DO NOT DEVIATE FROM THESE PLANS!

If you want to modify these plans IN ANY WAY, please CALL US FIRST toll-free:

1-877-966-3852

Unapproved changes can cause your Murphy bed to NOT WORK CORRECTLY and will VOID your warranty.

PLEASE NOTE:

This kit is engineered to work with ANY mattress that meets these <u>WEIGHT</u> and <u>THICKNESS</u> specifications:

SIZE OF BED	THICKNESS (including any pillow top)	WEIGHT
TWIN	Up to 12 inches	35 to 50 pounds
FULL	Up to 12 inches	50 to 65 pounds
QUEEN	Up to 12 inches	65 to 80 pounds

Create-A-Bed®LLC

NOTE: <u>DO NOT</u> deviate from these plans

These plans are for constructing a STANDARD

FULL HORIZONTAL BED

using **PLYWOOD** material

If you are missing any parts or have ANY questions pertaining to materials or construction please phone the manufacturer.

TOLL FREE 1-877-966-3852

TOOLS NEEDED:

Power Drill

Drill Bits: 1/8", 1/4", 5/16"

1" Forstner Bit, 5/8" Forstner Bit

Power Saw, Table Saw or Circular Saw

Jigsaw or Coping Saw

Phillips-Head and Flat-Head Screwdrivers or Driver Bits for Drill

Tape Measure

#4 Allen Wrench

Hammer

Clamps

Straight Edge or Framing Square

Household Iron for Veneer Tape and Utility Knife

© Create-A-Bed®LLC 2003, 2008, 2018, 2021

murphy bed mechanism

1800 Taylor Avenue Louisville, KY 40213

www.createabed.com

TOLL FREE: 1-877-966-3852

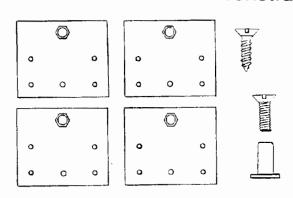
Create-A-Bed®

C.A.B., Inc.

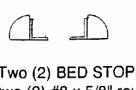
FULL HORIZONTAL (SIDEBED) murphy bed mechanism PLYWOOD construction



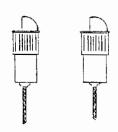




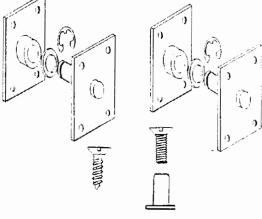
Four (4) BALL STUD PLATES with twelve (12) black #10 x 3/4" screws and eight (8) "T" nuts with machine screws



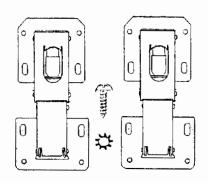
Two (2) BED STOPS with two (2) #8 x 5/8" round head SCREWS



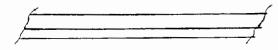
Two (2) LOCKING SPRING LATCHES with CABLES



Two (2) pair of METAL PIVOTS with two (2) WASHERS two (2) "E" CLIPS four (4) "T" nuts with MACHINE SCREWS twelve (12) #12 x 3/4" zinc SCREWS



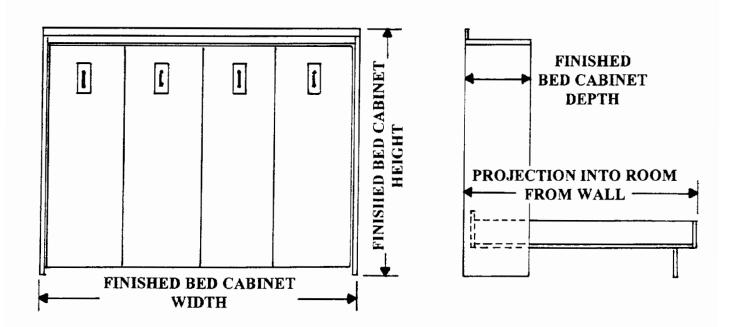
Two (2) double-acting, fully-concealed LEG HINGES with sixteen (16) #8 x 5/8" round head MOUNTING SCREWS with two (2) LOCK WASHERS



Two (2) ELASTIC MATTRESS RETAINING STRAPS

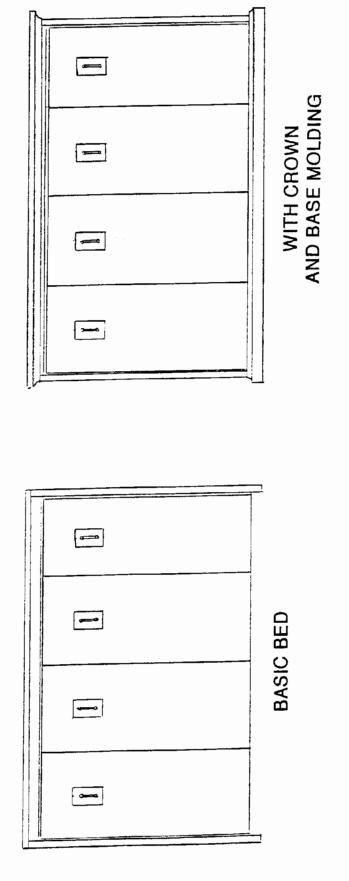
- One (1) yellow PLYWOOD CONSTRUCTION booklet
- One (1) white PARTICLE BOARD CONSTRUCTION booklet
- One (1) blue ASSEMBLY AND INSTALLATION booklet
- One (1) HORIZONTAL bed Construction, Assembly and Installation VIDEO.
 - © Create-A-Bed®

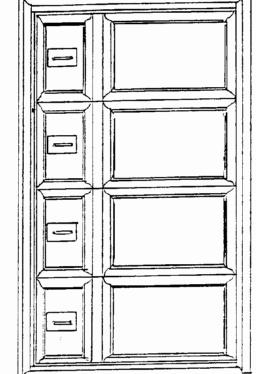
Out-to-out dimensions of HORIZONTAL STYLE murphy bed cabinet constructed using the Create-A-Bed® mechanism



OUTSIDE-EDGE to OUTSIDE-EDGE FINISHED HORIZONTAL BED CABINET DIMENSIONS						
SIZE	HEIGHT	WIDTH	DEPTH	PROJECTION		
Twin	47 3/8"	79"	15 7/8"	43"		
Full	62 5/16"	79"	15 7/8"	58"		
Queen	68 5/16"	84"	15 7/8"	64"		

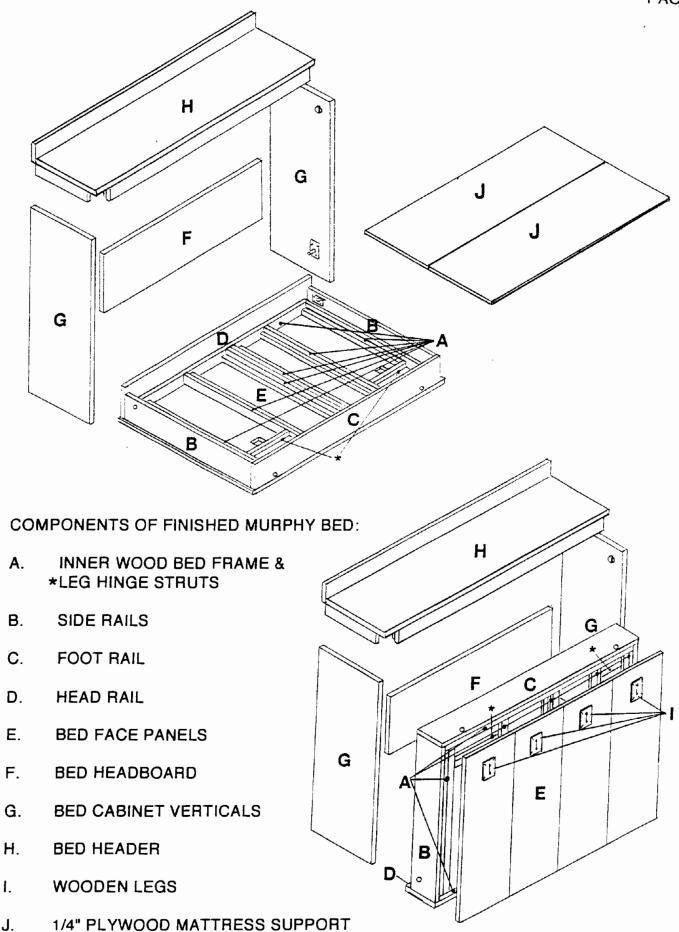
Some design options... or create your own!





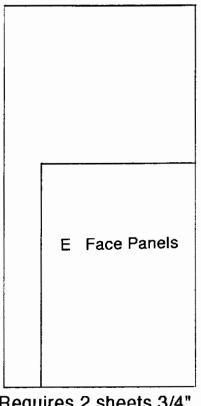
WITH CROWN, BASE AND SPLIT FACE PANEL MOLDING

WITH CROWN, BASE AND FULL-LENGTH FACE PANEL MOLDING

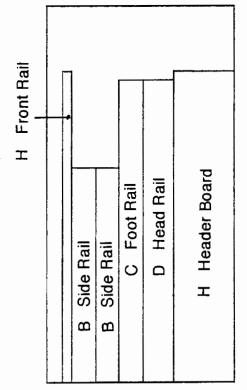


J.

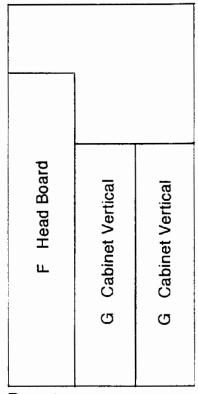
FULL SIDEBED (HORIZONTAL) PLYWOOD CUTTING GUIDE Requires 4 sheets of 3/4" x 4' x 8' and 2 sheets of 1/4" x 4' x 8' NOTE: Refer to page 6 for the cutting dimensions.



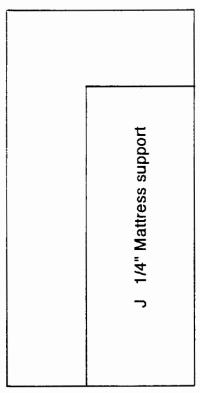
Requires 2 sheets 3/4"



Requires 1 sheet 3/4"



Requires 1 sheet 3/4"



Requires 2 sheets 1/4"

FULL SIZE HORIZONTAL (side) BED WITH 3/4" PLYWOOD FACE PANEL BILL OF MATERIALS / CUT SHEET

check off as completed A. INNER WOOD BED FRAME:	*To be constructed of solid wood:						
A. INVERT WOOD DED I HAMIE.	poplar, clear pine, maple, etc.						
FRAME STRUTS: *Solid wood:	3/4" X 1-1/2" X 52-1/2"	12 pieces					
FRAME SIDES: *Solid wood:	3/4" X 1-1/2" X 75"	2 pieces					
LEG HINGE STRUTS: *Solid wood:		4 pieces					
IMPORTANT: PLYWOOD MATERIAL MUST BE USED ON THESE PIECES:							
B. SIDE RAILS:	3/4" X 5-7/8" X 54"	2 pieces					
C. FOOT RAIL:	3/4" X 5-7/8" X 76-1/2"	1 piece					
_		·					
D. HEAD RAIL:	3/4" X 7-7/8" X 76-1/2"	1 piece					
E. BED FACE PANEL:	3/4" X 38-1/2" X 55-3/4"	2 pieces					
		•					
F. BED HEADBOARD:	3/4" X 15-7/8" X 77-3/8"	1 piece					
_		·					
G. BED CABINET VERTICALS:	3/4" X 15 7/8" X 60 7/16"	2 pieces					
		•					
H. BED HEADER:							
HEADERBOARD:	3/4" X 15-1/8" X 78-7/8"	1 piece					
FRONT RAIL:	3/4" X 2" X 77-3/8"	1 piece					
FRONT RAIL SUPPORT: *Soild wood:		2 pieces					
REAR RAIL: *Solid wood:	3/4" X 2" X 78-7/8"	1 piece					
MOUNTING CLEATS: *Solid wood:	3/4" X 1" X 12"	2 pieces					
MOUNTING CLEATS. Solid Wood.	3/4 X 1 X 12	2 pieces					
L DED LECC. *Colid mood:	3/4" X 3" X 7"	4 nionon					
I. BED LEGS: *Solid wood:	3/4 \ \ 3 \ \ \ /	4 pieces					
L 4 /4 II DI VIMOOD mettrose supporte	4 /4 II V 07 II V 75 II	Oniono					
J. 1/4" PLYWOOD mattress support: 1/4" X 27" X 75" 2 pieces							
K. VENEER or MELAMINE TAPE:	13/16" X 75 feet						
1 44000 0145	O a O a a a a banda						
L. WOOD GLUE:	One 8 ounce bottle						
M. CONSTRUCTION ADHESIVE:	One 10 ounce tube						
N. FINISH NAILS:	One box of 1 1/4"						
	One box of 1 1/2"						
_O. SCREWS:	#8 1 1/4" coarse thread Box of 100						
	#8 1 1/2" coarse thread 30						
	#8 2" coarse thread 40						
D INNEDCODING MATTRECO	hina CE navado ar moro						

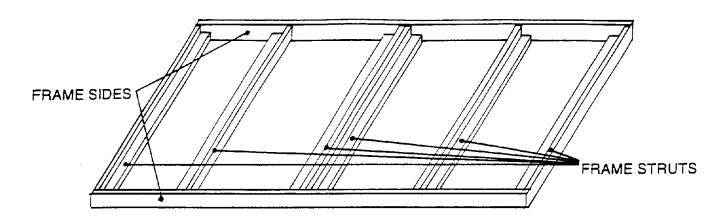
__P. INNERSPRING MATTRESS weighing 65 pounds or more

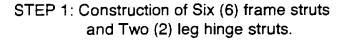
NOTE: Make sure your mattress dimensions DO NOT exceed 54" x 75."

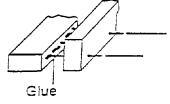
Mattress thickness not to exceed 12"

A. INNER WOOD BED FRAME

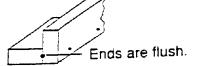
See Bill of Materials / Cut Sheet
(PART A) for twin, full or queen
size frame struts and frame sides
dimensions.

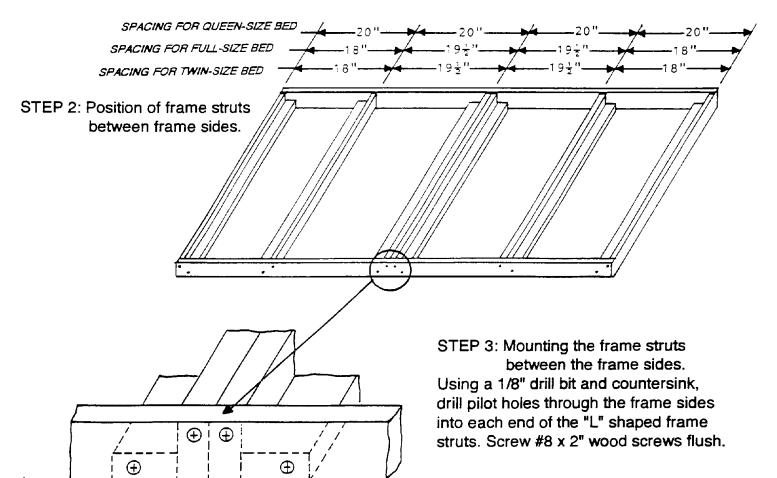






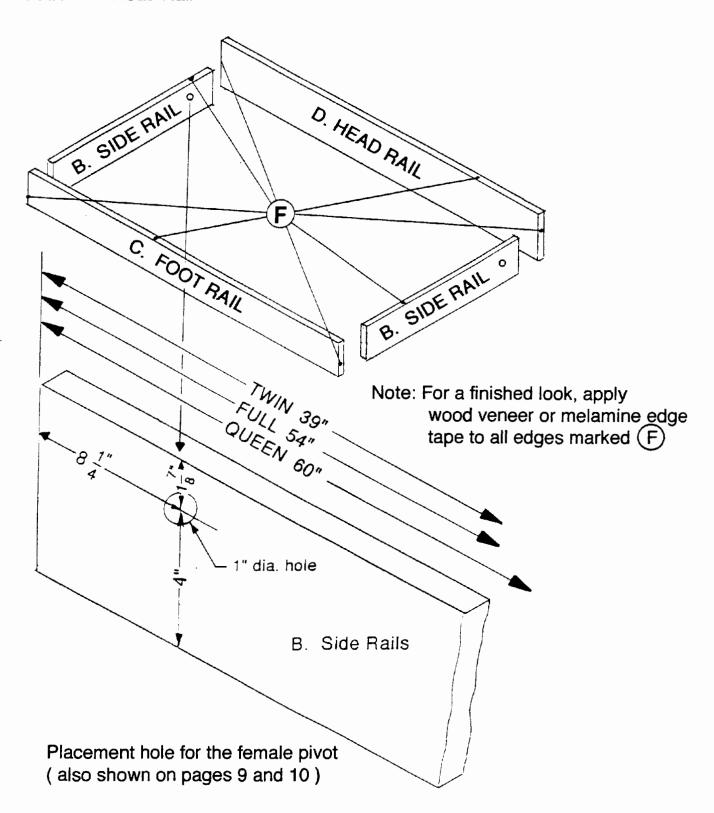
Run a bead of wood glue along inside edge. Making sure ends are flush drill pilot holes approximately 8" apart and nail with 1 1/2" finish nails, or you can use #8 1 1/2" screws.



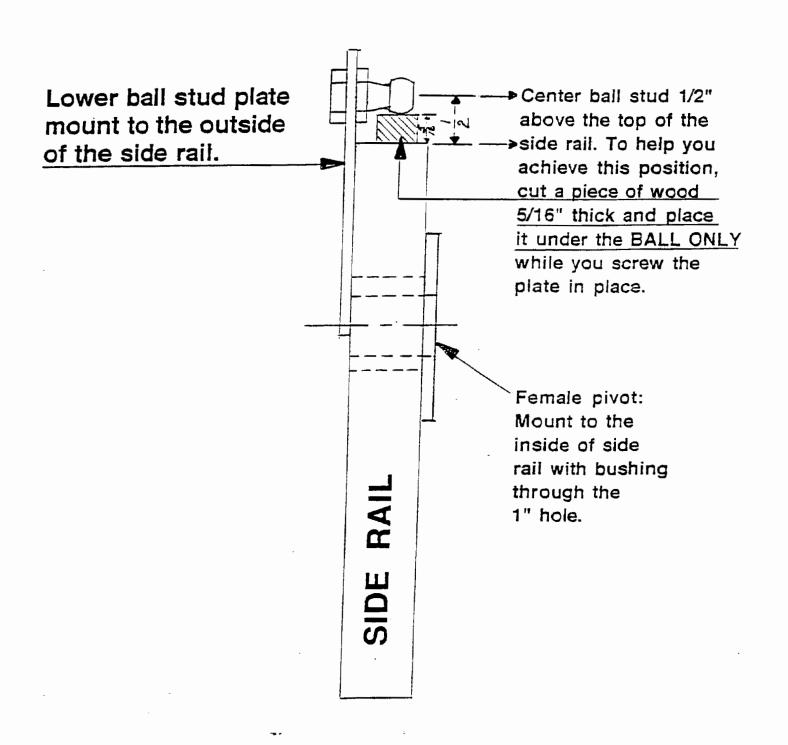


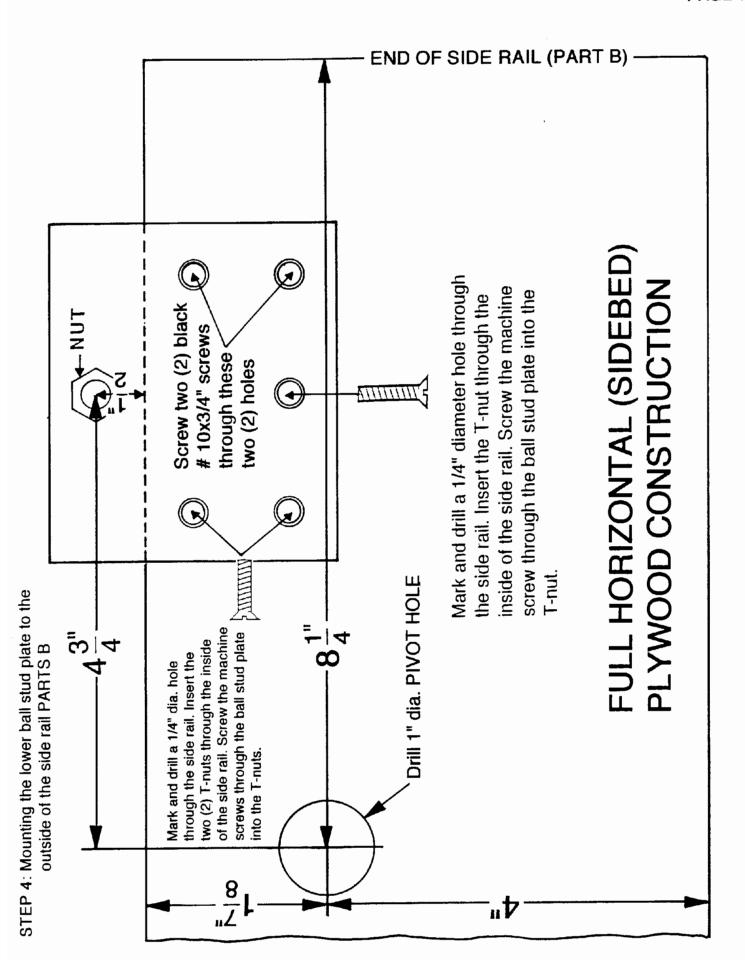
PART B. Side Rails: (must be made of plywood) Why?... This is where the stress takes place, Plywood is stronger than solid wood.

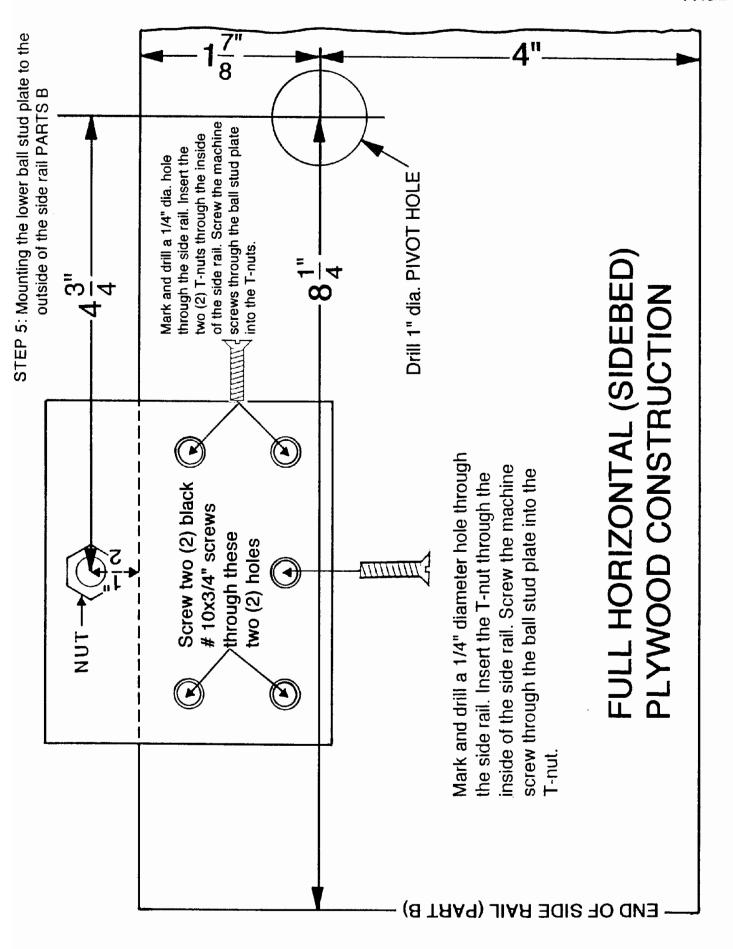
PART C. Foot Rail PART D. Head Rail

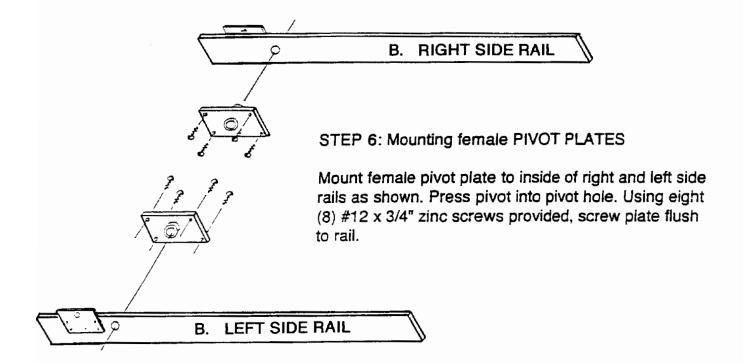


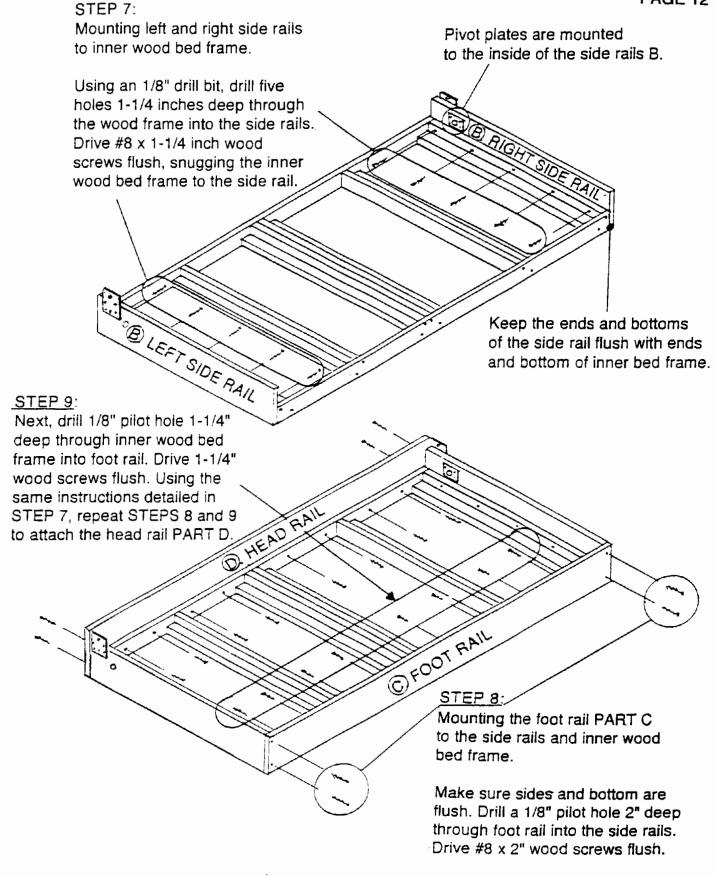
This page pertains to the orientation and mounting positions of the lower ball stud plate and female pivot - USE WITH PAGES 9, 10, & 11



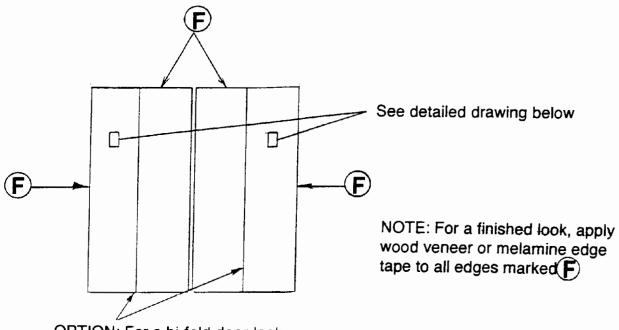






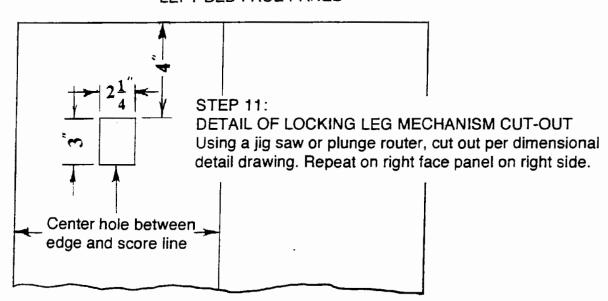


E. BED FACEL PANEL(S)

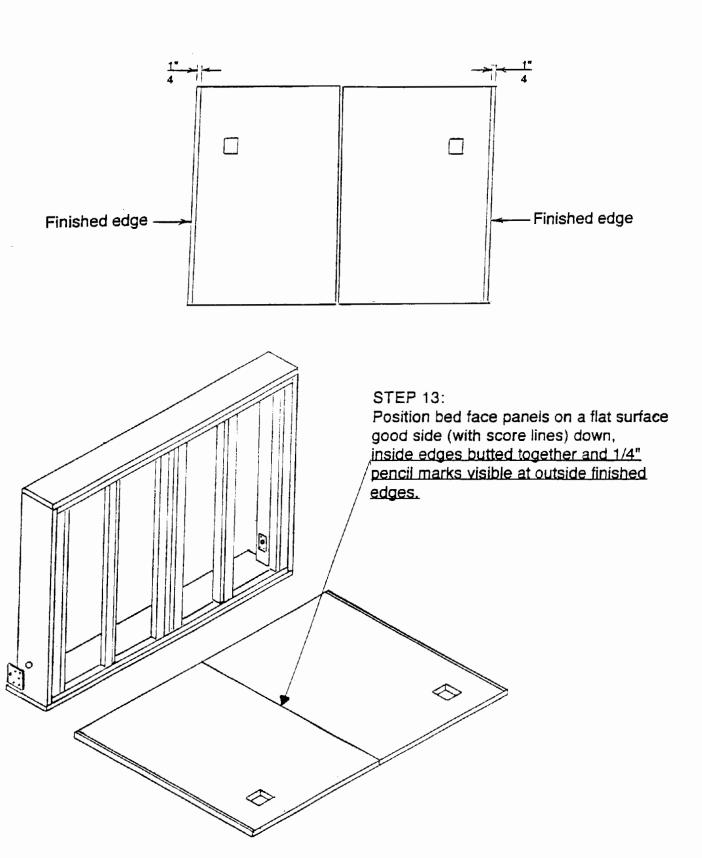


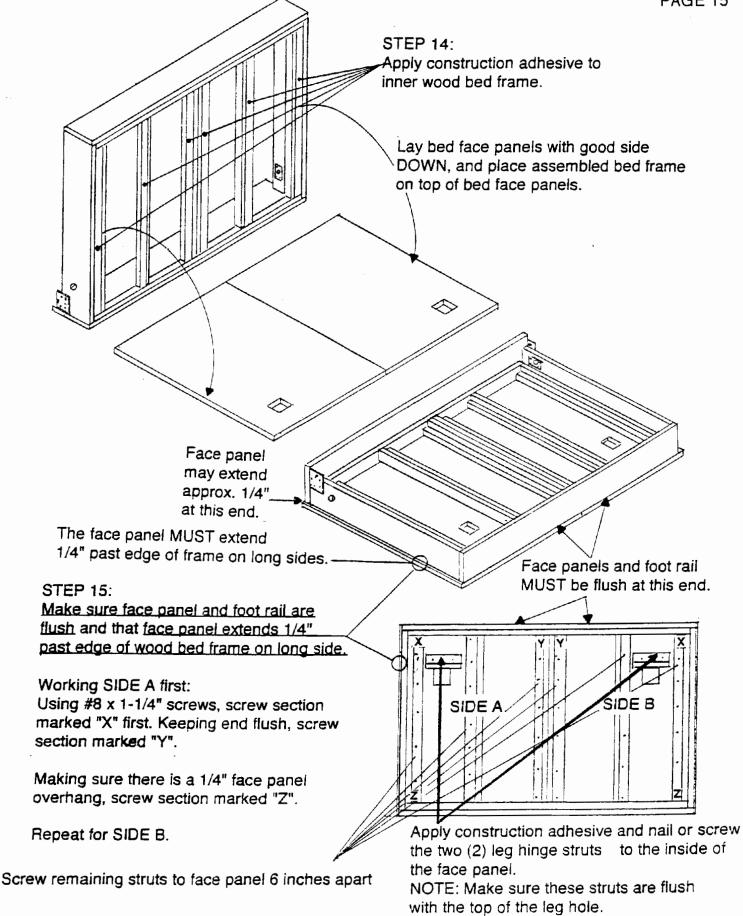
OPTION: For a bi-fold door look, score center of panels 1/8" deep the full length of the panels.

LEFT BED FACE PANEL



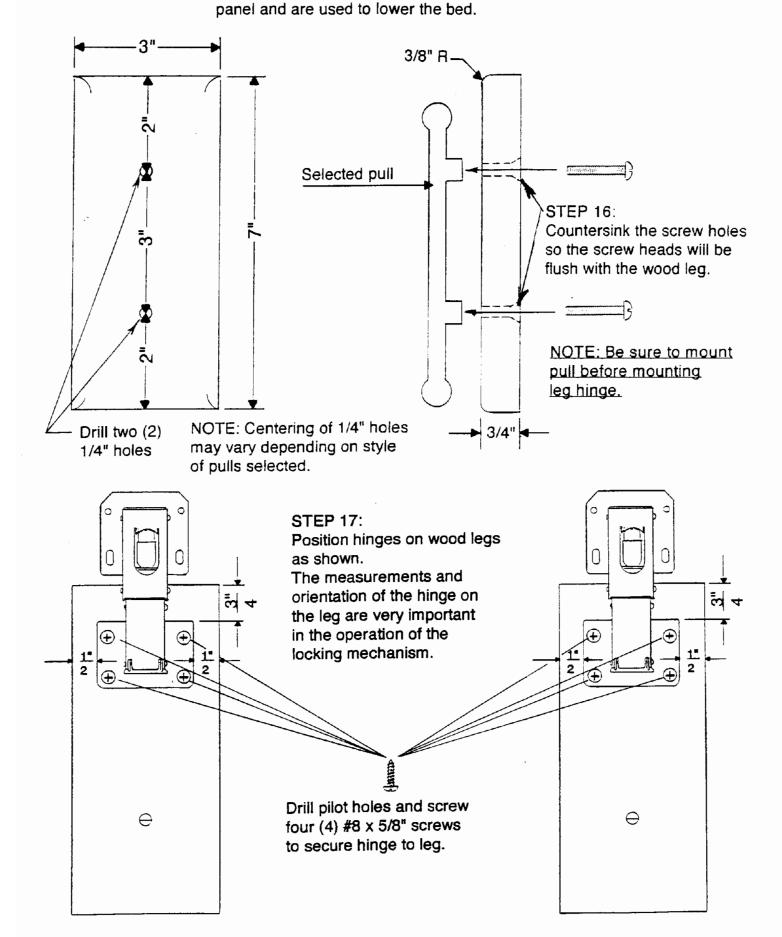
STEP 12: Turn face panels over. On back side, mark a 1/4" line the full length of each panel along finished long edge.

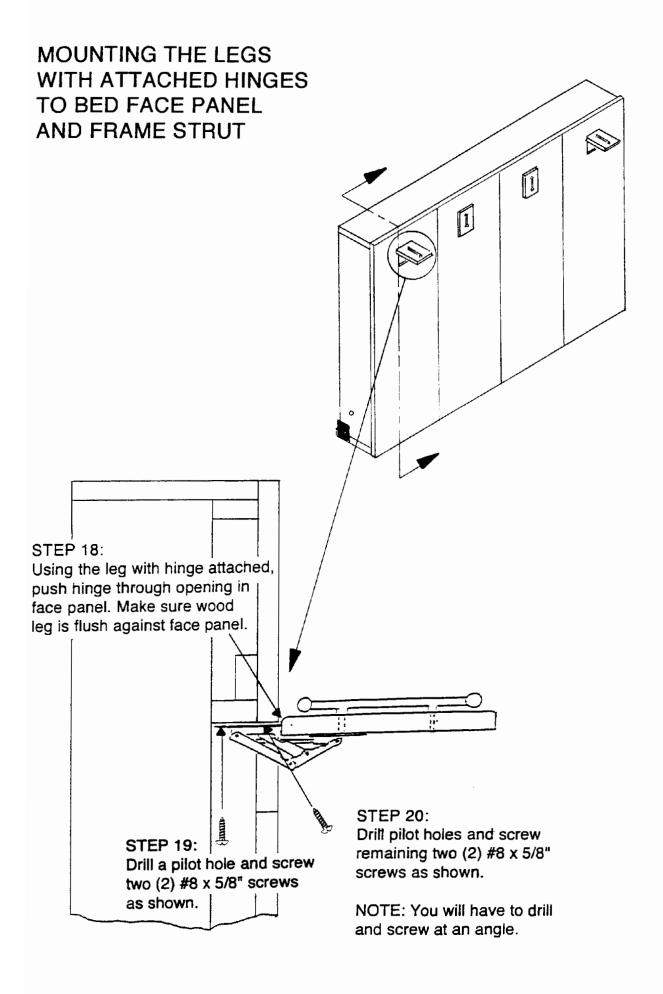




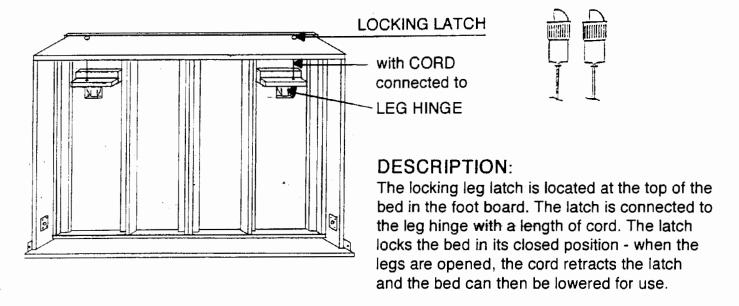
I. WOOD LEGS

NOTE: Make four (4) wood legs, 3/4" x 3" x 7". ONLY two (2) legs will use the leg hinges. The other two (2) legs are fixed to the face

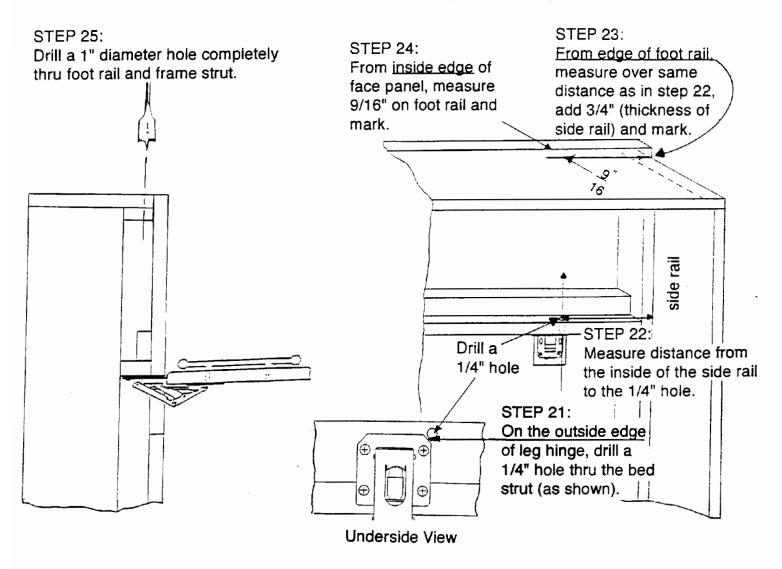




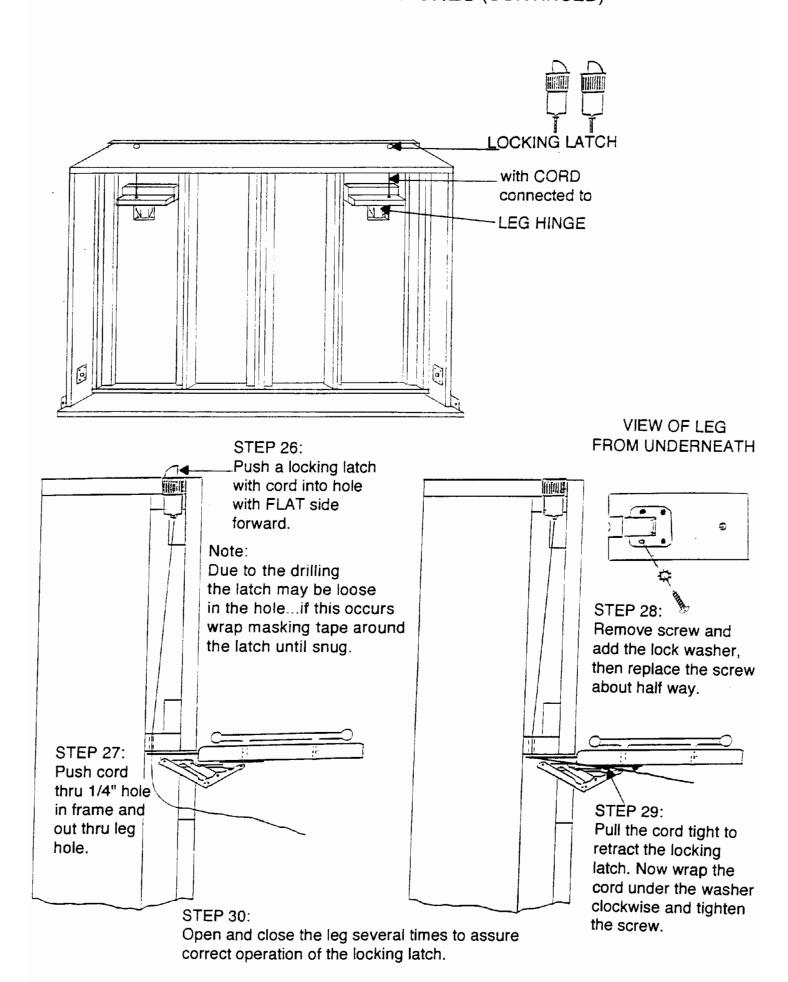
INSTALLING THE LOCKING LATCHES

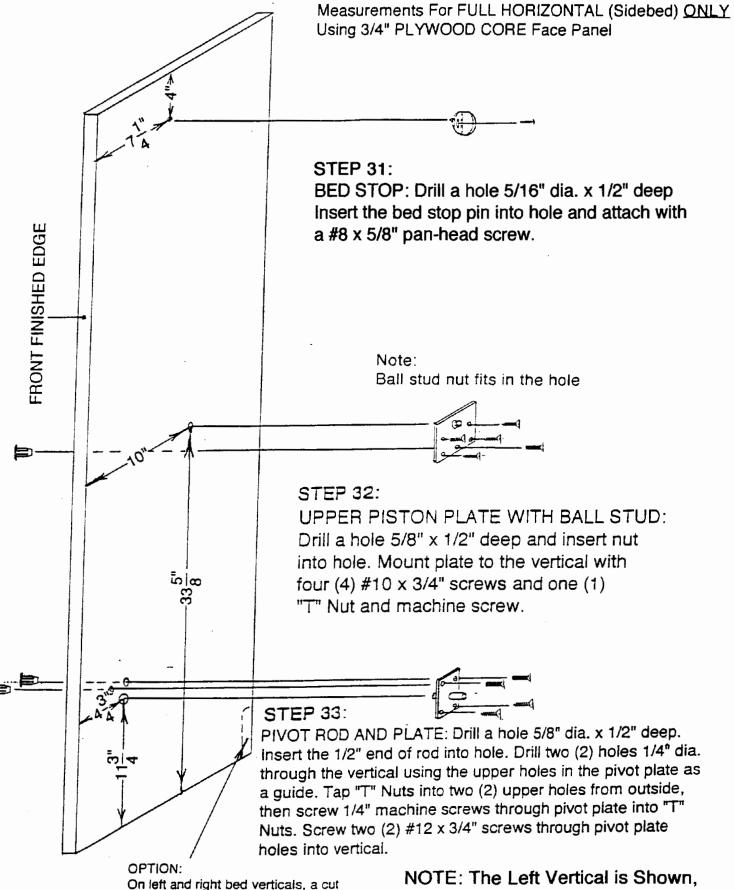


NOTE: BE SURE TO PERFORM STEPS 21 THRU 30 IN ORDER...



INSTALLING THE LOCKING LATCHES (CONTINUED)



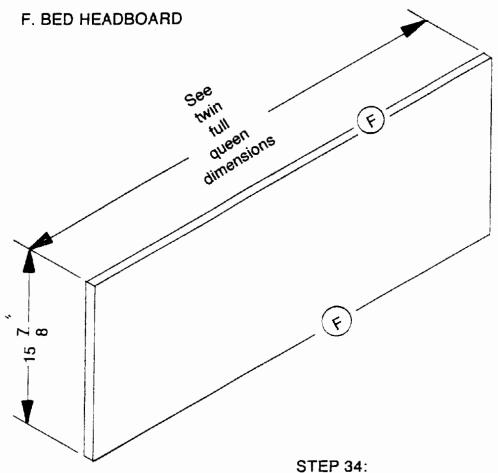


can be made to accommodate existing base molding so cabinet will fit flush

against the wall.

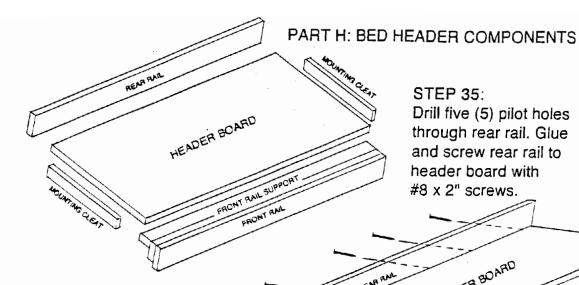
PART G: BED CABINET VERTICALS

NOTE: The Left Vertical is Shown, Repeat Steps 31, 32, and 33 For The Right Vertical.



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





STEP 35:

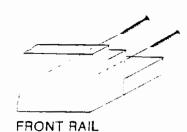
Drill five (5) pilot holes through rear rail. Glue and screw rear rail to header board with #8 x 2" screws.

HEADER BOARD

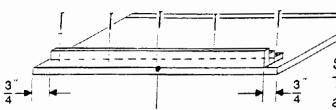
STEP 36:

Drill six (6) 1/8" pilot holes in front rail support, then glue and screw together with 1 1/2" wood screws or nails. This the same operation as performed on struts.





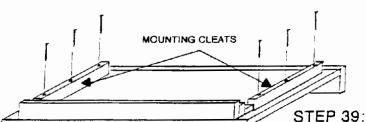
STEP 37: Attaching the front rail to the front rail support: Drill six (6) pilot holes 1 1/4" deep through rear of support into rear of front rail, then glue and screw together with 1 1/4" wood screws.



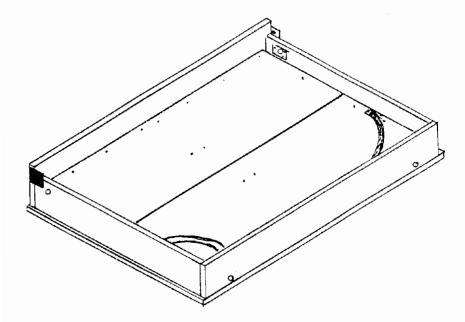
Keep rail and edge of header flush.

STEP 38:

Turn header board over (top down) and position assembled rail and supports 3/4" in from each side of header board. Being sure to keep rail and edge of header board flush, drill five(5) pilot holes 1 1/4" deep in front rail support into header, then glue and screw to header board with 1 1/4" wood screws.



Cut two (2) mounting cleats to fit between front rail and back of header board and attach to header board with 1 1/4" wood scres 3/4" from edge of header.

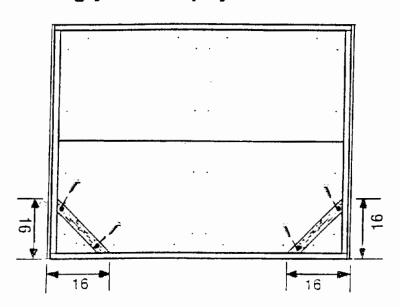


STEP 40:

Lay 1/4" plywood mattress support (PART J) on inner bed frame and attach with finish nails or screws. Screw ends of both mattress retaining straps thru 1/4" plywood (PART J) into inner wood bed frame, 16 (sixteen) inches from front corners of face panel as shown. Place innerspring mattress on plywood, and slip both straps over front corners of mattress, checking length to assure mattress is secure.

NOTE:

Now refer to the BLUE ASSEMBLY BOOKLET and VIDEO for instructions for assembling and installing your murphy bed.



ASSEMBLY INSTRUCTIONS FOR THE

HORIZONTAL (Sidebed)

Create-A-Bed®

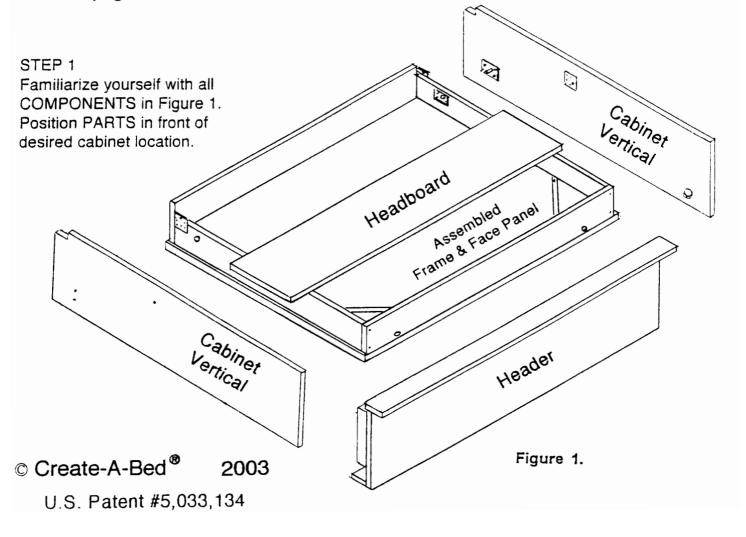
MURPHY BED

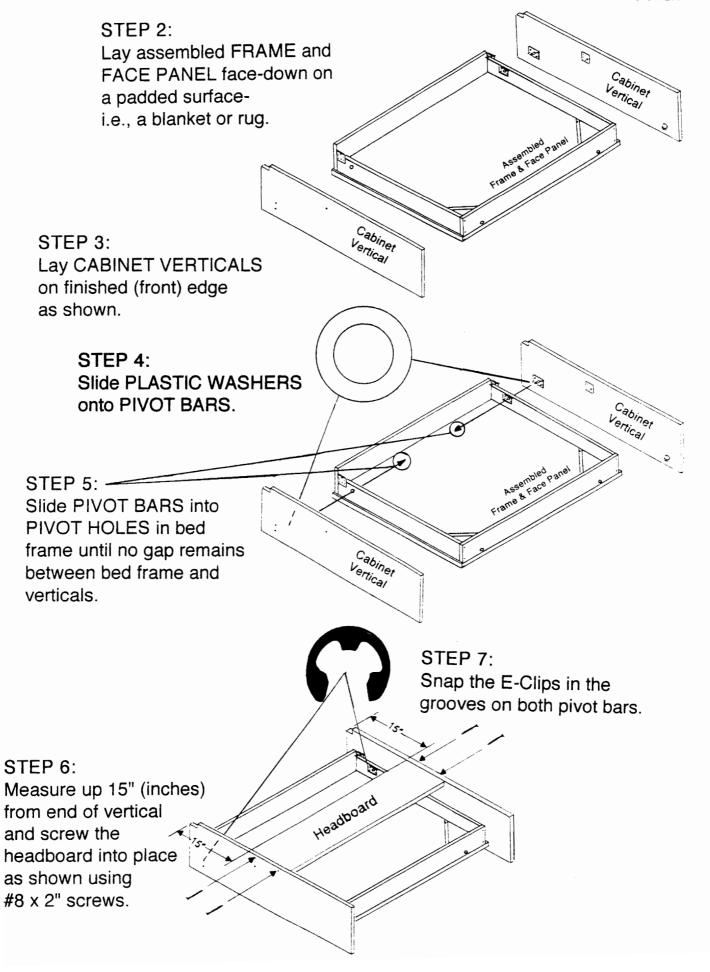
WARNING!

This bed contains stored mechanical energy which can cause serious injury if improperly handled.
Your bed MUST! MUST! be securely anchored to the wall!
READ INSTRUCTIONS AND WATCH VIDEO THOROUGHLY BEFORE
ASSEMBLY AND DISASSEMBLY!

If you have ANY questions, call TOLL FREE (877) 966-3852

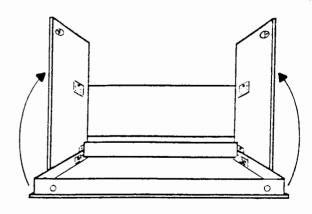
Tools needed: Power drill, Stud Finder, Tape Measure, Phillips-head screwdriver, Flat-head screwdriver and drill bits appropriate for your mounting surface see step 15 on page 7.



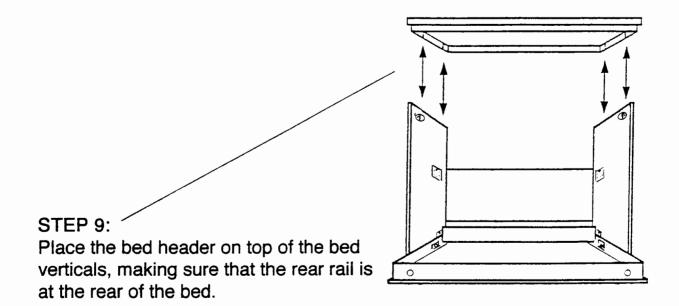


STEP 8:

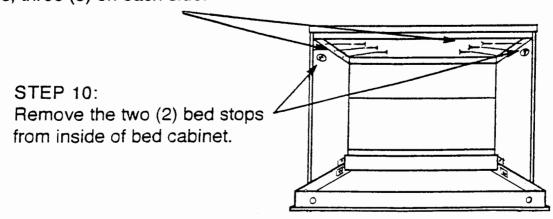
With the BED FACE PANEL remaining face-down on padding, slowly and carefully rotate the CABINET VERTICALS & the HEADBOARD assembly into its upright position.



NOTE: To prevent damage to the legs be sure they are in the closed position when rotating the bed into the upright position.

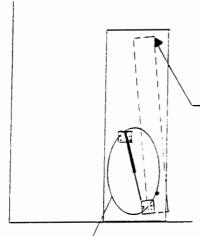


Using #8 x 1-1/4" screws, drill and screw through the mounting cleats into the bed verticals, three (3) on each side.



STEP 11:

Place bed cabinet 2 to 3 feet away from the wall. allowing enough room to comfortably work behind the bed cabinet.

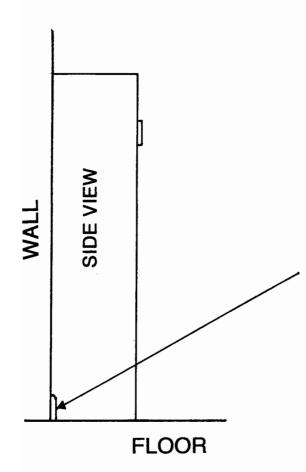


STEP 12:

With a helper holding the bed cabinet, allow the bed to recess back into the cabinet about three (3) inches.

At this point, the piston can be installed. Simply snap the piston on the <u>bottom (bed frame) end first</u> - then the top (bed cabinet) end.

BE SURE TO ORIENT PISTON CORRECTLY by referring to the label on each piston. ("MOUNT THIS END UP")



STEP 13:

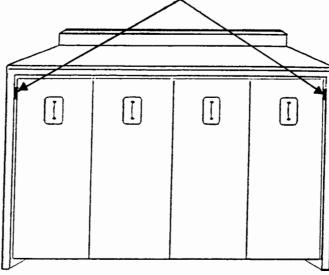
If the room has existing base molding, make a cut at the bottom rear of the cabinet verticals to accommodate the existing base molding.

If room does not have base molding, simply place cabinet flush against wall.

STEP 14:

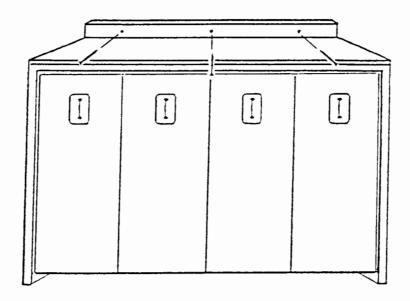
After assuring that the top and bottom of the bed cabinet are against the wall, center the face panel between the verticals by placing a piece of folded cardboard between the face panel and each of the two verticals as illustrated.

NOTE: The face panel is still recessed inside the cabinet.



STEP 15 IS VERY, VERY IMPORTANT!!! YOUR BED MUST BE SECURELY AND CORRECTLY ANCHORED TO THE WALL to assure proper operation and to avoid possible injury.

NOTE: When the bed is lowered, it wants to pull the bed cabinet down with it, so the bed cabinet MUST be securely anchored to the wall using the correct fasteners for your type of wall.



See STEP 15 on PAGE 7 for Anchoring Instructions

STEP 15: MOUNTING THE BED CABINET TO THE WALL

If the wall has WOOD studs, use 3" COARSE THREAD drywall screws or 3" lag screws:

Locate and mark the centers of the studs in desired wall location using a good studfinder.

Drill three (3) pilot holes through the rear rail of the Bed Header into the wall for a twin or full size bed and four (4) for a queen size bed. Drive three (3) 3" drywall screws or lag screws through the rear rail of the Bed Header into the studs for a twin or full, and drive four (4) screws for a queen size bed.

If the wall is CONCRETE, MORTAR OR BRICK construction, use masonry screws :

Drill three (3) pilot holes through the rear rail of the Bed Header into the wall for a twin or full size bed and four (4) for a queen size bed. Using a 5/32" 4" concrete drill bit, drill through the pilot holes into the wall two (2) inches deep. Anchor the bed by screwing 3/16" x 2 1/4" masonry screws through the rear rail of the Bed Header into the wall.

If the wall has METAL studs, use 3/16" x 4" toggle bolts: Locate and mark the centers of the studs in desired wall location using a good studfinder.

Drill three (3) pilot holes through the back rail of the Bed Header into the wall for a twin or full size bed and four (4) for a queen size bed. Using a 9/16" drill bit, drill holes at the pilot holes through the metal studs. Be sure you drill through the studs. Insert the toggle bolt screws through the pilot holes in the rear rail of the Bed Header. Now thread the toggle wings on the screws. Fold the wings back completely and push the wings through the metal studs until the wings spring open. Pull the Header Rail back to hold the wings against the inside of the stud and tighten the screws with a screwdriver.

STEP 16:

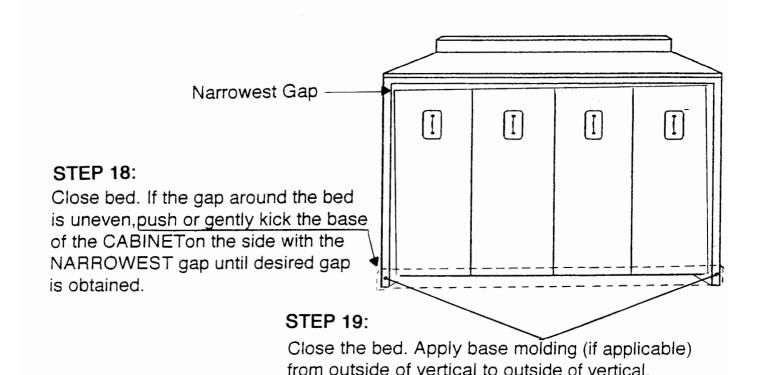
Holding the BED FACE PANEL in the down position, place the innerspring mattress on the bed and secure with ELASTIC RETAINING STRAPS.

NOTE: When lowering the bed without the counter balance of the mattress it may seem very difficult... do not be concerned, once the mattress is placed on the bed it will function easily.

Replace the bed stops and screws.

STEP 17:

If the mattress is lightweight and the bed has a tendency to float off the floor, simply add some weight-i.e.- a piece of particle board, wood, etc. inside the bed frame at the end of the bed to counter-balance.



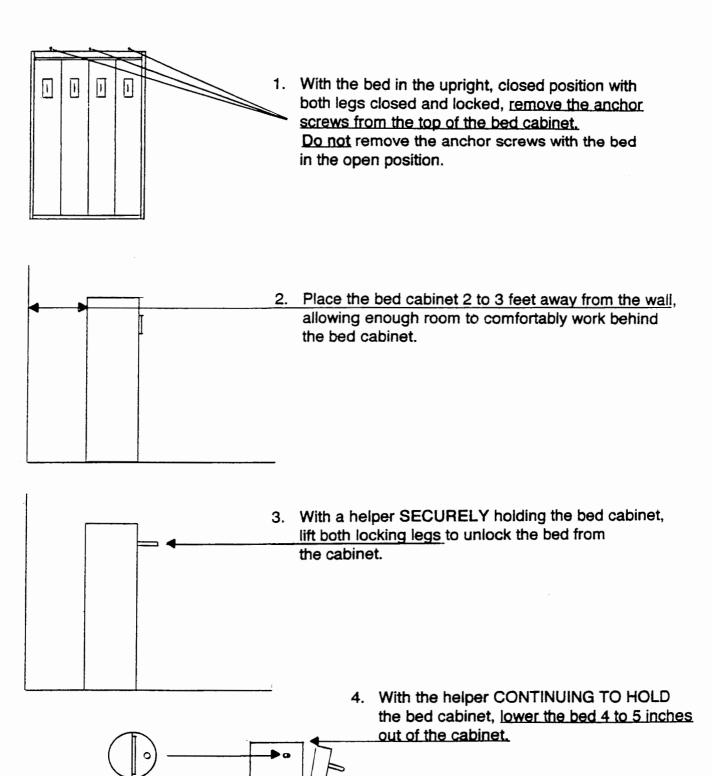
PROBLEM SOLVING

- Q: The piston won't hand-compress... has it "frozen up?"
- A: The design and construction of the piston's internal parts won't allow it to "freeze up." Each piston contains as much as 240 pounds of pressure, so they CANNOT be compressed by hand. Please refer to the ASSEMBLY BOOKLET, page 4 step 12.
- Q: The bed is very hard to open and it wants to spring closed.
- A: Your mechanism is designed to have the optimum mechanical leverage to comfortably raise and lower the bed.

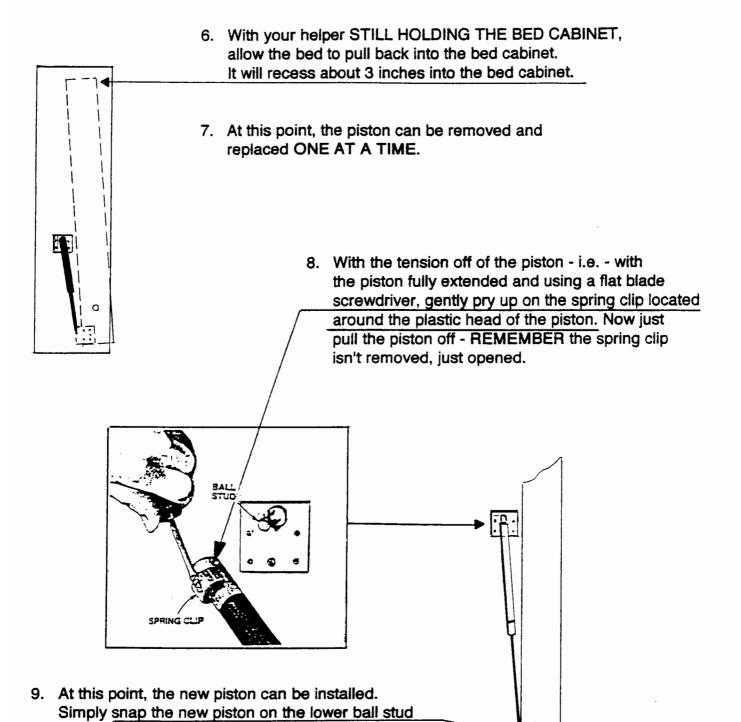
 Place the mattress on the bed. The mattress is the counter-balance, i.e., This is what offsets the force of the piston.
- Q: I've assembled the bed and attached it to the wall, but the bed face panel sags out of the cabinet... what do I do now?
- A: The mounting positions of the upper or the lower ball stud plates are incorrect. Check your measurements on PAGES 9, 10 and 20. Remember... the the measurements in the white (particle board) book ARE DIFFERENT from the measurements in the yellow (plywood) book. IF the face panel sags out of the cabinet and you FORCE it closed you will damage the head of the piston.

REPLACING THE COUNTER BALANCE PISTON

DO NOT ATTEMPT To Compress the piston by any other means than the one described in the steps below.



Working from the back of the bed, remove the screws and brass bed stops.



- 10. Repeat on the other side of the bed.
- 11. Replace both bed stops and screws.
- 12. Place the bed cabinet back against the wall and replace the screws, MAKING SURE THE BED IS SECURELY FASTENED TO THE WALL.

located on the bed rail - then the upper ball stud located on the bed vertical. BE SURE TO ORIENT THE PISTON CORRECTLY by referring to the label on the piston. (MOUNT THIS END UP)