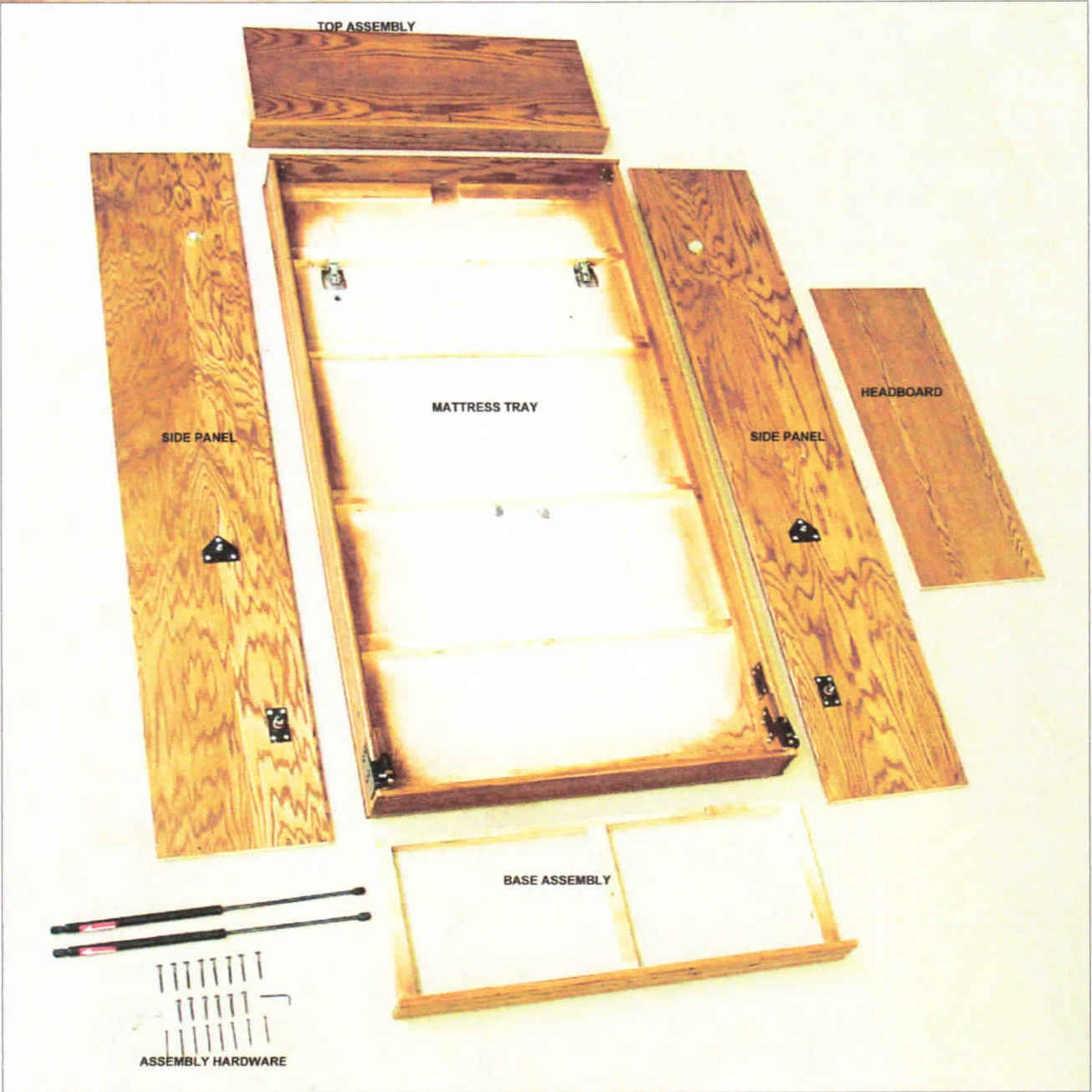
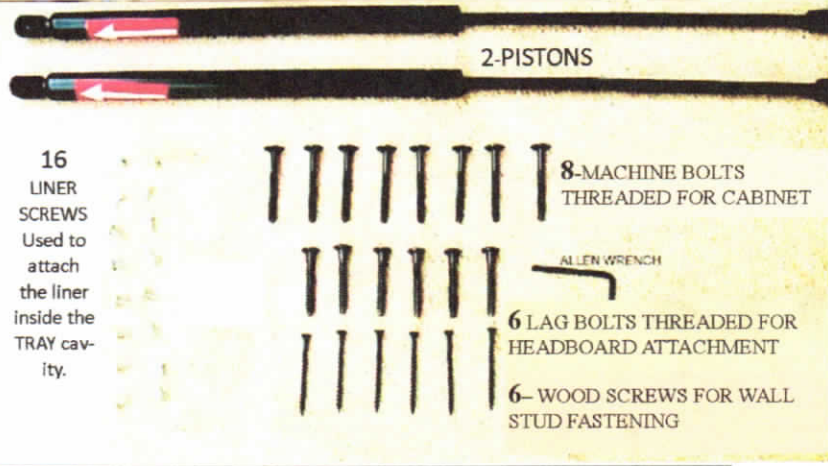


# WALLBEDS COMPANY INSTALLATION GUIDE

FAILURE TO FOLLOW INSTRUCTIONS COULD RESULT IN UNJURY OR DEATH

## ASSEMBLY HARDWARE LOCATION AND INVENTORY

Located in the larger TRAY box, stapled to a removable piece of wood are both the pistons and assembly hardware kit (contents shown below). Simply remove the pistons and hardware from the board, unscrew the board and discard it.



## **Special Wallbeds Packing Notice!**

When you first open the Wallbed tray carton (right) you will see the tray interior.



On removing the tray for assembly or inspection, what will appear under it, covered by a foam sheeting, is the tray liner, which is an important part of the bed. **DO NOT DISCARD IT!!**



The Liner Board, with mattress retainer straps attached, must be installed over the ribs of the tray interior to provide a clean clear surface for mattress support. Please use it as directed by the Assembly instructions



# WALLBEDS!

## ASSEMBLY & INSTALLATION INSTRUCTIONS

**PLEASE, just so you only have to do this ONCE, read these instructions FIRST!!**

### **TAKE INVENTORY:** The larger carton contains:

Mattress tray, with two lift pistons mounted to the tray:  
One 4mm Allen wrench      One cylinder key  
8 - 2-5/8" machine bolts      16- 5/8" caphead screws  
6 - 2" headboard lag bolts      6 - 3-1/2" wood screws  
One White Liner Board with mattress retainer straps.

The smaller carton contains the following items:

Cabinet top assy      Cabinet base frame  
2- Cabinet sides      Headboard panel  
Cabinet top panel (Horiz. Beds ONLY)  
Safety Cable Pack (Cable, screws, instructions)

**TOOLS:** You will need a 1/2" box end wrench & Phillips screwdriver, and will prefer a power driver. An electronic stud finder is strongly recommended for accurately locating wall studs.

**DECORATIVE HARDWARE:** If your bed has decorative hardware, it is packed in the tray and should be mounted prior to assembly per instructions included.

### **CABINET ASSEMBLY:**

Lay mattress tray on the floor, finished face down, with the head end (with plates) at least two feet from the wall.

Remove the pistons and screws from the mattress tray.

Place the white liner board in the tray with straps showing, and screw it down around the perimeter every fifteen inches or so with caphead screws provided.

Place Cabinet sides, round edge down, next to the tray so pivot axles are near the pivot hole plates on the tray.

Slide the axles into the holes. Mount pistons by first snapping the shaft end onto the adjustable ball studs mounted on the tray. Then grasp the piston barrel and twist it to rotate 180 degrees so the end socket faces the cabinet ball stud. Adjust both ball studs on the tray by rotating the bolt heads with your wrench to line up the barrel end and ball stud mounted on the side panels. (Fig.1) You will then be able to easily snap the barrel end of the pistons on the ball studs. **DO NOT HAMMER** or use other force. When the ball & piston end are lined up, they snap together easily.

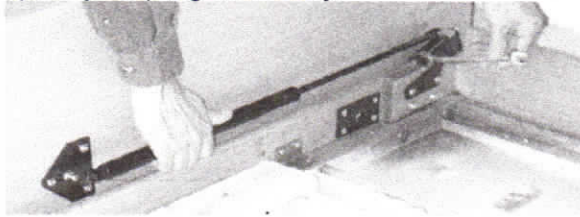


Fig. 1

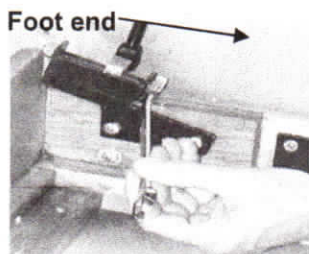


Fig. 2 Adjust Tension

Adjust the tray connections another 1/2" toward the foot end of the bed by turning the bolt head clockwise. This will compress the piston and keep the bed firmly closed when it is in the installed position.

Place the Cabinet top assembly between the sides at the end away from the wall. The finished molding edge should be on the floor, and the finished ceiling toward the tray. The top edge of the side should be flush with the top of the assembly. (Fig.4)

Secure these joints by inserting and tightening two machine screws through the holes in each side panel to the T-nuts in the top assembly.

Attach the base frame in the same manner, with finished molding edge on the floor and the frame away from the mattress tray and flush with the cabinet side ends. (Fig.5)

Slip Allen lag bolts in the pre-bored holes on the back edge of the sides near the piston joints.

Lay the headboard panel on the bolts between the sides, with the finished face to the mattress and the rounded edge toward the cabinet top.

Attach the panel at each end by lifting the end, retracting the bolts, letting the end down in position, and starting the bolts in to the panel ends. When all bolts are started, tighten firmly with the Allen wrench.

**Your Wallbed! may now be tilted upright.**

### **INSTALLATION:**

On the wall location selected, locate three wood wall studs behind the bed and mark them with a vertical line extending a few inches above and below the cabinet top. (Fig.3)

If your mounting site has a baseboard, you may remove it for a flush fit to the wall. If you decide to leave it, the slight tilt of the bed will not affect the operation.

**WARNING!!** Your Wallbed! **MUST** be anchored to wood studs or other structural members to prevent damage or injury. If you are working with sheet metal studs, cinder block, brick, or concrete, you must provide three anchor points of 100 pounds strength each, before installing a Wallbed!. **DO NOT anchor to sheetrock or panelling!**

Move your Wallbed! into position against the wall, making sure that all three stud lines are between the side panels.

Fig.4 Top Assy.

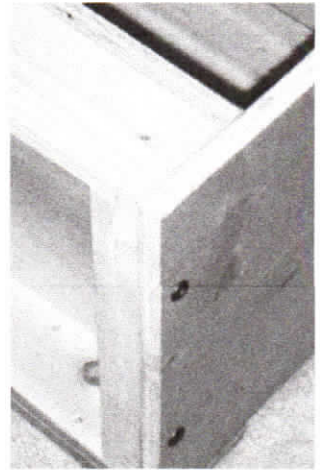


Fig.5 Base Assy

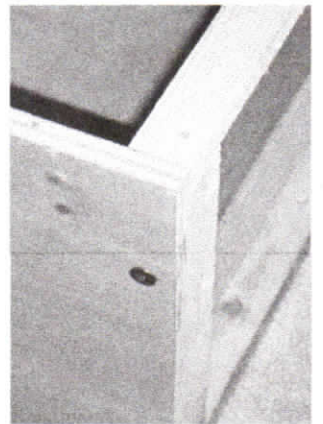


Fig. 3 Mark Studs

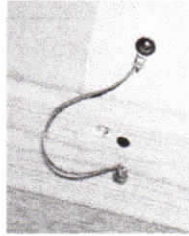


**INSTALLATION (Cont.)** Slip some folded cardboard, or other thin material between the cabinet sides and tray, about six feet up. These shims will help keep the bed squarely aligned as you attach it to the wall.

Reach over the top of the unit and drive three 2 1/2" screws through the top assembly back rail into the studs.

**INSTALL THE SAFETY CABLE:**

Locate the stud closest to the center of the bed, and attach one end of the cable to the back rail near the stud with the 3/4" screw provided. Leaving about a three inch loop in the cable as shown, attach the other end to the wall stud with the 2" washer head screw about one inch higher than



**SAFETY CABLE** the rail top. This screw, when properly driven into the stud, should be fairly hard to drive. If it is not, you may have missed the stud and should try again. *The function of this cable is to make attachment failure of the bed visible by allowing it to come away from the wall. two or three inches. When you see this condition DO NOT OPEN THE BED! You must investigate what is wrong and correct it!*

Your Wallbed! should now be in location. Visually check the alignment of the mattress tray and cabinet by looking at the narrow space between the mattress tray and sides, to see that the tray will not be rubbing either side panel. To correct alignment, just nudge the base of the cabinet slightly to either side. When alignment is correct, hold the bed open, reach in underneath, and drive a 2 1/2" screw through the frame backrail into the wall or floor, as you choose. This will keep the cabinet from shifting offline with use.

**HORIZONTAL BEDS ONLY:**

*The finished top panel may now be placed on top of the cabinet. It is designed to simply sit in position behind the front trim mold.*



**Operating Tips:** *There is an easy and safe way!*

**Opening the bed:** Just stand sideways to the bed near one of the hinge holes, reach up and grab the hole, and use your body weight to open the bed with ease by leaning away from the bed.

**NEVER force bed operation!!** STOP, investigate and correct any obstruction! *On rare occasion bedding or the mattress itself can slip down to the floor behind and jam the bed from opening, or adjustment may become loose and keep the bed from closing fully. DO NOT force the bed, but remove obstructions or re-adjust before operating. Forcing the operation can result in breaking the tray structure or mechanism, leading to possible injury or expensive repairs.*

**Locking & Unlocking:** The bed latches closed like a door, so the lock is used mostly to assure that it is not operated by unfamiliar or unwanted persons. The cylinder key must be pushed into the lock before turning, and will push out again after rotation.

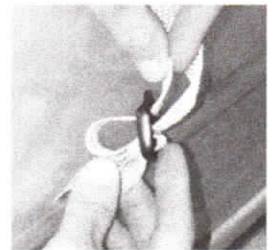
**I Lost the KEY!** Under the leg or panel, you will see a cable running into the interior. It is connected to the latch. Pulling gently on this cable will release the latch. Do NOT pull on the cable to lower the bed.

**KEEP THESE INSTRUCTIONS !!!**

(They may be conveniently stored on top of the cabinet)

**INSERT MATTRESS:**

*Hold the bed open, slide your mattress in place, and wrap and buckle the retainer straps at the head and foot. These retainers are designed to lie under linens and not interfere with use of the bed. Any excess strapping may be tucked under the mattress.*



**Fig.7 Retainer Strap**

You MUST use these straps to retain the mattress in place. Without these straps, the mattress may fall out of the tray to the floor when closed, preventing the bed from opening. DO NOT try to force the bed open!!

**ADJUST & BALANCE:** Lift up the pivot legs or panel on the face of the Wallbed!, and pull the bed fully open by grabbing one hinge hole.

**If your bed doesn't fully shut,** use a wrench on the bolt heads at the head of the bed, turning both sides clockwise evenly to equalize lift. This will increase the closure and slightly reduce the lift.

**If the bed won't stay down,** you may further reduce the 'lift' of the bed by turning clockwise on both bolt heads with your wrench until the bed settles.

*(If the bed still rises, you may add weight to the foot area with wood or particleboard by simply unscrewing the paneling under the mattress. The deck panel may be lifted, your weight placed, and the deck screws replaced)*

**If the bed seems heavy to operate,** turning the adjusting bolts counterclockwise will increase the lift.

**NOTE: NEVER back the adjusting bolts beyond the 'bed closed' position as it will likely break the pistons or connectors when the bed is pushed closed.** *If the bed will not close itself fully, open and adjust as above, but DO NOT push the bed closed.*

**Horizontal beds:** Adjusting bolts should be adjusted fully away from the wall, then backed off as needed for comfortable operation.

**Care:** Your Wallbed! requires only the normal care of fine wood furniture. The Wallbed! finish features natural wood surfaces treated with stains, sealer and semi-gloss lacquer, in an eight-step process. Direct sun exposure may cause fading of color in the wood or finish. Please avoid applications of water based products.

**Moving? :** Moving the fully assembled Wallbed! is NOT recommended. When you do decide to move your Wallbed!, simply reverse these directions.

To remove the pistons from the ball joints, back the adjustable balls to relieve the pistons of tension. Then insert a slothead screwdriver under the spring band on the back of the piston heads and twist the screwdriver gently to relieve the connection. If you pull away from the ball while twisting, the piston will come off easily

**WARNING!!**

**DO NOT DISCONNECT BED FROM WALL UNLESS IT IS CLOSED & LOCKED IN THE UPRIGHT POSITION ! DO NOT DISCONNECT PISTONS UNLESS THEY ARE FULLY EXTENDED, AND WITHOUT PRESSURE. A COMPRESSED PISTON CAN SHOOT TO FULL EXTENSION WITH GREAT FORCE!!**

# WALLBEDS ASSEMBLY TIPS!!

- 1) **Save yourself some work and read the instructions.**
- 2) **Make sure you carry a ½" box wrench!** The new adjustable ball point is easy WITH one, but a pain without. One of the best wrenches for the job is sold by Sears and is item #43363 in their catalog.
- 3) **Pre-adjust the bed.** Once you have connected the pistons, if you crank the adjusting bolts clockwise until the back face of the bright steel connector block clears the inside of the back rail, you will usually have done most of the adjusting needed. A few cranks after the mattress is in may be necessary to balance.
- 4) **If the bed doesn't close, DON'T force it!** If you force it closed by hand, you will break the piston heads, and probably have to deal with an upset customer and double installation job. Open the bed and adjust the lower ball points at the head of the tray. It is easy to adjust the bed after it is fully installed and loaded with the mattress. If the bed won't close all the way, or lifts off the floor (a floater) just crank the adjusting bolts at the head of the tray clockwise EQUALLY on each side (count the turns) to bring the ball point toward the foot of the bed. That reduces the lift and increases the closure. The further you go, the less the lift..
- 5) **Here's a way to KNOW you've hit the studs!** With your electronic stud finder (a MUST!) locate and mark the positions. Find the corresponding points on the top assembly back rail, and bore 1/8" pilot holes through the wood only. Then drive through the pilot holes into the wall at the stud locations. You'll know you hit the studs, because the screw will bite the stud and resist. If the screw spins, you've clearly missed! You can also run two screws into each stud, just to be sure. Toeing the second one about thirty degrees helps the grip, too.
- 6) **Easy Alignment!** Here are some common adjustments that can be made:
  - a) If the side panels bow out, you may have overtightened the assembly bolts at the top. Try backing them a bit to see if the bow relaxes. The same trick can be effective with the headboard bolts.
  - b) Along the same lines, the tensioning of bolts together with the use of a thin shim in the right spot can make a wayward side panel do lots of tricks. This technique is most effective at the point where the top assembly and side panels meet. Using a shim at the top can make a side bow slightly inward, or at the bottom to make it go outward. Obviously, placement at front or back can change where the effect is seen.
  - c) If the latch doesn't engage well, it is likely that the top assembly needs to be adjusted a bit downward. Just loosen the top assembly bolts and nudge the assembly down, then retighten.
  - d) Really annoying squeeks can develop with beds installed on a carpeted room on occasion. They occur because of rubbing between surfaces as the bed flexes on the carpet. If you run into this rare situation, you can usually correct the problem by shimming the back edge of the side away from the wall, or shimming the base molding from the side by loosening the assembly bolts, inserting a small shim between the base and side, then retightening the bolts.
- 7) **The Carpet Effect:** If you're installing on top of a carpet and pad, the bed may settle as much as a half inch over the next couple of days, pulling the bed out of line or creating a gap at the top of the tray. IF you anticipate this happening, there are a couple of things that can ease the situation. As the entire unit will try to settle down, you can predrill the attachment holes at the top in an oval shape to allow movement down, using a washer under the screw head to assure holding power. If you have to correct the situation after settling, the best thing to do is unattach the closed bed from the wall, adjust the top assembly if necessary by loosening the upper assembly bolts a bit then retightening, and, then remount the bed to the wall driving the screws in new locations above or below the originals to make sure you hit the studs again.
- 8) **Door Hinge Adjustment:** The hinges being used on all cases have an 1/8th of an inch adjustability in the vertical direction. All that is necessary is to loosen the two screws that mount the hinges to the cabinet side, and tap the whole door up or down as needed. If your doors do not line up, check that:
  - a. The doors are the same size?
  - b. Are the doors the same distance from the top of the cabinet moulding at the outside edges?
  - c. If the doors are the same size, and the same distance, then the case is not sitting level on the floor, and needs to be shimmed to correct the effect.

Tilt Adjustment Screw  
Vertical Adjustment Screw

