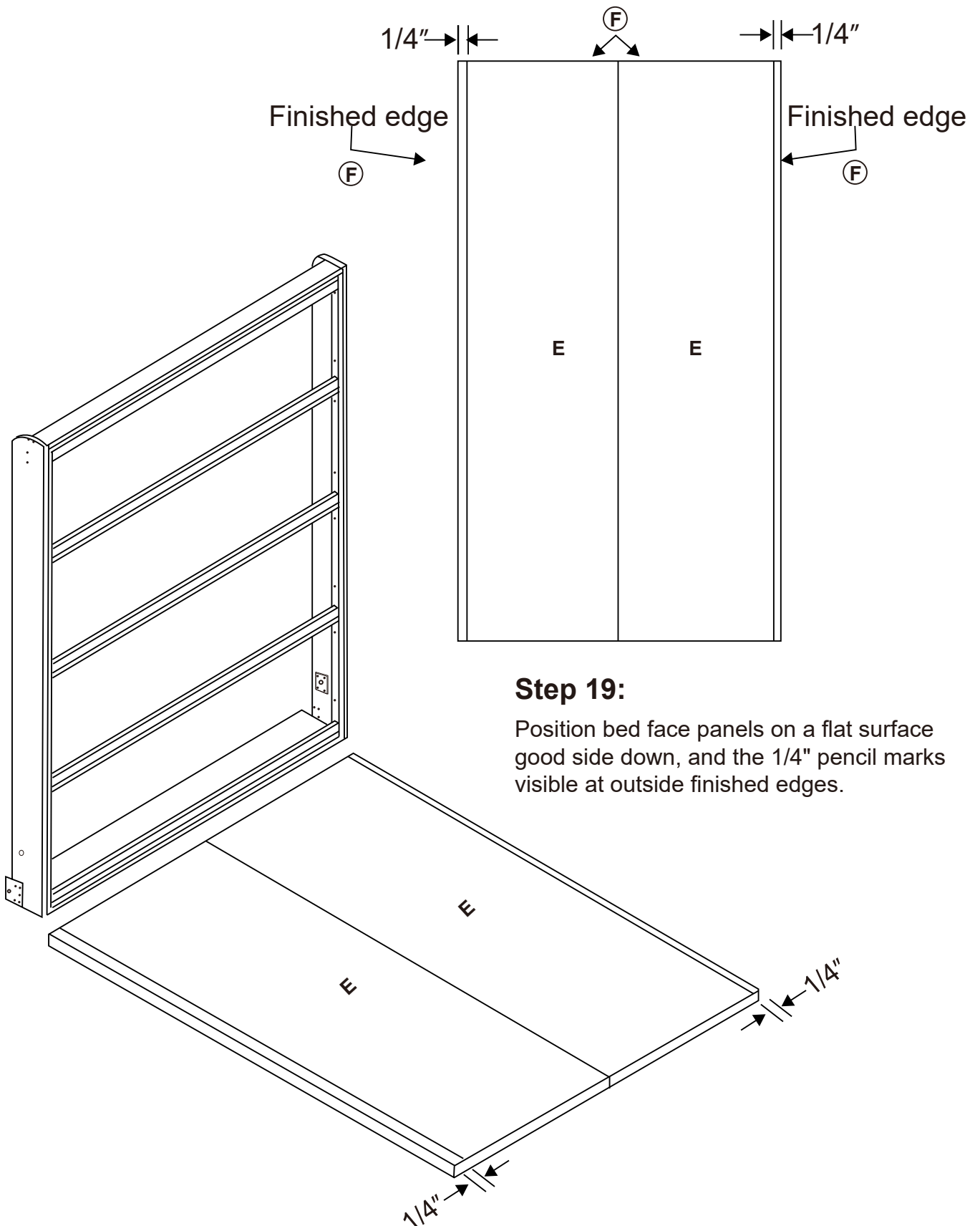
### Step 17:

**Note:** For a finished look, apply wood veneer or melamine edge tape to all edges marked (F).

**Pick the best side of part E Face Panel for the front of the bed.**

### Step 18:

Turn face panels over. On back side, mark a 1/4" line the full length of the panel along finished long edge.



### Step 19:

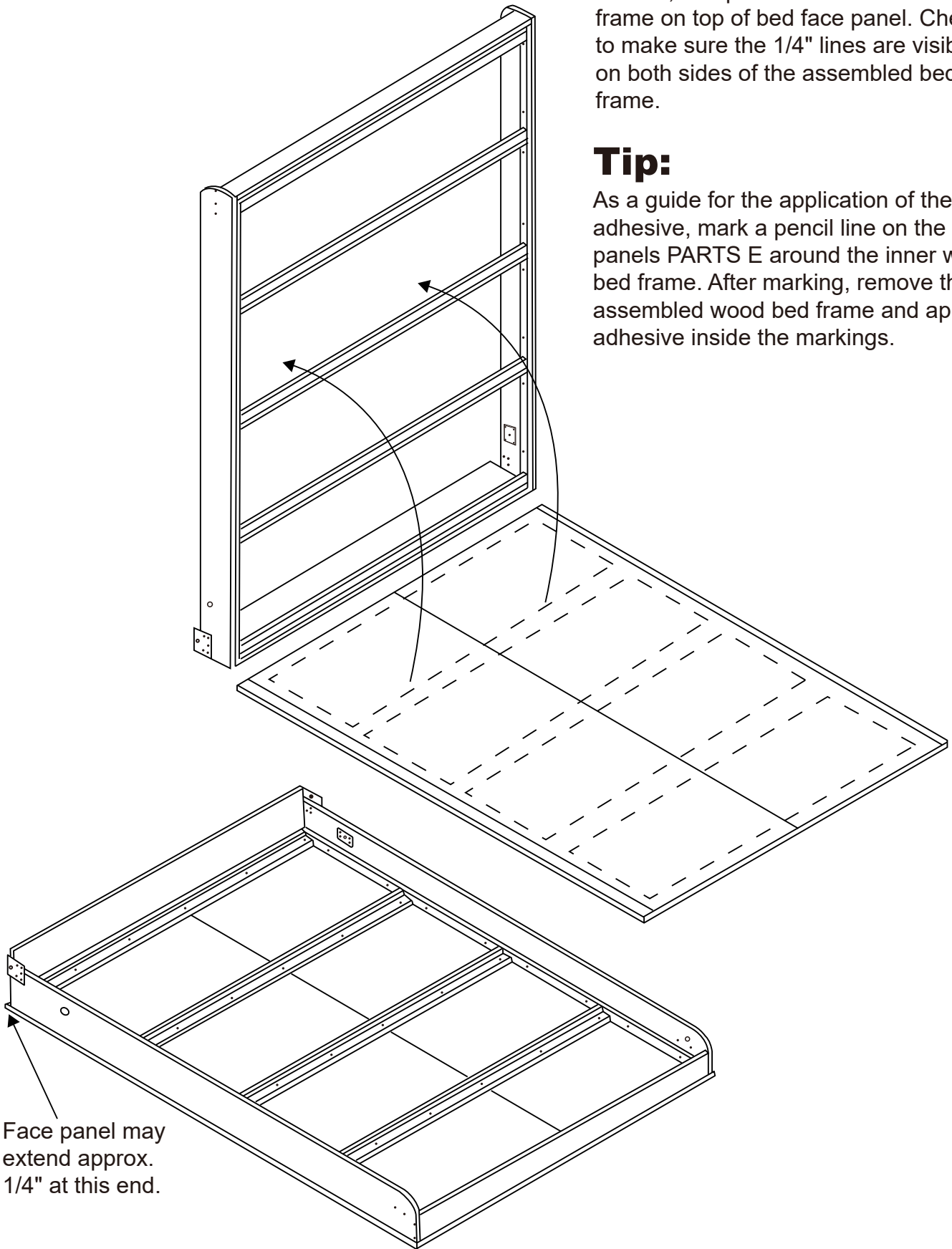
Position bed face panels on a flat surface good side down, and the 1/4" pencil marks visible at outside finished edges.

## Step 20:

Lay bed face panel with good side DOWN, and place assembled bed frame on top of bed face panel. Check to make sure the 1/4" lines are visible on both sides of the assembled bed frame.

## Tip:

As a guide for the application of the adhesive, mark a pencil line on the face panels PARTS E around the inner wood bed frame. After marking, remove the assembled wood bed frame and apply adhesive inside the markings.



Face panel may extend approx. 1/4" at this end.

Face panel and foot rail MUST be flush at this end.

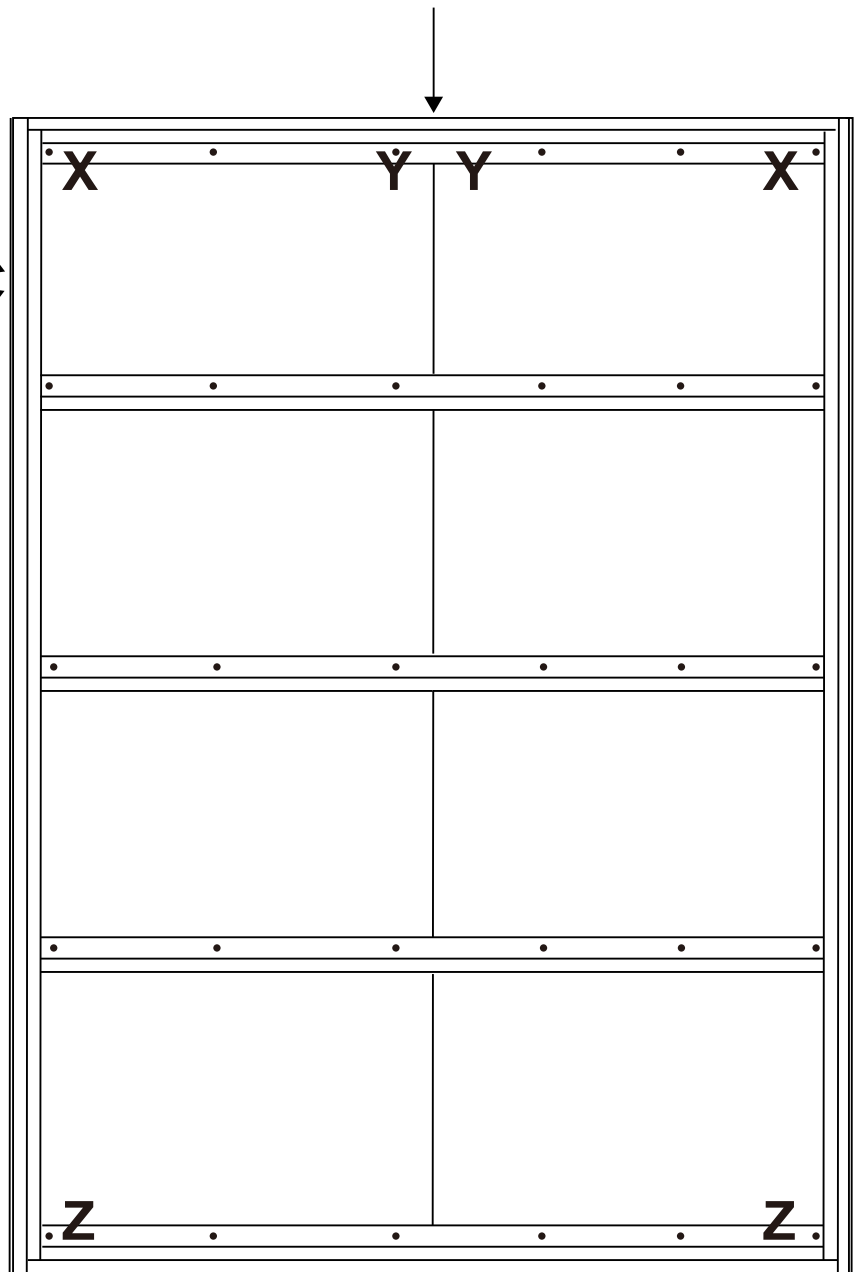
The face panel MUST extend 1/4" past edge of frame on long sides.

**Step 21: Make sure face panel and foot rail are flush and that face panel extends 1/4" past edge of wood bed frame on long sides.**

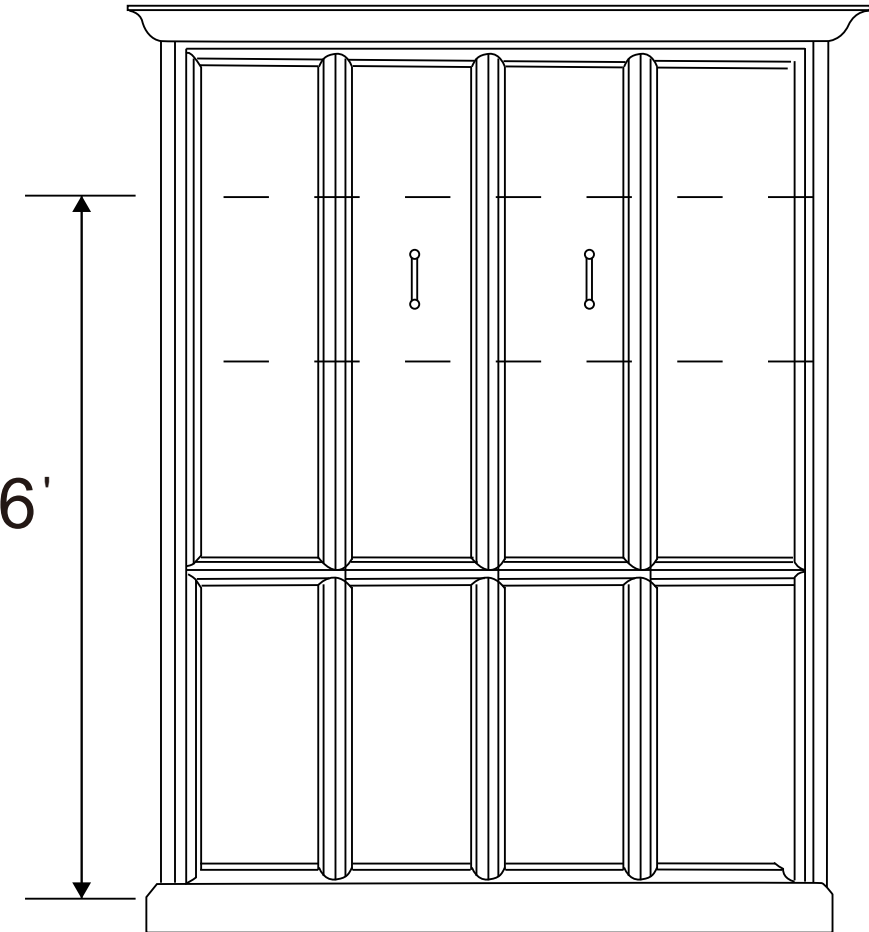
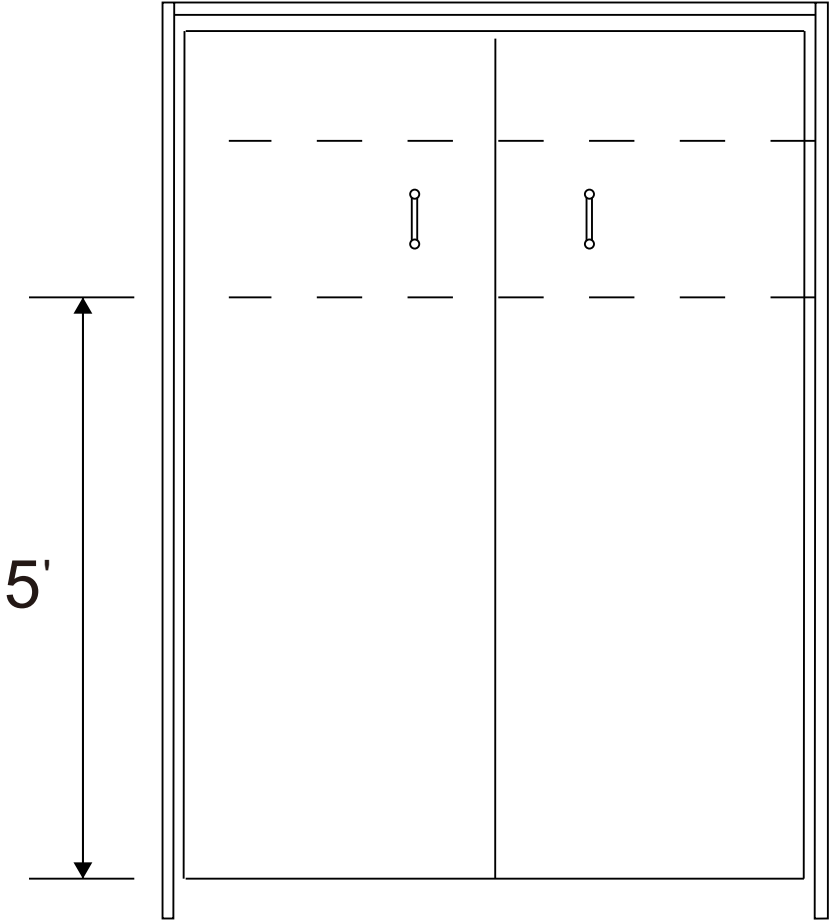
Using #8 x 1-1/4" screws, screw section marked "X" first. Keeping end flush, screw section marked "Y".

Making sure there is a 1/4" face panel overhang, screw section marked "Z". If out-of-square this procedure will aid in racking into square.

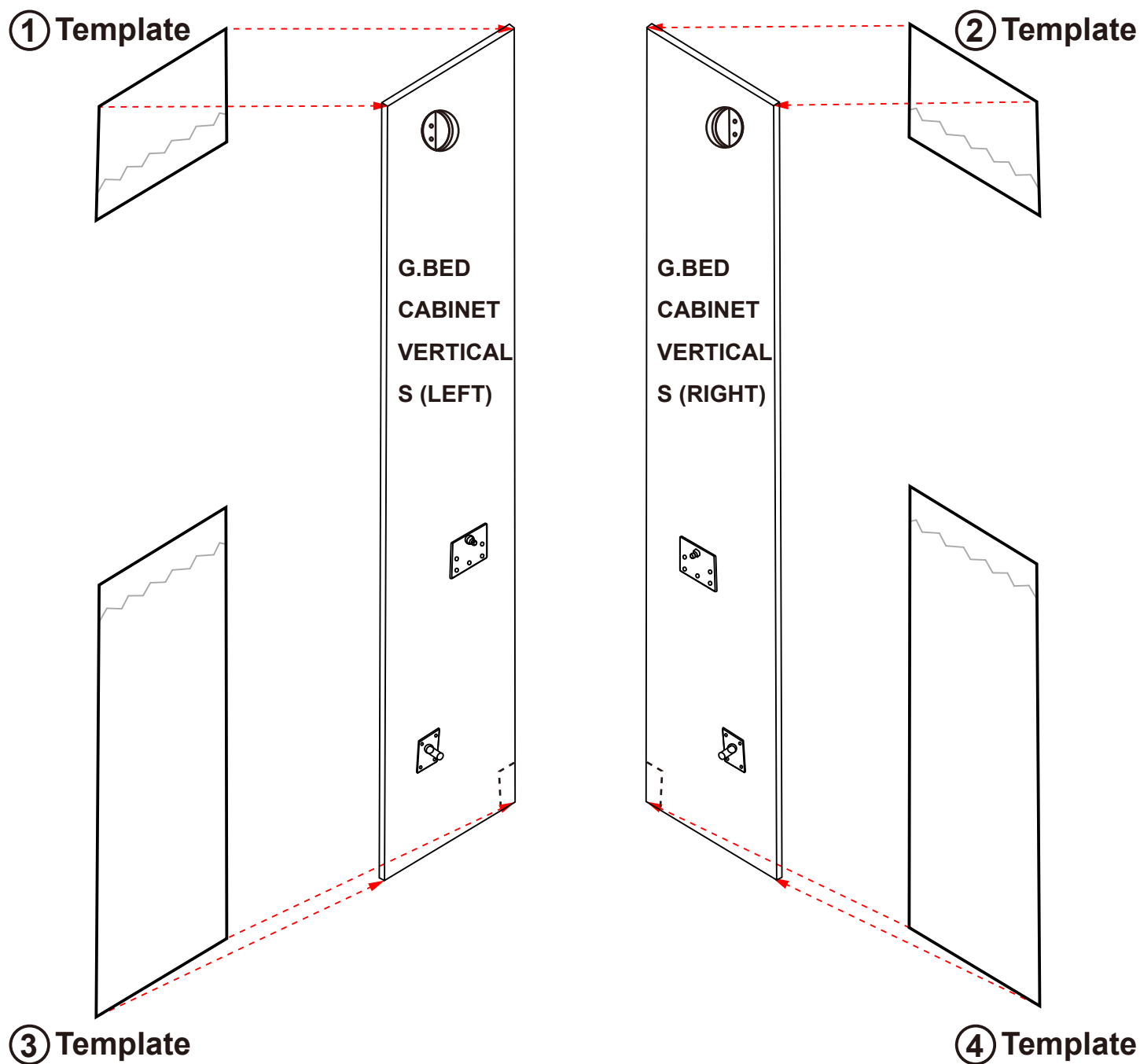
Screw remaining struts to face panel 6" apart.



Placement of cabinet handles for optimal leverage should be between 5' and 6' on face panel PART E.

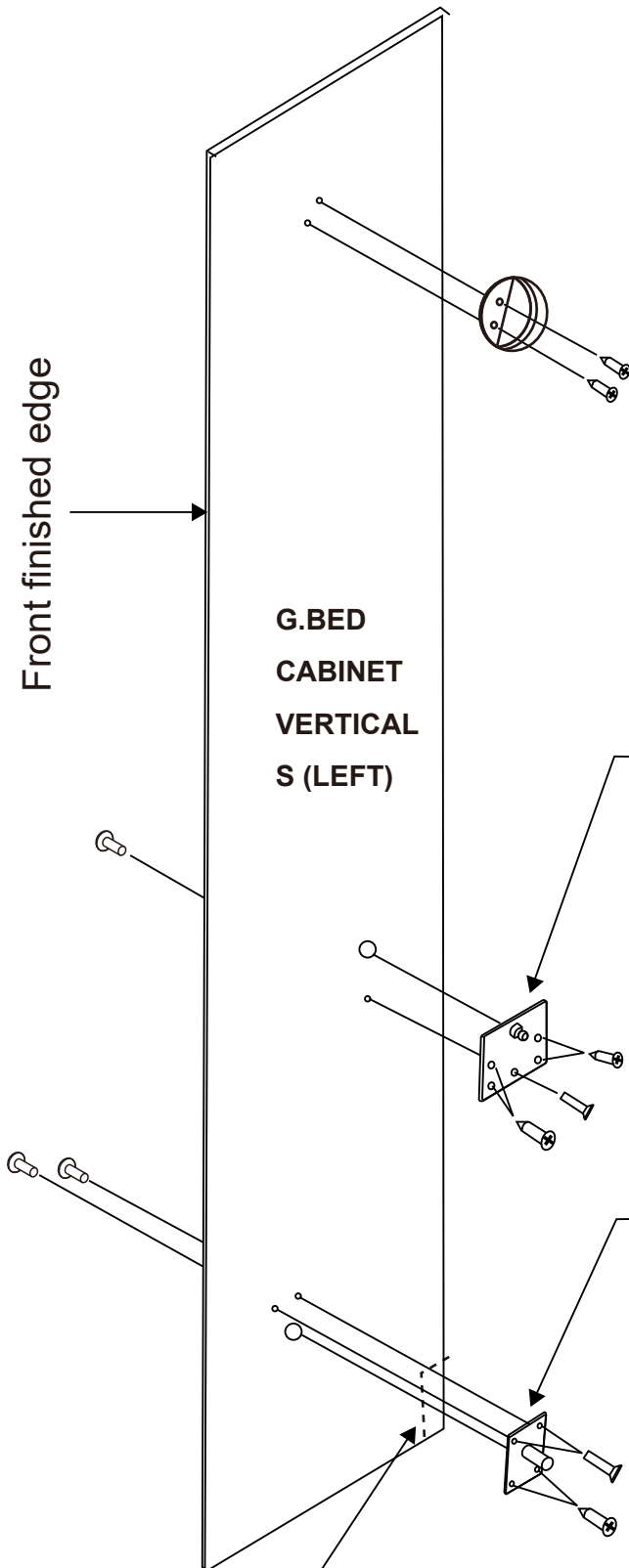


**Note: Align the paper template with the edge of the G.bed cabinet vertical according to the orientation shown in the figure below.**



# PART G : BED CABINET VERTICALS (LEFT)

Measurements For QUEEN Vertical (Upright) ONLY Using 3/4" PLYWOOD Face Panel.



## Step 22:

**BED STOP:** Drill two (2) holes 5/16" diameter x 1/2" deep. Insert the bed stop pin into hole and attach with two (2) (B) black screws.

## Note:

Ball stud nut fits in the hole.

## Step 23:

### UPPER PISTON PLATE WITH BALL STUD:

Drill a hole 5/8" x 1/2" deep and insert nut into hole. Mount plate to the vertical with four (4) (B) black screws and one (1) "T" Nut and machine screw.

## Step 24:

**MALE PIVOT PLATE:** Drill a hole 5/8" diameter x 1/2" deep. Insert the 1/2" end of rod into hole. Drill two (2) holes 1/4" diameter through the vertical using the upper holes in the pivot plate as a guide. Tap "T" Nuts into two (2) upper holes from outside then screw 1/4" machine screws through pivot plate into "T" Nuts. Screw two (2) (A) silver screws through pivot plate holes into vertical.

## OPTION:

On left and right bed verticals, a cut can be made to accommodate existing base molding so cabinet will fit flush against the wall.

# PART G:BED CABINET VERTICALS (RIGHT)

Measurements For QUEEN Vertical (Upright) ONLY Using 3/4" PLYWOOD Face Panel.

## Step 25:

**BED STOP:** Drill two (2) holes 5/16" diameter x 1/2" deep. Insert the bed stop pin into hole and attach with two (2) Ⓑ black screws.

## Note:

Ball stud nut fits in the hole.

## Step 26:

### UPPER BALL STUD PLATE:

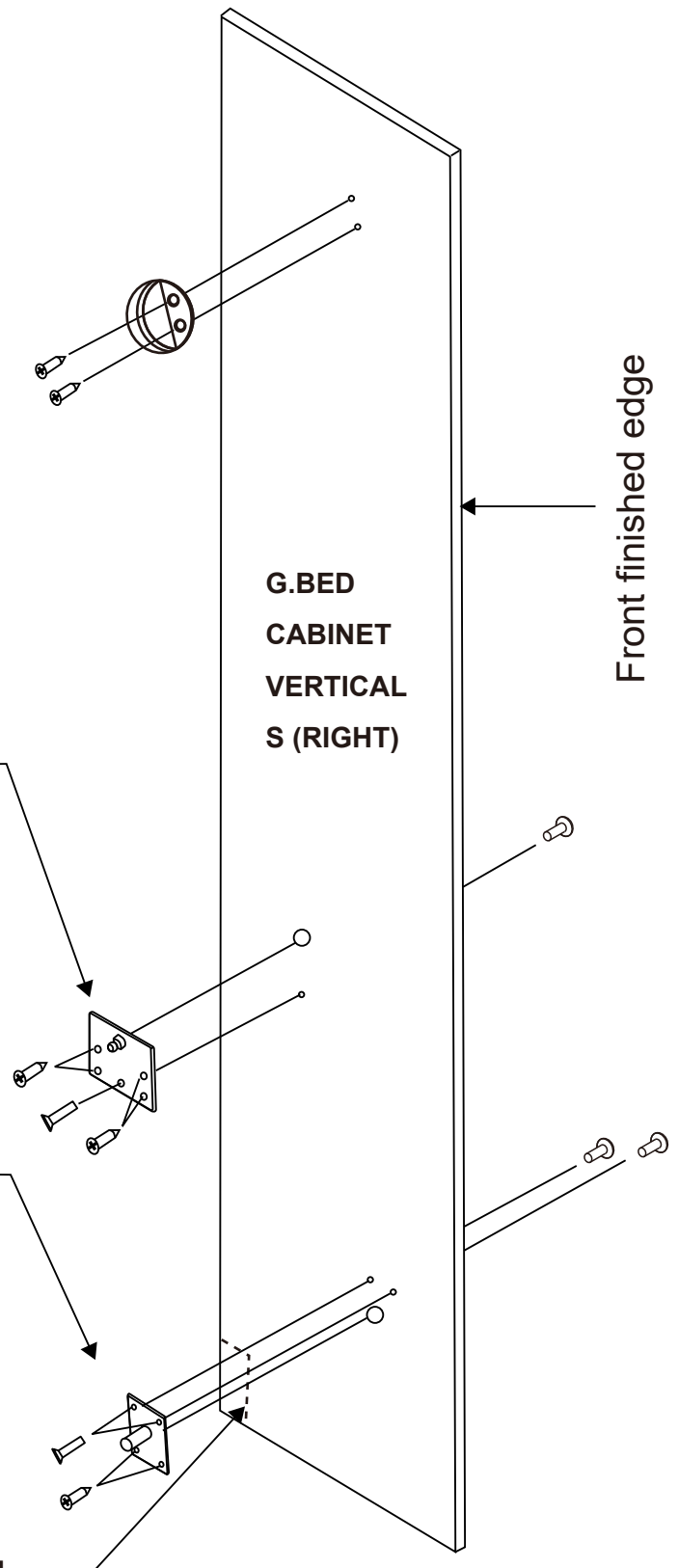
Drill a hole 5/8" x 1/2" deep and insert nut into hole. Mount plate to the vertical with four (4) Ⓑ black screws and one (1) "T" Nut and machine screw.

## Step 27:

**MALE PIVOT PLATE:** Drill a hole 5/8" diameter x 1/2" deep. Insert the 1/2" end of rod into hole. Drill two (2) holes 1/4" diameter through the vertical using the upper holes in the pivot plate as a guide. Tap "T" Nuts into two (2) upper holes from outside then screw 1/4" machine screws through pivot plate into "T" Nuts. Screw two (2) Ⓐ silver screws through pivot plate holes into vertical.

## OPTION:

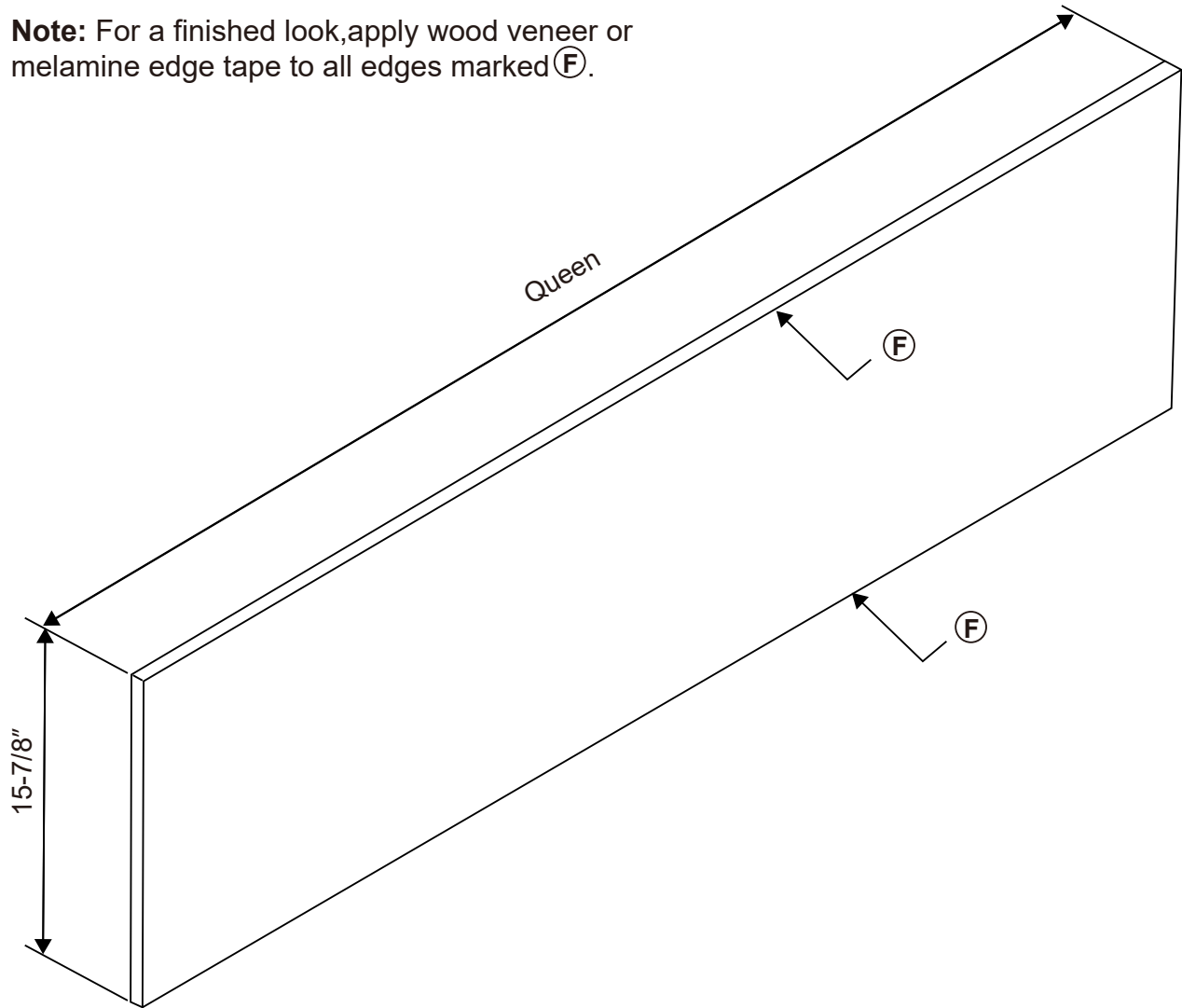
On left and right bed verticals, a cut can be made to accommodate existing base molding so cabinet will fit flush against the wall.



## PART F: BED HEADBOARD

### Step 28:

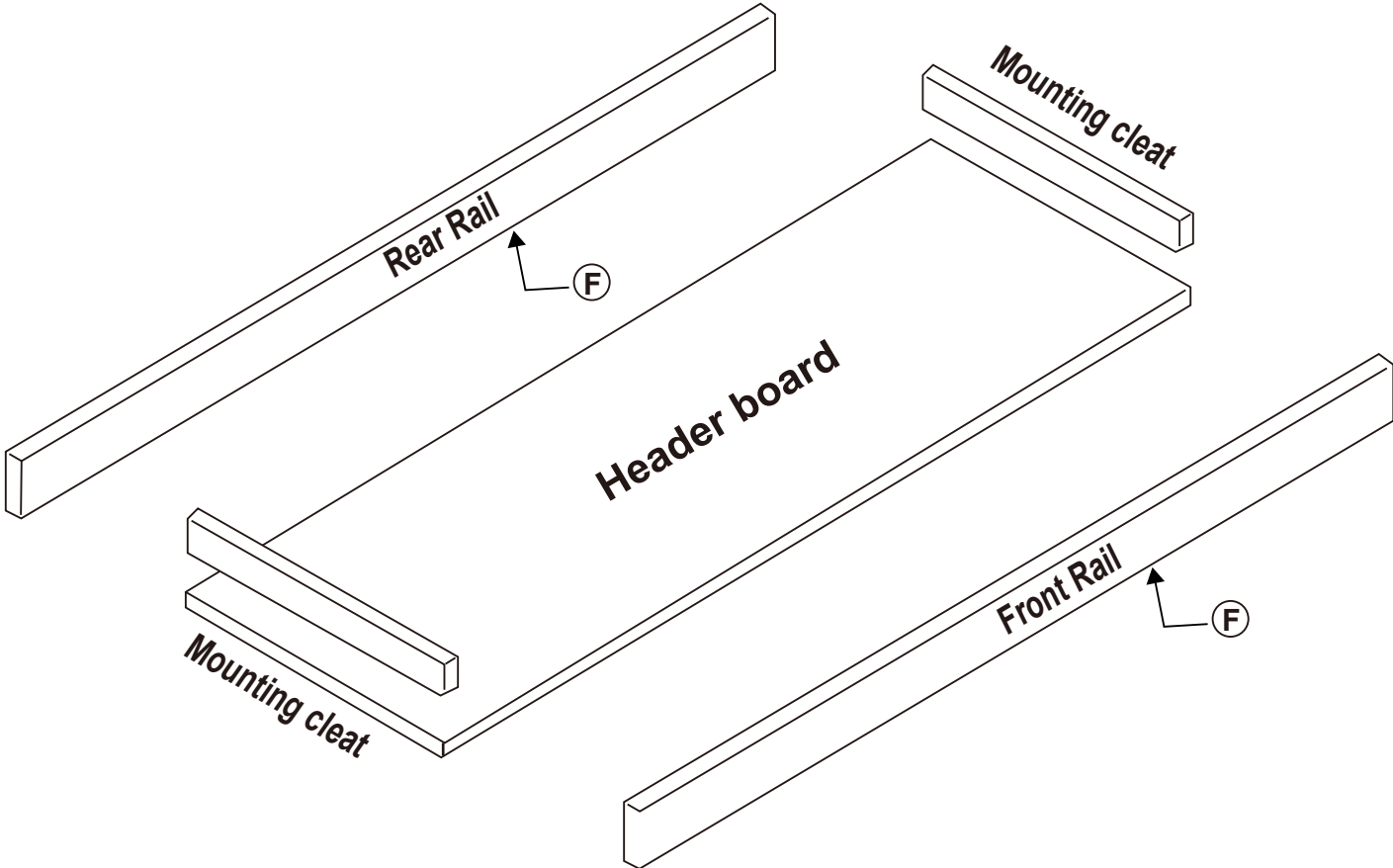
**Note:** For a finished look, apply wood veneer or melamine edge tape to all edges marked (F).



# PART H: BED HEADER COMPONENTS

**Note:**

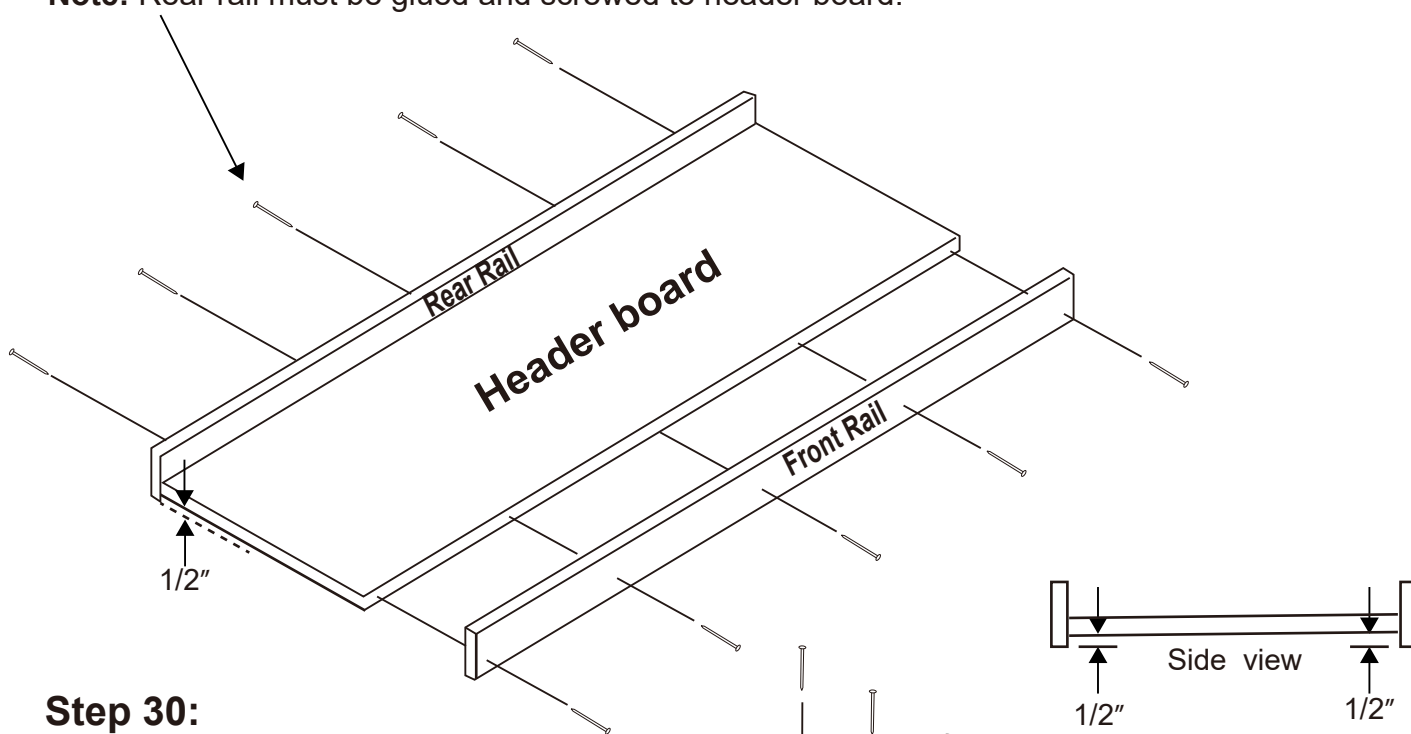
For a finished look, apply wood veneer or melamine edge tape to all edges marked (F).



### Step 29:

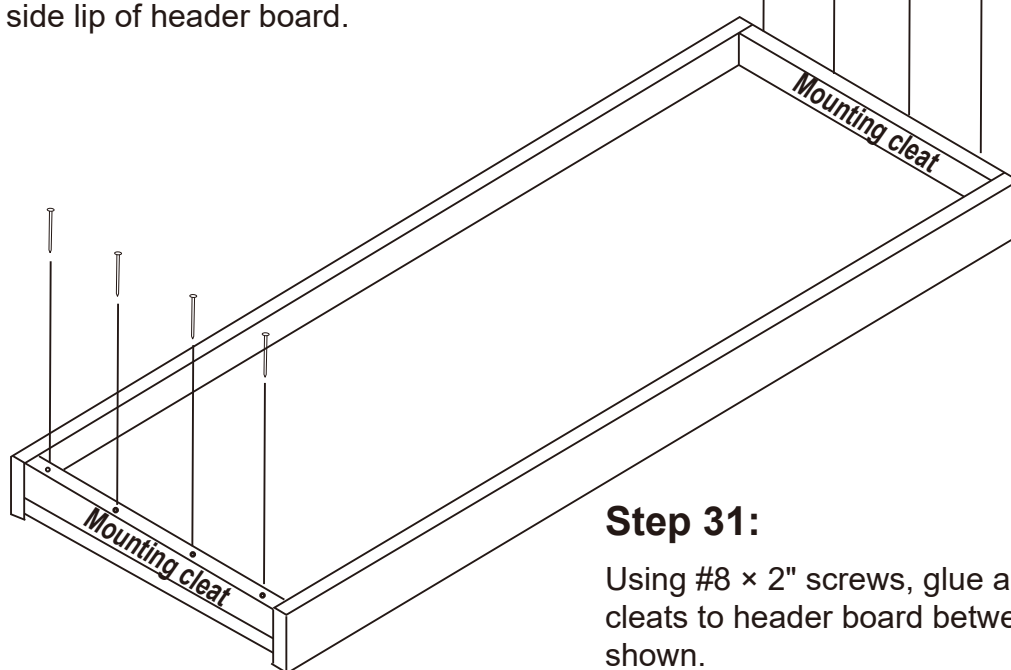
Using #8 x 2" screws, glue and screw rear rail to header board, maintaining a 1/2" lip on the underside of the header board.

**Note:** Rear rail must be glued and screwed to header board.



### Step 30:

Using 2" finish nails, glue and nail front rail to header board, maintaining a 1/2" lip on underside lip of header board.



### Step 31:

Using #8 x 2" screws, glue and screw mounting cleats to header board between front and rear rails as shown.

**NOTE:** Be sure to drill pilot holes and counter-sink screws flush with the wood.

### Step 32:

Remove all Hardware, sand & finish all components!

# AFTER-SALES SERVICE CARD

We sincerely thank you for trusting our service and our products, and may this product add enrichment to your home. We guarantee that the product has undergone strict quality inspection and meticulous packaging. If you encounter any issue regarding either shipping or the product, please feel free to contact us at any time. We'd be more than happy to serve you wholeheartedly.

Yours Sincerely

- Please avoid harsh, corrosive and abrasive cleaners.
- Keep dry and avoid damp environments.

***Customer Service:(800)209.3199(MON-FRI 9:00am-5:00pm  
Eastern Time) or [contact@room-tec.com](mailto:contact@room-tec.com)***

***Address: 3005 Breckinridge Blvd, Suite 200, Duluth, GA 30096***

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If you have any questions or concerns please feel free to contact us. We're committed to providing our customers with the quality service.