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: DO NOT deviate from these plans

These plans are for constructing a STANDARD TWIN 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

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murphy bed mechanism 1800 Taylor Avenue Louisville, KY 40213 www.createabed.com TOLL FREE: 1-877-966-3852



C.A.B., Inc. TWIN HORIZONTAL (SIDEBED) murphy bed mechanism PLYWOOD construction

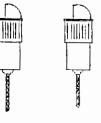
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Four (4) BALL STUD PLATES

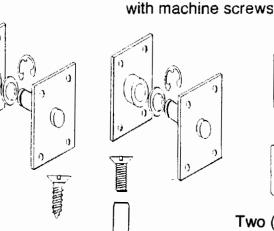
with twelve (12) black #10 x 3/4" screws and eight (8) "T" nuts



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

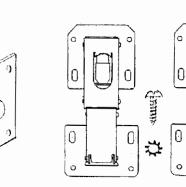
with two (2) WASHERS

twelve (12) #12 x 3/4" zinc

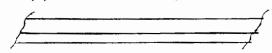
two (2) "E" CLIPS four (4) "T" nuts with MACHINE SCREWS

SCREWS

Two (2) PISTONS



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

0

One (1) yellow PLYWOOD CONSTRUCTION booklet One (1) white PARTICLE BOARD CONSTRUCTION booklet

One (1) blue ASSEMBLY AND INSTALLATION booklet

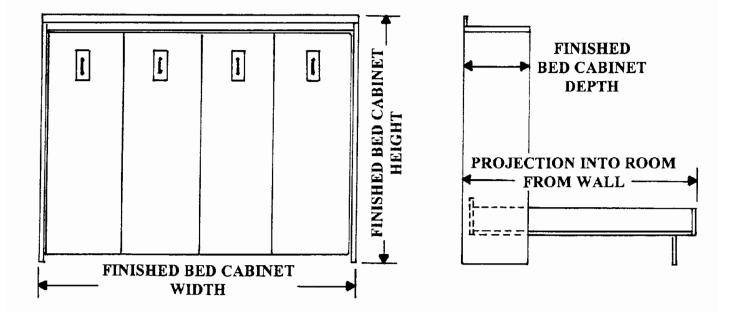
One (1) HORIZONTAL bed Construction, Assembly and Installation VIDEO.

© Create-A-Bed®

2003

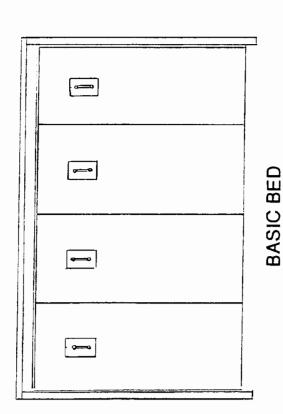
U.S. Patent #5,033,134

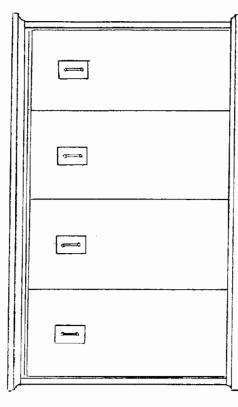
Out-to-out dimensions of HORIZONTAL STYLE murphy bed cabinet constructed using the *Create-A-Bed*[®] mechanism



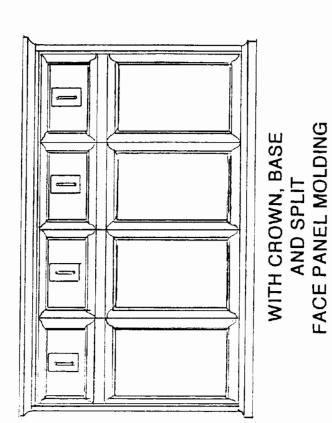
OUTSIDE-EDGE to OUTSIDE-EDGE FINISHED HORIZONTAL BED CABINET DIMENSIONS					
SIZE	HEIGHT	WIDTH	DEPTH	PROJECTION	
Twin	47 3/8"	79"	15 7/8"	43"	
Full	62 5/16"	7 9 "	15 7/8"	58"	
Queen	68 5/16"	84"	15 7/8"	64"	

Some design options... or create your own!

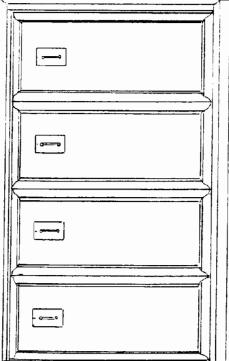


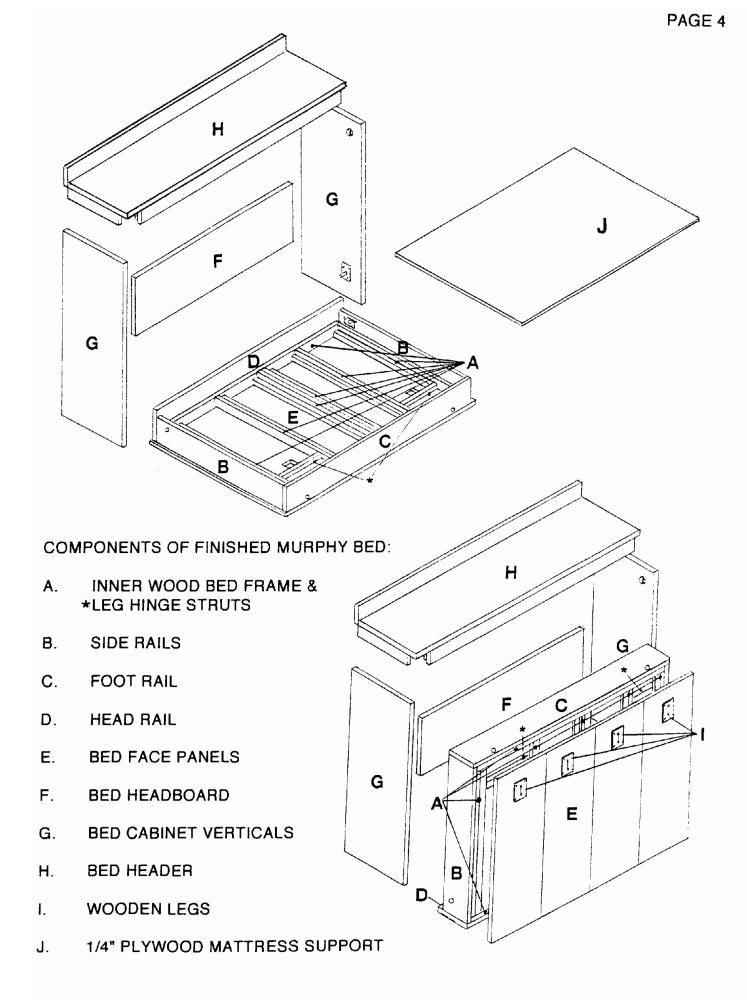






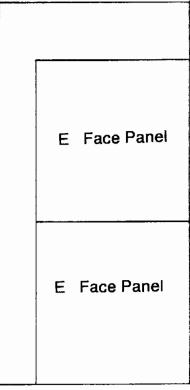




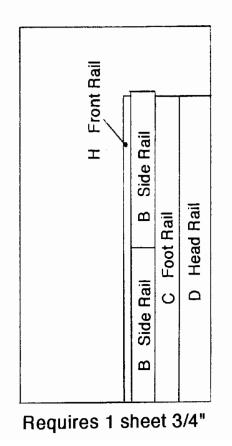


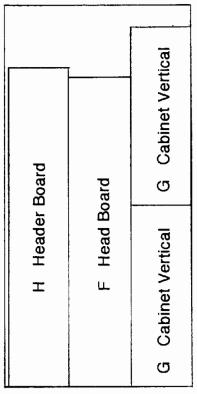
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TWIN SIDEBED (HORIZONTAL) PLYWOOD CUTTING GUIDE Requires 3 sheets of 3/4" x 4' x 8' and 1 sheet of 1/4" x 4' x 8' NOTE: Refer to page 6 for the cutting dimensions.

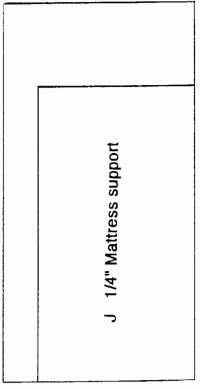


Requires 1 sheet 3/4"





Requires 1 sheet 3/4"



Requires 1 sheet 1/4"

TWIN SIZE HORIZONTAL (side) BED CONSTRUCTED WITH 3/4" PLYWOOD BILL OF MATERIALS / CUT SHEET

check off as completed A. INNER WOOD BED FRAME:	*To be constructed of solid wood:						
FRAME STRUTS: *Solid wood: FRAME SIDES: *Solid wood: LEG HINGE STRUTS: *Solid wood:	3/4" X 1-1/2" X 75"	12 pieces 2 pieces 4 pieces					
IMPORTANT: PLYWOOD MATERIAL MUST BE USED ON THESE PIECES:							
B. SIDE RAILS:	3/4" X 5-7/8" X 39"	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 40-3/4"	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 45-3/8"	2 pieces					
H. BED HEADER: HEADERBOARD: FRONT RAIL: FRONT RAIL SUPPORT: *Soild wood: REAR RAIL: *Solid wood: MOUNTING CLEATS: * Solid wood:	3/4" X 2" X 78-7/8" 3/4" X 1" X 12"	1 piece 1 piece 2 pieces 1 piece 2 pieces					
I. BED LEGS: *Solid wood:	3/4" X 3" X 7"	4 pieces					
J. 1/4" PLYWOOD mattress support:	1/4" X 39" X 75"	1 piece					
K. VENEER or MELAMINE TAPE:	13/16" X 75 feet						
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:	#81 1/4" coarse threadBox of 100#81 1/2" coarse thread30#82" coarse thread40						

___P. INNERSPRING MATTRESS weighing 30 pounds or more

NOTE: Make sure your mattress dimensions DO NOT exceed 39" x 75." Mattress thickness not to exceed 12"

FRAME SIDES FRAME STRUTS STEP 1: Construction of Six (6) frame struts and Two (2) leg hinge struts. Run a bead of wood glue along inside edge. Making sure ends are flush drill pilot holes Ends are flush. approximately 8" apart and nail with 1 1/2" finish Glue nails, or you can use #8 1 1/2" screws. SPACING FOR QUEEN-SIZE BED SPACING FOR FULL-SIZE BED SPACING FOR TWIN-SIZE BED 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

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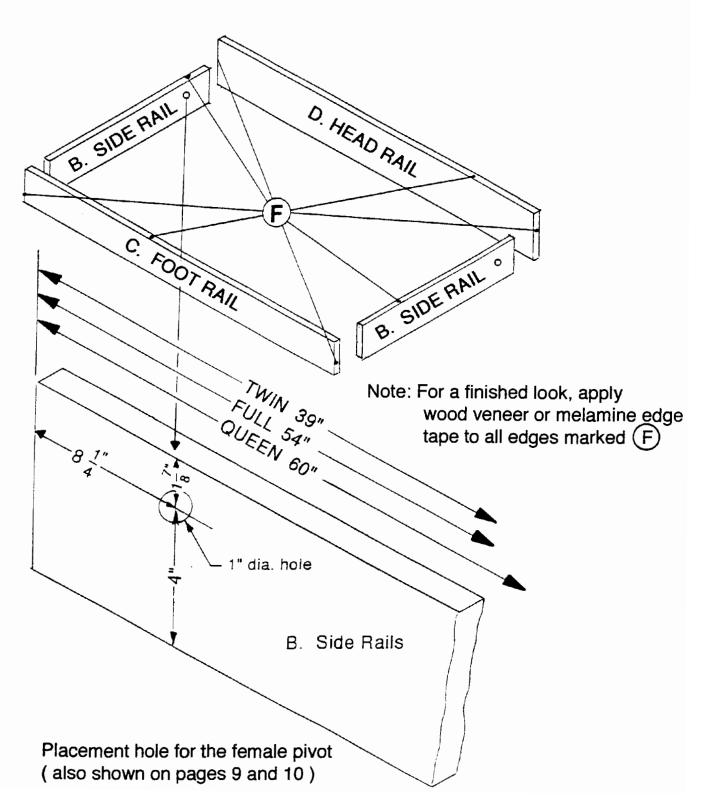
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A. INNER WOOD BED FRAME See Bill of Materials / Cut Sheet (PART A) for twin, full or gue

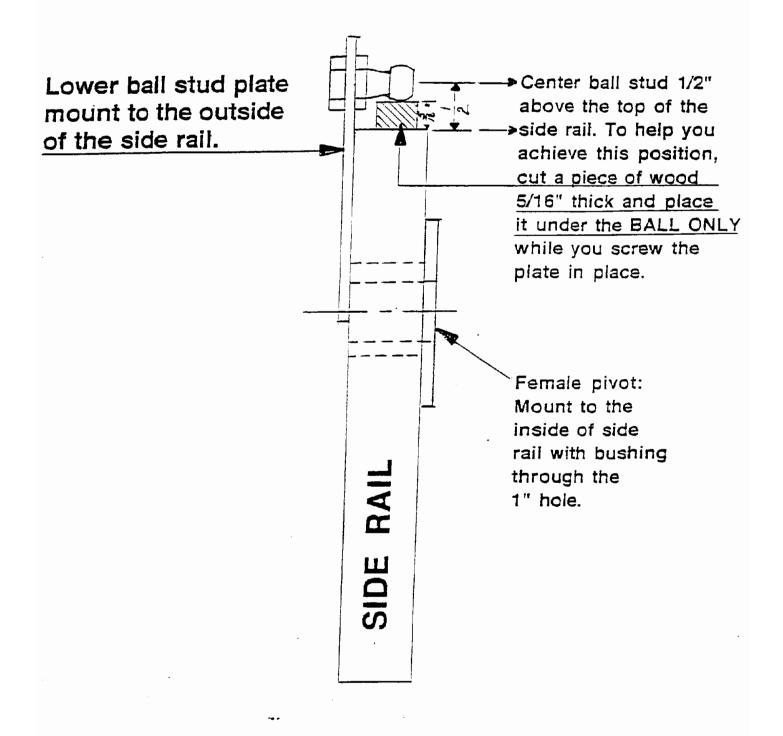
(PART A) for twin, full or queen size frame struts and frame sides dimensions.

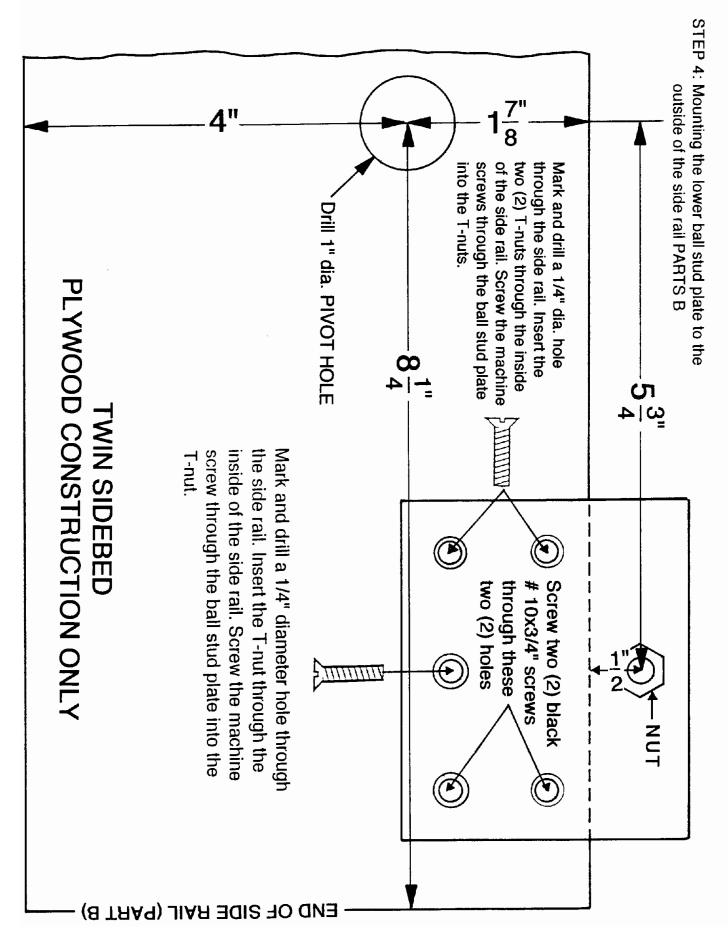
struts. Screw #8 x 2" wood screws flush.

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

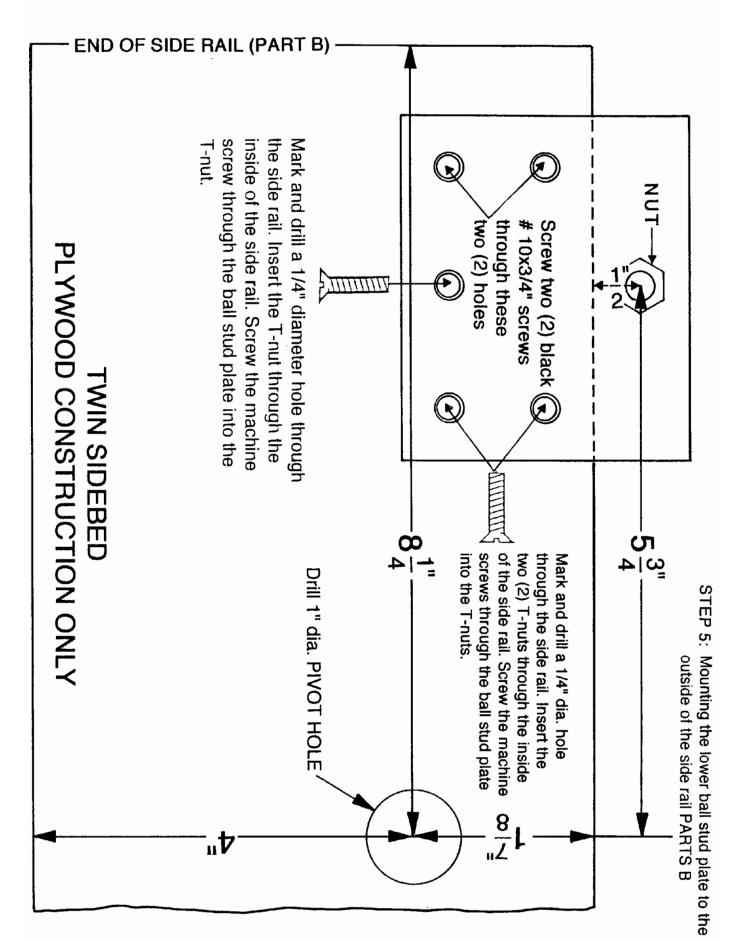


This page pertains to the orientation and mounting positions of the lower ball stud plate and female pivot - USE WITH PAGES 9, 10, & 11

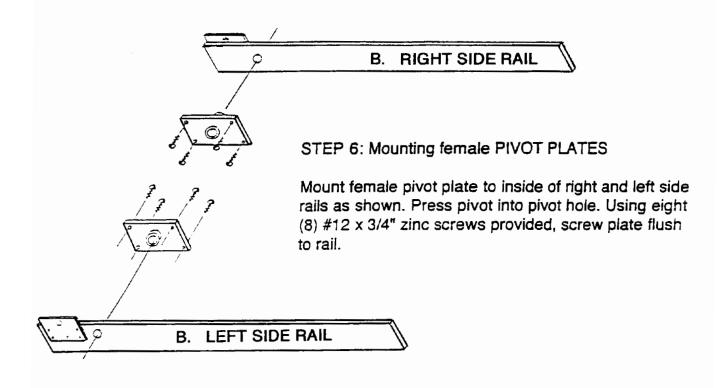


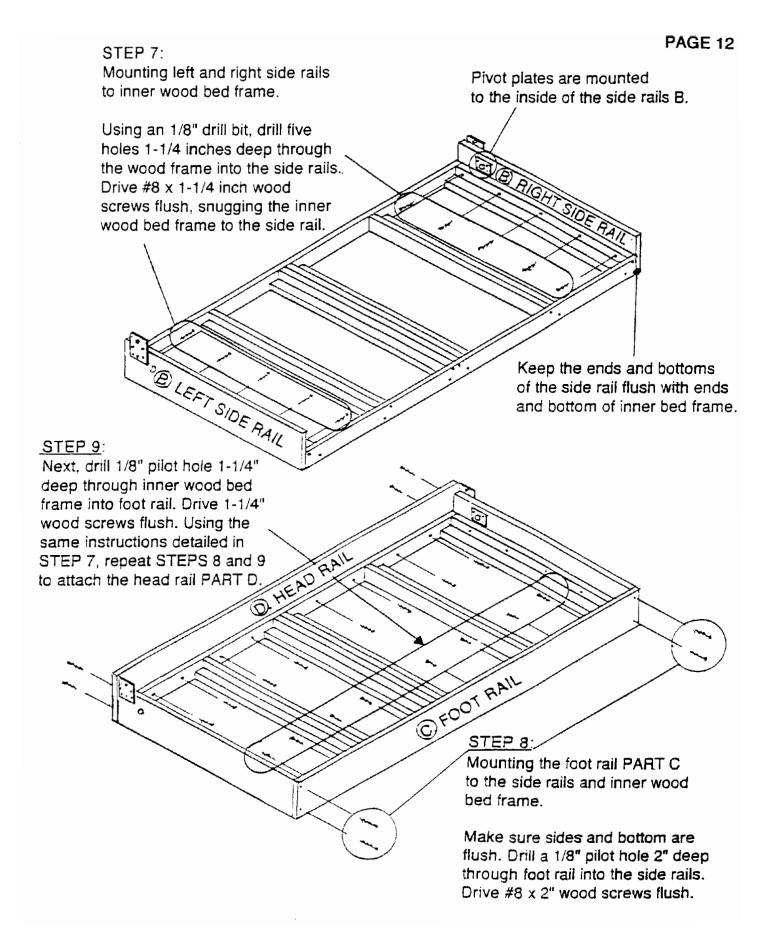


PAGE 9

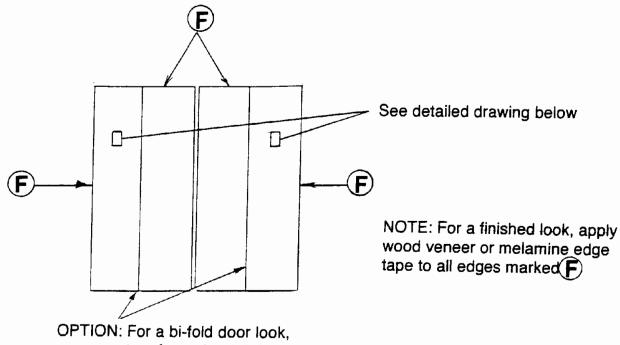


PAGE 10



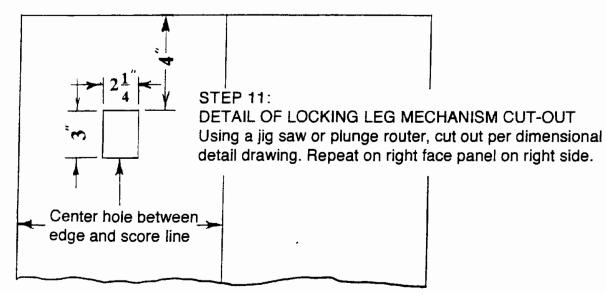


E. BED FACEL PANEL(S)

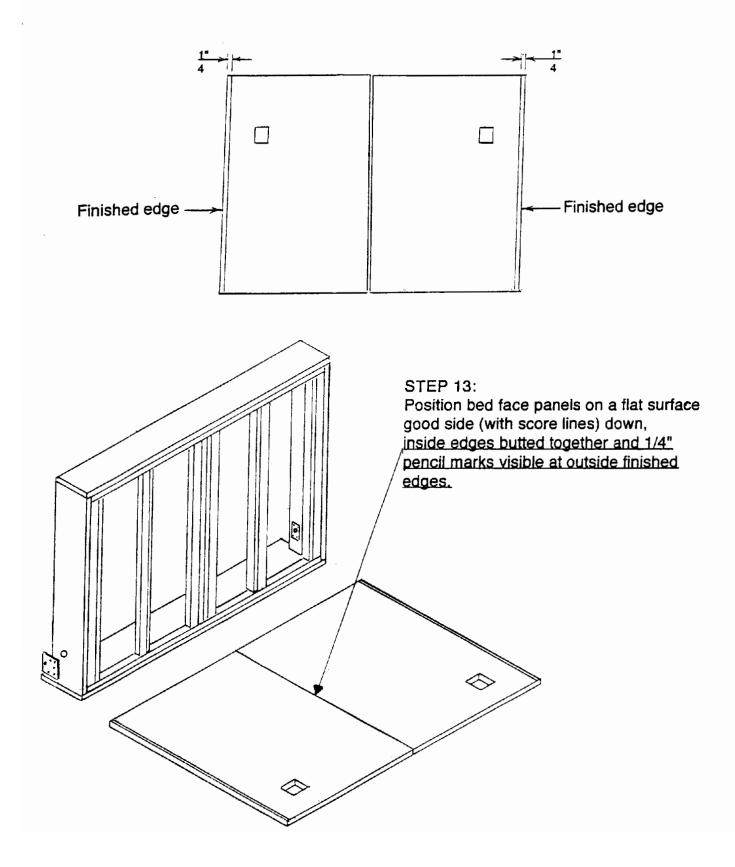


score center of panels 1/8" deep the full length of the panels.

LEFT BED FACE PANEL



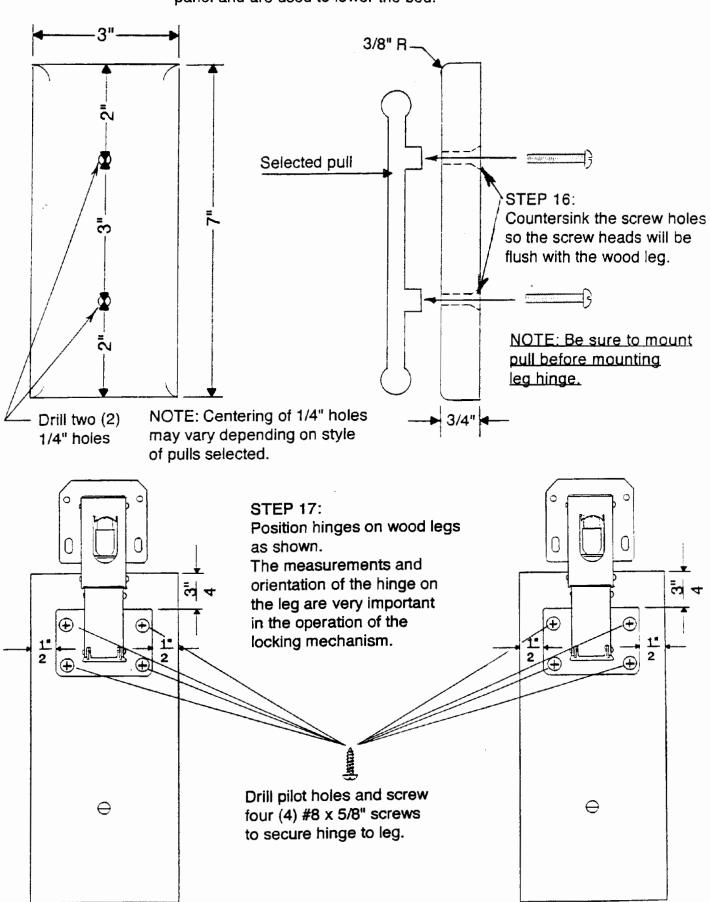
STEP 12: Turn face panels over. On back side, mark a 1/4" line the full length of each panel along finished long edge.

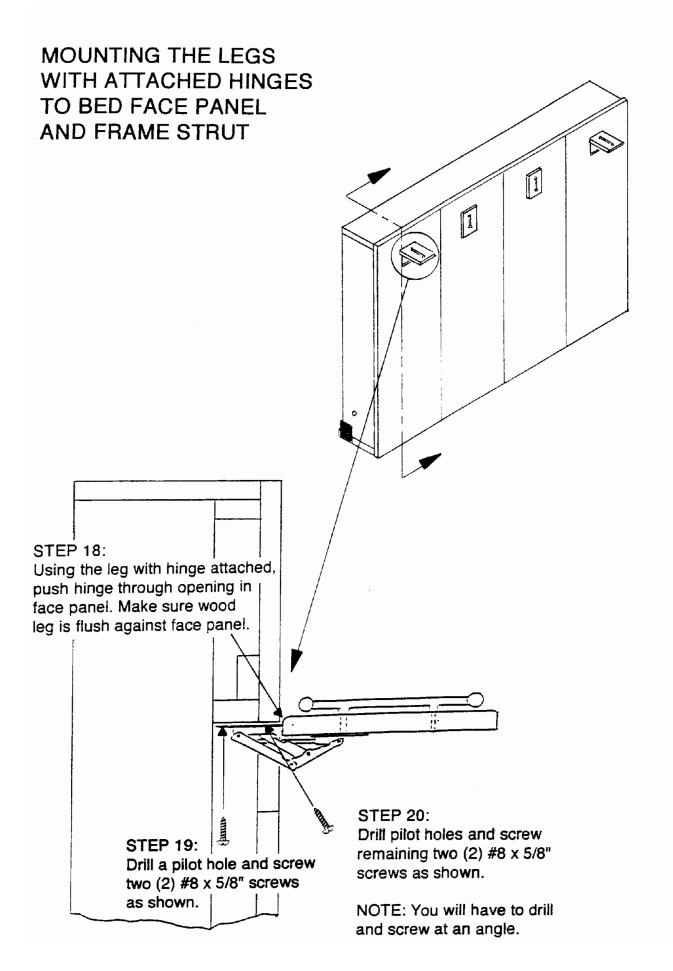


STEP 14: Apply construction adhesive to inner wood bed frame. Lay bed face panels with good side DOWN, and place assembled bed frame on top of bed face panels. Ø Face panel may extend approx. 1/4" at this end. The face panel MUST extend 1/4" past edge of frame on long sides. Face panels and foot rail MUST be flush at this end. **STEP 15:** Make sure face panel and foot rail are flush and that face panel extends 1/4" past edge of wood bed frame on long side. Working SIDE A first: IDE B Using #8 x 1-1/4" screws, screw section SIDE A marked "X" first. Keeping end flush, screw section marked "Y". Making sure there is a 1/4" face panel overhang, screw section marked "Z". Apply construction adhesive and nail or screw Repeat for SIDE B. the two (2) leg hinge struts to the inside of the face panel. Screw remaining struts to face panel 6 inches apart NOTE: Make sure these struts are flush with the top of the leg hole.

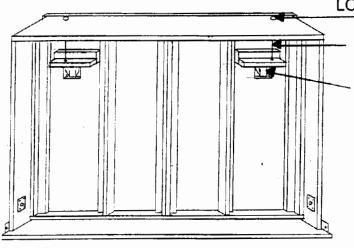


NOTE: Make four (4) wood legs, 3/4" x 3" x 7". <u>ONLY</u> two (2) legs will use the leg hinges. The other two (2) legs are fixed to the face panel and are used to lower the bed.





INSTALLING THE LOCKING LATCHES



LOCKING LATCH

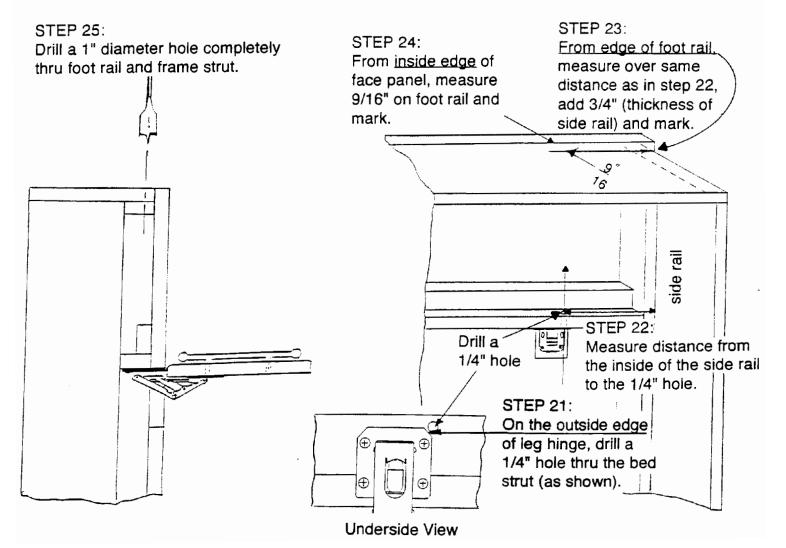
 with CORD connected to
 LEG HINGE

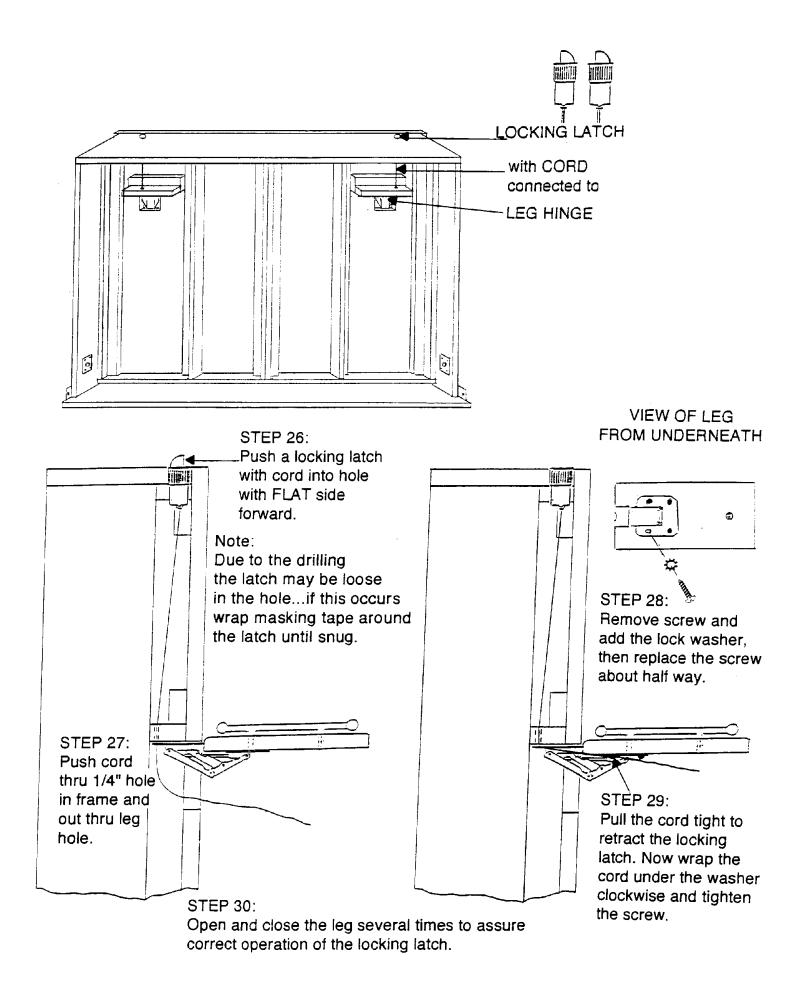


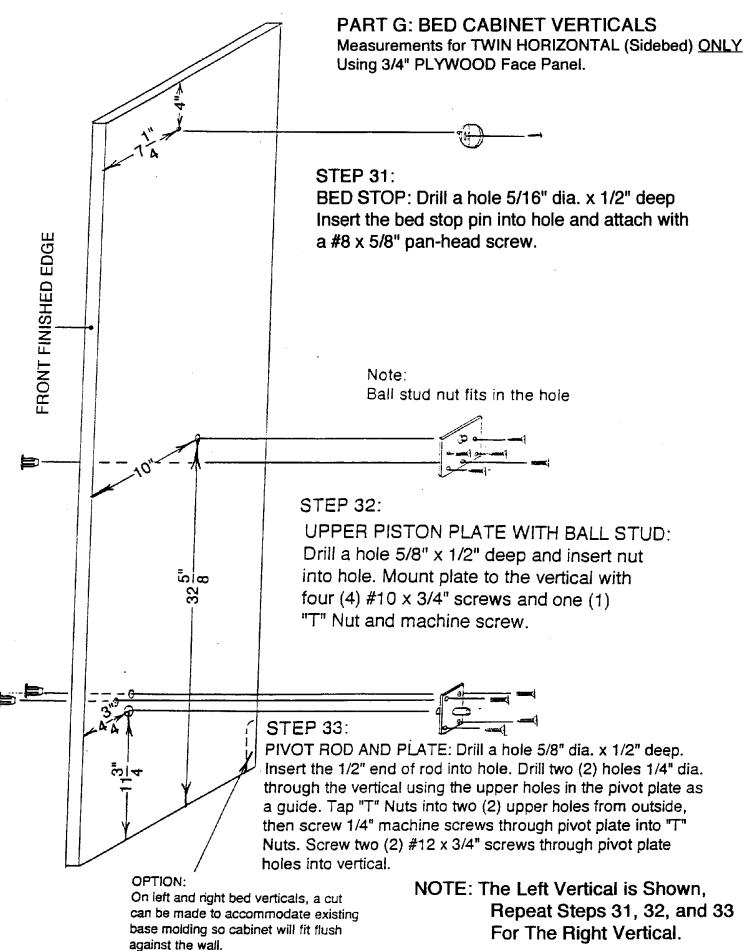
DESCRIPTION:

The locking leg latch is located at the top of the bed in the foot board. The latch is connected to the leg hinge with a length of cord. The latch locks the bed in its closed position - when the legs are opened, the cord retracts the latch and the bed can then be lowered for use.

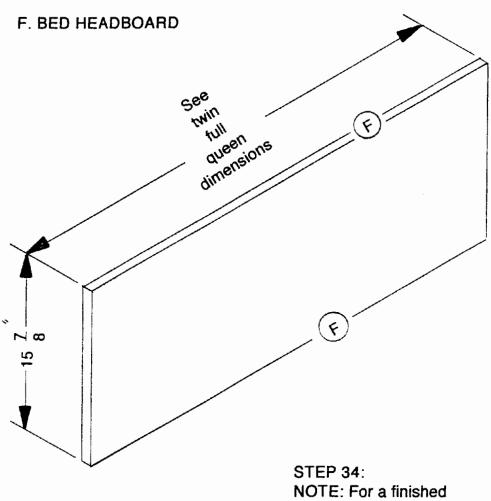
NOTE: BE SURE TO PERFORM STEPS 21 THRU 30 IN ORDER...



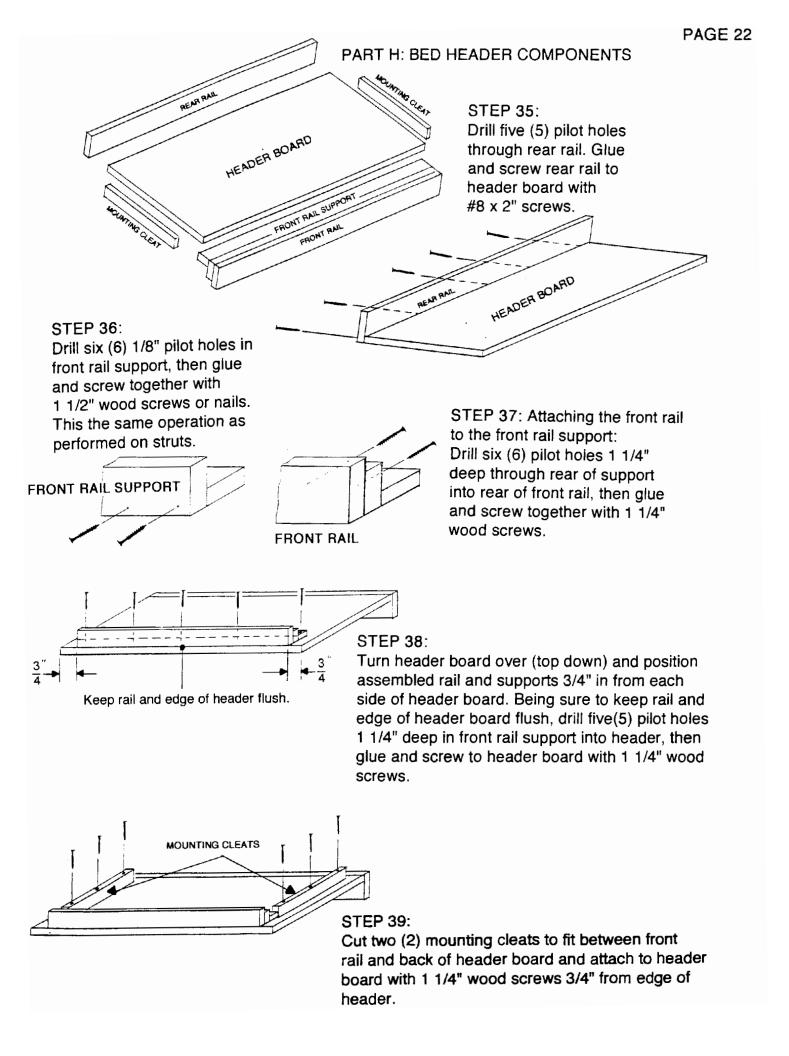


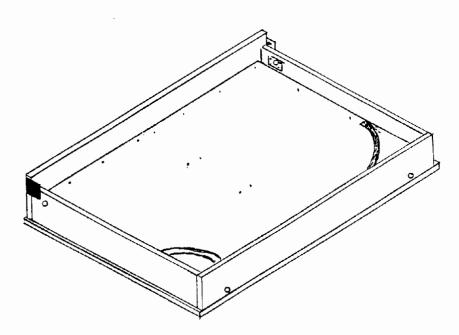


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NOTE: For a finished look, apply wood veneer or melamine edge tape to all edges marked (F).



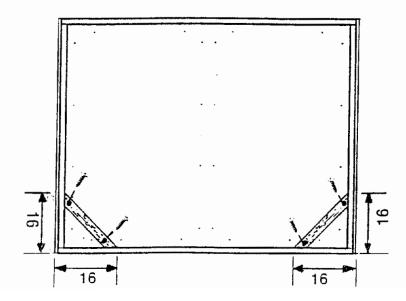


STEP 40:

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.



PAGE 1

ASSEMBLY INSTRUCTIONS FOR THE HORIZONTAL (Sidebed)

Create-A-Bed[®]

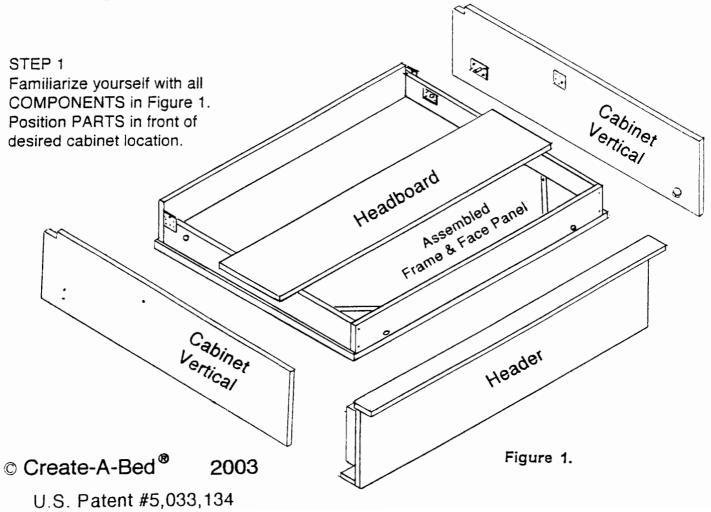
MURPHY BED

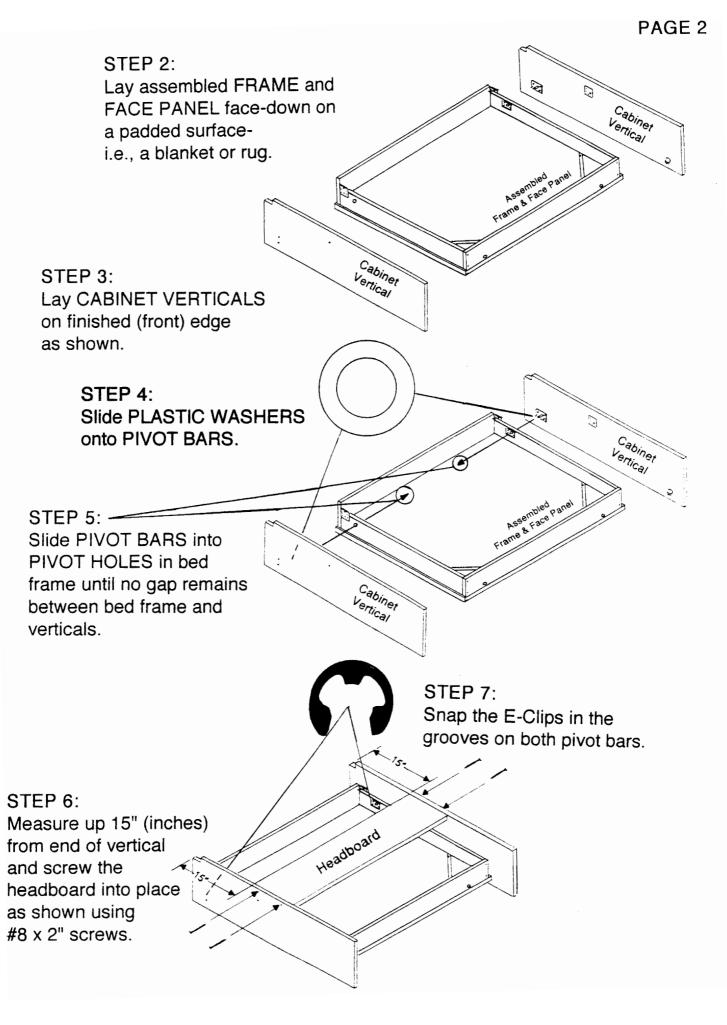
WARNING!

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 <u>WATCH VIDEO</u> 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.

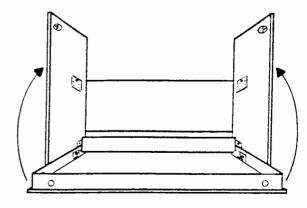


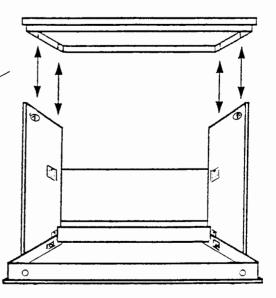


STEP 8:

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.

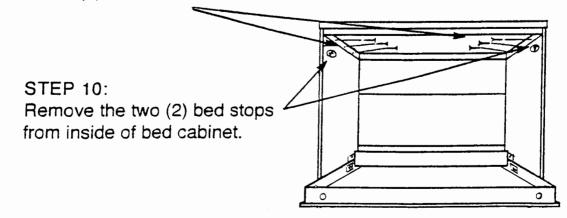


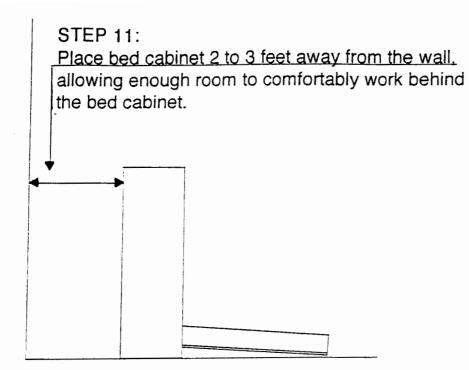


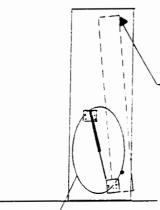
STEP 9:

Place the bed header on top of the bed verticals, making sure that the rear rail is at the rear of the bed.

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





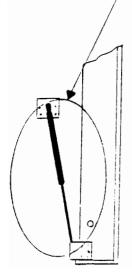


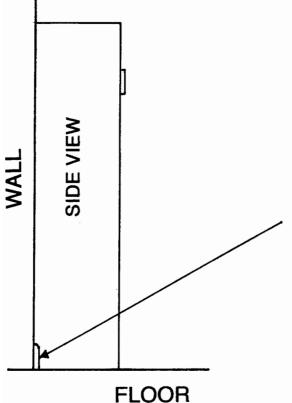
STEP 12:

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")



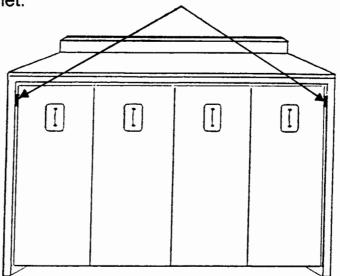


STEP 13:

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.

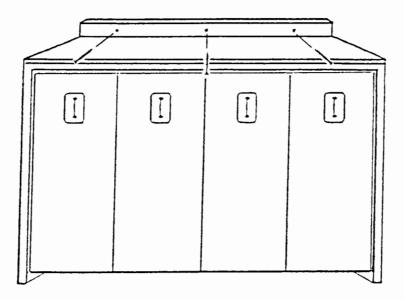
STEP 14:

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 <u>VERY</u>, <u>VERY</u> <u>IMPORTANT</u>!!! YOUR BED <u>MUST</u> 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.

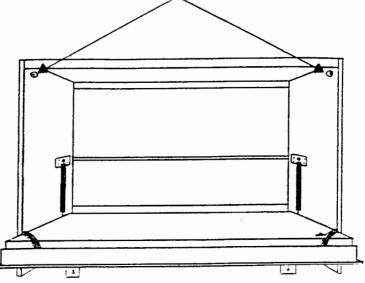
Drill three (3) pilot holes through the back rail of the Bed Header into the wall for a twin or full size bed and four (4) for a queen size bed. Using a 9/16" drill bit, drill holes at the pilot holes through the metal studs. Be sure you drill through the studs. Insert the toggle bolt screws through 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.

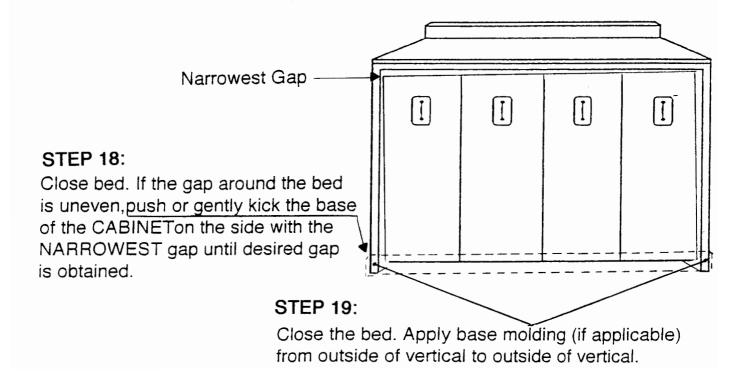
STEP 16:

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.

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. STEP 17: Replace the bed stops and screws.



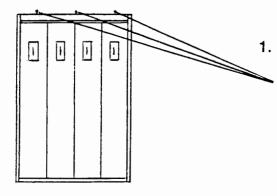


PROBLEM SOLVING

- 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.

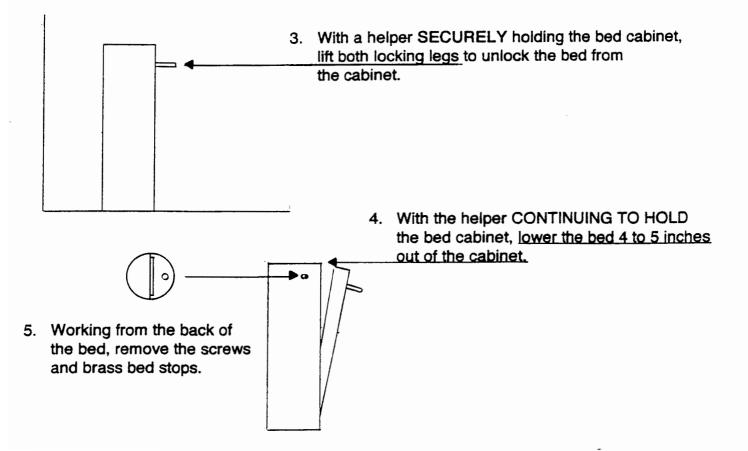
REPLACING THE COUNTER BALANCE PISTON PAGE 10

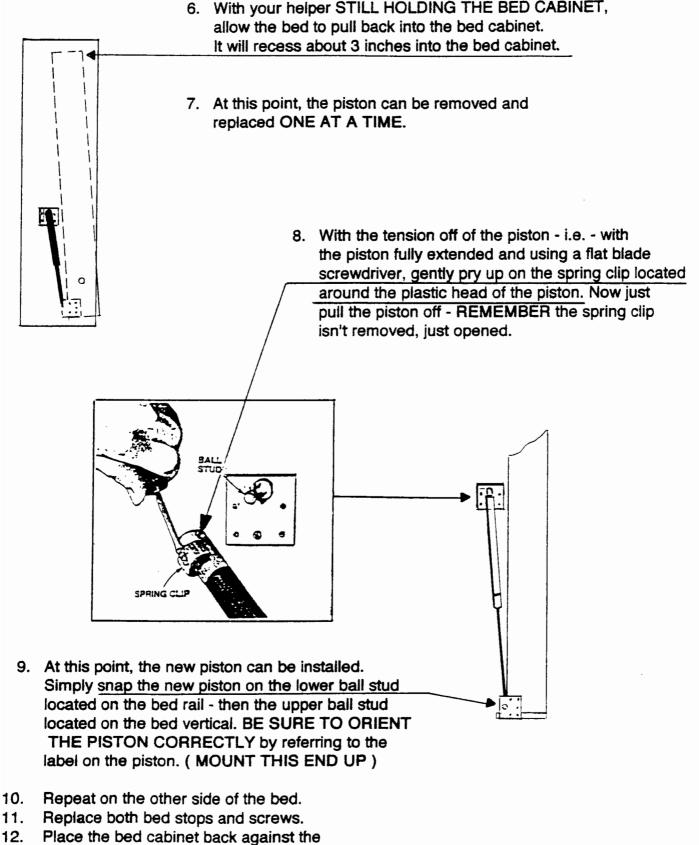
DO NOT ATTEMPT To Compress the piston by any other means than the one described in the steps below.



 With the bed in the upright, closed position with both legs closed and locked, remove the anchor screws from the top of the bed cabinet. <u>Do not</u> remove the anchor screws with the bed in the open position.

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





wall and replace the screws, MAKING SURE THE BED IS SECURELY FASTENED TO THE WALL.