



Instructions for the Electric Hospital Bed



Assembling the Universal Bed Ends

1. Stand the headboard as close to the headspring as possible.
2. With one hand, grasp the headspring frame and raise it until the rivets on the corner plates of the spring are at the correct height to fit into the corner locks on the headboard.
3. Tilt the headboard backward slightly and the rivets should slide into the corner locks more easily.
4. When the headboard is returned into its full upright position, the headboard will lock into place.
5. Repeat the same procedure for the foot end section.

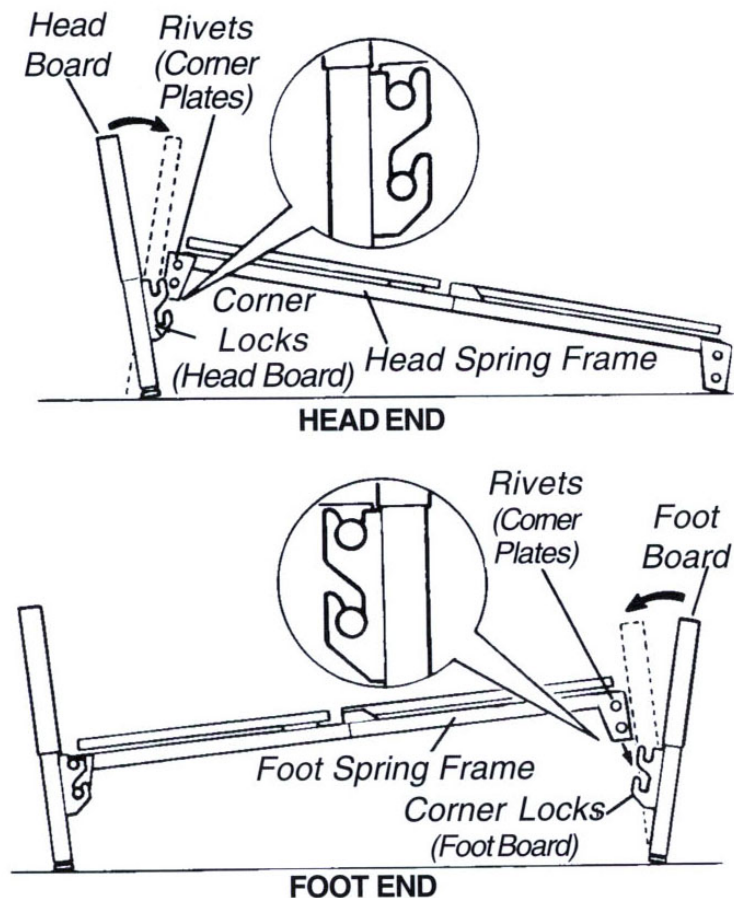
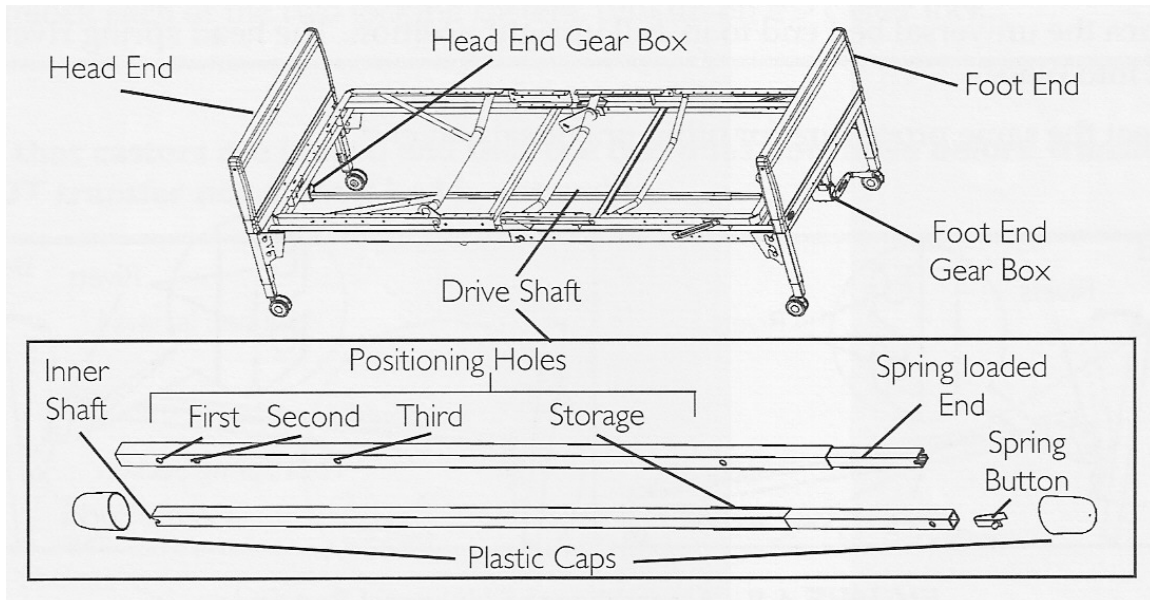


FIGURE 6 - ASSEMBLING THE BED ENDS

Assembling the Drive Shaft

1. Remove the plastic caps from each end of the drive shaft.
2. Press spring button on the inner shaft and insert the inner shaft into the outer shaft.
3. Engage the spring button into the proper positioning hole. For this model it is the third hole positioning.
4. A common gearbox is used on both ends. The bottom output shaft is used at the head end and the top output shaft is used at the foot end of the bed.
5. Attach the inner shaft to the bottom gearbox output shaft on the head end of the bed.

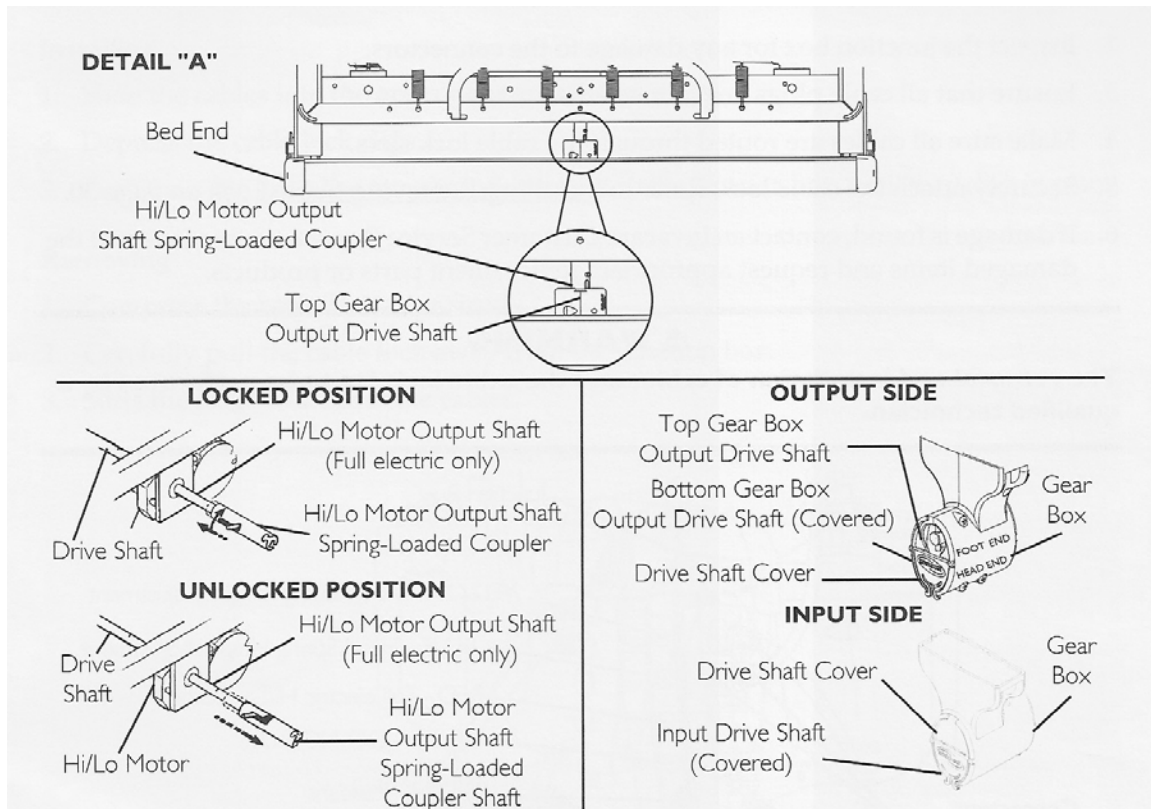
6. Push the spring-loaded end of the drive shaft and attach it to the Hi/Lo motor output shaft facing the head of the bed. This is the middle motor.



Attaching the Hi/Lo Motor to the Footboard

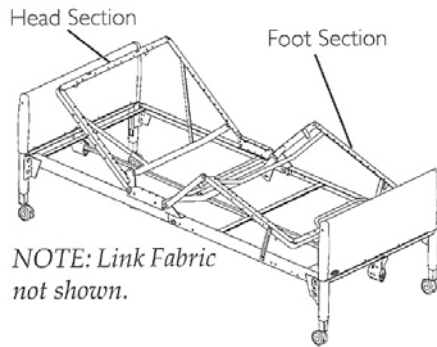
1. First, make sure that the protective plastic cap on the footboard gear is moved to the bottom.
2. Locate the Hi/Lo motor output shafts spring-loaded coupler. If necessary, shift the bed end to the right or left to align the Hi/Lo motor output shaft spring loaded coupler with the foot end gearbox.
3. Ensure the HI/Lo motor output shafts spring-loaded coupler is properly aligned with the foot end gear box as shown in detail "A" figure 4.10
4. Release the HI/Lo motor output shafts spring-loaded coupler by pushing in against the HI/Lo motor output shafts spring-loaded coupler and turning clockwise.
5. The coupling will release and engage the foot end top gearbox output shaft cross pins.

- You may have to use the emergency crank to wiggle the pins in the gearbox to line up with the HI/Lo motor output shafts spring-loaded coupler. Attach the emergency crank on the outside of the gear box and slowly rotate until the HI/Lo motor output shafts spring-loaded coupler clicks into place.



Raising and Lowering the Head, Foot and Height of the Bed

- To raise the head press the 'Head Up' button, to lower the head press the 'Head Down' button.
- To raise the feet press the 'Foot Up' button, to lower the feet press the 'Foot Down' button.
- To raise the height of the bed press the 'Bed Up' button, to lower the bed press the 'Bed Down' button.



DETAIL "A" - PENDANT CONTROLS

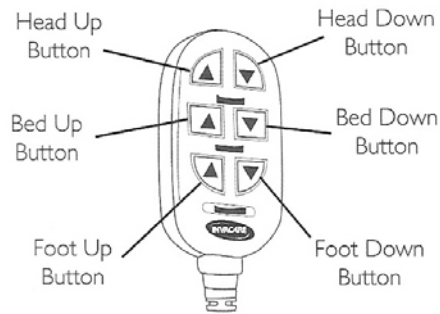


FIGURE 2.1 Operating Full Electric Bed - Models 5410IVC and 5411IVC

Trouble Shooting

Symptom	Probable Cause	Solutions
Bed will not function at all	Bed not getting any power.	-Plug the bed in. -Check the wall outlet. -Check the breaker/fuse.
	Pendant not working. Pendant is pinched in the frame of the bed.	Call MDA to come and repair.
Bed works intermittently work or only certain parts work.	Pendant malfunctioning.	Call MDA to come and repair.
Bed is teter-totering (headboard goes up while footboard goes down and vice-versa)	Drive shaft is connected to the wrong connection on the headboard gearbox.	Move the driveshaft from the top to the bottom portion of the headboard gearbox.
Only headboard moves up or down.	HI/Lo motor output shafts spring-loaded coupler not connected properly to the footboard gearbox.	-Ensure the plastic tab is not covering the gearbox. -Ensure the HI/Lo motor output shafts spring-loaded coupler is properly connected.



Inspection

- Inspect all rails for deformities and/or damage. Damage could be displayed as bowing, cracks, or breaks in the metal.
- Inspect all hospital bed frames and mattresses. Alignment of the bed frame, bedside rail, and mattress should leave no gap wide enough to entrap a patient's head or body.
- Check the fitting of replacement mattresses and bedside rails.
- Dimensions may differ from the original equipment supplied or specified by the bed frame manufacturer. Not all bedside rails, mattresses, and bed frames are interchangeable.
- Ensure rails are the proper distance from the headboard and footboard, patient entrapment may occur if the rails are misaligned.

Helpful Hints

- Ensure the mattress fits correctly on the bed to avoid potential body entrapment between the mattress and railings. Place the rail in MID position to eliminate gap.
- When the foot and head ends are raised, ensure the telescoping length of the rail is not less than 47 inches to prevent damage to the rails or bed.
- Do not allow railings to be used as a substitute for patient protective restraints.
- Excessive pressure, such as pulling on the railings, can cause bowing, cracks, or metal fatigue.
- Do not allow railings to be used for positioning, e.g., pulling oneself out of bed. This equipment is solely to prevent rolling out of bed.

****If items or parts need to be replaced or repaired, please contact MDA for assistance.***