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# Wallbeds Northwest

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## ENDURA II CABINET PLANS AND INSTRUCTIONS

Thank you for purchasing your Wall Bed from Wallbeds Northwest.

When purchasing a complete "Endura II DIY Kit," most of the manufacturing work is already done for you. However, you will need to drill a few holes and possibly cut moulding on site (if your project comes with moulding), proper tools, and the ability to assemble the unit. Please carefully read the instructions and pay special attention to the safety guidelines

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**NOTE!** PLEASE READ THROUGH THE DIRECTIONS BEFORE YOU PURCHASE ANY OF THE FOLLOWING ITEMS. SOME ITEMS MAY NOT BE NEEDED.

### Tools Needed

- |   |                      |                             |
|---|----------------------|-----------------------------|
| ● LEVEL                                       | ● TAPE MEASURE       | ● CRESCENT WRENCH           |
| ● LADDER                                      | ● NEEDLE NOSE PLIERS | ● SLOTTED SCREW DRIVER      |
| ● STUD FINDER                                 | ● NAIL GUN OR        | ● PHILLIPS HEAD SCREWDRIVER |
| ● ELECTRIC DRILL                              | ● FINISHING NAILS    | ● 3/16" DRILL BIT           |
| ● Various Bits - #2Square<br>#2 & #3 Phillips | ● HAMMER             | ● MITER SAW-FOR MOULDING    |
|   | ● HEX Wrenches       |                             |

**\*\*Note: Some Pre-drilling is necessary for Confirmat Screws - 3/16 Bit.**

### NOTE!

**If you have ordered a unit that has Crown & Base Moulding it does not come pre-cut. You will need to cut it to fit onsite and will need a chop saw and nail gun or hammer with finishing nails.**

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# ENDURA II PARTS LIST

**NOTE;** There are extra parts provided for some of the following.

## PARTS LIST

1 Right & 1 Left Endura II Mechanism



200 - #10 Nickel Screws -5/8"



8 Hex Head Machine Screws



10 Rafix Connector Bolt



10 Rafix Connector



Right & Left Legs



80 Wood Screws 1 1/4"



10 Wood Screws 3"



28 Confirmat Screws



40 "L" Brackets

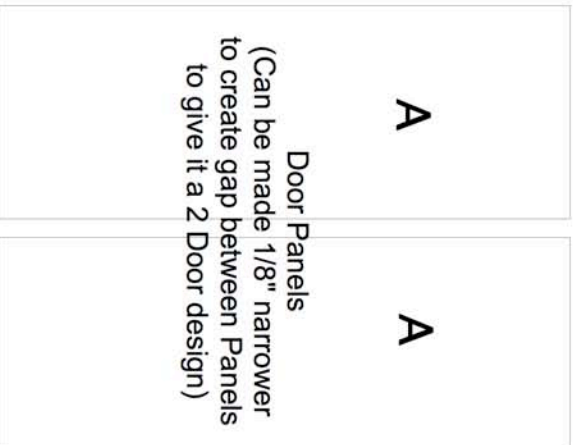


8 "Z" Brackets




## Standard Cut List for the Endura II Cabinet Mechanism using 3/4" Material

**Finished Material: 3/4" Melamine, MDF, Plywood, or Solid Wood**



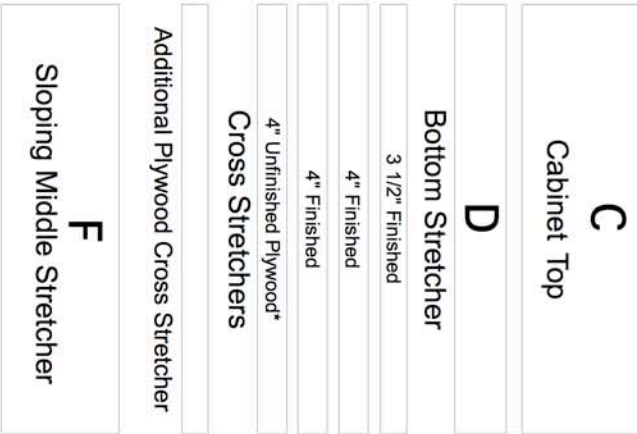
**A**

**B**




**B**

**E**




**C**


**D**



**F**




**F**




Additional Plywood Cross Stretcher

**3/4" Finished Plywood ONLY**



**G**

**H**



**I**

Foot Rail

**Unfinished 3/4" Plywood**

Cross Slats **J**

Slat between Legs **K**

NO. OF PIECES	#	DESCRIPTION	TWIN DIMENSIONS	FULL DIMENSIONS	QUEEN DIMENSIONS	MATERIAL	EDGE BANDING
1	A	Door Panel	43 1/8 X 77 3/4	29 1/16 X 77 3/4	32 1/16 X 82 3/4	3/4" FINISHED	2 SHORT / 2 LONG
2	A	Door Panels		16 X 80 7/8	16 X 85 7/8	3/4" FINISHED	2 SHORT/1 LONG
2	B	Verticals	16 X 80 7/8	16 X 80 7/8	16 X 85 7/8	3/4" FINISHED	1 LONG
1	C	Cabinet Top	16 X 43 1/2	16 X 58 1/2	16 X 64 1/2	3/4" FINISHED	1 LONG
1	D	Bottom Stretcher	7 X 43 1/2	7 X 58 1/2	7 X 64 1/2	3/4" FINISHED	1 LONG
3*	E	Back Cross Stretchers	4 X 43 1/2	4 X 58 1/2	4 X 64 1/2	2 - Finished / *1 Unfinished	1 LONG
1	E	Top Front Cross Stretcher	3 1/2 X 43 1/2	3 1/2 X 58 1/2	3 1/2 X 64 1/2	3/4" FINISHED	2 LONG
1	F	Angled Middle Stretcher	16 X 43 3/8	16 X 58 1/2	20 X 64 1/2	3/4" FINISHED	1 LONG
2	G	Bed Side Rails	6 X 75 3/4	6 X 75 3/4	6 X 80 3/4	3/4" PLYWOOD ONLY	2 SHORT / 1 LONG
1	H	Bed Foot Rail	6 X 39 1/4	6 X 54 1/4	6 X 60 1/4	3/4" PLYWOOD ONLY	1 LONG
1	I	Bed Head Rail	9 1/2 X 40 3/4	9 1/2 X 55 3/4	9 1/2 X 61 3/4	3/4" PLYWOOD ONLY	2 SHORT / 1 LONG
4	J	Slats	3 1/2 X 39 1/4	3 1/2 X 54 1/4	3 1/2 X 60 1/4	3/4" SCRAP PLYWOOD	3/4" PLYWOOD
1	K	Slat between Legs	3 1/2 X 37	3 1/2 X 52	3 1/2 X 60 1/4	3/4" SCRAP PLYWOOD	3/4" PLYWOOD
* Unfinished Plywood Top Back Stretcher is included only with projects made of Melamine and/or Thermofoil							

# Assembled View of Endura II Wallbed Cabinet

**For Melamine and/or Thermofoil Projects only;**  
Please note the addition of an Unfinished Plywood Top Stretcher . This is for extra strength when attaching the Wallbed Cabinet to the Wall through the Top Back Stretcher. After attaching the Wallbed to the Wall use the Matching Finished Top Back Stretcher to cover it. Use screws, glue, or finishing nails.

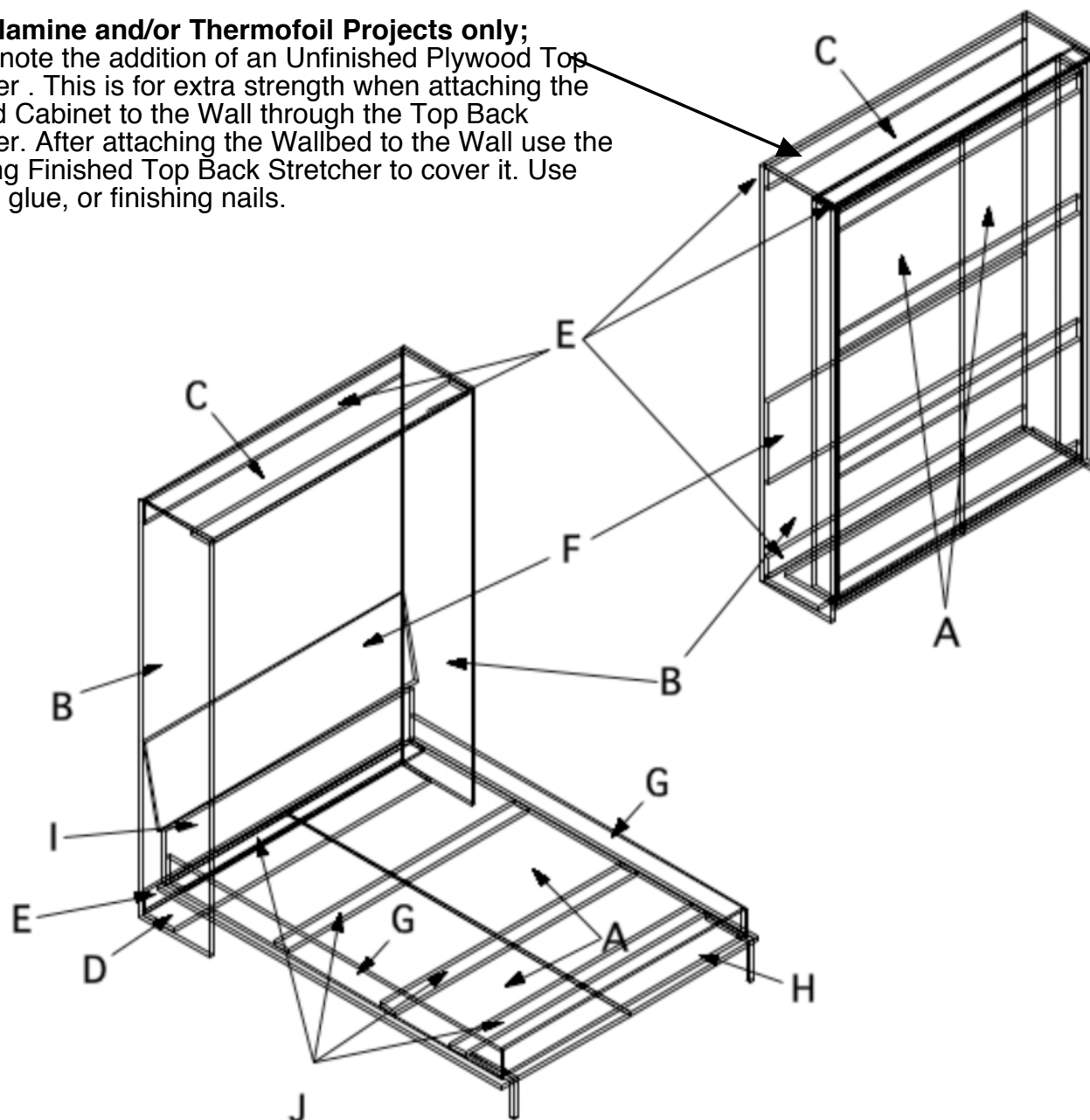


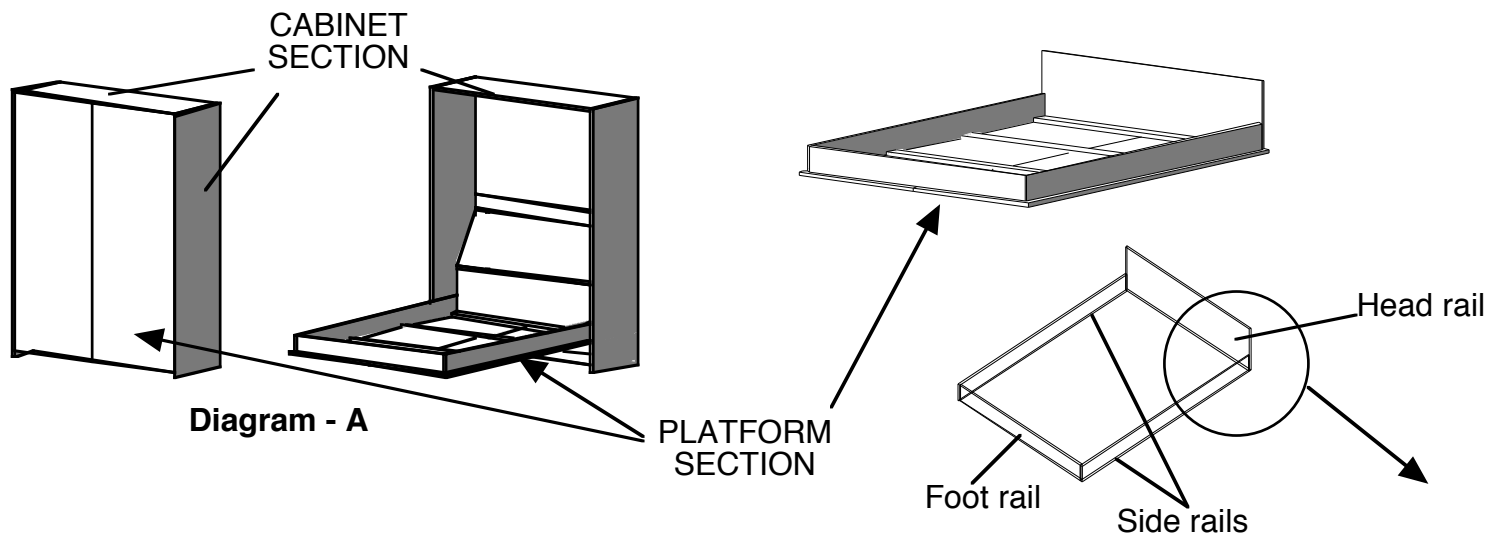
DIAGRAM 2

Dimensions	Width	Height	Depth	Open
Twin	45	80 7/8	16	82
Full	60	80 7/8	16	82
Queen	66	85 7/8	16	87

16" Deep Cabinet will accommodate a 10" thick Mattress

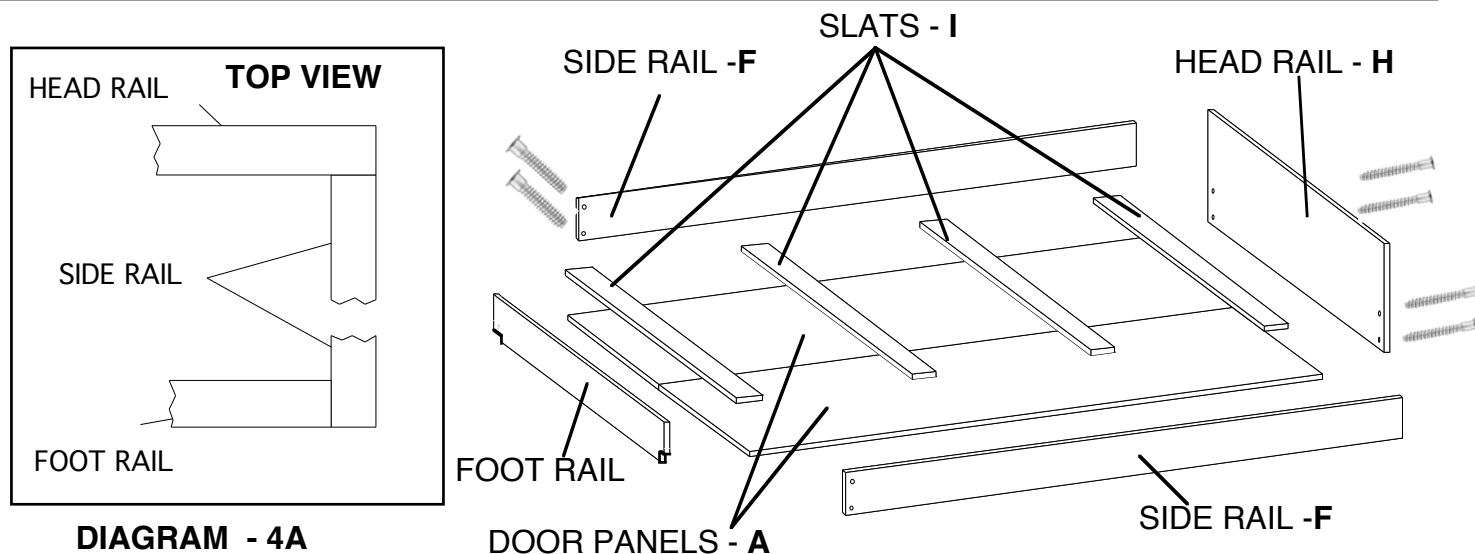
# THE PLATFORM ASSEMBLY

The platform is the part of the wall bed that holds the mattress and is pulled down from the wall. Start assembling the platform section. **The following example is for a full size bed.** Assembly for twin and queen is the same with the exception being that the twin uses one door panel.



**#1**

Lay the door panels on the carpet or a nonabrasive surface. Set the head, foot, side rails, and slats in their approximate positions. You will need Confirmat screws, 2 1/2" "L" brackets and 5/8" Nickel wood screws.



**#2**

Assemble the head rail and the foot rail to the side rails (rail assembly) with 2 Confirmat screws on each corner. The side rail ends butt up to the head rail and the foot rail butts up to the side rails. See diagram 4A. Drill a 3/16" pilot hole into all the end panels as the confirmat screws are not self-tapping.

**#3**

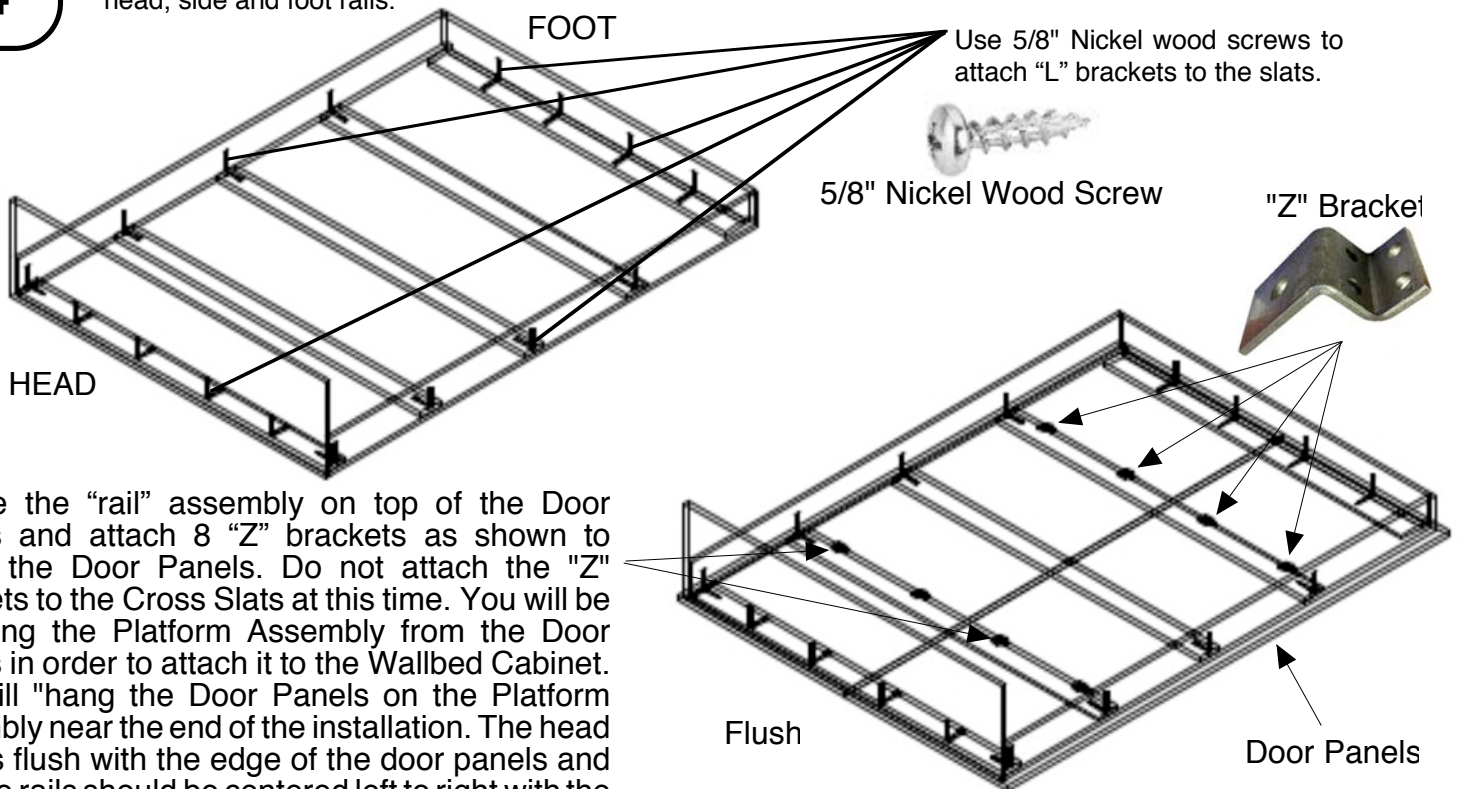
Set the Cross Slats horizontally as shown with one butted to the head rail and the **ONLY SHORT ONE** butted to the foot rail with the other two (or three) evenly spaced. Attach the "rail" assembly to the slats with the "L" brackets as shown.

**Note! Do Not yet Attach the Bed Face Panels to the Platform Frame.**



**#4**

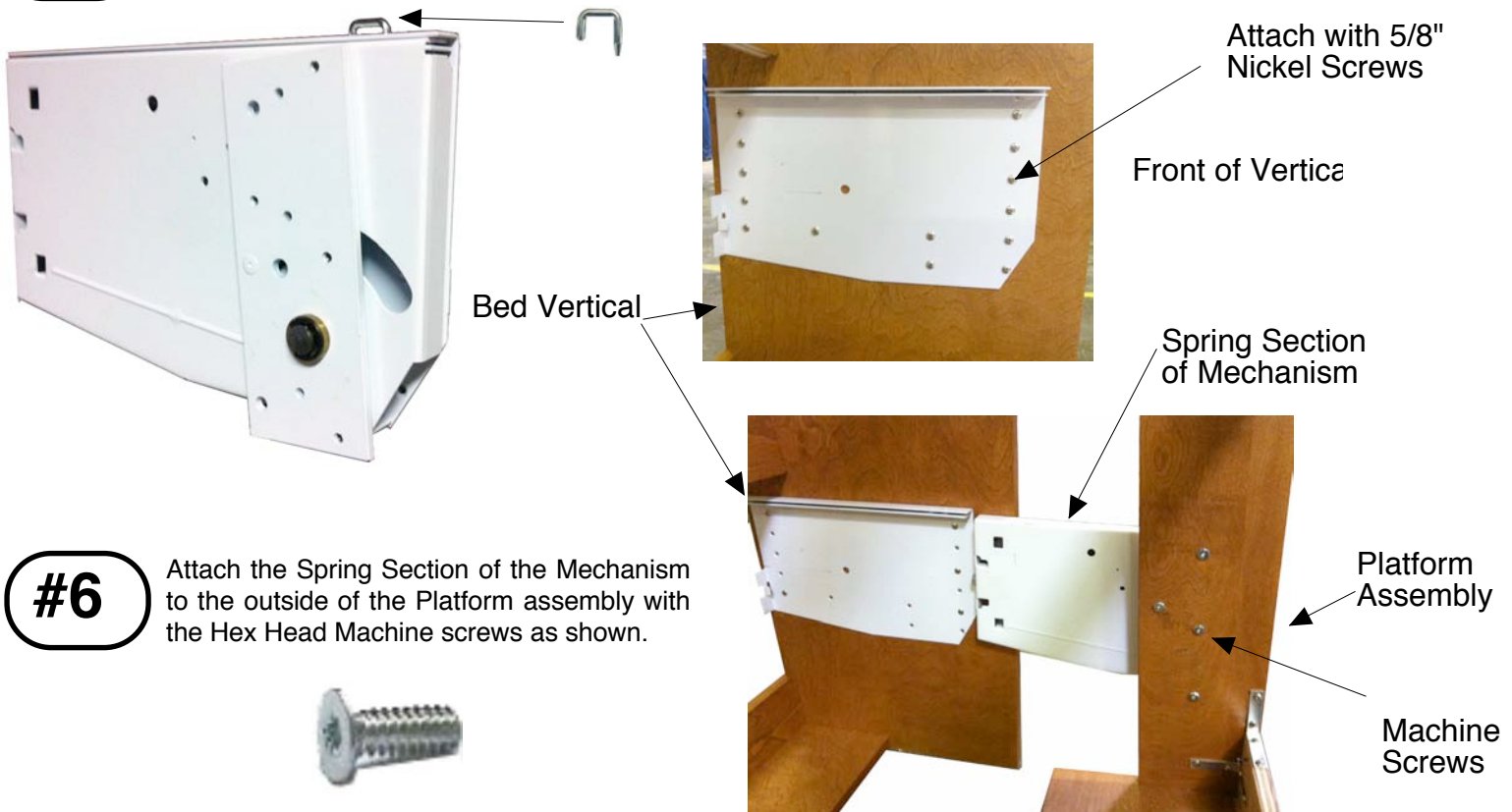
Attach "L" Brackets as shown using 5/8" Nickel wood screws. Use only 5/8" screws when assembling the head, side and foot rails.



Square the "rail" assembly on top of the Door Panels and attach 8 "Z" brackets as shown to ONLY the Door Panels. Do not attach the "Z" Brackets to the Cross Slats at this time. You will be removing the Platform Assembly from the Door Panels in order to attach it to the Wallbed Cabinet. You will "hang" the Door Panels on the Platform Assembly near the end of the installation. The head rail sits flush with the edge of the door panels and the side rails should be centered left to right with the door panels.

**#5**

Remove the Locking Pins on the Left and Right Mechanisms as shown. A flat head screwdriver works best. Separate the two sections and attach the Mounting Plate to the bed vertical with the 5/8" Nickel wood Screws as shown.



**#6**

Attach the Spring Section of the Mechanism to the outside of the Platform assembly with the Hex Head Machine screws as shown.



# THE CABINET ASSEMBLY

The cabinet assembly is the section that is attached to the wall and is what the platform folds into.

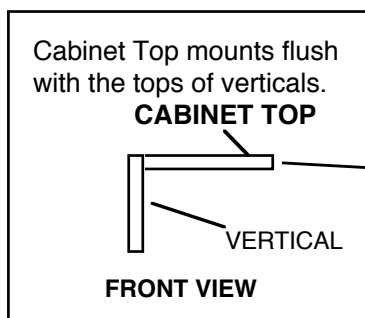
**#1**

Assemble the cabinet face down on the floor. Attach the Top Back Stretcher to the Cabinet Top and Bottom Back Stretcher to the Bottom Stretcher using Confirmat Screws. Attach the Cabinet Top and Bottom Stretcher to the Verticals with confirmat screws. Attach the Angled Middle Stretcher to the Bed Verticals with the Rafx Connectors. The Stretchers are mounted in between the Verticals as shown below. The Top Front Stretcher should not be mounted until the Platform assembly is installed. When using confirmat screws, a 3/16" pilot hole needs to be drilled through the verticals and into the horizontal parts.

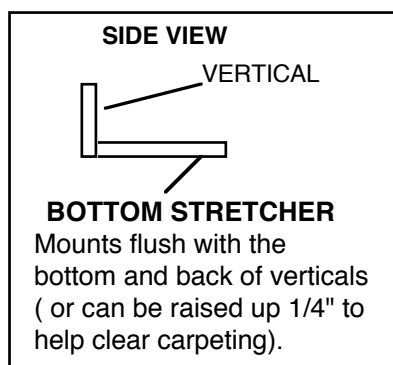
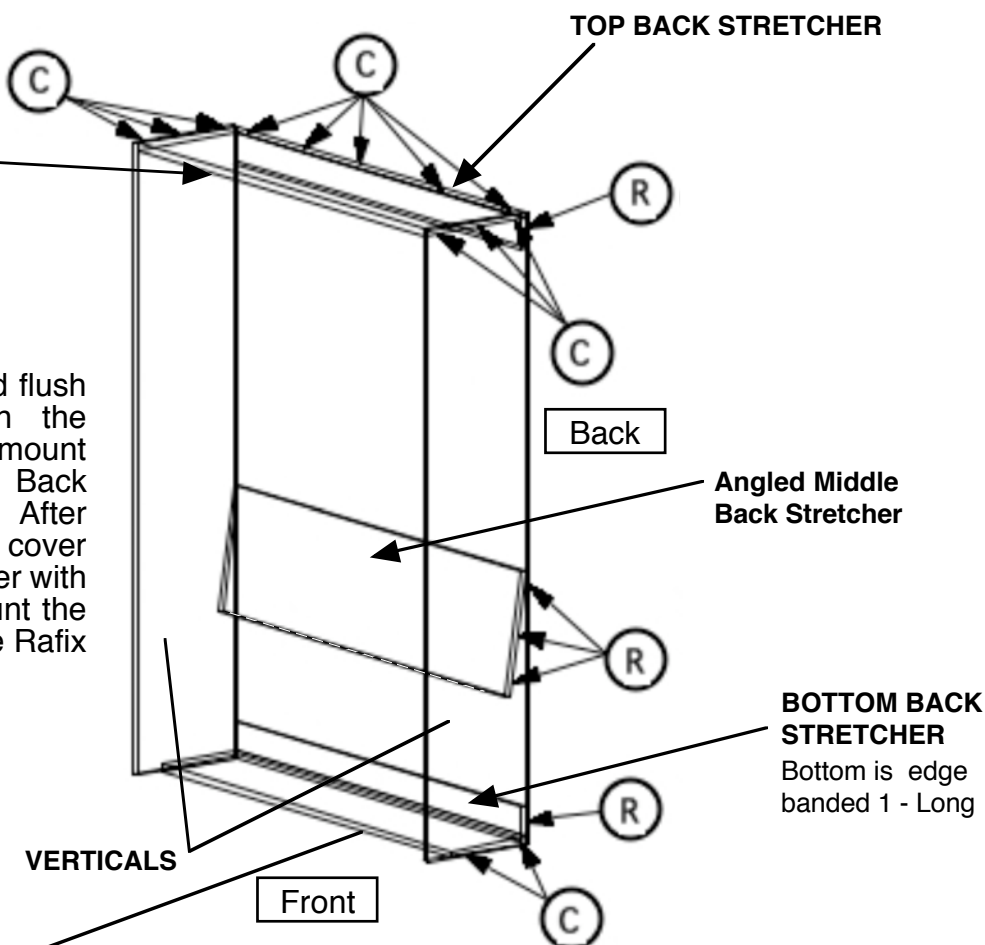
## ENDURA II CABINET

**(C)** Confirmat screws should be used in these locations.

**(R)** Rafx Connectors should be used in these locations.



All back stretchers are mounted flush with the back and between the verticals. For Melamine projects mount the Unfinished Plywood Top Back Stretcher to the Cabinet Top. After installing the cabinet to the wall, cover the Unfinished Plywood Stretcher with the matching finished one. Mount the Middle Back Stretcher using the Rafx Connectors.



**Pre-Drill a 3/16" Dia. x 1 1/2" deep Pilot Hole on all pieces requiring Confirmat Screws; Cabinet Top, Stretchers, Bottom Stretcher, Side Rails, & Foot Rail.**

**Confirmat Screw**



**Rafx Connector Parts**



## Installing the Cabinet to the Wall

**IMPORTANT! DO NOT MOUNT WALL BED INTO DRY WALL ONLY. IT MUST BE SECURELY FASTENED INTO ALL AVAILABLE STUDS.**

**#1**

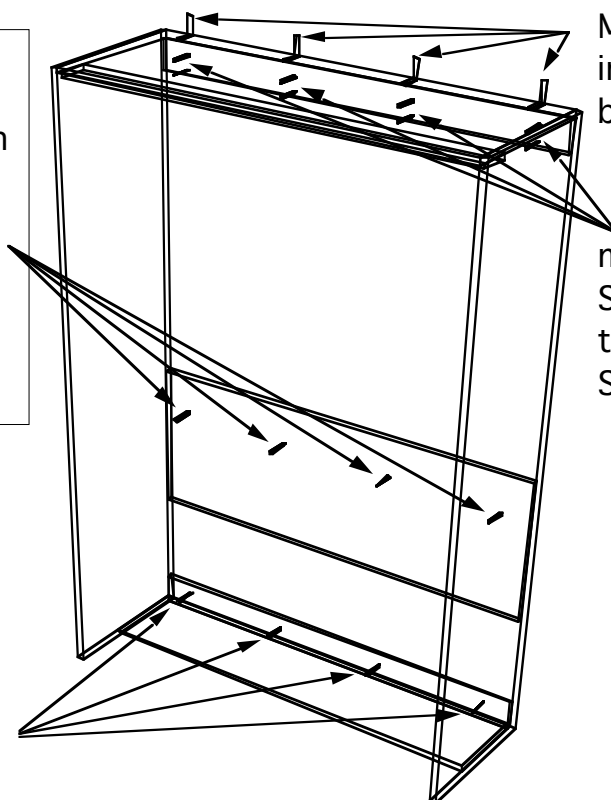
Position the cabinet against the wall where it is to be mounted. Make sure that it is square. Locate all the studs that are behind the cabinet. Mount the cabinet to wood studs with heavy duty 3"-4" wood screws. It is helpful to set the platform in the cabinet to check for square before mounting all the "L" brackets. To do this, attach 2 - "L" brackets to the top of the cabinet - one on the left and one on the right and secure to the wall with just 1 screw on each side. Follow the instructions below for attaching the platform and close the bed to check that everything is square. **(Caution! Do not operate the bed until it is completely secured to the wall.)** If it is, then secure firmly into all studs possible. If it is not, then pull the bed out and either reposition the top of cabinet left or right into the studs or shim the cabinet as needed. The wall bed must be mounted with large heavy duty screws with the "L" brackets on top of the Top Stretcher or through the Top Back Stretcher, or both. 2 to 4 additional screws should be put into each stud through the Top Back Stretcher, the Middle Stretcher (Except for the Angled Middle Stretcher) and the Bottom Stretcher. A twin should be attached to no less than two studs, full and queen should be three studs or more. Securing the Bed Cabinet to any side cabinets is also recommended for additional safety. Each of the Side Cabinets - if any - should also be attached to the studs in the wall in the same way as the Bed Cabinet. If you have a wall that does not have wood studs, then you must attach the Bed Cabinet securely with the appropriate Anchors.

**!Caution!**

**Proper installation & Usage procedures must be followed to prevent possible risk of injury or death! Wallbeds must be mounted properly and securely to the studs in the wall as per instructions. When operating the wallbed make sure that there is no one in or near the unit. When opening the wallbed make sure there is no one under it and when closing the wallbed make sure that all hands and extremities are clear of any "pinch" points.**

Mount 1-2  
Screws through  
the Middle  
Stretcher

**Optional:  
(Not recommended with  
Angled Middle Stretcher)**



Mount "L" Brackets  
into every stud  
behind the bed

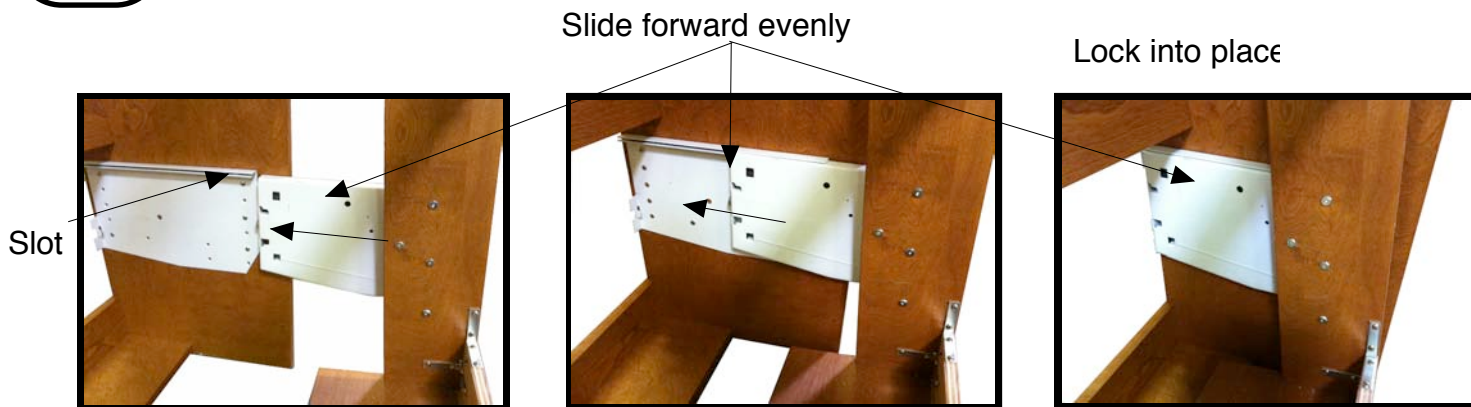
Or  
mount with  
Screws through  
the Top Back  
Stretcher

Mount 1-2 Screws through  
the Bottom Back Stretcher



# INSTALLING PLATFORM TO CABINET

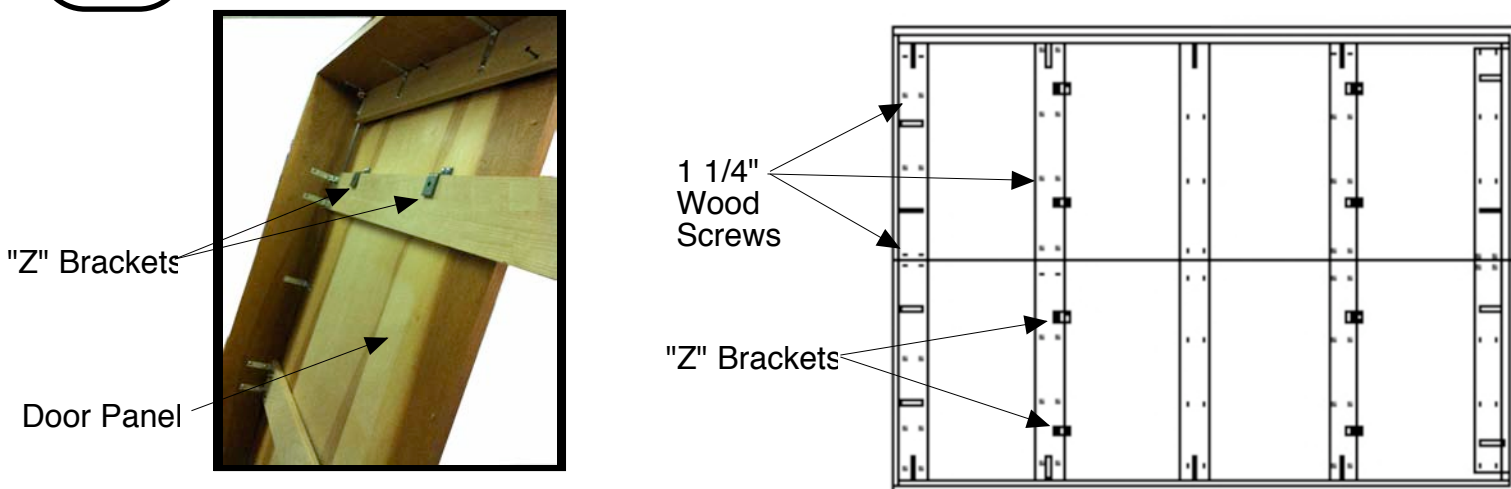
- #1** Set the Platform Section upright in front of the Wallbed Cabinet. (Note: The Front Door Panels should not be attached at this point). Slide the Platform into the Cabinet evenly making sure to align the slots on the mechanism as shown.



- #2** Replace the Locking Pin to secure the mechanism in place. Needle Nose or similar pliers help in this process.



- #3** Hang the Door Panels on the Cross Slats as shown and secure using 1 1/4" Wood Screws as shown in the diagram. After Securing the Door Panels to the Platform the "Z" Brackets can be removed.



**Caution!!!** Be careful not to drill through the Bed Door Panels. If you are using Rigid Thermofoil Doors do not put screws into both holes of the "L" Bracket when attaching Door Panel Faces. Usually the hole closest to the side rail should not be used. It is best to measure the face to determine which holes to avoid.

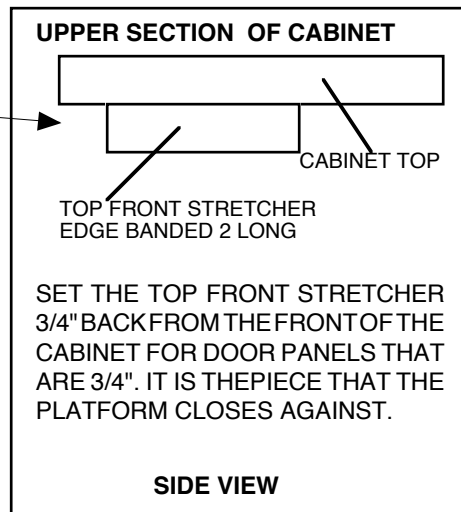
**#4**

Attach the legs to the platform with 5/8" Nickel screws provided as shown. Unscrew the Set Screw that keeps the leg from pulling completely out. Mount the Brackets through the notches in the Footrail, slide the legs back in and reinsert the Set Screw.

**#5**

Attach the Top Front Stretcher using 1 1/4" Wood Screws. Set the Stretcher back the same distance as the thickness of the Bed Face(Door Panels), which is usually 3/4". If doing a Shaker design it will be 1" from the front

3/4" Setback  
is typical



Attach 5 - 1 1/4" Screws from the Top

Front

Back

Bed Cabinet Side View

**#6**

Adjust the Mechanism if necessary. There is already a lot of tension on the bed, but if it is a heavier bed or you have a heavy mattress, you can adjust the mechanism and make the bed easier to operate. Use a 17mm open end wrench or crescent wrench to tighten the nut at the back of the mechanism. You can only tighten the mechanism, not loosen it.

Rear View - Adjustment Nut



Thank you for purchasing your wallbed from Wallbeds Northwest

If you have any questions, please  
contact us at Wallbeds Northwest Inc.

**Phone (425) 284-6692 Fax (425) 284-6695**

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