



# Installation Instructions

- 1** Layout tools and components that are not included that might be needed for typical assembly and installation.
- 2** The complete shipment consists of 4 cardboard shipping boxes plus a sling package. Open all 4 cardboard shipping boxes.
- 3** Remove Lift Motor...unwrapping each piece. This box contains a battery case (built in on P-440's), the lift motor, a plug-in hand held remote controller, an extended reaching bar to assist in hooking and un-hooking the lift motor from the pole, the battery recharge cord and operating instructions.
- 4** Remove the Out Reach arm from the cardboard shipping box and un-warp...set the arm aside until required in assembly.
- 5** Remove Stanchion Posts from cardboard shipping box...unwrapping each piece.
- 6** Remove Assembly Components carefully and place into like component groups. This box contains the hardware required for the entire assembly of the Out Reach system as well as the basic installation kit.
- 7** Verify the receipt of the sling package...set aside until stanchion assembly is completely installed.
- 8** Inspect mounting location...as well as the system's reach area for obstructions...door headers, ceiling fans, ceiling height, light switches and an electrical plug source for recharging the system.
- 9** Inspect opposite side of mounting wall location...for same obstructions found in step 7 on the opposite side of mounting wall
- 10** Determine the ceiling height found on both sides of the selected mounting wall location from the floor...standard heights are: 7', 8', 9' & 10'. The pole has an adjustable threaded screw-in foot that will allow for up to 1 ½" of height adjustment. Other heights are obtained by using the standard tube extensions (available) or by cutting off the tubes to length with a powered miter saw.
- 11** Non-standard ceiling heights will require the installer to consult with the factory representative prior to installation by calling 877-832-5438 (toll free). The representative will need the installer to provide the exact floor to ceiling height dimension in inches.

- 12** Use a stud finder to locate the vertical studs...mark the center of the stud locations with pencil & determine if wall studs are wood or metal.
- 13** **If wall construction is other than standard stud & drywall facing board construction go to section on block wall installations. Call the factory representative before installing.**
- 14** Use stud finder to locate the bottom edge of header plates along the top of the wall...pencil mark lower edge of bottom header plates.
- 15** The following is the only "Recommended Method" to avoid risk to the patient and caregiver
- 16** On the system mounting wall side...place a ½" thick by 4" wide x 18" long wood strip at the top of the mounting wall and against the ceiling...mount the wood strip with screws to the wall in two places
- 17** Locate the upper stanchion pole retaining bracket (in components box)...place bracket on the just mounted wood strip and transfer the locations of the metal retaining bracket holes to the just mounted ½" x 4" x 18" wood strip.
- 18** Using a ½" drill bit...drill through the mounted wood strip & sheetrock on both sides of the system mounting wall using the marked hole locations transferred from the metal retaining bracket for the system. Pay careful attention to note potential wiring or plumbing interference prior to drilling. Further, make sure to keep the drilling level and square.
- 19** On the opposite side of the stanchion mounting wall...center a second ½" thick by 4" wide x 18" long wood strip between the two holes drilled through the wall from the stanchion mounting side of the wall. Place the wood strip against the ceiling and mount with two screws...similar to the wood strip mounted previously. Return to the stanchion mounting side of the wall and using the same ½" drill bit and the two ½" holes drilled previously drill back through the holes of the wood strip on the stanchion mounting side and through the second wood strip just mounted on the opposite side of the wall.
- 20** Take (2) pieces of ½" all thread rod, place lock washers and nuts on one end of each rod and insert each rod through one of the provided ¼" thick metal spacer plates and then through each of the wood mounting strip holes...extend the all thread rods through the wood mounting strip on the opposite side of the wall where the stanchion is to be mounted.
- 21** Return to the stanchion mounting side of the wall and pull the nutted all thread snug against the opposite wall of the non-stanchion side. Mark the length to cut the all thread on the stanchion mounting side after allowing for the ¼" thickness of the retaining bracket, a lock washer, a fully engaged nut plus ¾" in extra all thread adjustment length. The additional length may be required for additional ¼" metal spacers at the top of the wall to align the stanchion squarely due to wall baseboard trim-out at the floor.
- 22** Measure the thickness of the floor trim/toe baseboard mounted to the wall along the floor extending from the wall. The floor trim thickness and the upper stanchion spacing from the wall surface must both be of equal distances...use the provided ¼" metal spacers to achieve this requirement for a square stanchion mounting.
- 23** Assemble the three piece stanchion main post assembly...this is done by inserting sliding interior square post into the square lower outer stanchion section. The tolerance is close for this assembly and must be aligned squarely to accomplish. Slide the square upper stanchion section onto the square interior stanchion section...be sure both pieces are orientated/turned with pin holes visible on the same sides.

**24**

Slide upper exterior stanchion section down the interior stanchion section until pin holes become visibly aligned...insert the metal pull pin of the correct length (there are various length pins used throughout the assembly) ...the pull pin of the correct length for each application will provide a safety pull pin hole location close to the stanchion frame when correctly selected and inserted.

**25**

Thread into the lower stanchion pole section the height adjustment foot (found in components box). The mounting foot should be **VERY CAREFULLY** threaded into pole approximately 1". The threads of the foot are aluminum and **easily damaged** ruining the use of the lower stanchion section. The threads must be free of all foreign matter and lightly oiled before attempting insertion. Turn the foot very slowly during insertion...if the threads become slightly bound **STOP** and remove the foot and inspect for dirt and re-clean before reattempting the assembly.

**26**

Slide the upper stanchion assembly in to the upper metal mounting bracket now loosely attached to the wall at the ceiling...lightly tighten the upper bracket nuts, but do not tighten completely.

**27**

Use a level to align & square the stanchion pole assembly using the right side of the pole and the front side of the pole. Once the stanchion pole is parallel and square mark the mounting foot hole locations on the floor.

**28**

Slide the stanchion pole assembly to one side and drill two appropriate sized holes for the required floor mounting inserts...then push in screw inserts. Various mounting devices will be required depending on the customer's floor. Carpet should be slit and pulled back to insure a firm floor mount is achieved. It is **NOT** necessary to cut a hole in the carpet as a 4" long slit and a 90 degree 2" long slit will allow the floor bracket to be securely anchored and if removed the carpet will remain.

**29**

Position the stanchion pole back into the squared position and install both floor mounting screws through the mounting foot and tighten securely.

**30**

Tighten both of the upper stanchion pole mounting bracket threaded bolts completely.

**31**

Remove the rotating pivot arm assembly from the box and the motor connection lanyard ring from the components box. Slide the lanyard ring into the slot located at the end of the pivot arm and select the correct pull pin from the components box...insert the pull pin through the provided hole and through the center of the lanyard ring. Insert the pull pin retainer clip pin to secure the lanyard ring assembly

**32**

There are four predrilled holes in the stanchion's upper section for mounting the pivot arm assembly... select the desired pivot arm height...lift the pivot arm assembly to the desired stanchion pole location height and align the pin holes of the pivot arm with the pin holes located on the stanchion (this step usually requires two installers to accomplish...if only one installer is available at the site it is recommended the stanchion pole be taken down from the wall...laid on the floor and the pivot arm assembled while the stanchion pole is on the floor). Once the holes are aligned the pull pins will slide easily through the aligned holes...if this process seems difficult due to alignment interference...the holes are not squarely aligned. Insert the provided longest pull pins found in the components box into both pre-drilled holes and secure with the pull pin hole clips.

**33**

If an alternative arm height is required...use a single pull pin to locate the highest pivot arm pin hole in the lowest stanchion pole pin hole and drill a new hole through the stanchion using the swing arm mounting bracket as the alignment drill guide.

**34**

Raise the Lift Motor's safety hook to the lanyard ring and latch the lift motor into the lanyard hook.

**35**

Connect the remote access controller pad to the main lift motor by connecting the vacuum hose line...

this is a VERY tight fit assembly and operates by a vacuum switch. To facilitate the assembly very lightly lubricate the male prongs of the switch connection, but do not plug or cover the vacuum holes of the male prongs with a grease or jelly lubricant as it will result in the switch not working correctly.

**36**

Connect the charger assembly plug and plug the lift motor into the wall outlet to charge for 8 hours if required. To use the unit the I/O switch must remain in the "I" depressed/selected mode and the battery charger must be unplugged from the Lift Motor. See the Lift Motor instruction manual provided with the Lift Motor for complete operating instructions and

warranty.

## Component List

- 2 U Shaped Straps
- 3 6" Spacers
- 6 1" Spacers
- 2 5" Lag Bolts
- 2 2-1/2" Lag Bolts
- 2 Plastic Grommets
- 1 12" Pole Extension
- 1 Ceiling Mount Bracket



## Wall Stanchion

## **Reacher Swing Arm**



**Should any of these items fail inspection  
DO NOT USE THEM!**

**Contact Mobility Lift Systems immediately by calling  
870-910-5438.**