

Assembling Semi-electric Hospital Bed.

1. In a home setting, semi-electric hospital beds permit an individual to raise their upper body or their knees to comfortable positions through use of a hand control. Semi-electric Hospital Beds are loaned out by KC HELP upon submission of a prescription. Beds are assembled from 5 components.
 - a. **Frame** Most frame designs have two drive motors at the foot of the bed although some have alternate designs. All frames have a head spring section that can be lifted up to support the upper body. The frame will normally have the power cord and the hand control woven through the springs.
 - b. **Foot board** The foot board has a gear box for lowering or raising the entire bed for the comfort of the patient or caregiver. A crank handle should be either inserted or available for this purpose. Some gear boxes have a tab on the gear box which should be flipped to the foot position
 - c. **Head board:** In many cases the head board is taller than the foot board. It also has a gear box. On models with gear boxes with a tab, it should be flipped to the head position.
 - d. **Drive shaft:** The drive shaft connects the foot board to the head board and permits both to go up and down together so that the bed remains horizontal at all heights.
 - e. **Mattress:**

2. Frame and Foot Board/Head board assembly

- a. Lay the frame flat on the floor. Normally the foot of the frame is located in a place where it is available for adjustment of the height of the bed during operation. Move the head board to a position near the head of the bed and foot board near the foot of the bed.
- b. Bring the head board up to the head of the bed frame and insert the two corner locks into the two guide pins (rivets) on the frame as shown below.

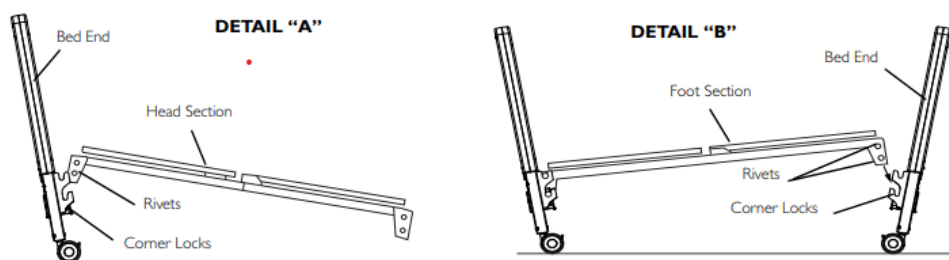


Figure 1. Attaching head board and foot board

- c. Bring the foot board up to the foot of the bed frame and insert corner locks into the guide pins (rivets) as shown above.
- ### 3. Installing the drive shaft
- a. Plug in the power cord. With the hand control adjust the height of the foot board to be the same as the head board so that the bed remains horizontal.
 - b. The drive shaft is spring loaded on one end and some shaft designs can be adjusted to several lengths. If adjustable, adjust it to a length which is an inch or so longer than the

distance between the gear box cross bar on the foot board and the gear box cross bar on the head board.

- c. Insert the notch of the spring-loaded end of the drive shaft onto the gear box cross bar of the foot board of the bed as shown below. Compress the spring and insert the solid end into the cross bar of the gear box on the head board of the bed

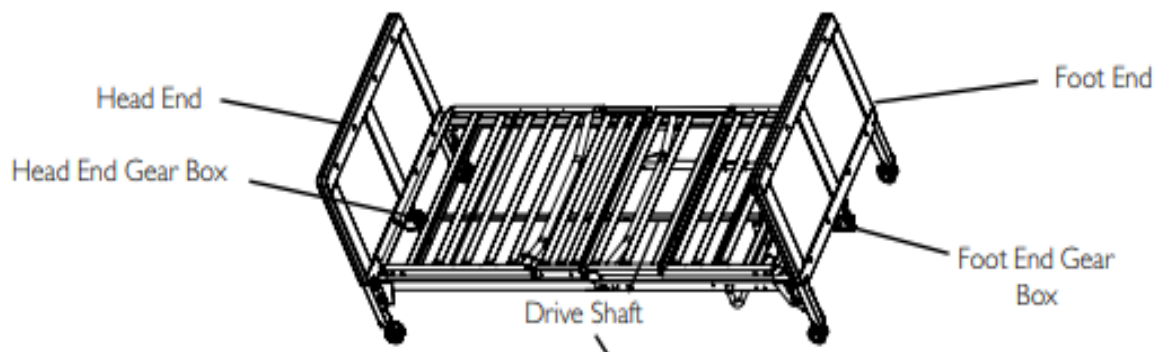


Figure 2. Location of the drive shaft between foot and head board gear boxes

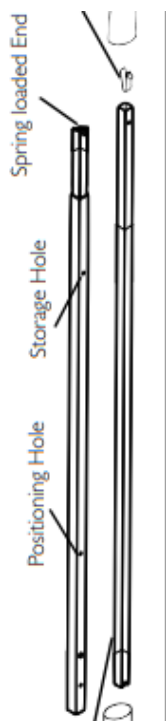


Figure 3. Drive shaft



Figure 4. Notched end of drive shaft near cross bar of gear box

4. Check out
 - a. Using the hand control move the head section up and down.
 - b. Using the hand control move the foot section up and down.
 - c. Using the crank adjust the height of the bed to a level comfortable for the person to get in and out of bed. If bed frame does not remain horizontal check to assure that the drive shaft is inserted to the top of one gear box and bottom of other gear box.
 - d. Place the mattress on the springs. Sheets for hospital beds (twin extra-long) are available at Amazon, Target, Walmart, etc.
 - e. If there are difficulties, call KC HELP at 509-212-0900 for additional help.

5. Accessories KC HELP also loans some accessories to hospital beds on a first-come first-serve basis.
 - a. Trapeze is a device that hangs above the bed which helps those with upper body strength to sit up. A trapeze is shown below.
 - b. Half-rails are loaned out, but full-length rails are not allowed by the state of Washington. Half rails are available for individuals concerned about falling out of bed.
 - c. Air mattresses are available. Alternating air mattresses for those with special needs must have a prescription from their doctors. These are sometimes available.
 - d. Over the bed trays are sometimes available but are normally hard to get.



Figure 5. Trapeze



Figure 6. Half-rails