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

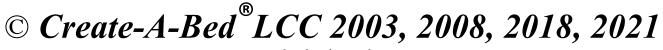
QUEEN HORIZONTAL BED using PLYWOOD material

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:

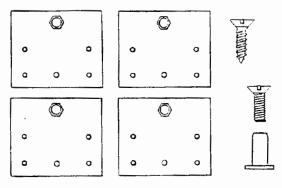
Power Drill Drill Bits: 1/8", 1/4", 5/16" 1" Forstner Bit, 5/8" Forstner Bit Power Saw, Table Saw or Circular Saw Jigsaw or Coping Saw Phillips-Head and Flat-Head Screwdrivers or Driver Bits for Drill Tape Measure #4 Allen Wrench Hammer Clamps Straight Edge or Framing Square Household Iron for Veneer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



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



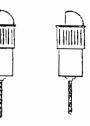
C.A.B., Inc. QUEEN HORIZONTAL (SIDEBED) murphy bed mechanism PLYWOOD construction



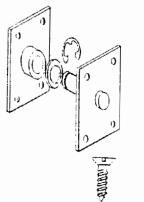
Four (4) BALL STUD PLATES with twelve (12) black #10 x 3/4" screws and eight (8) "T" nuts with machine screws



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

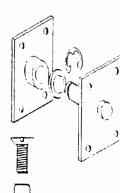
with two (2) WASHERS

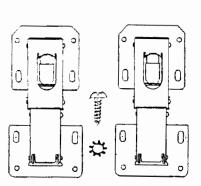
twelve (12) #12 x 3/4" zinc

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

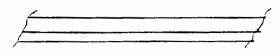
SCREWS

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



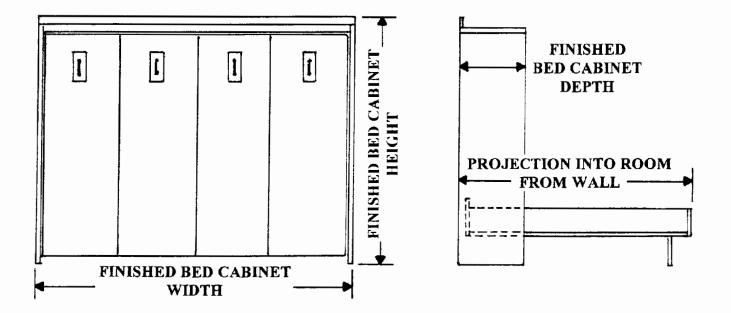
Two (2) ELASTIC MATTRESS RETAINING STRAPS

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

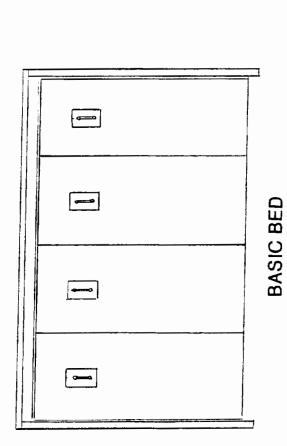
Out-to-out dimensions of HORIZONTAL STYLE murphy bed cabinet constructed using the *Create-A-Bed*[®] mechanism

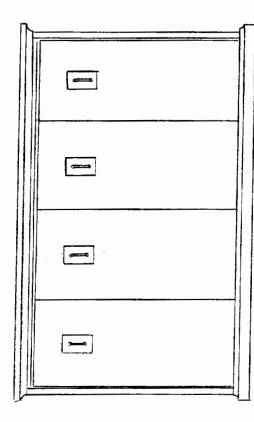


OUTSIDE-EDGE to OUTSIDE-EDGE FINISHED HORIZONTAL BED CABINET DIMENSIONS						
SIZE	HEIGHT	WIDTH	DEPTH	PROJECTION		
Twin	47 3/8"	79"	15 7/8"	43"		
Full	62 5/16"	79"	15 7/8"	58"		
Queen	68 5/16 "	84"	15 7/8"	64"		

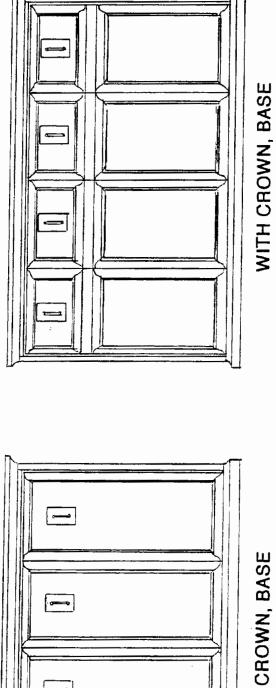
4

Some design options... or create your own!



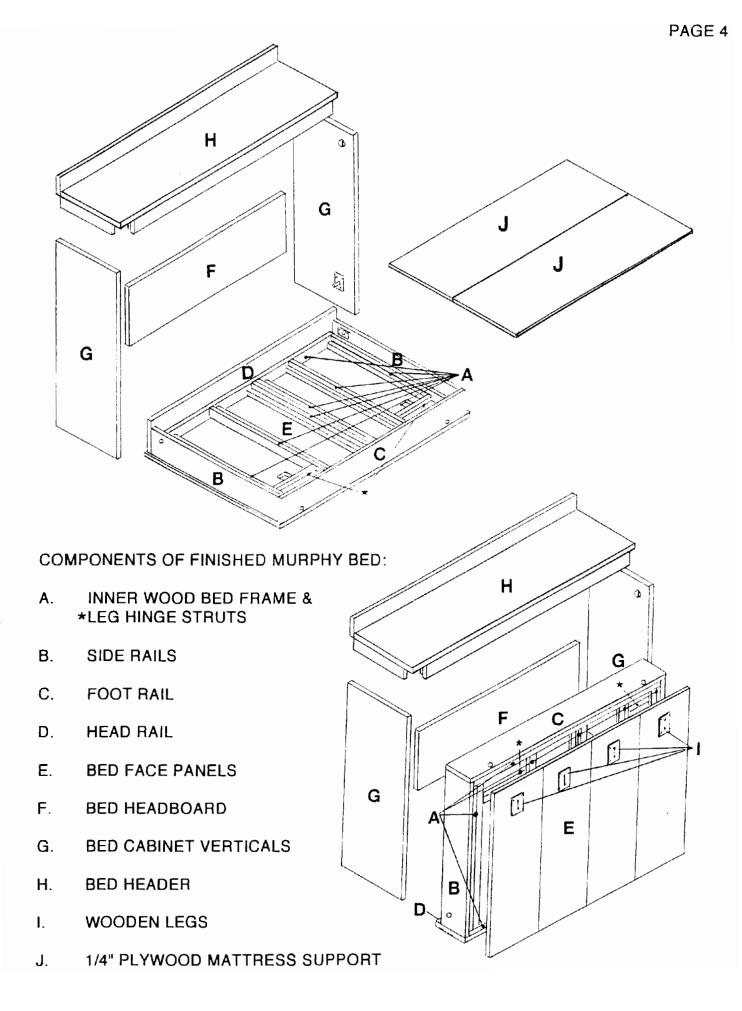




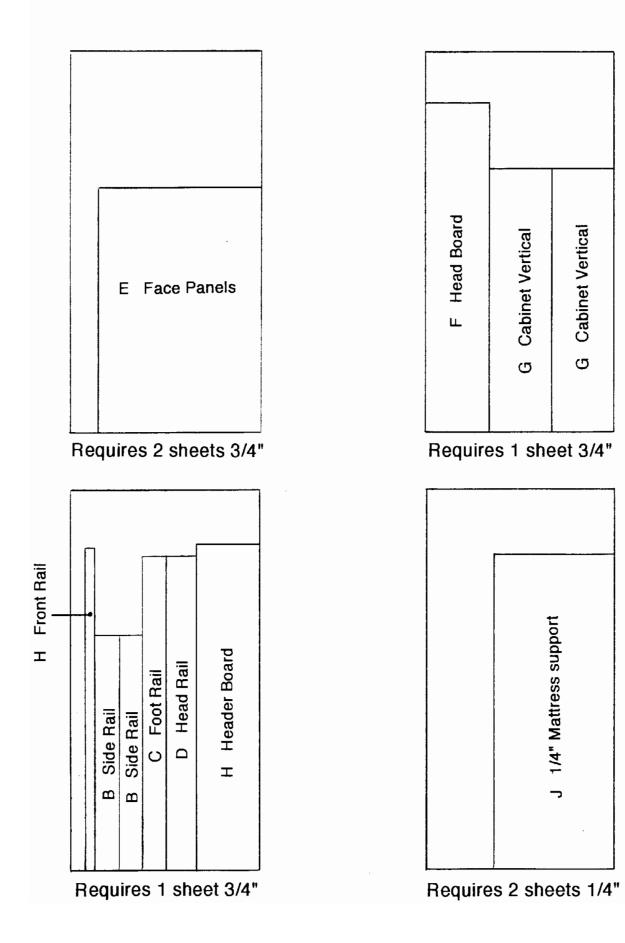


WITH CROWN, BASE AND FULL-LENGTH FACE PANEL MOLDING

AND SPLIT FACE PANEL MOLDING



QUEEN 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.



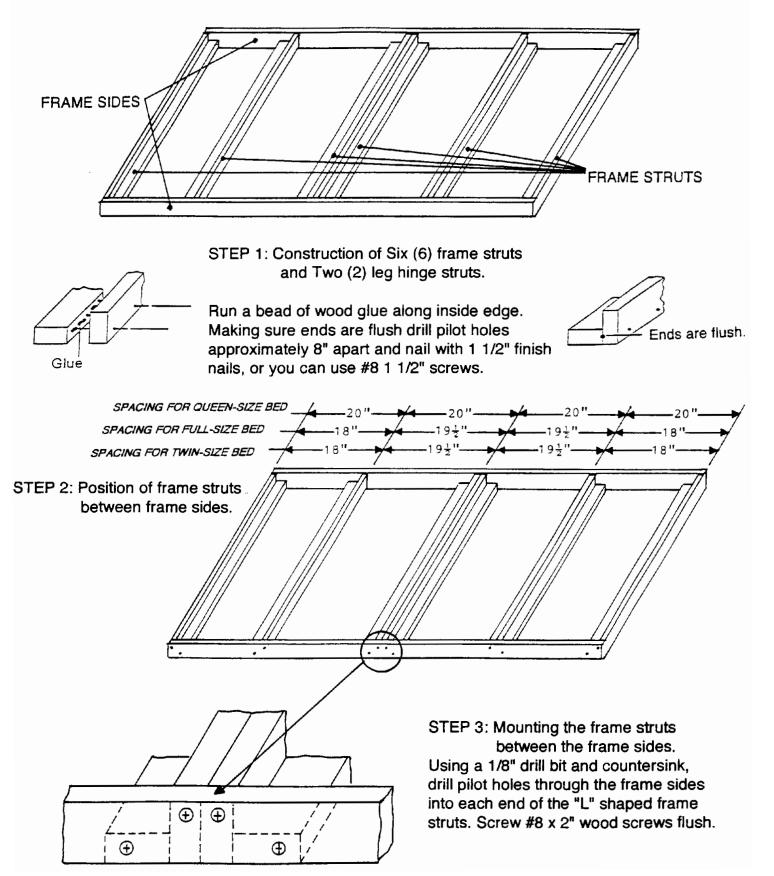
PAGE 5

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

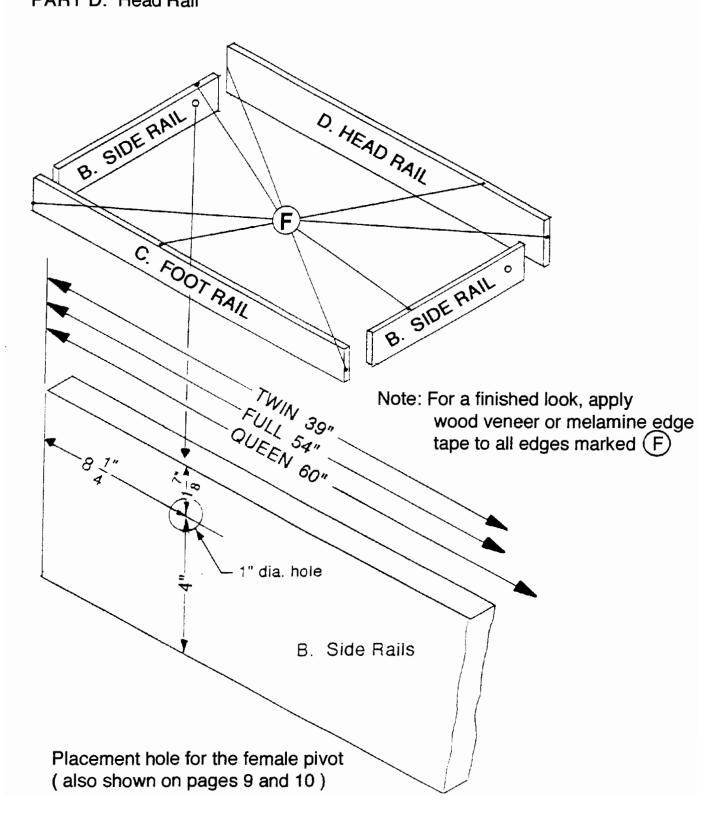
check off as completed A. INNER WOOD BED FRAME:						
	poplar, clear pine, maple, etc.					
FRAME STRUTS: *Solid wood:		12 pieces				
FRAME SIDES: *Solid wood:		2 pieces				
LEG HINGE STRUTS: *Solid wood:	3/4" X 1-1/2" X 15"	4 pieces				
IMPORTANT: PLYWOOD MATERIAL MUST BE USED ON THESE PIECES:						
B. SIDE RAILS:	3/4" X 5-7/8" X 60"	2 pieces				
C. FOOT RAIL: D. HEAD RAIL:	3/4" X 5-7/8" X 81-1/2"	1 piece				
D. HEAD RAIL:	3/4" X 7-7/8" X 81-1/2"	1 piece				
E. BED FACE PANEL:	3/4" X 41" X 61-3/4"	2 pieces				
F. BED HEADBOARD:	3/4" X 15-7/8" X 82-3/8"	1 piece				
G. BED CABINET VERTICALS:	3/4" X 15 7/8" X 66 7/16"	2 pieces				
H. BED HEADER:						
HEADERBOARD:	3/4" X 15-1/8" X 83-7/8"	1 piece				
FRONT RAIL:	3/4" X 2" X 82-3/8"	1 piece				
FRONT RAIL SUPPORT: *Soild wood:		2 pieces				
	3/4" X 2" X 83-7/8"	1 piece				
MOUNTING CLEATS: *Solid wood:		2 pieces				
I. BED LEGS: *Solid wood:	3/4" X 3" X 7"	4 pieces				
J. 1/4" PLYWOOD mattress support:	1/4" X 30" X 80"	2 pieces				
K. VENEER or MELAMINE TAPE:	13/16" X 80 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:	#8 1 1/4" coarse threadBox of 100#8 1 1/2" coarse thread30#8 2" coarse thread40					
P INNERSPRING MATTRESS weighing 65 pounds or more						

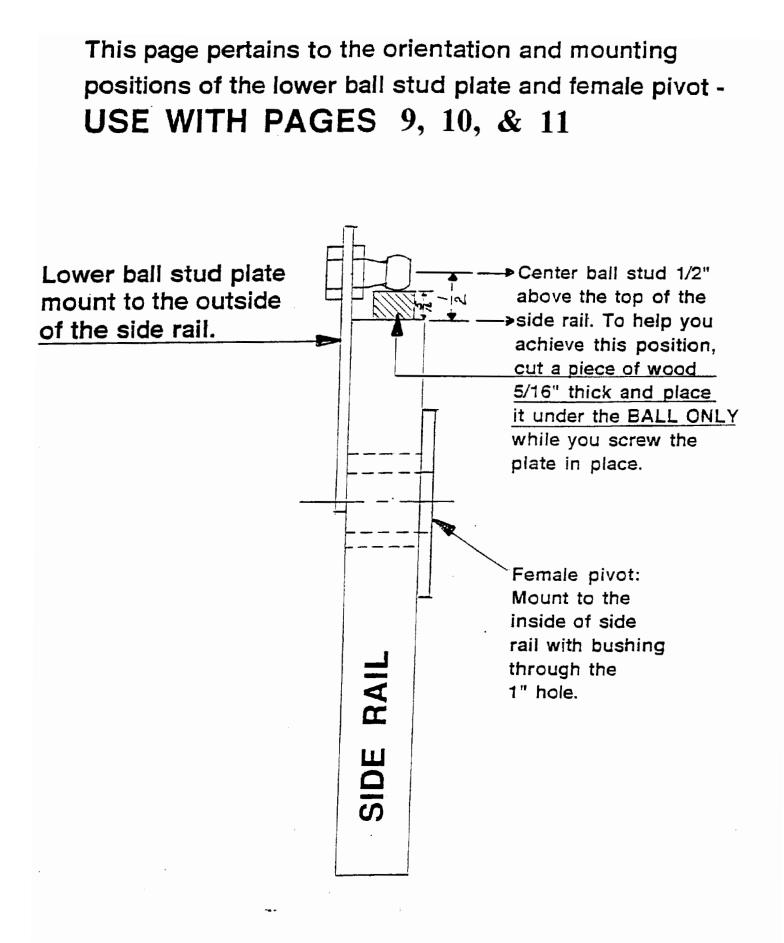
__P. INNERSPRING MATTRESS weighing 65 pounds or more NOTE: Make sure your mattress dimensions DO NOT exceed 60" x 80." Mattress thickness not to exceed 12" A. INNER WOOD BED FRAME

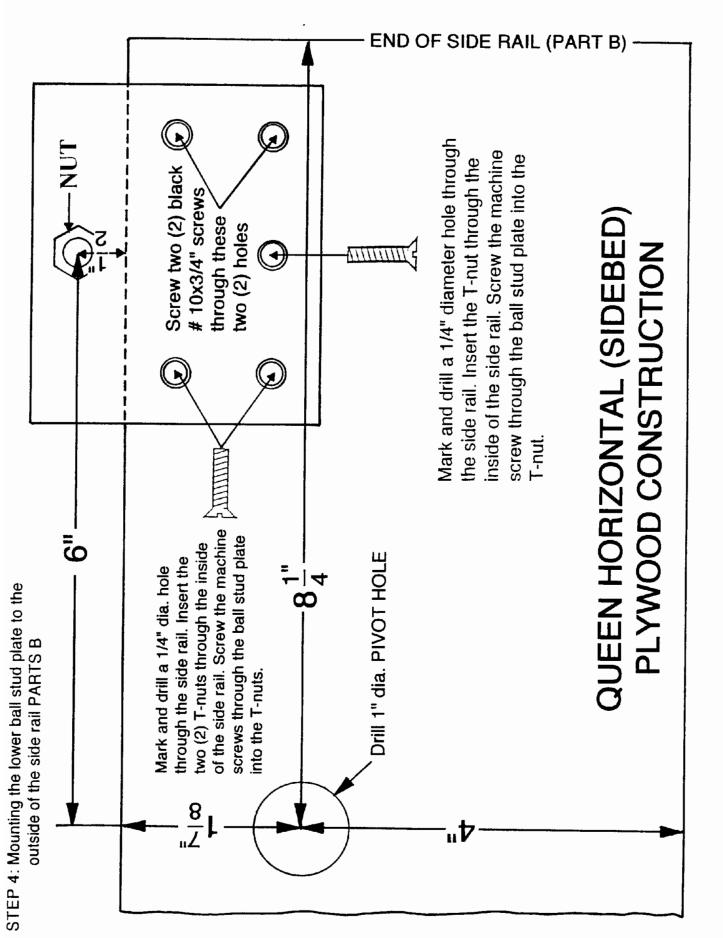
See Bill of Materials / Cut Sheet (PART A) for twin, full or queen size frame struts and frame sides dimensions.

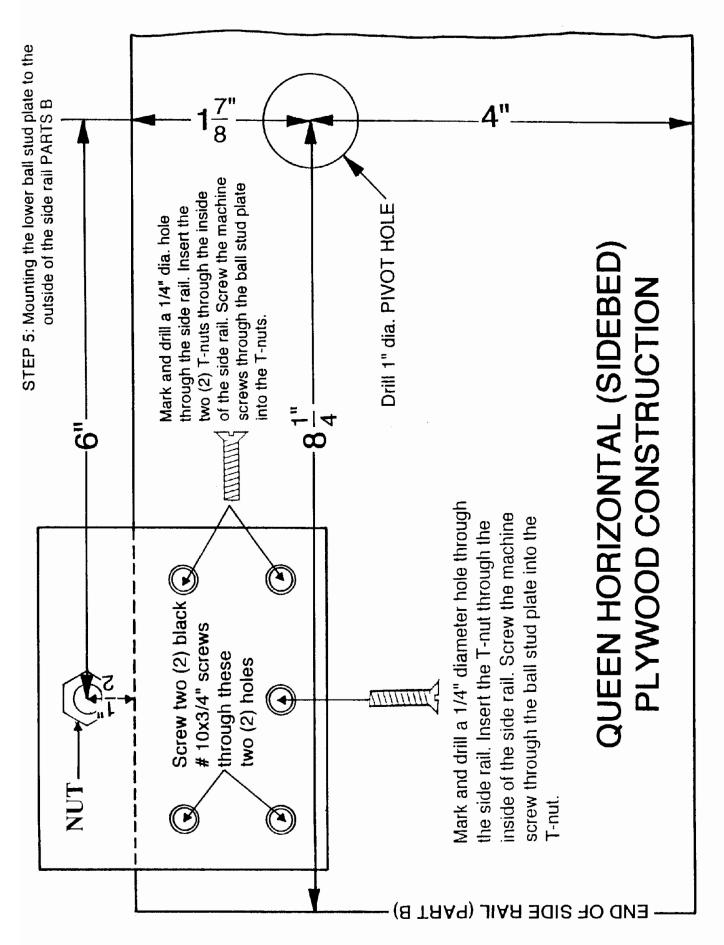


PART B. Side Rails: (must be made of plywood) Why?... This is where the stress takes place, Plywood is stronger than solid wood. PART C. Foot Rail PART D. Head Rail

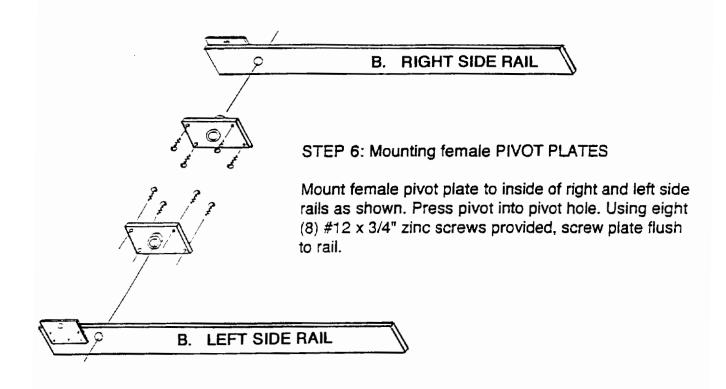


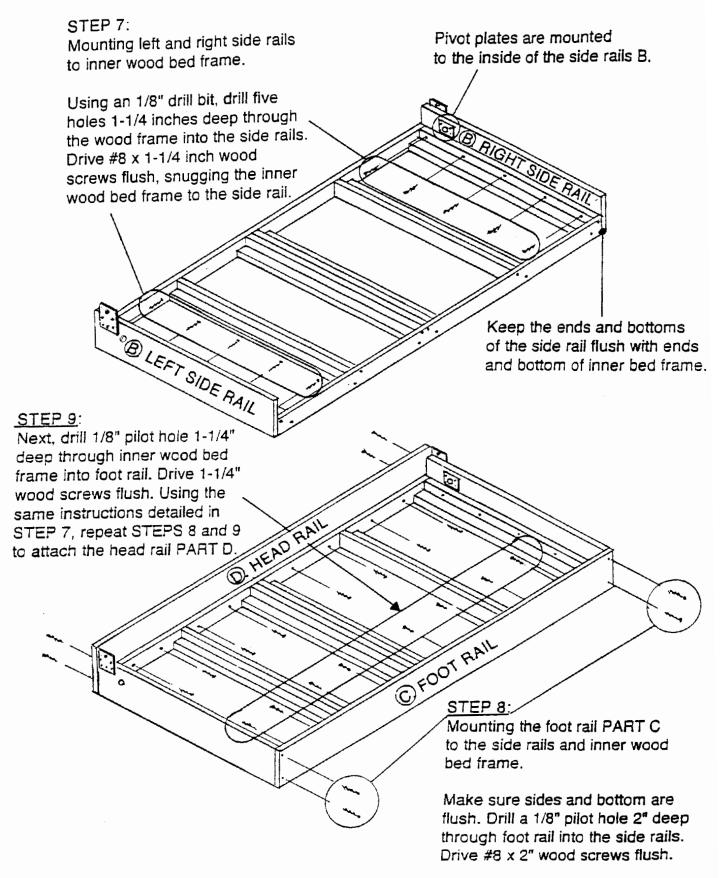




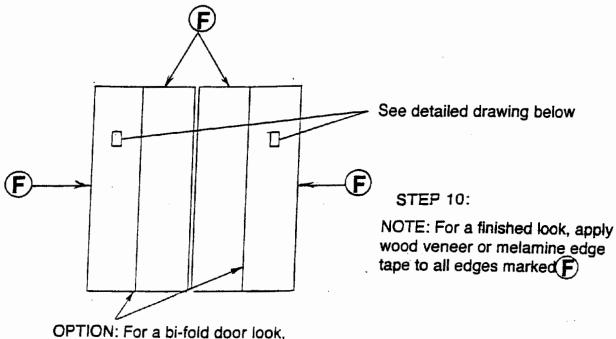


PAGE 10



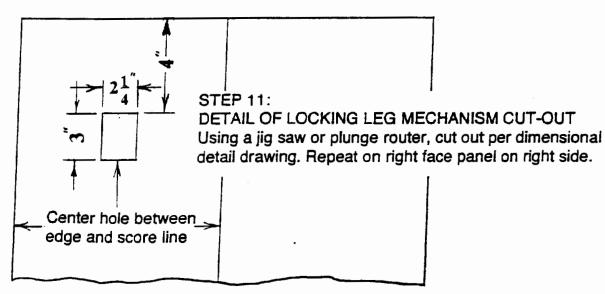


E. BED FACEL PANEL(S)



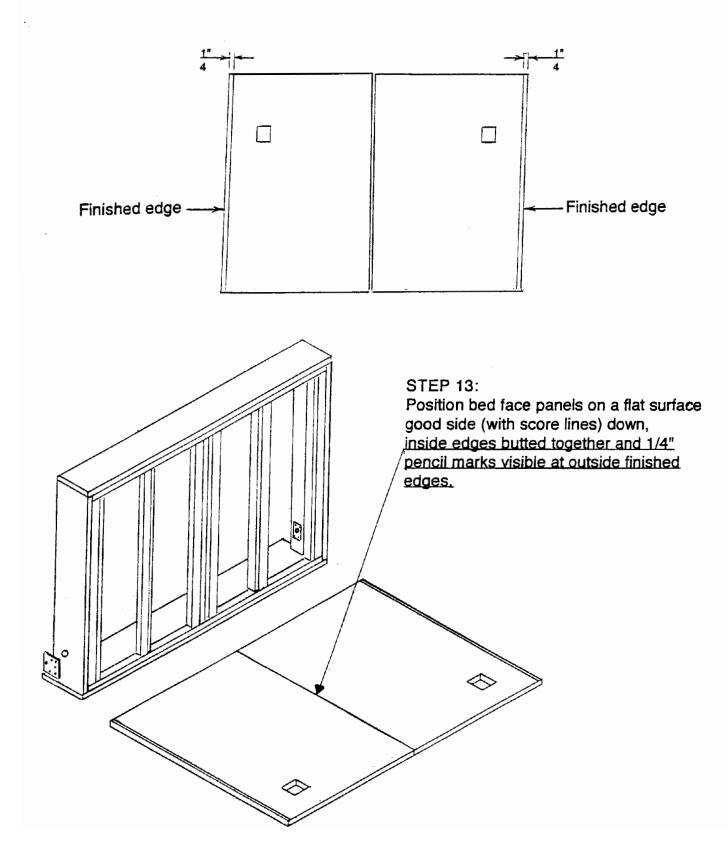
OPTION: For a bi-fold door look, score center of panels 1/8" deep the full length of the panels.

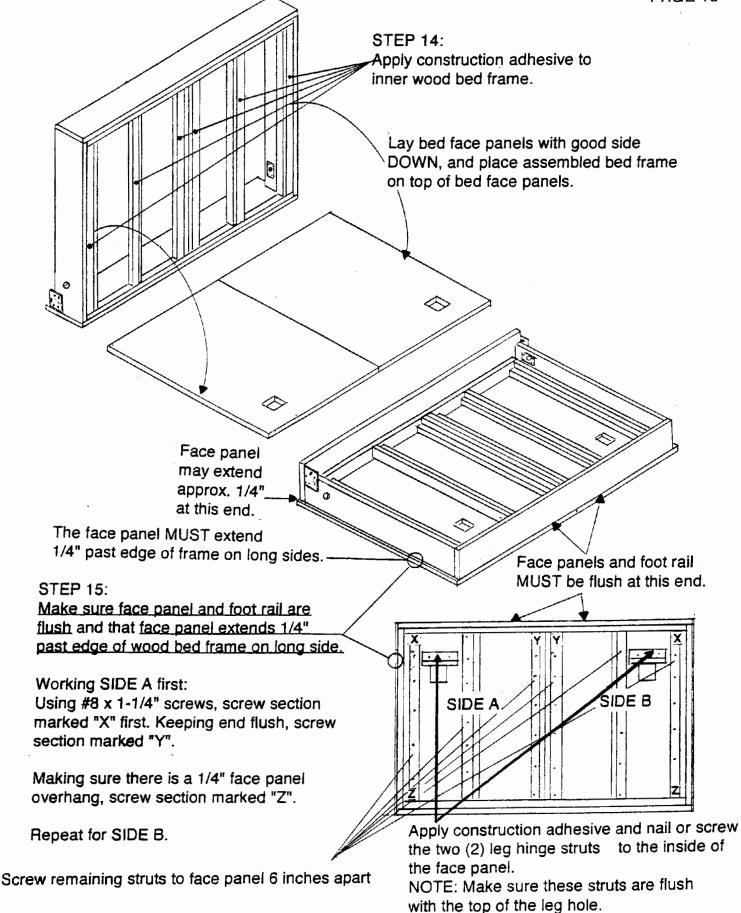
LEFT BED FACE PANEL

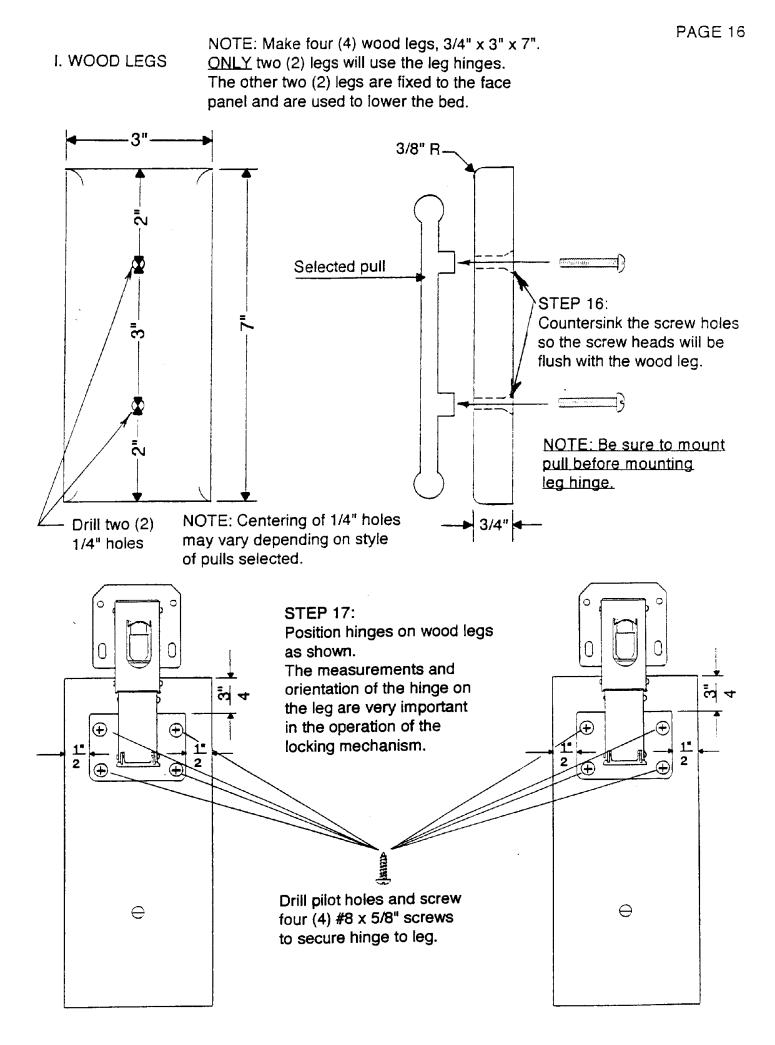


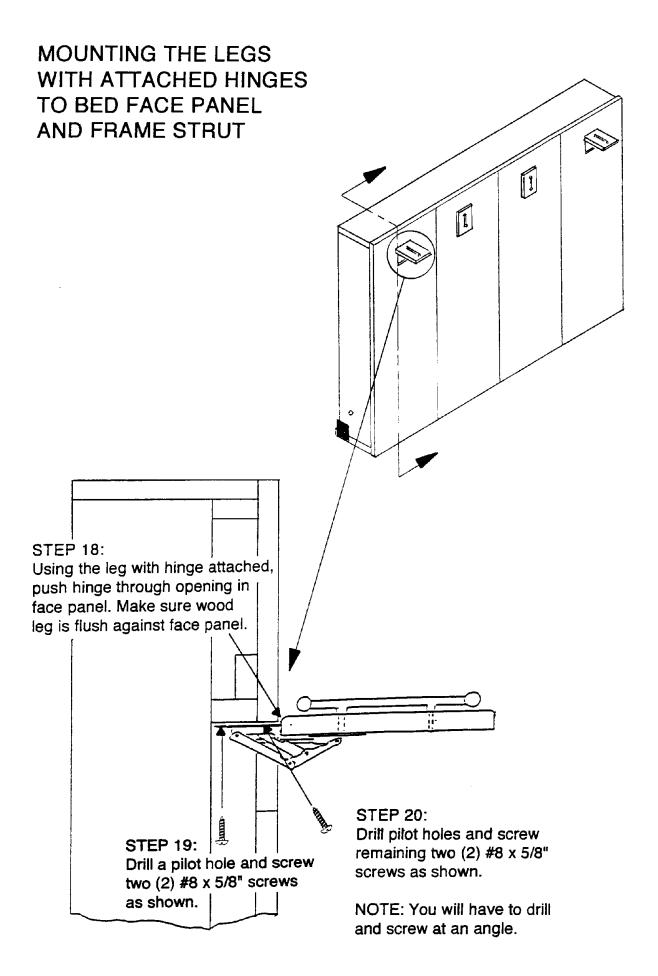
PAGE 13

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

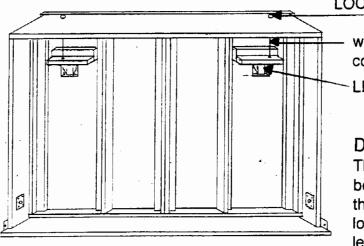








INSTALLING THE LOCKING LATCHES



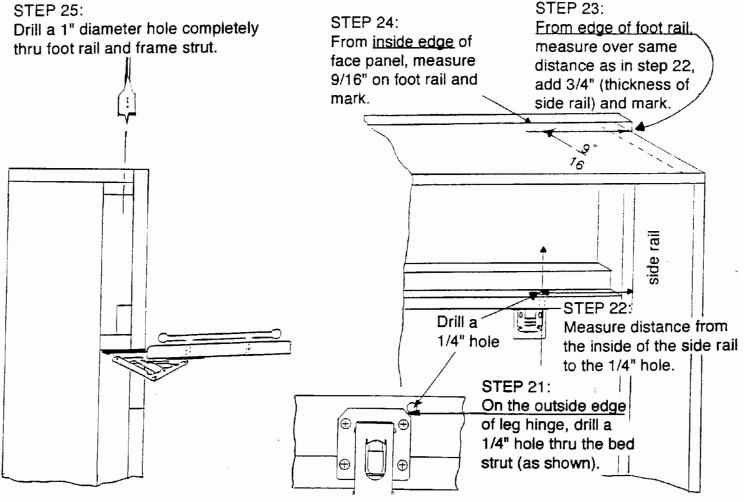


 with CORD connected to
 LEG HINGE

DESCRIPTION:

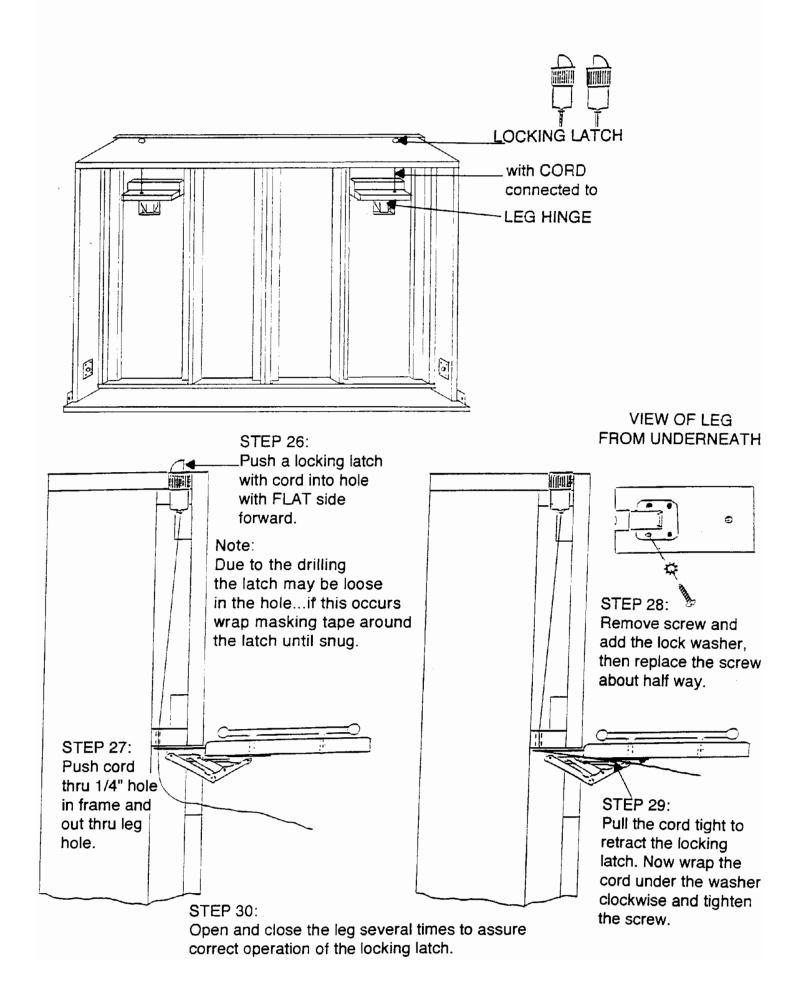
The locking leg latch is located at the top of the bed in the foot board. The latch is connected to the leg hinge with a length of cord. The latch locks the bed in its closed position - when the legs are opened, the cord retracts the latch and the bed can then be lowered for use.

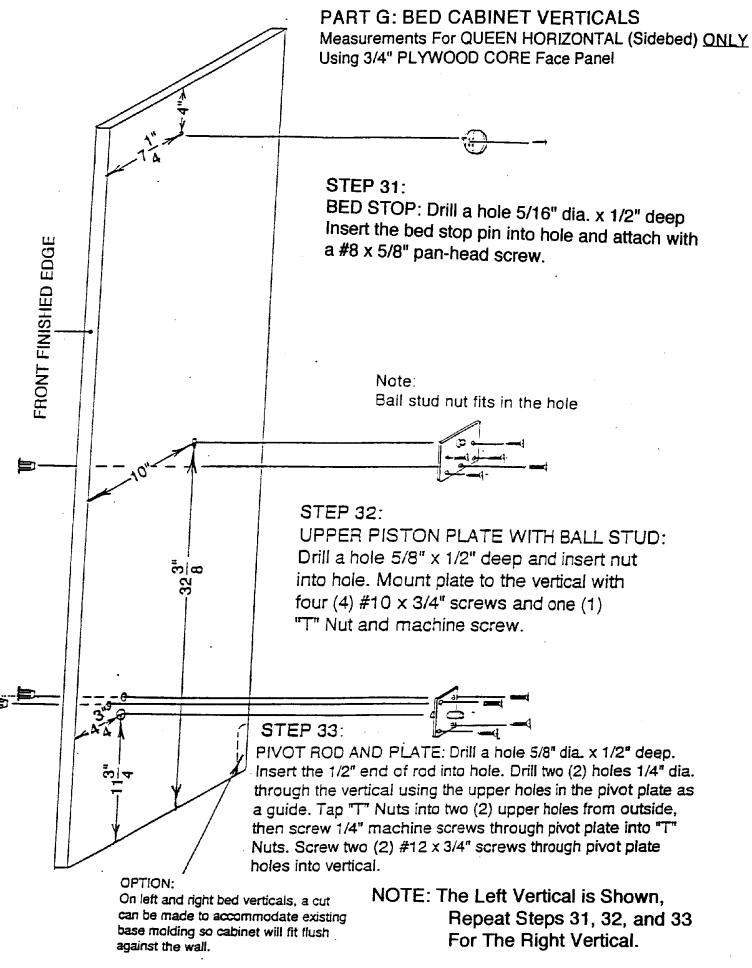
NOTE: BE SURE TO PERFORM STEPS 21 THRU 30 IN ORDER...

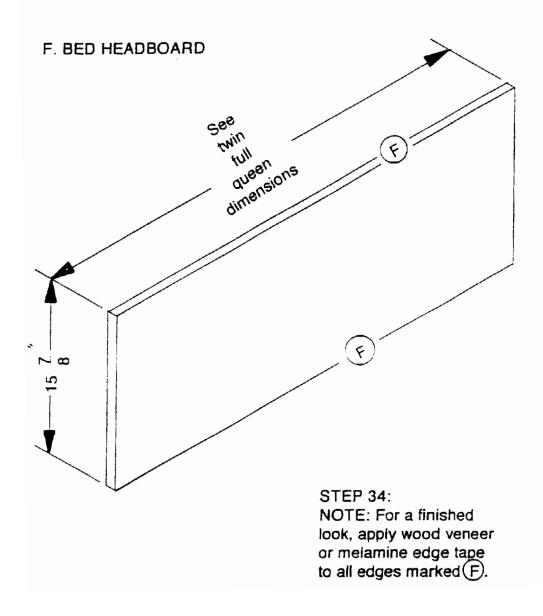


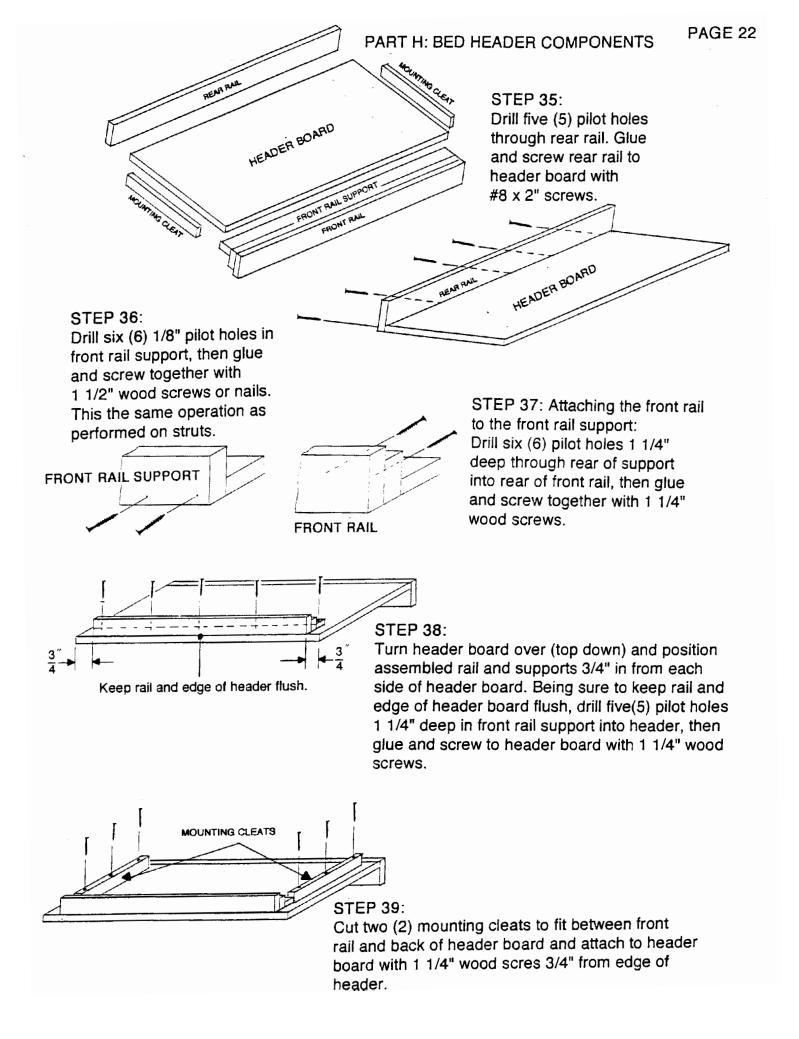
Underside View

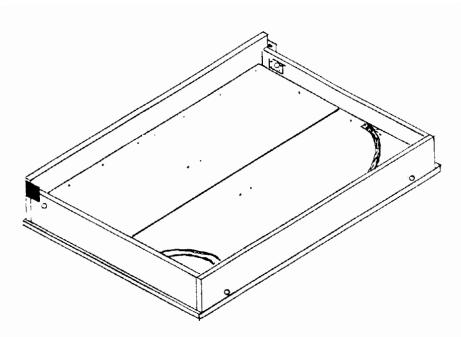
INSTALLING THE LOCKING LATCHES (CONTINUED)









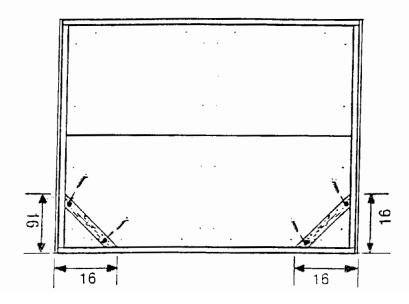


STEP 40:

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[®]

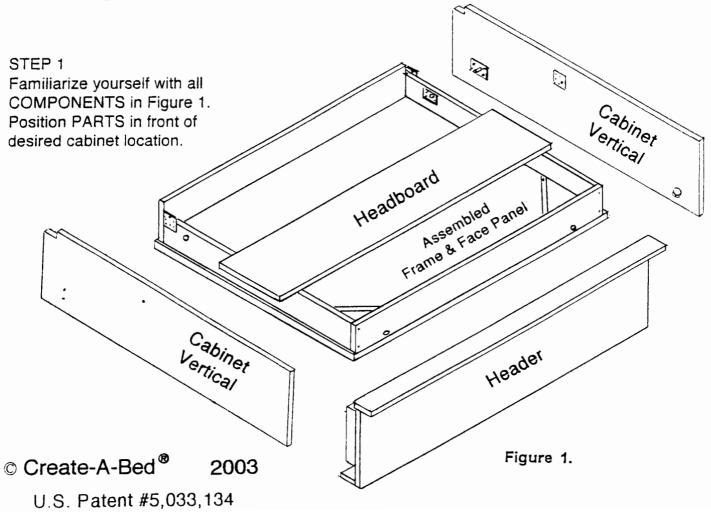
MURPHY BED

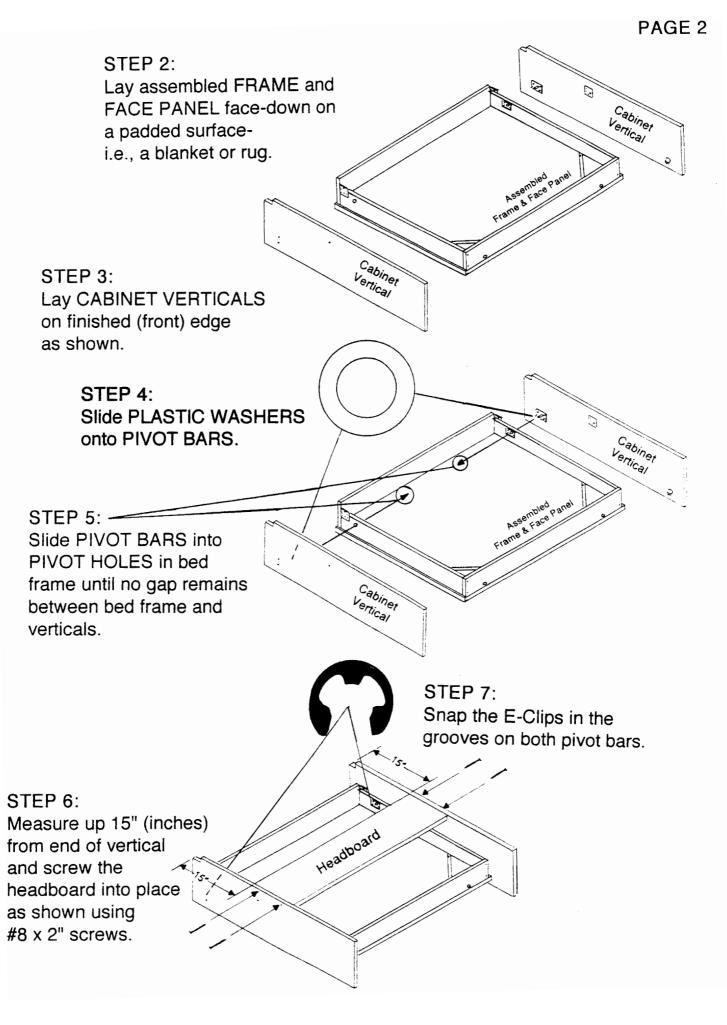
WARNING!

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.

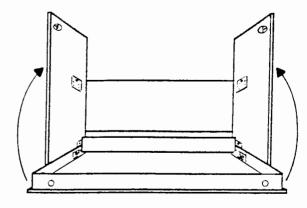


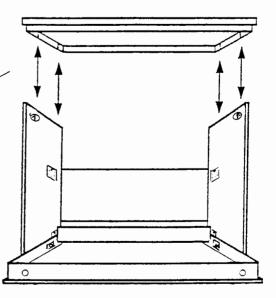


STEP 8:

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.

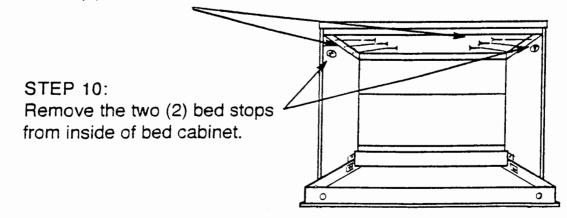


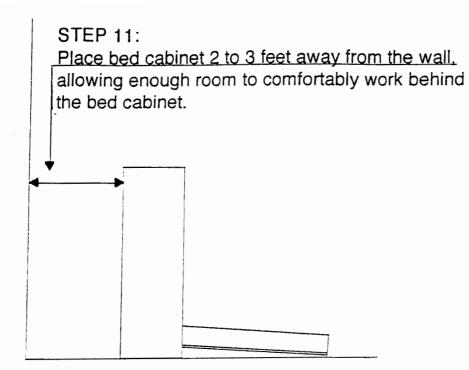


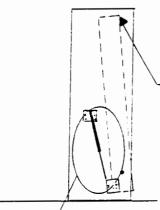
STEP 9:

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.





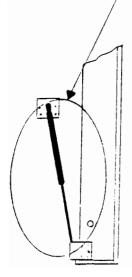


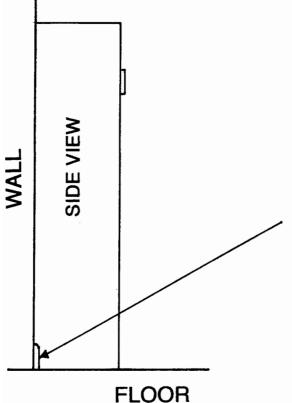
STEP 12:

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")



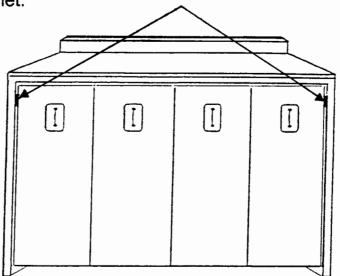


STEP 13:

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.

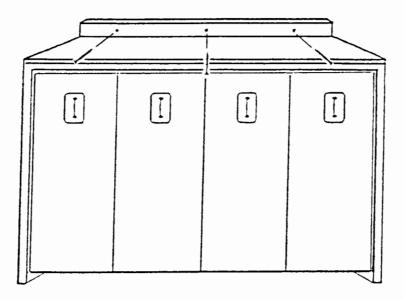
STEP 14:

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.

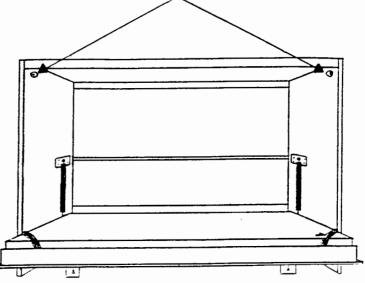
Drill three (3) pilot holes through the back rail of the Bed Header into the wall for a twin or full size bed and four (4) for a queen size bed. Using a 9/16" drill bit, drill holes at the pilot holes through the metal studs. Be sure you drill through the studs. Insert the toggle bolt screws through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

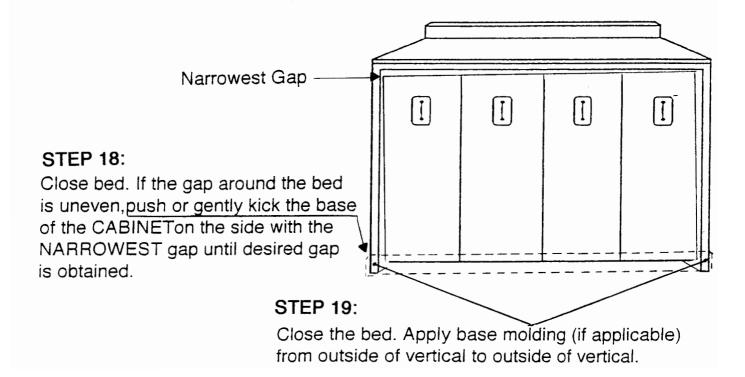
STEP 16:

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.



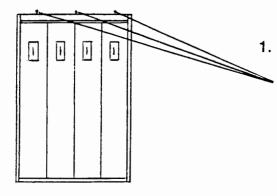


PROBLEM SOLVING

- 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.

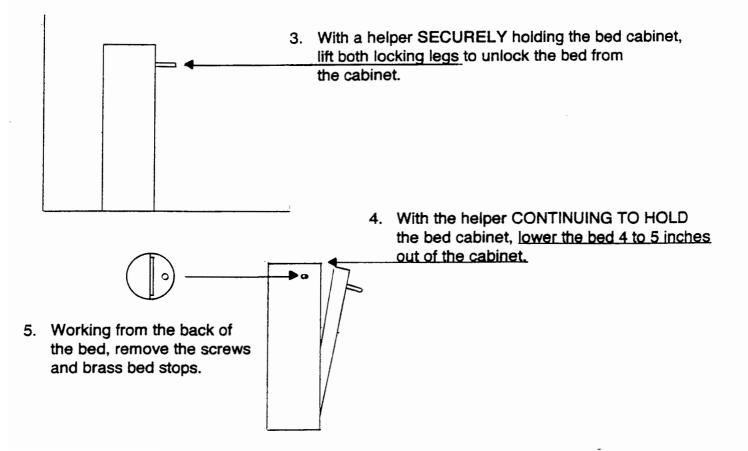
REPLACING THE COUNTER BALANCE PISTON PAGE 10

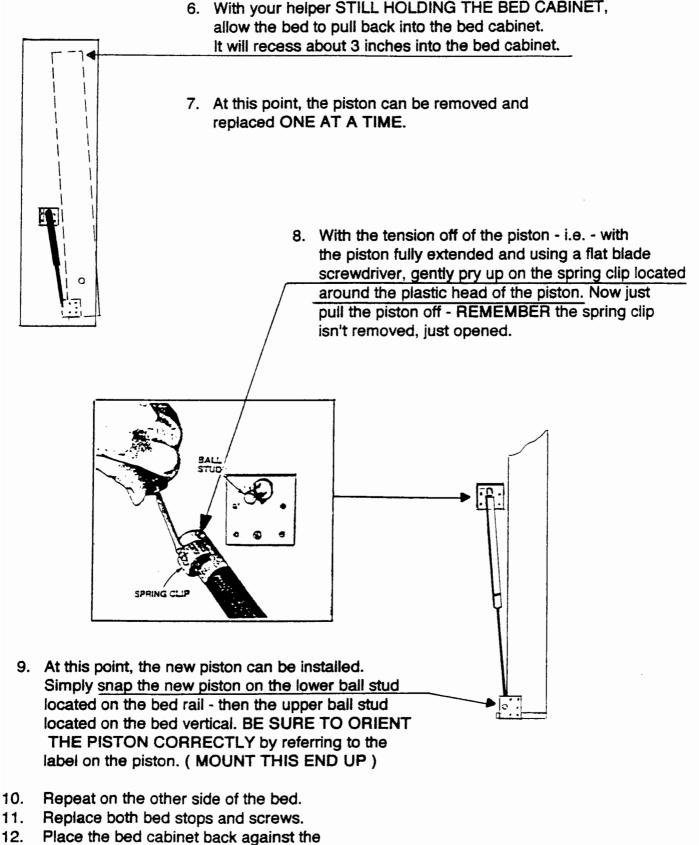
DO NOT ATTEMPT To Compress the piston by any other means than the one described in the steps below.



 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.