



Zoom-Bed Mechanism and Mattress Installation Instructions



Please take the time to review these instructions before you begin. During installation, follow all directions carefully, as skipping steps may cause damage to the mechanism. Should you have any questions while you are installing yours Zoom-Bed™, we **strongly encourage you** to call us at **(888) 211-1120** weekdays between the hours of 10am-5pm Eastern. We are here to help.

Rev. JULY 2019

Table of Contents

Page 2	Installation Notes – PLEASE READ
Page 3 - 8	Tools and Zoom-Bed Parts Checklist
Page 9	Before you begin – Flat screen TV installation
Page 10 - 17	Mechanism and Mattress Installation Instructions
Page 18	Remote Control User Guide
Page 19-20	Zoom-Bed Troubleshooting Guide

Installation Notes

Welcome to Zoom-Room™! This innovative design solution will impress all visitors, and provide a supremely comfortable, restful night's sleep to those tucked under its covers.

Our initial advice – take your time. The Zoom-Bed is cutting edge technology and deserves to be done right. If you have a problem, call us at **(888) 211-1120** during regular business hours. We'll walk you through the process.

Note 1: Dimensions in this document are for the Queen-Size Zoom-Room™.

Note 2: The installer should have experience with an electric drill and screwdriver. Make sure that the area where the Zoom-Bed will be placed is unobstructed, and that there is an electrical outlet easily accessible to the unit.

Note 3: Zoom-Beds will work on level, solid surface floors and low pile carpet with thin padding. High pile and obstacles such as area rugs will impede operation.

Note 4: You will need at least two people to install the Zoom-Bed Mechanism.

READ ALL INSTRUCTIONS FIRST: They will familiarize you with all the parts and the basic methodology of how your Zoom-Bed works. Non-observance of these instructions will invalidate the warranty.

Tools Required

- ☐ Padded Blankets (to lay out cabinet panels)
- ☐ Cordless Electric Drill with Philips nr.2 bit
- ☐ Hand screwdriver Philips nr.2
- ☐ 3/16" Drill bit
- ☐ Cable Clips (to secure wiring to cabinetry)
- ☐ Tape Measure
- ☐ Level
- ☐ Square
- ☐ Pencil
- ☐ Masking Tape
- ☐ Double sided Velcro
- ☐ Utility Knife
- ☐ Shims (Wood, Plastic)
- ☐ Carpenter Clamps (set of two)

Zoom-Room Parts Checklist

- ☐ 1 Left Side Motor (with blue tape)
- ☐ 1 Right Side Motor (with yellow tape)
- ☐ 1 Control Unit
- ☐ Manual Button (Optional addition upon request)
- ☐ IR Remote with Receiver. (2 AAA batteries)
- ☐ Power supply with power cord



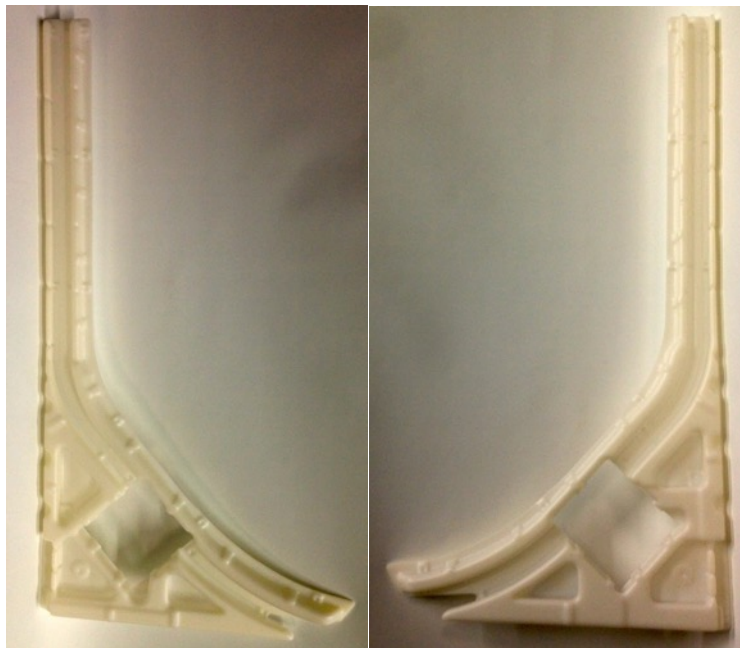
□ 2 Plastic top Drive Chain Guides



Right

Left

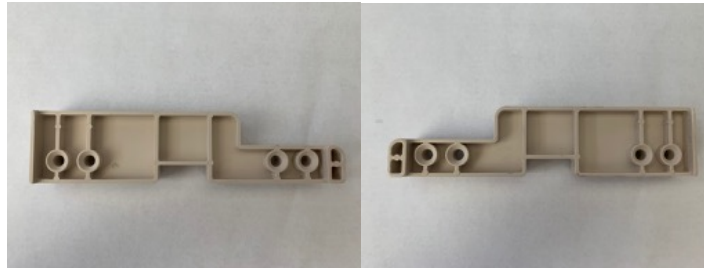
□ 2 Plastic bottom Drive Chain Guides



Right

Left

- 2 Stopper Sets – **Note:** two of the stoppers are already mounted on the chain system.



- 1 Extendable Carriage Unit



- 1 Drive Chain



- 1 Mattress with eight sleeves on bottom to be attached to the Carriage Unit Slats.



- 1 Hexagonal Drive Rod (attached to a dowel on the undercarriage – sometimes hard to find)

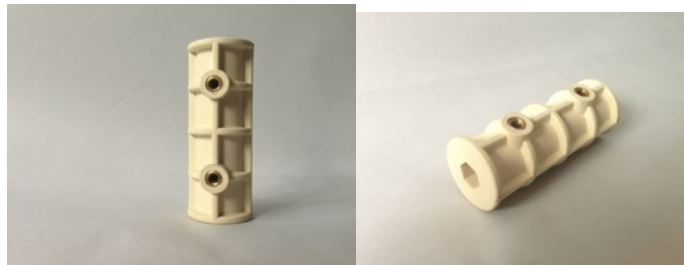


Side View



Top View

- 2 Hexagonal Rod Couplings (fastening screws in couplings included) located on the motors



- 2 Sets of Nylon Straps with 4 metal mounting brackets and 4 attachment pins and 2 plastic brackets. (Strap Support Beam is NOT included)



- Footboard Mounting Brackets 2 upper and 2 bottom



☐ Bolster Spacer, Left and Right



☐ 28 bowed Beech Wood Slats

- 24 regular Support Slats
- 6 Adjustable Slats



☐ 81 Mounting Screws:

- 62 - $\frac{3}{4}$ " Wood Screws
 - 40 - to secure Drive Chain Guide
 - 14 - to secure footboard fasteners (rounded head)
 - 4 - to secure Control Unit
 - 4 - to secure motors on rail guide (thick ones)
- 4 - $1\frac{1}{2}$ " Wood Screws
 - 4 - to secure strap support board
- 9 - 2" Wood Screws
 - 5 - to secure foot board support beam
 - 4 - to secure motors
- 4 - $2\frac{1}{2}$ " Wood Screws
 - 2 - to secure move out stops to motors
- 4 - $1\frac{1}{2}$ " Machine screws
 - 4 - to fasten Drive Train to carriage

Before You Begin – Flat Screen TV Installation

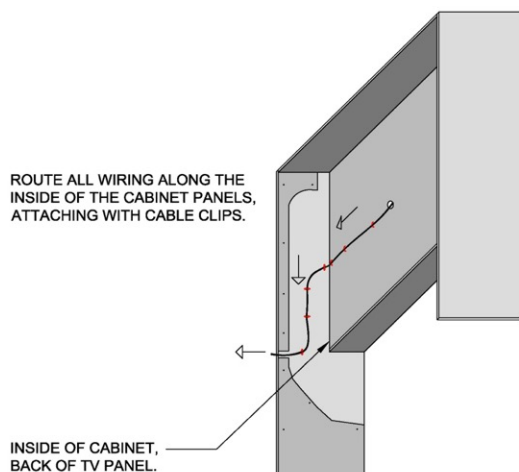
Once the cabinet is built, it is easier to install your flat screen TV (if you're going to hang one on the cabinet) before you install the Zoom-Bed. Note that it is still possible to hang the TV later, but it is easier when the bed mechanism is not in the way.

Before you install the mechanism, be sure to route all audio, video, and electrical wiring correctly.

Any and all wiring that is routed through the TV Panel (this requires the installer to drill a hole in the TV Panel) must be fixed to the inside panels using electrical tape or cable clips. (Wires can be routed either on the left side or the right side of the cabinet). If you plan to mount a television on the TV Panel, now is the time to drill a hole where you need it, and pass the wiring through.

Note: Be very careful to drill any hole where you are sure that it will be covered by the television after it is mounted.

Once all of the wiring is secured to the inside of the panels and routed correctly through the gap in the Bolsters (as shown), then you are ready to begin installing the Zoom-Bed Mechanism.



Installing the Mechanism and Mattress

Step One – Attach the Left and Right plastic Bottom Chain Guides to the internal side of the bolsters.

Use $\frac{3}{4}$ " wood screws. Screw through the dimpled areas in the plastic.

(tip: pre-drill the holes using a $\frac{1}{8}$ " drill bit first for ease of installation).

The bottom of the chain drive guides should be attached at 12" above the finished floor.

The vertical back of the guide rails should align with the back of the cabinet. Standard cabinet depth is 24".



12" Space is occupied by the accordion frame pictured above.

Step Two – Install 2 Top Chain Guides.

Aligning them vertically with the top of the Bottom Chain Guides.

Attached with $\frac{3}{4}$ " wood screws.

Screw through the dimpled areas in the plastic (tip: pre-drill the holes using a $\frac{1}{8}$ " drill bit first for ease of installation).



Step Three- Install bottom bolster Spacer

Connect two parts of the spacer together.

Aligned it with the bottom and front edge of the bolster.

Attach using four 1" screws.

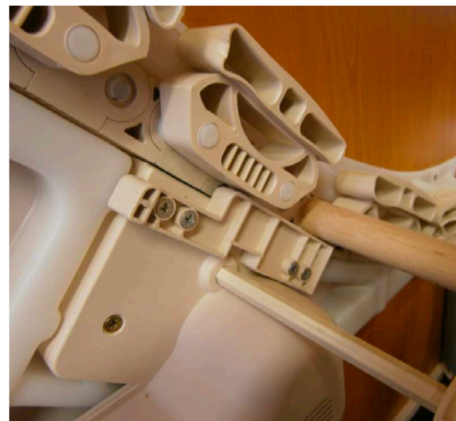
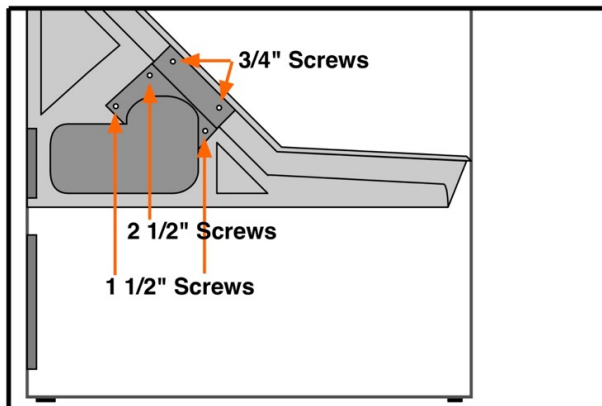


Step Four –Install the Left and Right Motors inside the square cutout in the Bottom Chain Guides.

Insert the - $\frac{3}{4}$ " thick wood screws on as indicate on the diagram.

Attach the back corner of the motor with 1-1/2" wood screws as indicated on the diagram.

The two 2-1/2" screws to be attached with the move out stopper in Step 14.

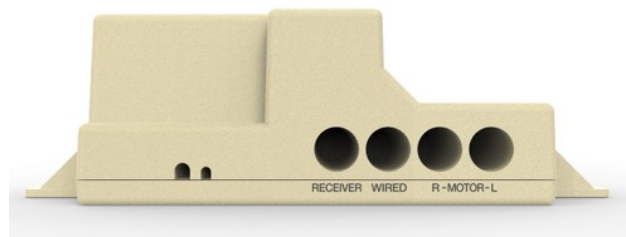


Step Five- Install the Strap Support Beam (not in the mechanism box).

(58-½" by 3-¾" by ¾" made of plywood or solid wood. Do NOT use Mdf or Particle Board)
Attach the plastic brackets to the back of the strap support beam 6" away from the sides
Place the strap support beam in the back of the bottom plastic guides.
Attached with screws for the back.

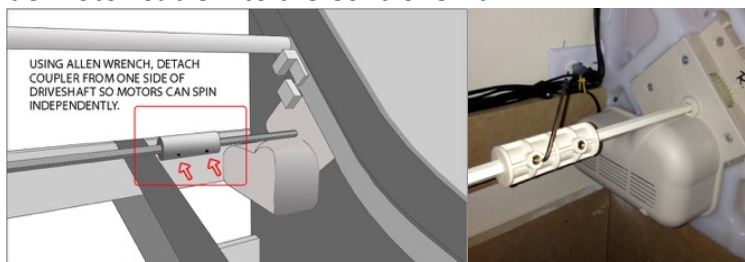


Step Six - Mount the Control Unit to either the left or right inside panel behind the Removable Headboard as close as possible to the front of the cabinet and the bottom of the TV panel (so you can comfortably connect the Motors and IR Receiver), using 4 – ¾" wood screws. Make sure the cable inputs on the control unit are facing up. **The control unit must be accessible when the bed is in the closed position to enable future servicing.**



Step Seven - Insert the Power Cord of the Control Unit into your wall socket, channel the cord through the gap in the bolsters behind the plastic drive chain guides, and then connect only one of the motors to the control unit. Connect the infrared receiver to the control unit. Install the batteries in the remote.

Step Eight - Install the Hex rod. Using a 2.5 mm Allen wrench, loosen the Drive Shaft Coupling of one of the motors. Connect by sliding the coupling over and tightening. Use the remote to spin the motor so the hex rod sides align with the smaller hex rod on the other motor. Reposition the other coupling over the rod and tighten it. Plug the other side Motor Cable into the Control Unit.



Step Nine - Secure the black Infrared Receiver in an unobstructed location with two-sided velcro. Make sure the remote transmits to the receiver before securing the location. The IR Receiver location and routing of its cable should be pre-planned in your cabinet design. Make sure that if you mount the receiver behind the headboard the front shiny part (Infrared Receiver Window) is facing forward so it will be able to receive the signal from the remote.



Step Ten - Open the extendable carriage system in front of the Zoom-Bed Cabinet. Unroll and place the chain system on top of the carriage system. Fasten the chain to the under carriage at the footboard end using the 4 – 1 ½” machine screws. (TIP: Install the closest out screw first).



Step Eleven – Install the wood slats in the rubber “slots” arch up towards the ceiling, so they support and add bounce to the mattress. Slat positions (represented by the slots) are counted from the footboard end of the bed:

M- space to attach the mattress to the chain. Leave it empty for now it empty.

FB	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	CABINET
		M			M		M						M		M					M					M		M				

The above slat position can vary slightly, and the mattress position can be adjusted somewhat.

Hint: *Pull at the center of the double rubber slots on the carriage to more easily insert slats.*

Note: The “Adjustable” slats are double slats that have rubber adjustment sliders to make that slat more or less flexible. They can be placed where you want to have more support, like below the neck and lower back.



To adjust the bed firmness, slide the plastic tabs on the adjustable slats inward to make the bed softer and outward to make the bed firmer. Equally spaced tabs offer a “neutral” firmness to the bed.

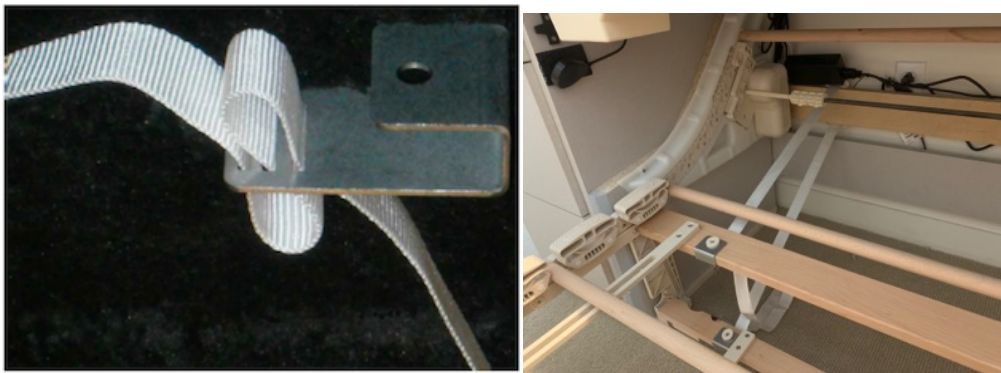
Step Twelve - Once the undercarriage and chain are connected, insert the top of the chain system into the bottom of the Rail Guides **simultaneously**, until they are evenly engaging the motor gears. Press the remote UP button to initiate the mechanism being pulled in for approximately 8 inches. Make sure both sides of the mechanism travel in unison and they are even. Perform a test run by closing the bed.

Note: Until the footboard is installed, do not completely collapse / close the accordion carriage system inside the cabinet.

Step Thirteen - **Attach the undercarriage Nylon Straps to the Strap Support Beam.**

1. Loop the nylon strap through the top metal bracket first.
2. Slide the metal brackets on the top uppermost cross beam of the Undercarriage facing back (at the “head” of the bed) and secure them by inserting the provided plastic pins from the top into the hole.
3. Loop the strap behind the Strap Support Beam through the plastic bracket and back to the bottom metal bracket.
4. Loop the end of the straps through the bottom metal brackets and leave the straps a little loose at this moment.
5. Secure by inserting the provided plastic pins from the top into the hole

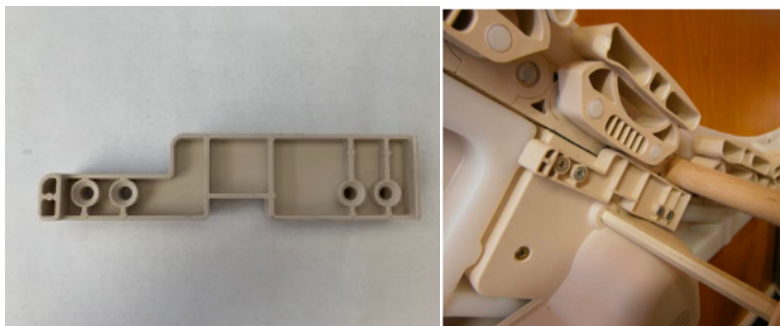
The purpose of the straps is to allow the mechanism to properly unfold and keep the bed from extending past the cabinet.



Step Fourteen- Mount Move Out Stoppers on to the left and right motors..

Align the holes on the stopper with the motor mounting holes using 2 ½” long screws.

Attach all pieces together.



Step Fifteen- Make sure the carriage system is unobstructed and test the bed using the remote.

- ☐ **To open your Zoom-Bed:** Point remote at infrared receiver and press and hold the down arrow. Release the button when the top of the bed mattress reaches the front of the cabinet.
- ☐ **To close your Zoom-Bed:** Point remote at infrared receiver press and hold the up arrow. Release the button just before the Foot Board reaches the cabinet. Tap the button once more to finish closing.

Make sure you have a clear line of site to the infrared receiver and that if it is hidden behind the headboard the front shiny part (infrared receiver window) is facing forward to be able to receive the signal from the remote.

Step Sixteen- Adjust the Nylon Undercarriage Straps. Once the bed is open and the chain and motor stoppers are touching. Tighten the Nylon Straps until they are tight and there is no slack and all the legs of the undercarriage are at 90 degree angle to the floor.

Step Seventeen – Mount the Footboard. There are two ways to attach the footboard to the undercarriage system.

1. Using the Footboard attachment brackets- if you don't use the drawer.

Please follow these instructions carefully, as this is the most intricate part of the installation. **Use Page 16 as your guide and write down your measurements correctly.** Check the style of overlay of your custom cabinetry so the footboard aligns properly with the rest of the cabinetry. Remember that you attach the footboard to the Carriage Unit which is a floating frame, and the appearance may vary.

- ☐ Put your Removable Headboard on and secure in place. Ensure your cabinet is level and plumb.
- ☐ Close the bed and place the footboard in front of the bed.
- ☐ Fasten the footboard to the Carriage Unit using the sliding connectors located on the foot end of the carriage system. Make sure your footboard has clearance above the floor surface. Depending on the floor surface allow for ½" to 1" gap for proper operation. It is not recommended to combine the footboard and headboard. Use ¾" screws.
- ☐ Use page 16 as your guide.

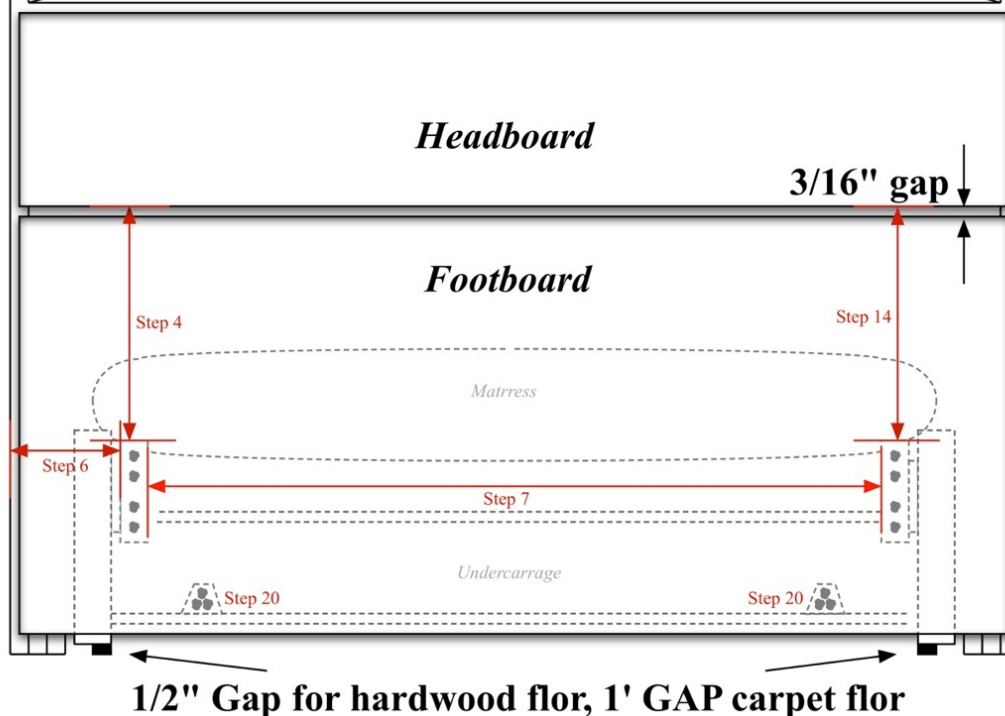
Measurements are for a Queen footboard with dimensions of 23-1/4" H x 61-7/8" W (on wood or flat solid floors). This may vary with other flooring types (pile carpet, tile, etc.). Measurements for custom footboards may also vary. Footboard (plus any support to relieve bowing) should not weigh more than 33 lbs. total. It is not recommended to combine the footboard and headboard.

- ☐ Use the remote to close the Zoom-Room and test if your measurements align the footboard to the headboard of the cabinet. If needed, reposition sliding connectors. Complete fastening the connectors.
- ☐ When the Footboard is installed, secure it to the Carriage System by fastening the 2 triangular L brackets located underneath the bed next to the Footboard. Use 6 – ¾" screws. (Additional wide "L" brackets can be added to secure the top of the carriage system to the footboard if needed).



Templet to properly measure and mount your Footboard

1. Close the bed completely
2. Install the headboard
3. Check your style of overlay for your cabinet doors
4. Measure from the bottom of your headboard to the top of the mounting bracket
5. Calculate $3/16"$ for the gap between the footboard and headboard
6. Measure from the left edge of cabinet to the left side of the mounting bracket
7. Measure the space between the mounting brackets. It should be $50 1/2"$
8. Using the templet provided right down your measurements
9. Use masking tape and place it on the footboard a proximately where the mounting bracket will go
10. Slide left mounting bracket off the frame and place it on the footboard
11. Mark the 4 hole's, take the bracket off, and using a $3/16"$ drill bit, carefully pre drill going $1/2"$ inside
12. Using provided screws attach left mounting bracket to the footboard
13. To mount the right bracket take measurement from step 7 and mark it on the footboard
14. Repeat step 4. The measurement might be a little different.
15. Repeat step 9,10 and 11
16. Open the bed slightly and slide the footboard onto the accordion frame
17. Close the bed completely and check the reveals between the footboard, the headboard as well as on the sides
18. Make required adjustments in necessary
19. Open the bed
20. Using 6 provided screws attach the footboard to the lower brackets mounted on the bottom of the under carriage.



2. Mount the Footboard using the Drawer Box.

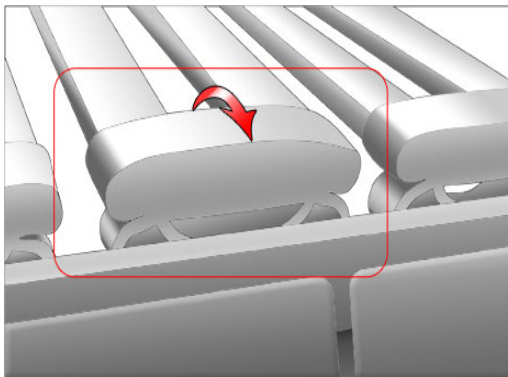
Attached the footboard to the drawer box with 6 screws and attach the wheel bracket to the bottom inside of the footboard.

Please follow these instructions carefully, as this is the most intricate part of the installation. **Use Page 16 as your guide and write down your measurements correctly.** Check the style of overlay of your custom cabinetry so the footboard aligns properly with the rest of the cabinetry. Remember that you attach the footboard to the Carriage Unit which is a floating frame, and the appearance may vary.



Step Eighteen- Install the Slats into the Mattress.

Slide the 8 leftover single wood slats into sleeves located on the bottom part of the mattress cover and attach the mattress to the mechanism. Insert the mattress slats in the corresponding slots in the chain.

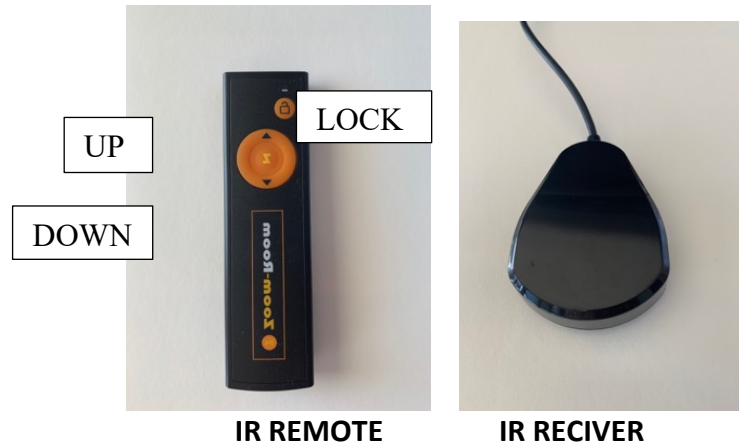


You've finished your Zoom-bed installation. Congratulation.

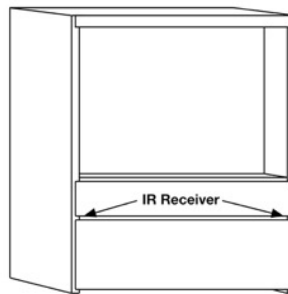
Call (888) 211-1120 if you have any questions



Zoom-Bed Remote Control User Guide



1. Make sure there are 2 AAA batteries installed in the Remote light is working, and that the Control Unit is plugged into a working outlet. And the light indicator on the
2. Make sure the IR Receiver has a clear line of sight to the remote control. The IR Receiver must be placed in an unobscured location for direct line of sight. Most often it is placed behind the Footboard and Headboard at the gap between them.



3. Use the “Up” arrow (the arrow pointing away from you) and the “Down” arrow (the arrow facing towards you) to operate the bed by pointing the remote towards the IR receiver and pressing and holding the button. The button has to stay pressed to operate the bed. Once you lift the finger off the button, the bed will stop.
3. The Child-Safety-Lock prevents the mechanism from operating. To lock or unlock the bed remote, press the round button “Ø” on top of the remote and hold for 10 seconds. You will notice the LED light on the Remote will blink a few times, and then you will hear a faint double beep. Let go of the “Ø” button and the bed will be locked.
4. To deactivate this feature, simply follow the steps above again: press the “Ø” and hold for approximately 10 seconds. The bed will then operate normally

TROUBLESHOOTING GUIDE

Call Zoom-Room at (888) 211-1120 for Assistance

The Bed Does Not Work

1. Check that all of the following are true:
 - a. The bed is plugged in to an electrical power source.
 - b. The outlet that the bed is plugged into has electrical power.
2. Place new batteries in the remote control.
3. If none of the above steps are successful call (888) 211-1120 for technical assistance.

Mechanism Is Out Of Alignment

Some indications that your mechanism may be out of alignment are:

- One side of the footboard contacts the cabinet before the opposite side (Footboard is crooked).
- Stoppers on both sides of the mechanism do not touch at the same time.

To verify mechanism misalignment:

1. Remove the headboard so that you may observe the motor area inside the cabinet. If your headboard is not easily removable you may observe the motor area through the space between the headboard and mattress.
2. Using the remote open the bed until there is approximately 1" distance between the chain mounted and motor mounted out motion stoppers. The out motion stoppers are located on the left and right chain systems and on both the left and right motors. (See red parts in photo below)
3. Compare the distance between the chain mounted stoppers and the motor mounted stoppers on the left and right motors. The distance should be within ¼" of each other. If the gaps between the left and right stoppers differ by more than ¼", then the Chain System must be realigned.

The Way to Realign the Mechanism is:

1. Detach the Straps and remove them from the dowel on the Carriage System.
2. Remove the Motor Mounted Stoppers. **Do not remove the stoppers attached to the Chains.**
3. Using the remote move the bed out until the chains disengage from the motors.
4. Insert the top of the chain system into the bottom of the Rail Guides on both sides **simultaneously**, until they engage the motor gears. Use the remote to operate the motors to initiate the mechanism being pulled in and run for approximately 8 inches. Make sure both sides of the mechanism travel in unison and evenly in the Rail Guides. * **Note: Ensure that the left and right sides of the chain system are traveling in the rail guides within ¼" of each other.**
5. The left and right sides of the Chain System must be traveling in the Rail Guides within ¼" of each other. If the Chain System is not traveling evenly repeat Steps #3 & #4
6. When you have achieved proper alignment refasten the Motor Mounted Stoppers to the top corner of the motor nearest the track of the rail guide.
7. Reattach the Straps around the first dowel of the Accordion Frame and around the Strap Support Beam.
8. If you need clarification or continue to have problems call (888) 211-1120 for technical assistance

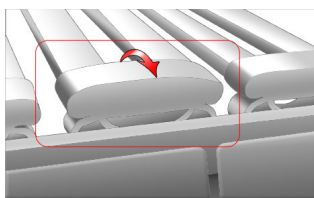
Mattress is causing the Footboard to Bow

If the Footboard is bowing excessively when the mechanism is closed, this is because the Mattress is applying too much pressure to it. If this is happening, follow these steps:

1. Check to make sure that the Footboard Reinforcement Beam is correctly attached with 2" wood screws centered horizontally, 2" below the top of the Footboard. See Step 12 of the Installation Manual.
2. Make sure that the Mattress Sleeves and Slats are positioned properly. See Step 13 of the Installation Manual.
3. If the Mattress is still causing the Footboard to bow excessively, you can reposition the Slats in Sleeve position B, C, and D, moving one or more to the next Slat position up, using the chart in Step 13 as a guide. For example, move Sleeve Designated Slat B from position 4 to position 3, closer to the Headboard. This will help to pull the mattress closer to the cabinet, thereby relieving the amount of pressure that the mattress applies to the Footboard.

Removing Slats from Slat Cups

If you are making adjustments to the bed, you may find it necessary to remove Slats from the Slat Cups. To do this, firmly pull outward on the middle of the Slat Cup, and pull the Slat out of the cavity, as shown below.



Adjust the motor circuit cutout rating:

1. Remove the 5 screws from the control unit cover.
2. Remove the circuit board and turn it over. (Use caution not to damage the wiring attaching the circuit board to the control unit.)
3. Using a small screwdriver adjust the arrows of both dials to the 3 position. (Do not turn past the 3 position as this will cause damage to the motors.)
4. Replace the circuit board and the cover.

