



## Safety Advice Sheet

### BEFORE YOU BEGIN:

- Please read and understand the instructions prior to assembly. Incorrect installation of this product could possibly result in personal injury or physical damage.
- WallBeds Australia recommends that eye protection is worn when assembling the product.
- WallBeds Australia recommends two people to safely assemble and install the wall bed - It is not recommended you try to install this bed on your own.
- The wall bed **MUST** be securely fastened to the wall. Failure to do so will cause the bed to tip over & may cause damage to the cabinet or serious personal injury.
- Whilst these products are DIY it is recommended the wall bed be installed by a qualified tradesperson if you are not comfortable with the installation of this product.

WallBeds Australia is not responsible for any damages or injuries incurred by incorrect installation.

# **Alpha Bed Cabinetry Flat Pack and Steel Bed Frame Assembly Instructions**

Available in: Single Double Queen King

One universal bed frame which can be used to construct a Single, Double, or Queen WallBeds.

It can be mounted in either vertical or horizontal modes.

A lightweight universal structural steel bed frame with double overlap steel stiffeners completed with a fold-away leg system. The frame is designed to exceed the strength of wood or aluminum. The Alpha frame may be used in residential and commercial applications.

Designed to Exceed International ISO 9002  
Standards for residential specifications

## Carton Contents for Steel Bed Frame (#SBF)

Note: Each Single, Double, Queen or King Steel Bed Frame carton contains one complete necessary hardware to complete the bed frame you have chosen. Not all bags listed below relate to every size frame.

Stock#	Qty.	Item	Comments
1999E	2	Frame End Sections	Identical Head & Foot
1999S	2	Frame Side Sections	Identical Right or Left
S456 (SK7)	3 (5)	Stiffeners - Bed Face (King Size)	Space evenly between Frame Sides
LG-13	2	Fold-away Legs	One Left - One Right
LR	1	Leg Connector Rod	Stabalizes and Eases Leg Operation
<b>(Hardware Bag #3)</b>			
1214	14	Bolt 10-24 x 1/2" Black	Bolt Frame corners
1213	2	Bolt 10-24 x 1 1/4" Black	Bolt Leg Stop Foot corners
1218	16	Nut 10-24 x Black Nylock	Use with #1214 & #1213
1226	4	Angle 1"x1"x1 3/4" Black	Use inside Frame corners
1223	2	1/2" x 3/4" Round Black Cylinder	Use with #1213 as Leg Stop
<b>(Hardware Bag #4)</b>			
1220	2	1 1/2" x 5/16" Black Washer	Secure Leg inside Frame
1222	2	1 1/2" x .765" Black Washer	Secure Leg inside Frame
1221	2	1 1/2" x .765" Black Nylon Washer	Between Leg & outside of Frame
1217	2	Nut 5/16" Black Nylock	Secure Leg inside Frame
1210	2	Bolt 1/4"-20 Black Hex Head	Attach Leg to Leg Rod
SW1	2	Star Washer for #1210	Attach Leg to Leg Rod
<b>(Hardware Bag #5)</b>			
1228	1	Nylon Web Strap with Buckle	Secure Mattress to Bed Frame
1229	2	3/4" x 1/4" Washer	Secure Nylon Web Strap to Bed Face Panel under Mattress
1224	2	#8 x 5/8" Wood Screw	Secure Nylon Web Strap
<b>(Hardware Bag #7 - King size includes 2 bags)</b>			
1224	110	#8 x 5/8" Wood Screw	Attach Steel Bed Frame to Bed Face
<b>(Hardware Bag #22)</b>			
1226	20	1" x 1" x 1 3/4" Black Corner Angle	Assemble Cabinets
PS-1	2	1" x 3" Black Panel Saver	Assemble per Drawing
	80	#8 x 5/8" Black Wood Screw	Attach the above

# Alpha Bed Frame Project Start-Up

Familiarise yourself with all of the components in the Alpha Bed Frame and mechanism cartons, as well as thoroughly study this manual so you may plan the steps required to complete this project.

Study all illustrations and plan drawings. Make sure that the space available is adequate for the specified dimensions of the bed cabinet; both in the open and closed positions.

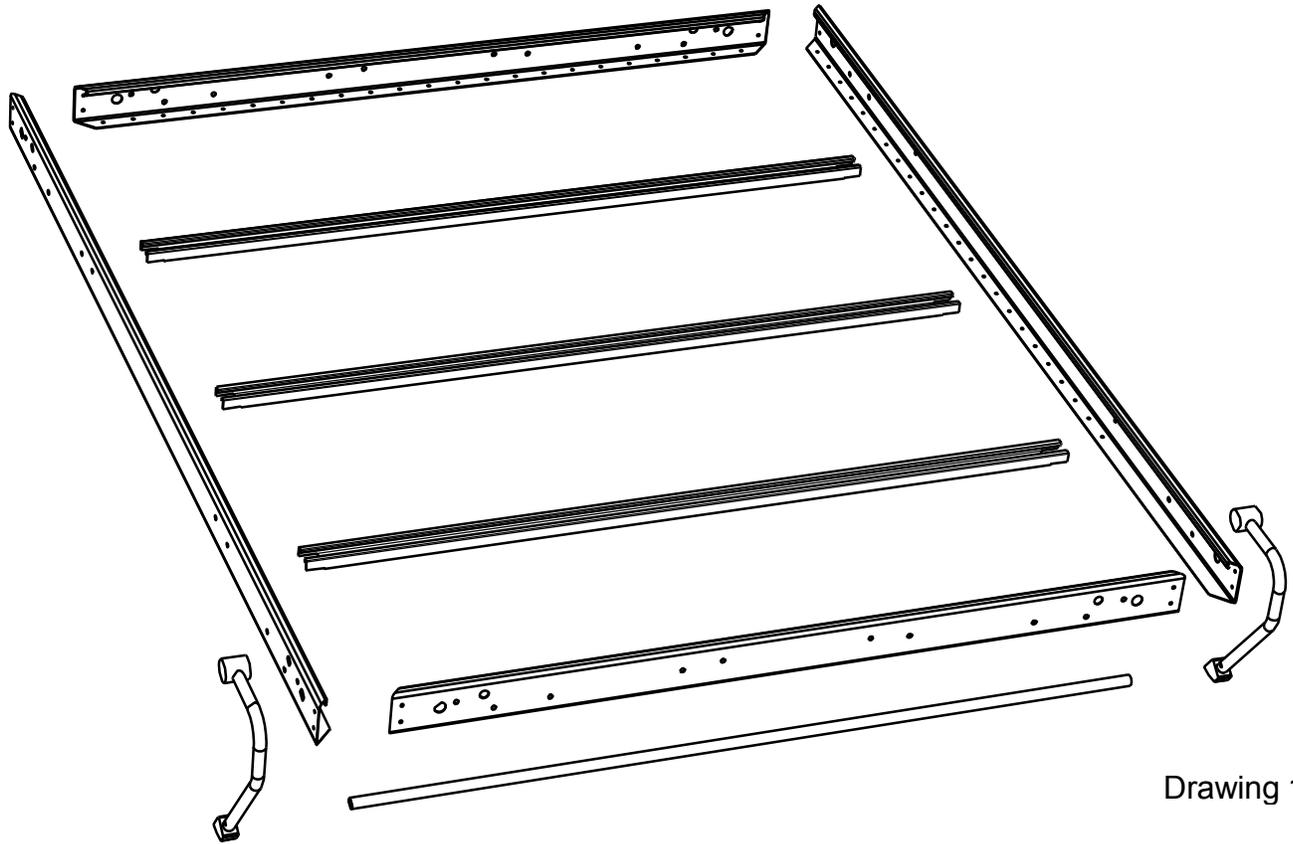
## Steps to Complete Project

1. Prepare all wood or laminate cabinet components.
2. Attach the Spring Lift Mechanism.
3. Install springs in Lift Mechanisms.
4. Assemble the Bed Cabinet.
5. Attach Bed Cabinet to wall.
6. Assemble Steel Bed Frame to Face/Base Panels.
7. Install the Face/Base Panel in Cabinet.
8. Install Handles, Leg Assembly, Mechanism Covers, Mattress

You Tube tutorials are available from Murphy Bed for the Frame & Spring assembly. Any cabinetry shown in these clips DO NOT relate to WallBeds Australia Cabinetry instructions. These clips are a visual guide on how to assemble the Steel Frame component of the wall bed which is universal world wide. \*

Simply type – **murphybedhardware** into You Tube

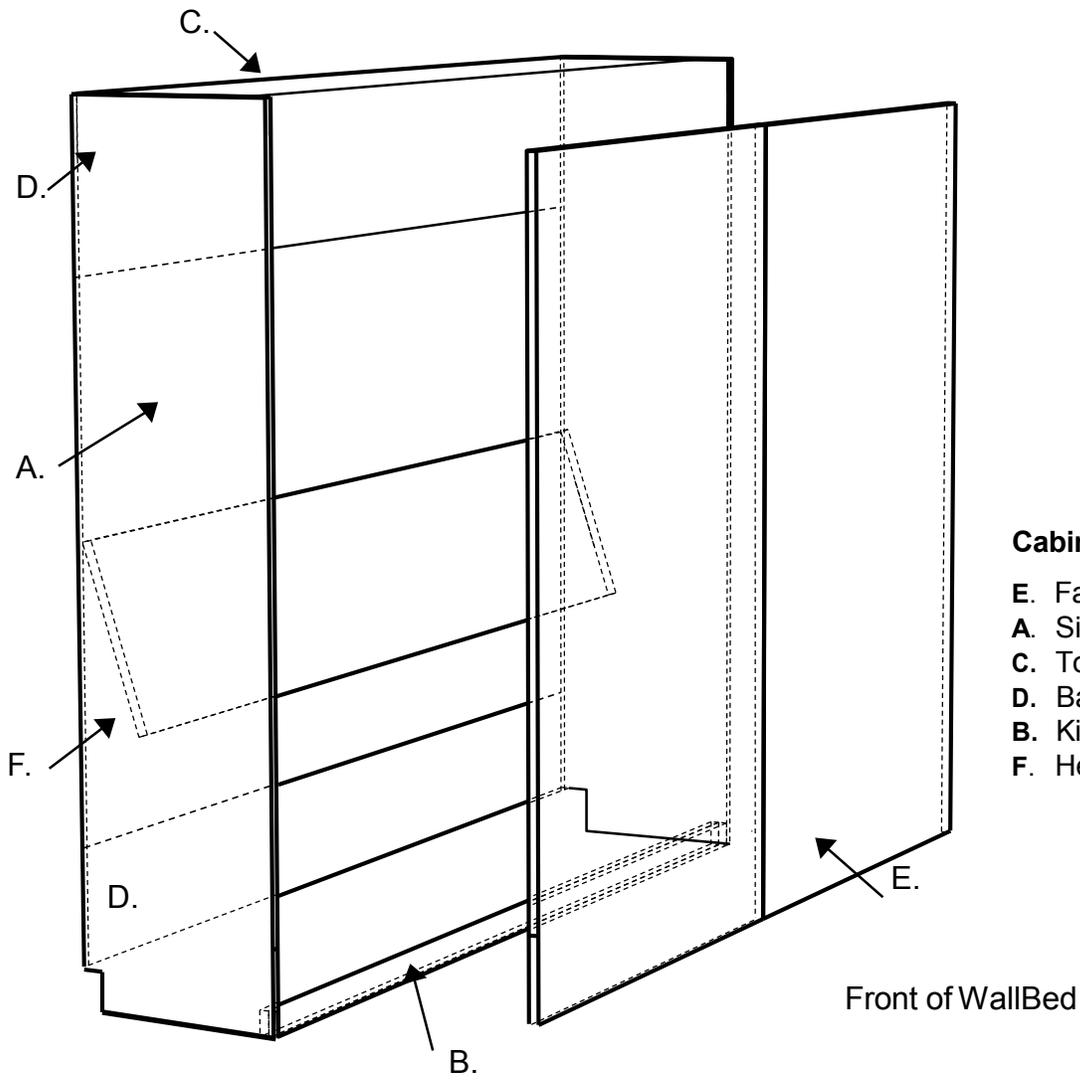
# Alpha Bed Steel Frame Component Layout



Drawing 1.

- Frame is adaptable as vertical or horizontal (side tilt) bed.





**Cabinet Components Description**

- E.** Face/Base Panels
- A.** Side Panels
- C.** Top Panel
- D.** Back Panels
- B.** Kick
- F.** Head Board

**Drawing 2**

# Spring Application Chart

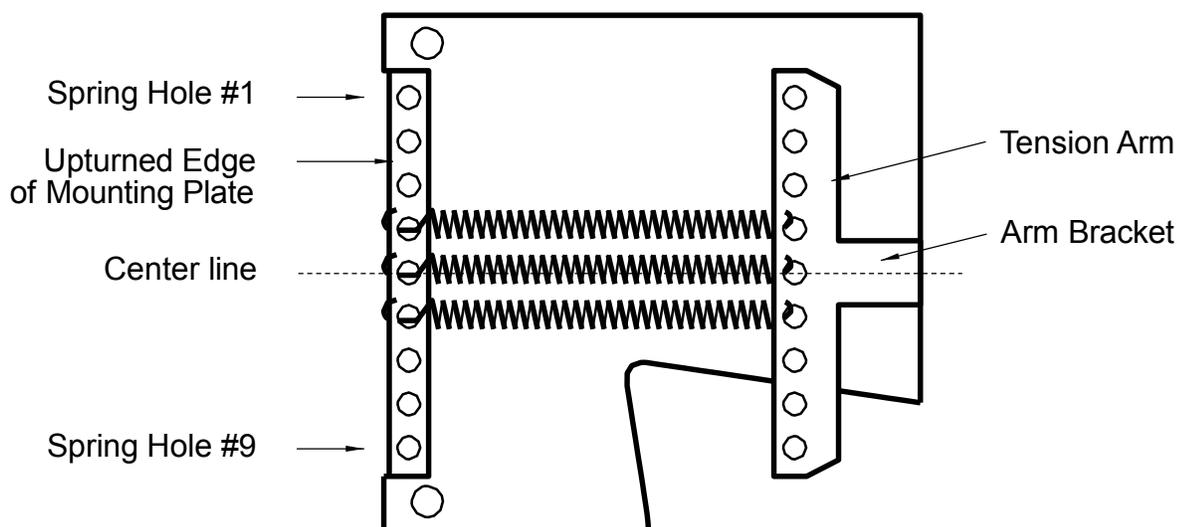
BED SIZE	BED PANEL MATERIAL	
	Plywood Core	Particle Board
Single	4-5 springs per side	4-5 springs per side
Double	6-7 springs per side	6-7 springs per side
Queen	7 springs per side	7 springs per side
King	8- 9 springs per side	8- 9 springs per side

After you have completed installing and checking the operation of your bed, you may find it necessary to add or remove springs to achieve the correct lift effort of between 10 kg to 15 kg.

There are nine locations for springs. If the bed requires an even number of springs, do not use the center hole (#5 from the top). If the bed requires an odd number of springs, start with the center hole (#5 from the top) and work outward in both directions evenly.

Hook the springs so the open ends are facing outward. You may have to gently pry up the tension arm and slide the spring under and snap them into place in the proper hole, matching the same numbered hole from the top of the mechanism back plate. You should have an equal number of springs on each side of the center hole.

Use the same number of springs and the same layout on both the left and right mechanisms.



Drawing 5.

## Alpha Bed

<b>Instructions Part Reference For Each</b>	<b>Bed Panel Parts / Panels</b>	<b>Sticker Description On Each Panel</b>
<b>A</b>	Side Panels	Side Panel - A -
<b>E</b>	Face/Base	Base Panel - E -
<b>C</b>	Top Panel	Top panel - C -
<b>D</b>	Top Back Panel	Top Back Panel - D -
<b>D</b>	Lower Back Panel	Lower Back Panel - D -
<b>B</b>	Kick	Kick - B -
<b>F</b>	Head board	Headboard - F -

# Assembling the Bed Cabinet

For easier final wall mount you should assemble bed cabinet in the room where it will be used.

## Step 1

- Attach the Spring Lift Mechanisms to the Side Panels (A).
- Fit the springs to both spring lift mechanisms as per instructions on page 6.
- **Use 3 of the 25mm Hex Head bolts supplied in supplementary hardware bag in the front 3 counter sunk holes in the side panels. Tighten with the nylon nuts (16) supplied in hardware card 2#**
- Using 2 each of the original packaged 30mm Hex Head bolts (10) in hardware card 2# for the rear counter sunk holes also tighten with nylon nuts (16) Repeat for both sides.

## Step 2

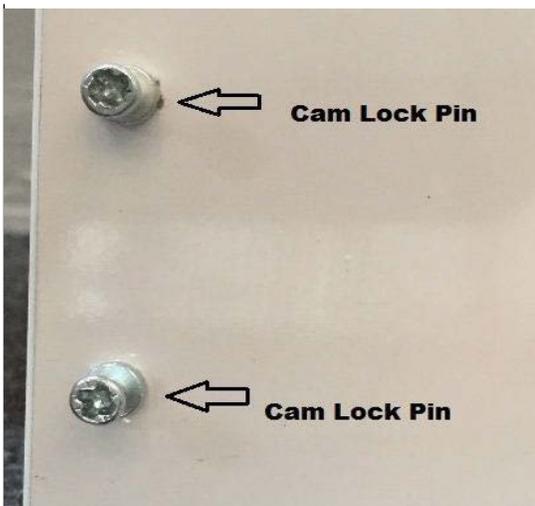
- Locate & insert all Cam locks into the pre drilled locations on all of the following panels:
  - C** Top Panel
  - D** Back Panels
  - B** Kick Panel
- Locate the pre drilled holes for the Cam Lock Pins on the inside of the Side/ End panels - **A** insert the Cam lock pins into the panels.
- Leave the middle hole blank where the two Back Panels - **D** attach to the Side/End panel. The middle hole is used for the 40mm fixing screw.

## Step 3

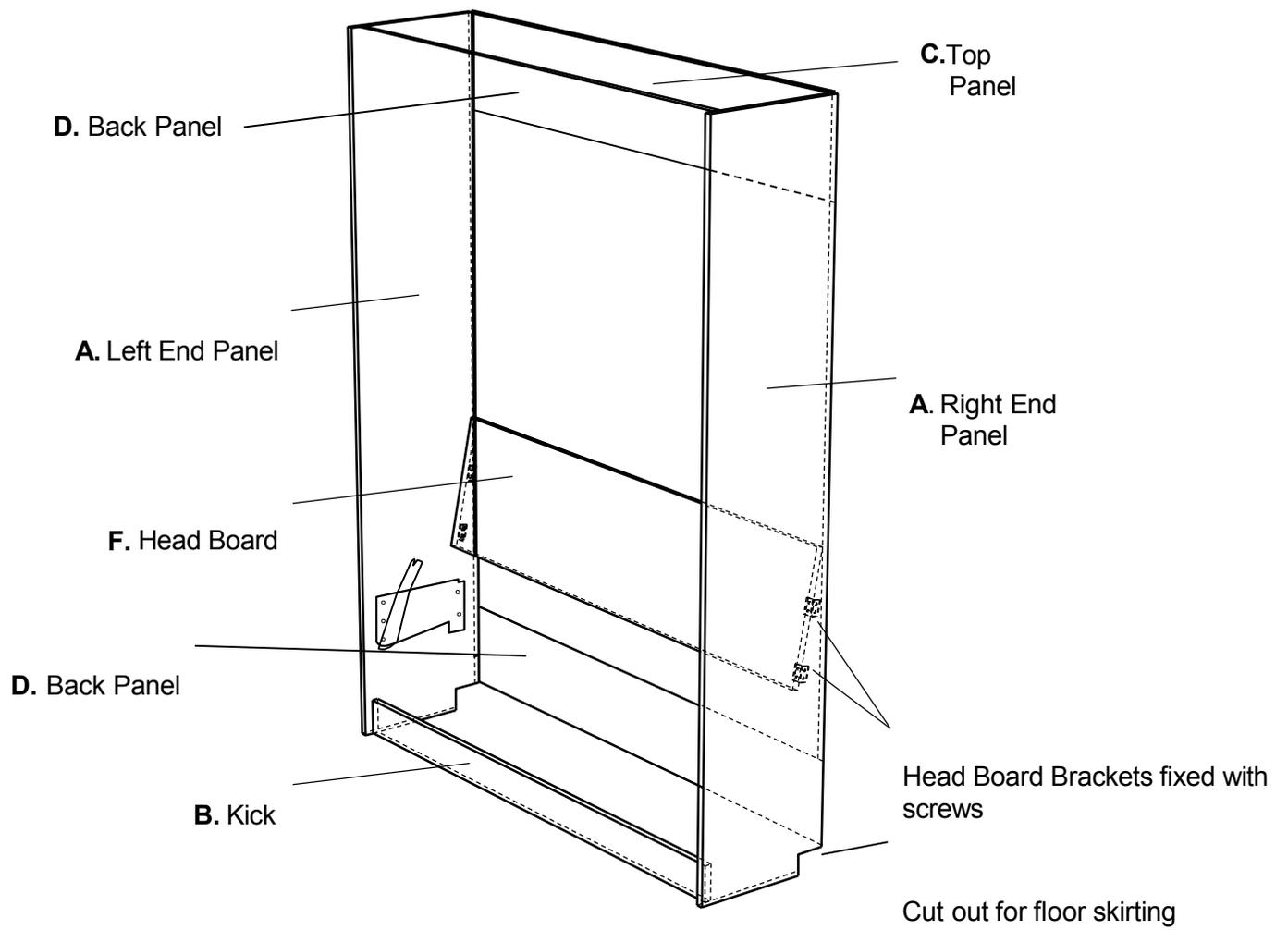
- Assemble the 2 x Side Panels - **A** to the Top Panel - **C**
- Place the Cam Lock over the cam pins & then tighten the Cam locks by turning the Phillip's head screw inside the lock. *It is recommended you use a hand screwdriver for this, not a power tool.*
- Ensure the top panel have the Cam Lock side facing upwards. This will ensure they are not visible when the unit is standing upright.
- Attach the 2 Back panels - **D** - with the Cam Locks facing in towards the wall. Then tighten with a Phillip's head screw driver
- Attach the Kick panel - **B** - with the Cam Locks facing in towards the wall. Then tighten with a Phillip's head screw driver.
- Insert 2 each side 40mm screws into the middle holes on the outside of the Side/End panels and tighten.
- There are 3 holes along the back of the Top Panel – **C**. These are also for the 40mm fixing screws.
- It is recommended that all of the 40mm screws are fixed in prior to moving the cabinet too much. This will increase the overall strength of the cabinet and reduce the risk of the Cam Pins breaking away from the Cam Locks.

## Step 4

- Installing the Bed Head Board -**F** - for ease of access it is recommended that the head board be attached prior to attaching the bed to the wall and installing the Face/Base panel. The measurements given are based on a mattress no thicker than 27cm. There are no pre drilled holes for this step as the height will vary depending on the mattress thickness.
- Locate the mounting position of the headboard as per Drawing 7
- Use the angle brackets (2 each side).
- Be sure the top bracket is set low enough not to protrude beyond the back of the cabinet.
- Use the Dome Head Screws to fix these brackets.

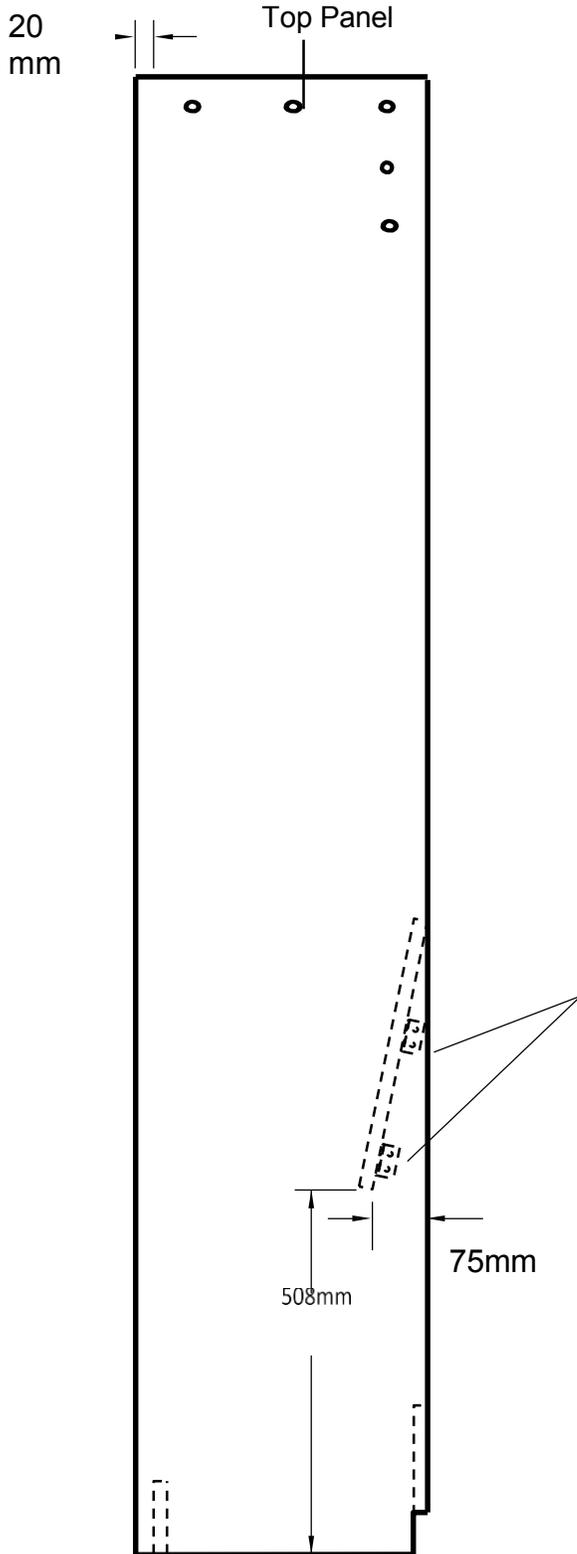


# Alpha Bed Cabinetry Labeling for Flat Pack Kits

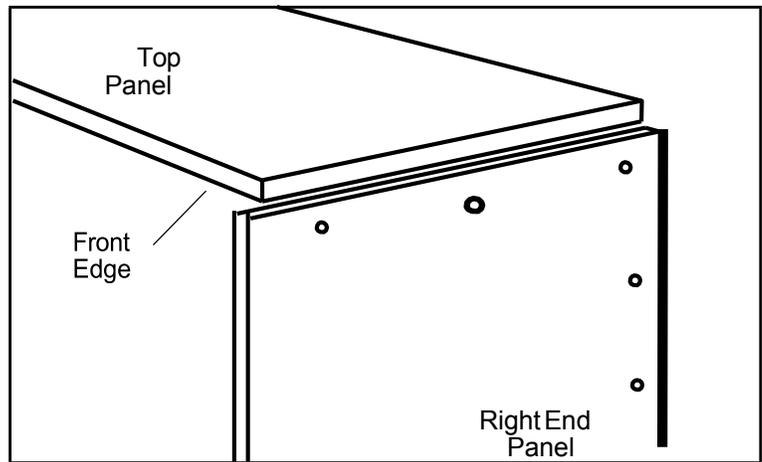


Drawing6.

# Assembling the Bed Cabinet (cont.)



Drawing7.



Drawing8.

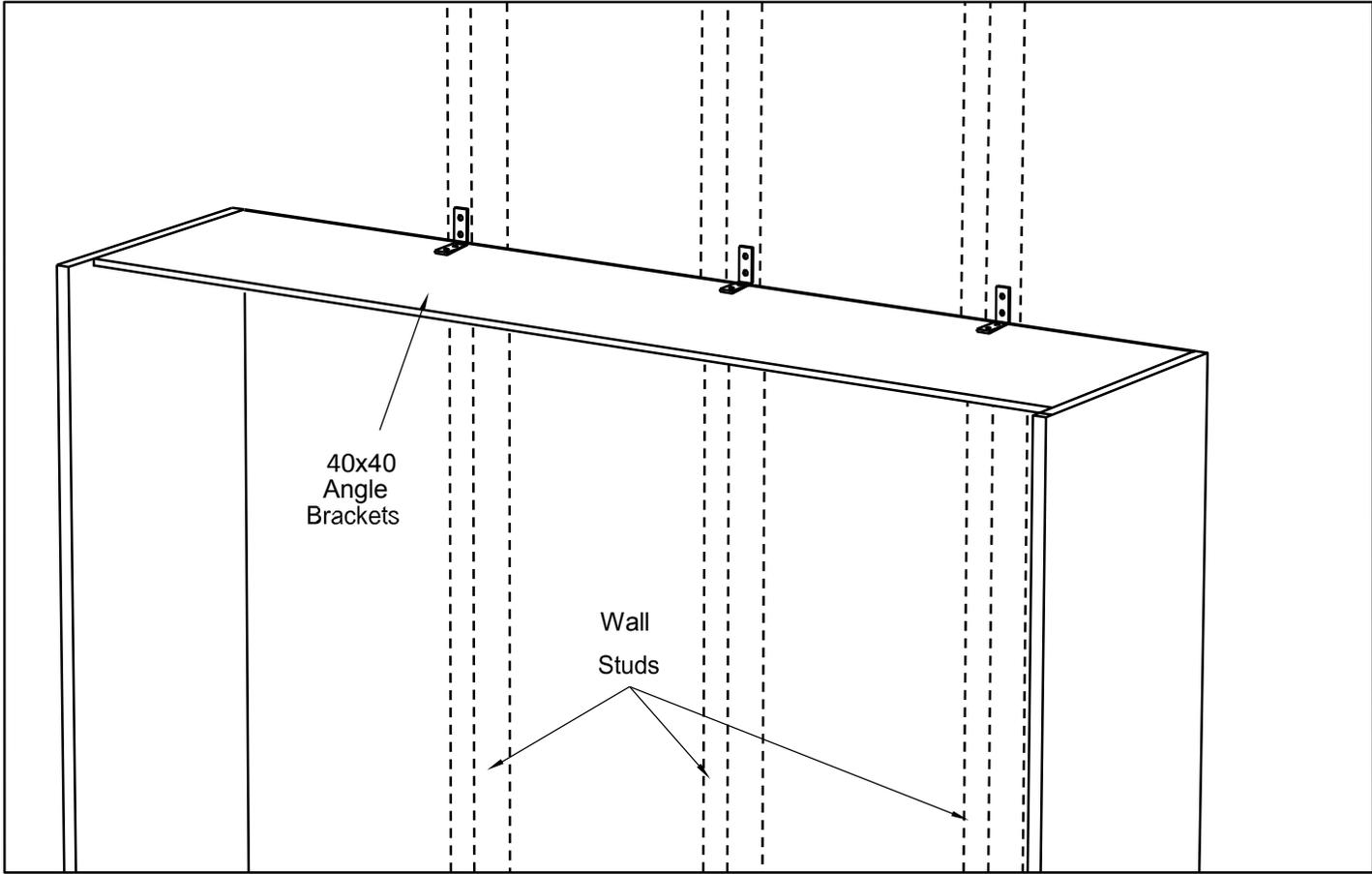
## Attach Bed Cabinet Securely to Wall

**Hints:** If the room is carpeted you may raise the kick up to clear the carpet. More than 15mm will obstruct the operation of the bed.

1. Place cabinet against wall. Make sure the cabinet is level and square. Measure diagonally to be sure of square. Bed will not operate if cabinet is not square. Check also for square from front to back as well as side to side. Use packers where necessary.
2. Locate 3 studs or other wall frame members at the level of the Top panel. (Refer to Drawing 9)  
The cabinet must be secured to wall studs or other wall structural members using 40mm x 40mm L-Brackets & the 50mm timber stud fixing screws. Only supplied for TIMBER Studs.

**Alert: If the wall is not a wood stud wall, then you will need to use metal stud screws, toggle bolts or concrete expansion bolts as necessary. THESE ARE NOT THE SCREWS SUPPLIED.**

3. Now that the cabinet is square and plumb, use one 50mm flat head wood screws in each of three “L” brackets to attach to studs.
4. Re-check the wall bed cabinet is square and plumb and then secure L-Brackets to the Top panel (C) using the Dome Head wood screws.

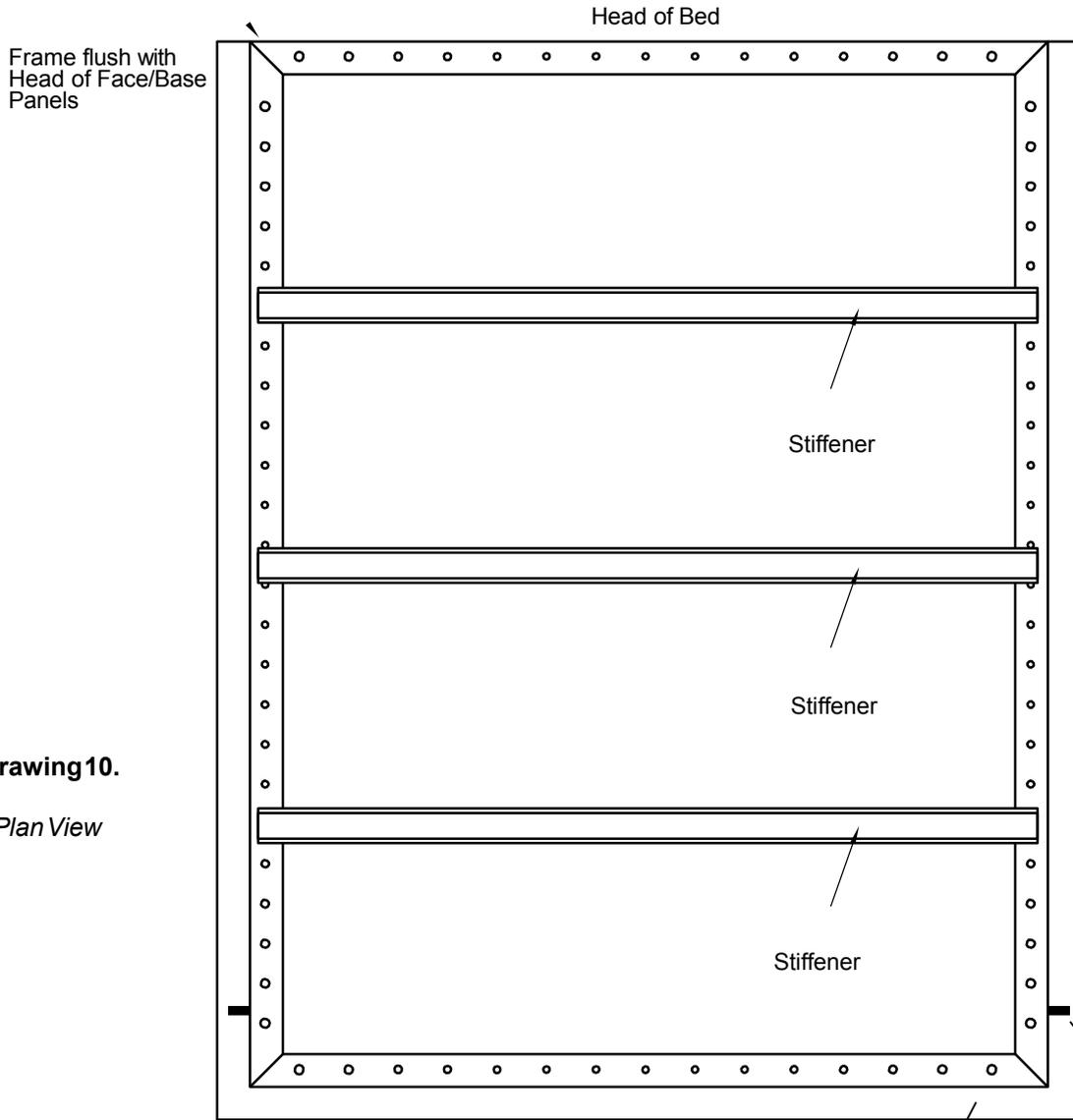


Left  
End Panel

Drawing 9

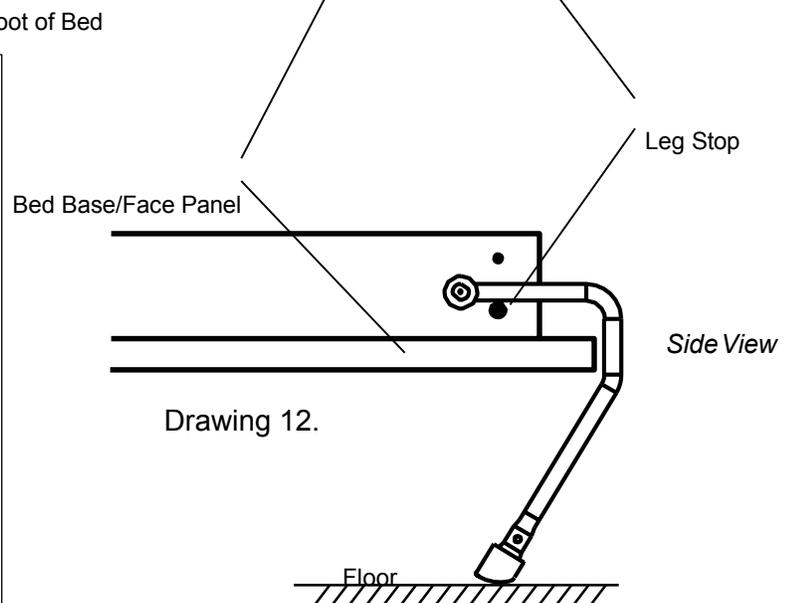
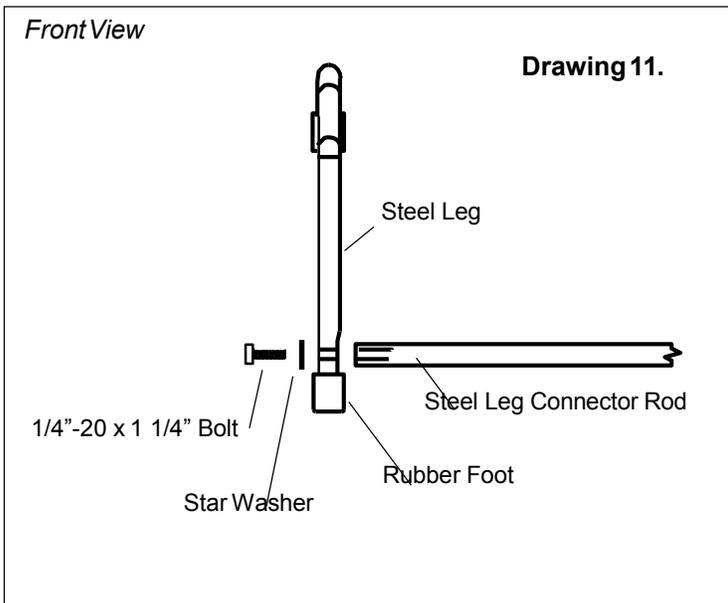
Right  
End Panel

# Assemble Steel Bed Frame to Face Panels



**Drawing 10.**

*Plan View*



## Assemble the Bed Face/Base Panels

Note: When fixing the Steel Frame to the Face/Base Panels you must use the 12mm Dome Screws supplied in the supplementary hardware bag by WallBeds Australia. Failure to do so may result in damage to the Face/Base Panels.

### **Step 1:**

Completely assemble the Steel Bed Frame. Use the small corner brackets and the 3/16" x 1/2" black bolts provided. (**Hardware Bag # 3**) To join the 4 outer steel frames together. Refer to Drawing 12 to properly place the leg stops at outer right and left bottom holes at the foot of the bed frame.

### **Step 2:**

Place the bed Face/Base Panels down on a non-scratch surface such as a carpet or blanket. Place a small washer between the two panels to create an equal gap. Place one near the top & one near the bottom. Ensure you remove these once you have secured the steel frame in place on each corner.

### **Step 3:**

Position the Steel Bed Frame on the bed Face/Base panels with the Head Frame section flush with the head end of the bed Face/Base Panels. (*Refer to Drawing 10.*) Place the Steel Bed Frame so it is centered on the bed Face/Base Panels; you will have approximately 24mm space from the edge of the bed frame to the panel edges right and left and at the bed foot.

To ensure the Steel Bed Frame remains square start fixing the frame to the Base/Face panel in each corner first at the head of the frame.

*It is recommended that you pre-drill the holes for all of the steel frame fixing screws. This will reduce the risk of any "bulging effect" of the timber thru the Base/Face panel.*

### **Step 4:**

Re check the measurements at the foot end of the Steel Bed Frame to ensure it is still square on the Face/Base panels. Once you have checked the measurements attach two screws to either side of all of the frame corners.

Remove the two washers then continue to fix in all of the Steel Bed Frame screws.

Note: It is very important to have the Bed Frame centered on the bed Base/Face panels. Any error will be noticed in the vertical sight lines when the bed is closed.

### **Step 5:**

Three steel stiffeners are provided for all beds. These notched stiffeners should be located and attached to divide the Steel Bed Frame length into four equal sections. Use caution not to damage bed Face/Base panels by putting screws in too far into the recessed areas.

### **Step 6:**

Attach the Nylon Web Strap approximately 457mm from the foot of the bed. Use one of the existing screw holes & screw that fixes the steel frame to the Base/Face panel. This strap will assist in securing the mattress when the bed is in the closed position.

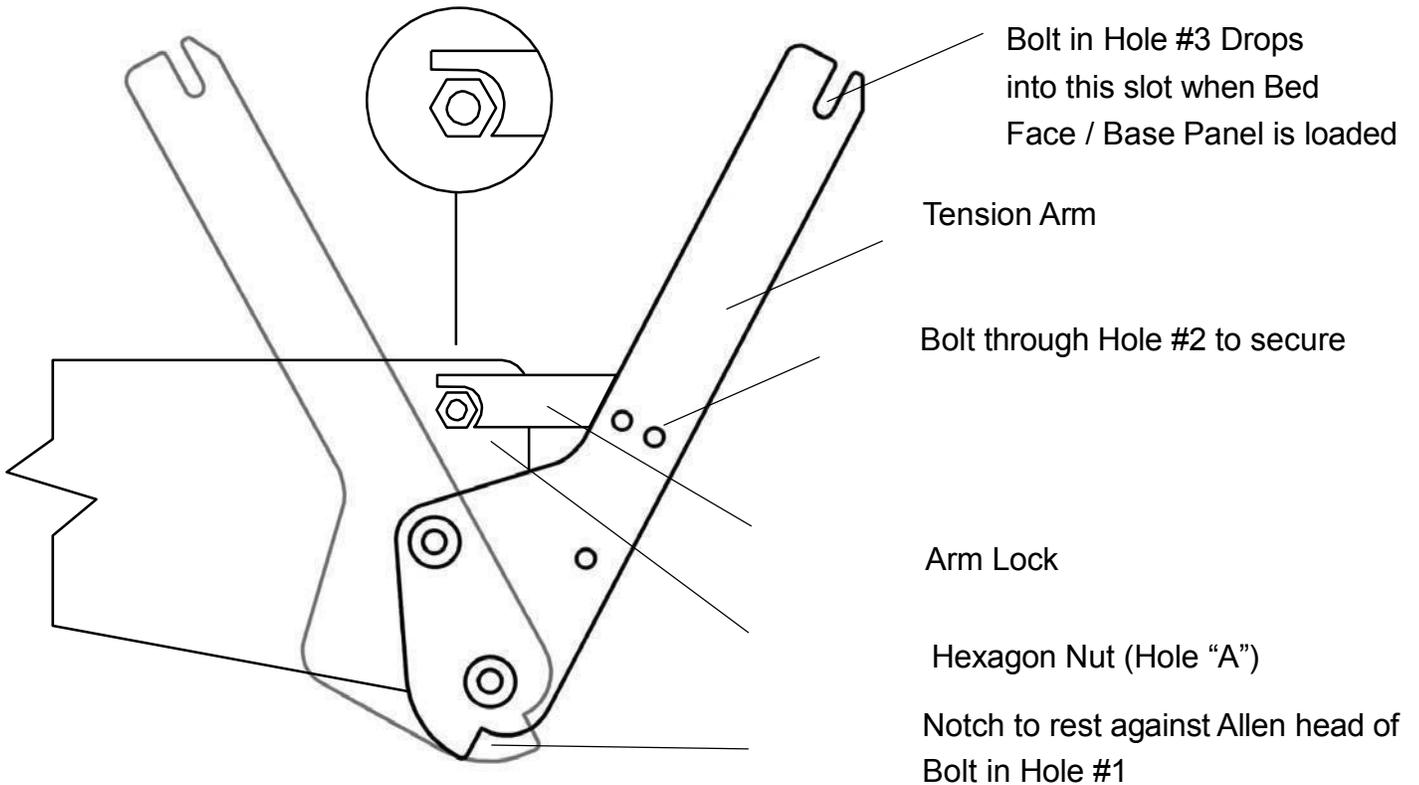
# Setting the Lift Mechanism

*WallBeds Australia Recommends Eye Protection Be Worn When Setting Spring Lift Mechanism*

Holding one foot against the bottom front edge of the side panel and using the PVC tube supplied, lever the tension arm out until you can set the arm lock to the hex nut at the hole A (see drawing 13.). This is the hex nut at the top front corner of the mechanism.

## **Caution:**

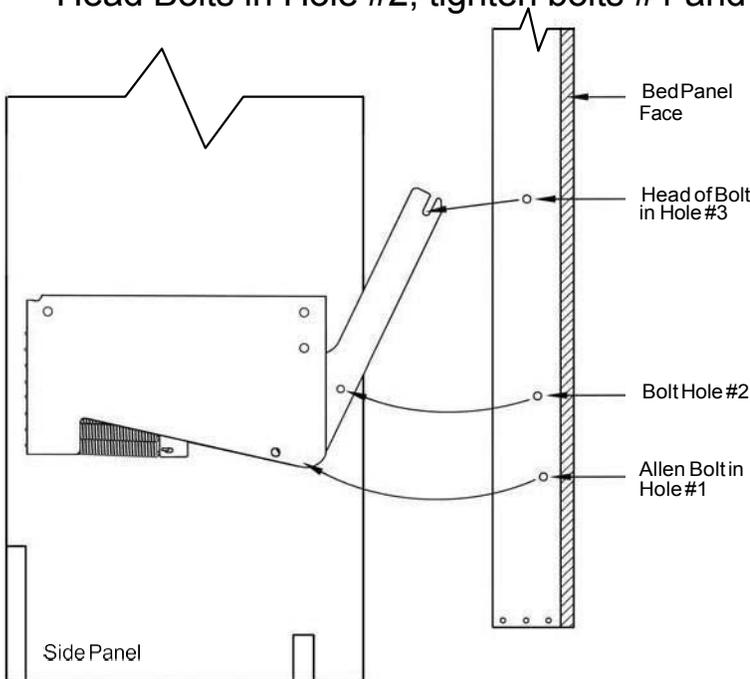
Have a helper assist in the setting of the lift mechanism and loading of the bed base/ face panel. Do not reach behind the tension arm when you are doing the setting procedure.



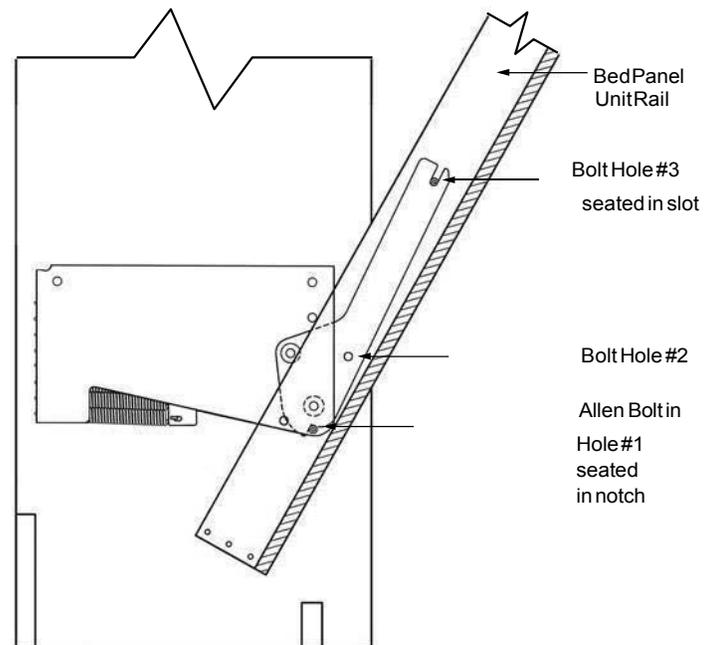
**Drawing13.**

## Install the Bed Base / Face Panel Unit

1. Insert two 5/16" x 3/4" Head Bolts from the outside through Hole #3 (see drawing 14) put 5/16" Nylock nuts on these bolts only until the nut is flush with the bolt end.
2. Insert the two Allen Head Bolts from the outside of the Frame through Hole #1 (see drawing 14) use 5/16" Nylock nuts and securely tighten. Stand the Bed / Base Panel in vertical position between the tension arms, lift evenly until the bolt in Hole #3 drops in the notched end of each tension bar.
3. Gently tilt the bed face toward you until the Allen Bolts in Hole #1 are completely seated in the bottom notch of the tension bar. Insert the remaining 5/16" x 3/4" Head Bolts in Hole #2, tighten bolts #1 and #2 securely.



Drawing 14.

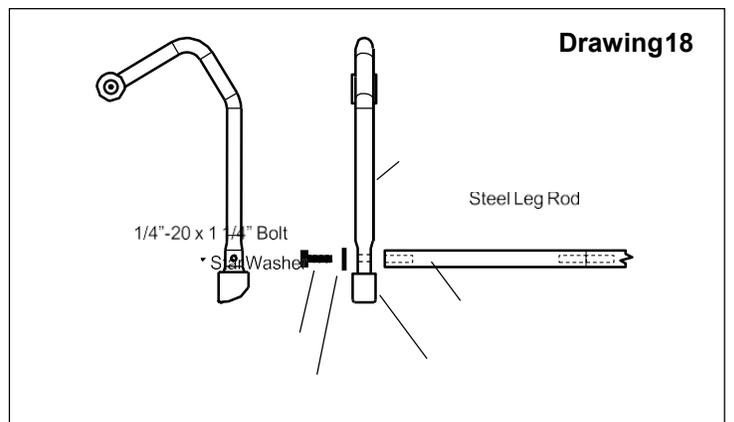
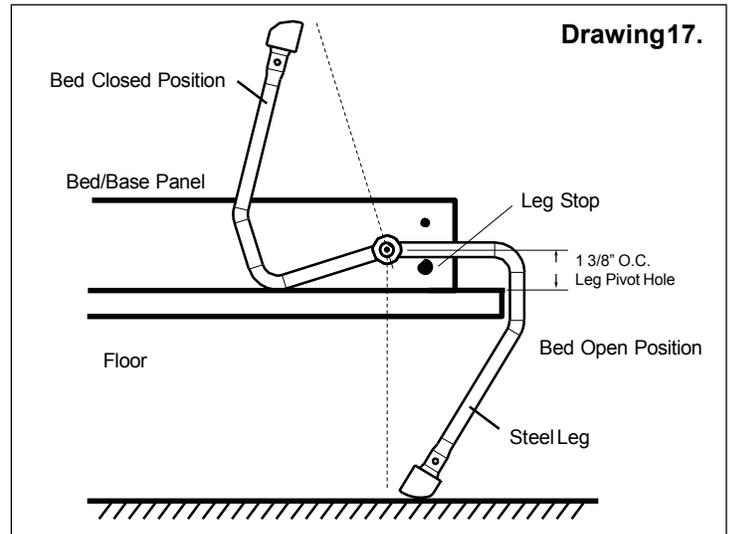
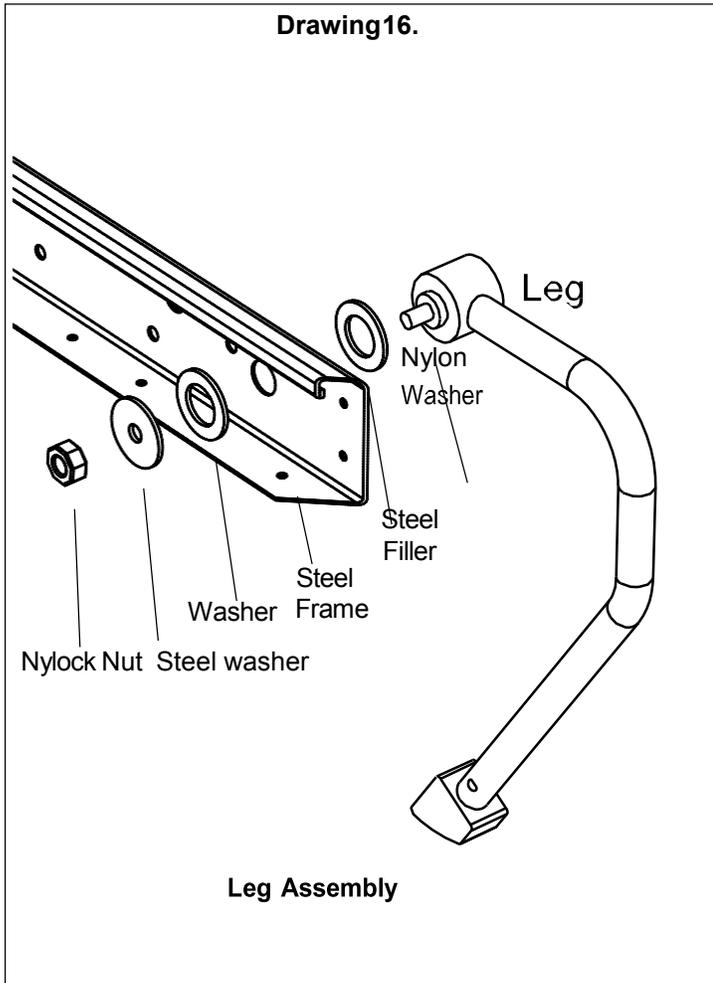


Drawing 15.

4. When all bolts are securely tightened, you may tilt the panel outward to approximately 45 degrees to release the arm locks. You will hear a click as they disengage.
5. Hold the Face Panel securely, Do Not let it slam shut. Balance is not achieved until the mattress is loaded in the bed.
6. Leveling of the bed cabinet is essential. Check the level both side to side and front to back. Proper leveling will facilitate proper closure and exact sight lines of the fit of the Face Panel to the Cabinet.

# Install Handles, Legs, Mechanism Covers, & Mattress

1. Position and secure the handle for ease of operation at your preferred height.
2. Install legs with the nylon washers on the inside and outside of the steel rails. Tighten the nylon nut to have a small amount of friction when leg assembly is rotated from the up to down position.



3. Install leg connector rod between legs and secure with 1/4" x 1 1/4" Hex head bolts and star washers. Be sure they are securely tightened so not to become loose.
4. Attach the powder coated spring mechanism covers in place - secure these with #8 x 1 1/4" black wood screws through the hole in each of the cover plates. These screws will fix into the timber side panels of the bed.
5. Install mattress and secure with previously installed Velcro straps. Cut the excess Velcro to leave about 305mm of overlap.

## Follow up to Initial Assembly

- Level or square problems with the Base / Face fitting into Cabinet. - *Nudge base of Cabinet at the floor level - or use packers under the End Panels.*
- If bed is too heavy to operate - *Remove Base / Face Panel and add springs.*
- Base / Face panel slams shut or is difficult to open - *You may decide to use one more or less spring(s) on the Lift Mechanism. To achieve this it will require you to remove the bed Face/ Base panel for ease of access to the springs.*

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**1300 663 660**