# PROTEKT® 350 HYDRAULIC STAND

**HYDRAULIC SIT-TO-STAND PATIENT LIFT (*Optional Electric Upgrade)**
**Model: 34350H**
**Model: LP-34350HE-K (Electric Upgrade Kit)**

**HYDRAULIC SIT-TO-STAND PATIENT LIFT (*With Electric Upgrade)**
**Model: 34350HE**

**34350H**

**34350HE**

**BEFORE USE:**

Ensure the product has been assembled according to the instructions in this manual. All operators should read and understand the instructions for safe and proper operation of the patient lift.

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Proactive Medical Products reserves the right to make changes to the design, characteristics and models without prior notice. The only warranty provided by Proactive Medical Products is the express written warranty offered upon the sale of its products.

For ordering additional copies of this user manual, please refer to the final page.

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# 1.Introduction and Overview

The Protekt 350 Hydraulic Stand is designed to reduce risk of injury to patients and caregivers while moving and transferring. This lift also offers patients optimal comfort and a sense of safety when properly used. It is also user-friendly for caregivers, ensuring ease of use.

## 1.1 Intended Use

The Protekt 350 Hydraulic Stand is intended for use within an institutional healthcare environment, e.g., hospitals, nursing homes, rehabilitation care and assisted living.

The lift is not a transport device. It is intended to transfer an individual from one resting surface to another (such as a bed to a wheelchair).

Moving a person suspended in a sling over any distance is not recommended.

Do not attempt any transfer without approval of the patient's physician, nurse or medical assistant.

The lift is intended for use by individuals who fully understand the contents of this manual and is not suitable for operation by children.

## 1.2 Standard Symbols and Warning Labels Definitions

Signal words with symbols are used in this manual to highlight hazards or unsafe practices which could result in personal injury or property damage.

See the information below for definitions of the signal words and symbols.

Standard text - Normal character style used for "basic" information.

**Boldface text** - Emphasize a word or phrase.

Symbols - Represent different risks or hazards and information.

**DANGER**
Danger indicates an imminently hazardous situation which, if not avoided, will result in death or severe injury.

**WARNING**
Warning indicates a potentially hazardous situation which, if not avoided, could result in death or severe injury.

**CAUTION**
Caution indicates a potentially hazardous situation which, if not avoided, may result in property damage or minor injury or both.

**IMPORTANT**
Indicates a hazardous situation that could result in damage to property or equipment if it is not avoided.

**TIPS**
Gives useful tips, recommendations and information for ease of use.

## 1.3 Safety Precautions

### 1.3.1 Assembling the Lift

**WARNING**

Do not overtighten the mounting hardware as this will damage the mounting brackets.

### 1.3.2 Electrical and Radio Frequency Interference, for Electric Upgrade Kit (LP-34350HE-K)

**WARNING**

Read thoroughly the battery/battery charger information prior to installing, servicing or operating your lift.

Most electronic equipment is influenced by Radio Frequency Interference (RFI). Caution should be exercised with regard to the use of portable communication equipment in the area around such equipment. If RFI causes erratic behavior, push the Red Power Switch off immediately. Do not turn the Power Switch on while transmission is in progress.

### 1.3.3 Operating the Lift

**WARNING**

Do not exceed maximum weight limitation of the lift. The weight limitation for the lift is 350 LBS.

Always keep hands and fingers away from moving parts to avoid injury.

Although two assistants are recommended for all lifting preparation and transferring procedures, our equipment will permit proper operation by one assistant. The use of one assistant is based on the evaluation of the health care professional for each individual case.

### 1.3.4 Using the Slings

**WARNING**

Use a sling advised by the individual's doctor, nurse or medical assistant for the comfort and safety of the individual being lifted.

Do not insert any kind of plastic back incontinence pad or seating cushion between patient and sling material that may cause the patient to slide out of the sling during transfer.

After each wash (in accordance with instructions on the sling), inspect sling(s) for wear, tears, and loose stitching. Bleached, torn, cut, frayed, or broken slings are unsafe and could result in injury, and **should be discarded immediately**.

Do not alter slings.

Be sure to check the sling attachments each time the sling is removed and replaced, to ensure that it is properly attached before the patient is removed from a stationary object (bed, chair or commode).

If the patient is in a wheelchair, secure the wheel locks in place to prevent chair movements that could lead to potential falls.

When connecting slings to the lift, make sure there is sufficient head support when lifting a patient.

### 1.3.5 Lifting the Patient

**WARNING**

When using the lift, the legs must be opened to the maximum position and locked before lifting the patient.

The rear casters of the lift must be kept unlocked when lifting an individual. Locking the casters during lifting procedures could cause the lift to tip and endanger the patient and assistants. The unlocked casters during lifting procedures will allow the lift to stabilize itself when the patient is initially lifted from a chair, bed or any stationary object.

Specific slings are made for the Protekt 350 Hydraulic Stand. For the safety of the patient, do not intermix slings and lifts of different manufacturers. Warranty will be voided.

When the patient is elevated a few inches off a stationary surface and before moving the patient, check again to make sure that all hardware or straps are properly connected. If any attachment is not properly in place, lower the patient back onto the bed and rectify the issue.

Adjustments for safety and comfort should be made prior to moving the patient. Patient's arms should be kept inside of the straps.

During transfer, with patient suspended in a sling attached to the lift, do not roll the caster base over uneven surfaces that could cause the lift to tip over. Use steering handle on the mast at all times to maneuver the lift.

### 1.3.6 Transferring the Patient

**WARNING**

When the patient is elevated a few inches off a stationary surface and before moving the patient, check again to make sure that all hardware or straps are properly connected.

If any attachment is not properly in place, lower the patient back on to the bed and rectify the issue.

Wheelchair’s wheels must be locked before lowering the patient into the wheelchair for transport.

Make sure the wheelchair weight capacity can withstand the patient's weight prior to loading the patient.

Be sure to check the sling attachments each time the sling is removed and replaced, to ensure that it is properly attached before the patient is removed from the bed or chair.

Mast pivot must be tight to ensure safe use of the lift. Bolt must be checked at least every six months in conjunction with periodic maintenance.

### 1.3.7 Performing Maintenance

**WARNING**

Only qualified personnel should conduct the lift maintenance.

Do not attempt to open the pre-sealed actuator or obtain local service, for it will void the warranty and might result in damage. Consult your dealer or manufacturer for further information.

After the first year of operation, the hooks of the hanger bar and the mounting brackets of the mast should be inspected every three months to determine the extent of wear. If these parts become worn, replacement must be made.

After the first year of operation, inspect the hanger bar and the eye of the mast (to which it attaches) for wear. If the metal is worn, the parts must be replaced. Make this inspection every six months thereafter.

Inspect the casters and axle bolts every six months to check for tightness and wear.

Regular maintenance of lifts and accessories is necessary to ensure proper operation. Do not overtighten mounting hardware. This will damage mounting brackets.

### 1.3.8 Disposal

**WARNING**

This product has been supplied from an environmentally aware manufacturer.

This product may contain substances that could be harmful to the environment if disposed of in places (landfills) that are not appropriate according to legislation. Please be environmentally responsible and recycle this product through your recycling facility at its end of life.

## 1.4 Life Expectancy

The life expectancy of the lift is two years on electronics, three years on frame & one year on battery presuming that the product is used daily and in accordance with safety instructions and maintenance instructions stated in this manual.

# 2.Technical Specifications

These are average values, which may vary according to manufacturing tolerances.

## 2.1 General Features

| Features | Value |
|---|---|
| Model | Protekt 350 |
| Max. Hanger Bar Height | 62.8” |
| Min. Hanger Bar Height | 42.7” |
| Base Width (Open) | 36.6” |
| Base Width (Closed) | 24” |
| Base Height (Clearance) | 4.5” |
| Base Length | 37.4” |
| Caster Size (Front/Rear) | 3” / 5” |
| Weight Capacity | 350 LBS |
| Weight in Carton | 93.5 LBS |
| Weight out of Carton | 84 LBS |

## 2.2 Electrical Characteristics (Item# LP-34350HE-K)

Please note, the electric accessory kit is available and sold separately to upgrade the manual stand to an electric version. If you have not purchased the electric accessory kit, skip this section.

| Electrical Characteristics | Value |
|---|---|
| Battery | 24V DC |
| Charger Input | 100-240V AC |
| Battery Status | LCD Display |
| Approx. Lifts per Charge<br>(Varies depending upon load and stroke) | 10 Cycles per charge |

# 3. Equipment Assembly

Use only parts supplied by Proactive Medical Products for assembly to ensure correct alignment of all parts for safe operation.

## 3.1 Handling Procedures

Check for any obvious damage to the carton. If damage is evident, notify the carrier and the dealer.

Carefully unpack the components from the shipping cartons.

Inspect all components. Examine exterior of the lift for nicks, dents, scratches or damages.

Unless the lift is to be used immediately, retain boxes, containers and packing material for use in storing until use of the lift is required.

**CAUTION**

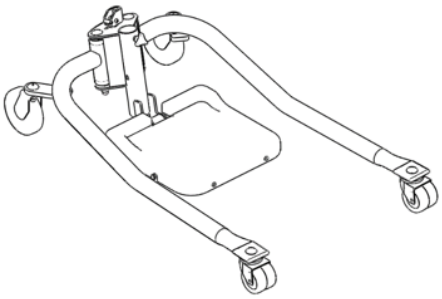
Do not place other objects on top of the packaged lift.

**TIPS**

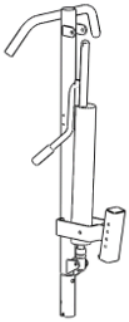
Store the packaged lift in a dry area.

## 3.2 Components

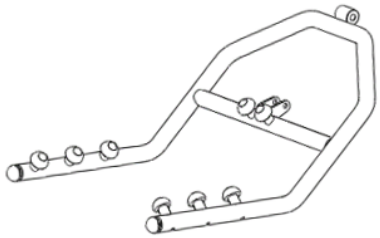
| Components Description | Piece |
|---|---|
| Caster Base | 1 |
| Mast/Pump Set | 1 |
| Hanger Bar | 1 |
| Shifter Handle | 1 |
| Leg Cushion | 1 |
| Tool Kit | 1 |



Caster Base

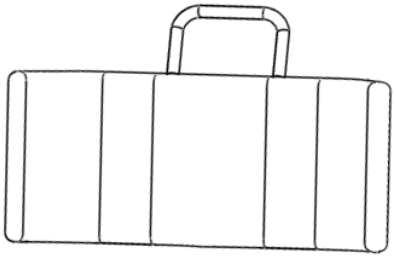


Mast & Pump Set



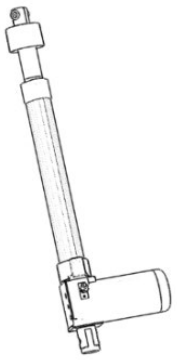
Hanger Bar

Shifter Handle

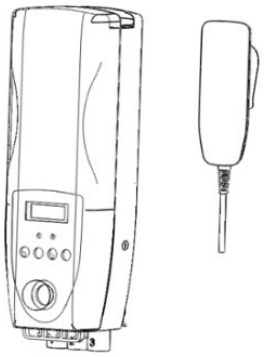


Leg Cushion

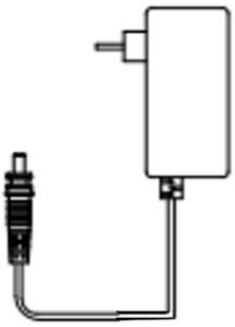
| Electric Upgrade Kit (Optional Accessory)<br>(LP-34350HE-K) | Piece |
|---|---|
| Actuator | 1 |
| Control Box (Battery included) | 1 |
| Hand Pendant (Item# LP-34350-PEN) | 1 |
| Power Adapter (Item# LP-34350-ADP) | 1 |
| Tool Kit | 1 |



Actuator



Control Box and
Hand Pendant



Power Adapter

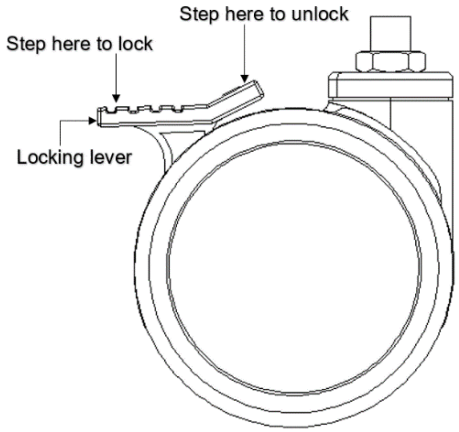
## 3.3 Assembling the Hydraulic Stand

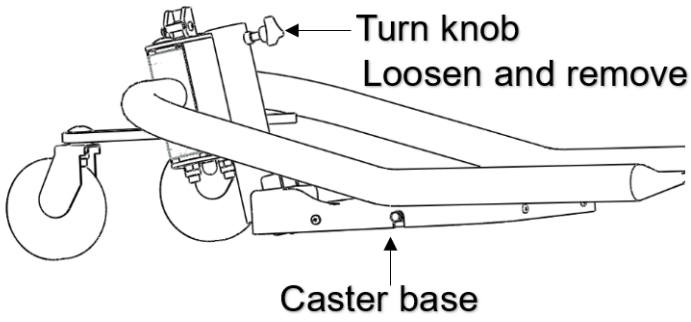
**WARNING**

Do not overtighten the mounting hardware as this could damage the mounting bracket.

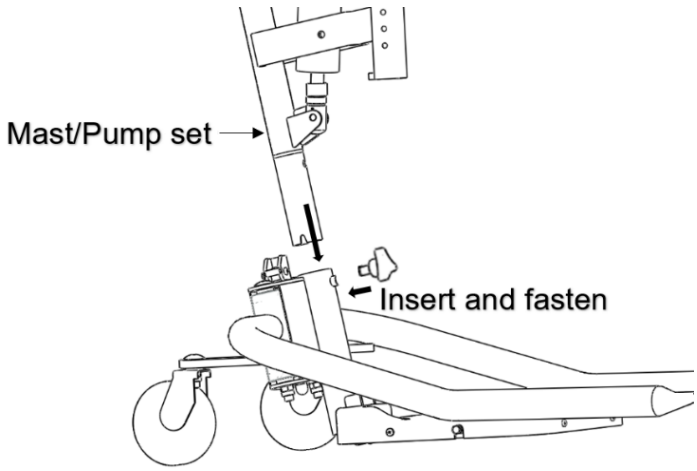
### 3.3.1 Assembling the Mast/Pump to the Base

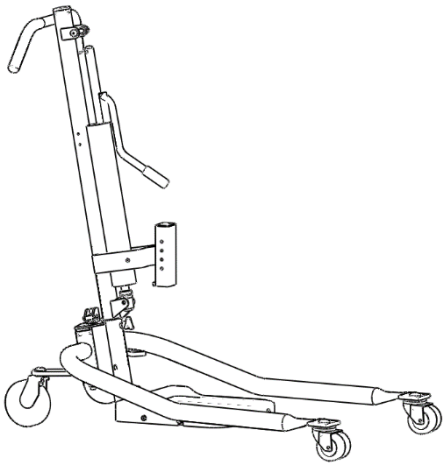
1. Step on the locking levers to lock the two rear casters at the base.
2. Remove the turn knob pre-fastened to the base.




3. Place the mast/pump assembly vertically and then insert it into the base.
4. Secure the mast/pump set assembly to the base with the turn knob.



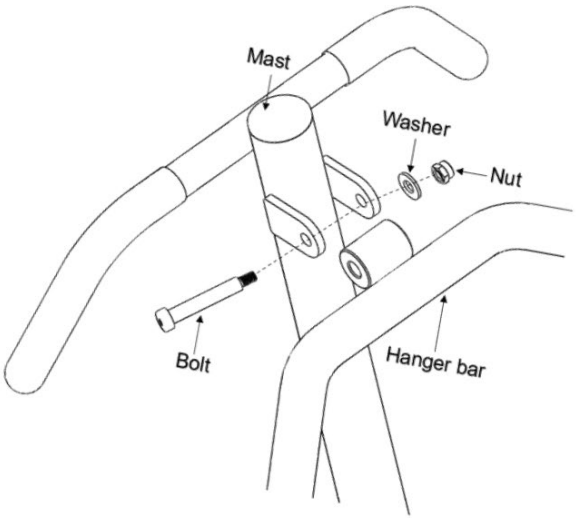



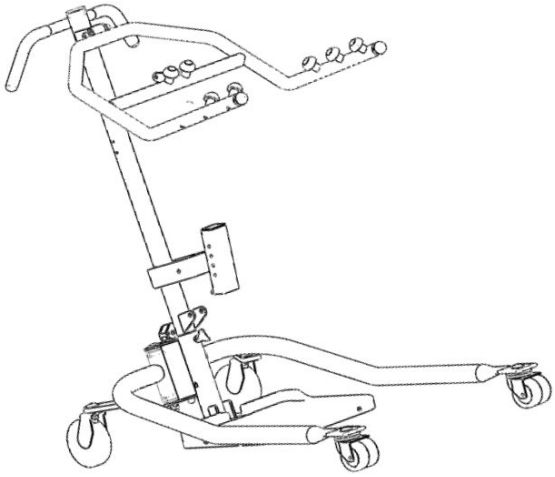
**WARNING**

In order to facilitate storage or transportation, the mast/pump set assembly can be removed from the base. When you disassemble the mast/pump set assembly and reinstall it onto the base, it must be securely fastened in place.

### 3.3.2 Assembling the Hanger Bar to the Mast

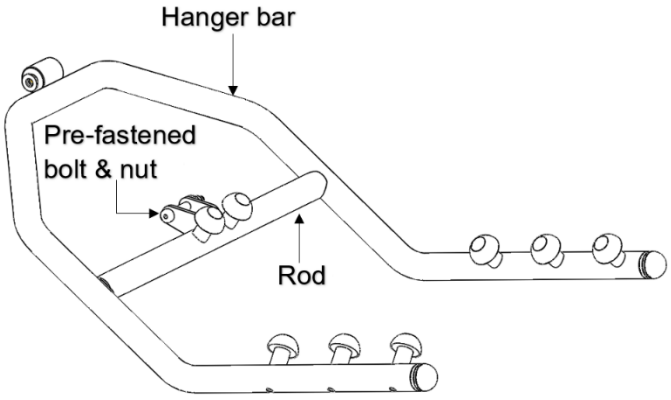
1. Remove the bolt, washer, and nut pre-fastened on the hanger bar.
2. Take the hanger bar and align it with the holes of the mast.
3. Insert the bolt, washer and nut back to connect the mast and hanger bar in place properly.



### 3.3.3 Assembling the Hydraulic Pump

1. Remove the bolt, washers, and nut pre-fastened onto the rod of the hanger bar.




**CAUTION**

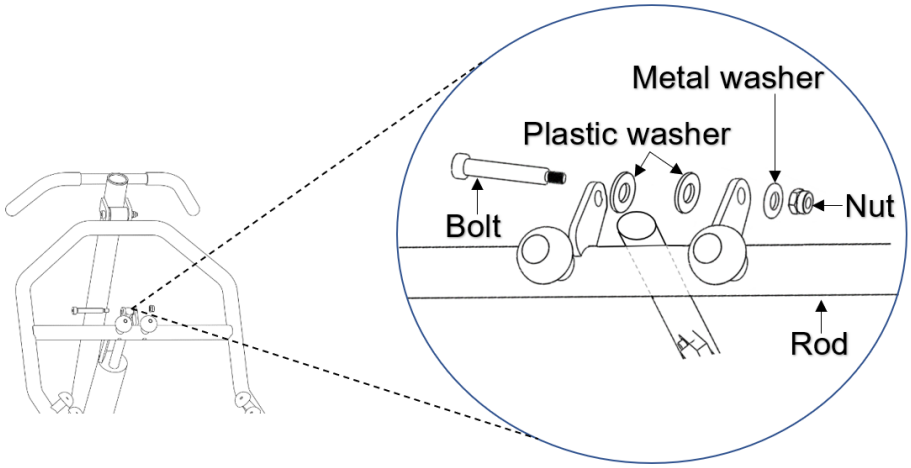
There should be one bolt, two plastic washers, one metal washer, and one nut. If any parts are missing, please contact the dealer immediately.

2. Carefully lift the hydraulic pump. Align it with the holes of the rod of the hanger bar.
3. Insert the bolt and washers back in proper order and secure them with the nut in place.

**WARNING**

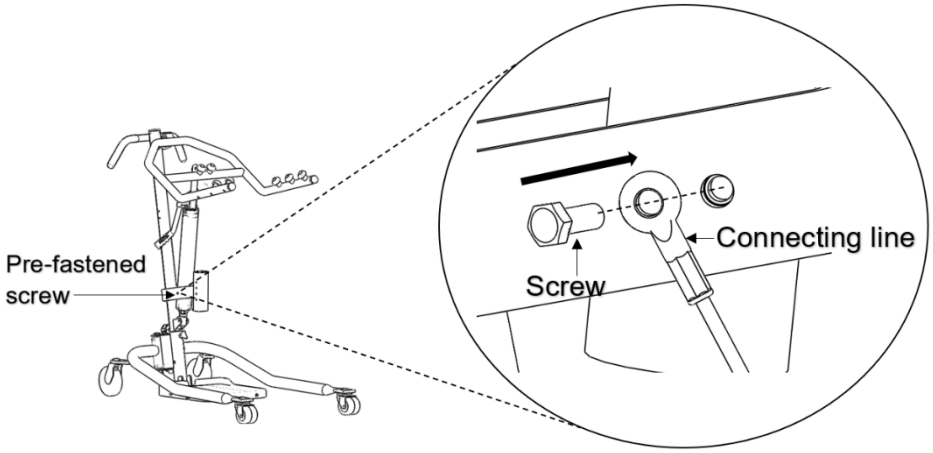
Ensure that the two plastic washers are placed on both sides adjacent to the top of the hydraulic pump.

Incorrect placement of the plastic washers may result in an unstable connection, leading to the stand damage and potential injury.

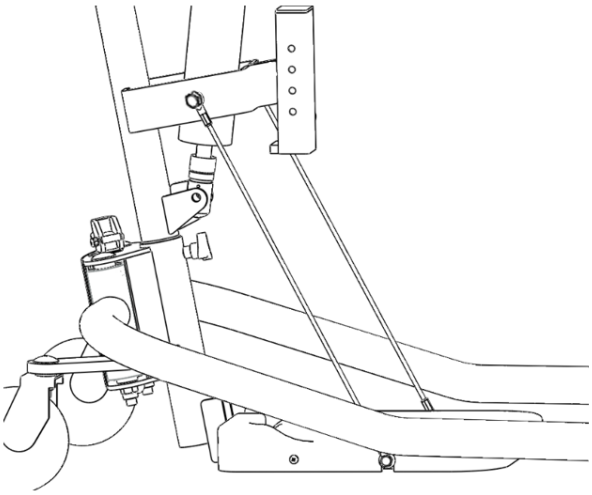


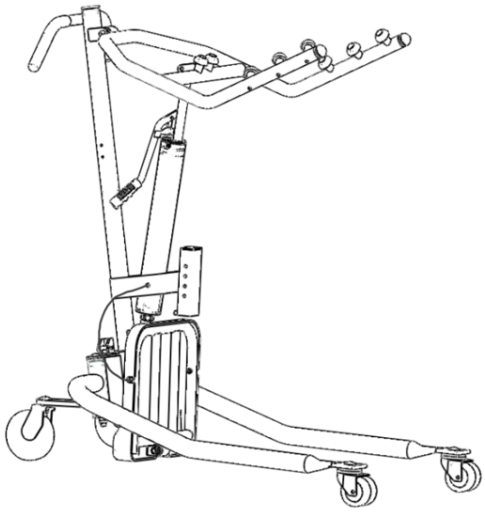

3.3.4 Assembling the Connecting Line of the Pedal Plate to the Mast

1. Remove the screws pre-fastened onto the bottom of the mast.
2. Place the connecting line of the pedal plate on the screw and insert them into the hole to fasten the pedal plate.



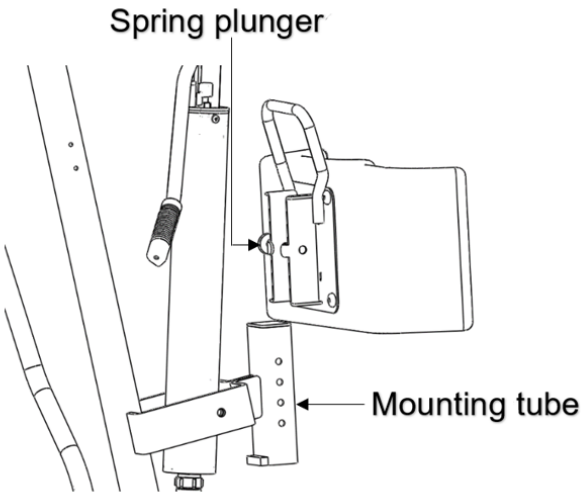
3. Repeat the same procedures to assemble the connecting line on the opposite side.
4. Once both sides of the connecting lines are installed; the pedal plate can be folded up.

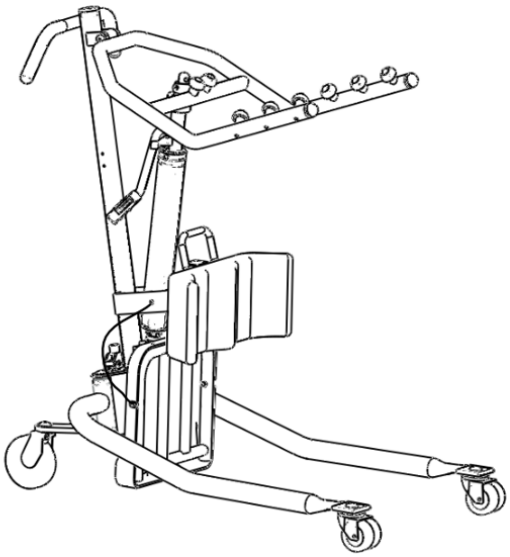




### 3.3.5 Assembling the Leg Cushion

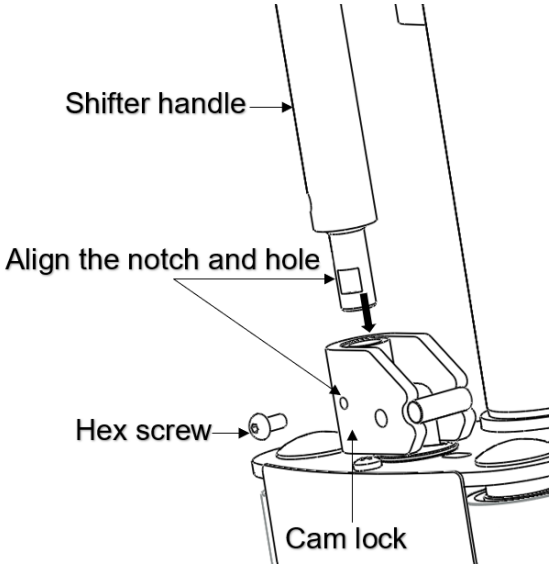
1. The leg cushion features four adjustable height settings.
2. Take the leg cushion, pull the spring plunger located behind it and slide the leg cushion onto the mounting tube of the mast.
3. When the leg cushion is adjusted to the desired height, simply release the spring plunger and the leg cushion will be securely locked in place.



### 3.3.6 Assembling the Shifter Handle

1. Align the notch located on the bottom of the shifter handle and the hole on the cam lock.
2. Insert the shifter handle into the cam lock.
3. Fasten the hex screw to secure the shifter handle in place.

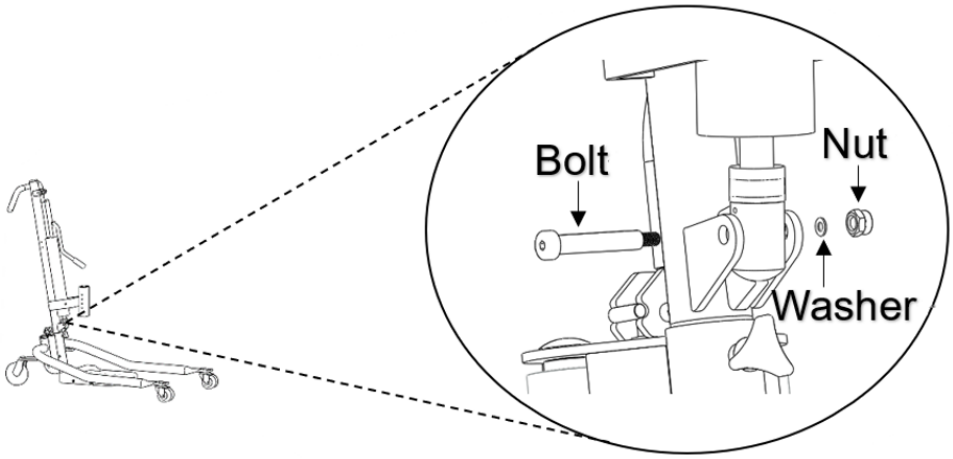



### 3.3.7 Assembling the Electric Actuator (Optional Accessory) (Item# LP-34350HE-K)

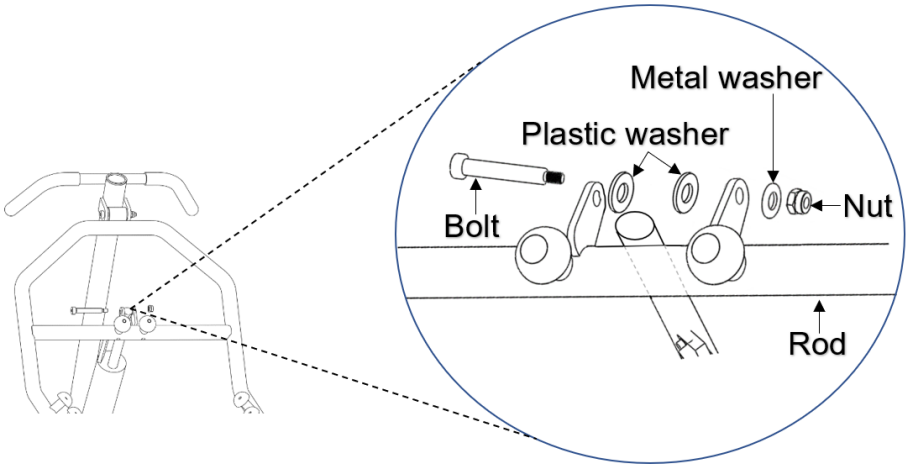
Please note, the electric accessory kit is available and sold separately to upgrade the manual stand to an electric version. If you have not purchased the electric accessory kit, skip sections 3.3.7 to 3.3.9.

Before installing the electric actuator, the hydraulic pump must be removed.

1. Pull down the folded pedal plate and place it flat.
2. Loosen the bolt, washer and nut at the bottom of the mast. Ensure you keep them for later use.



3. Loosen the bolt, washers and nut at the rod of the hanger bar. Ensure you keep them for later use.



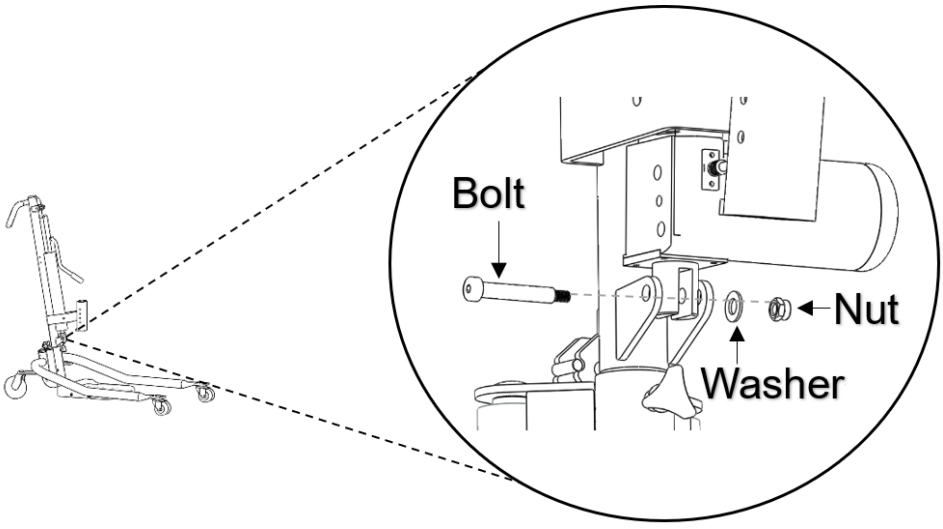

**CAUTION**

Please be sure to keep the two plastic washers for use when replacing the hydraulic pump back.

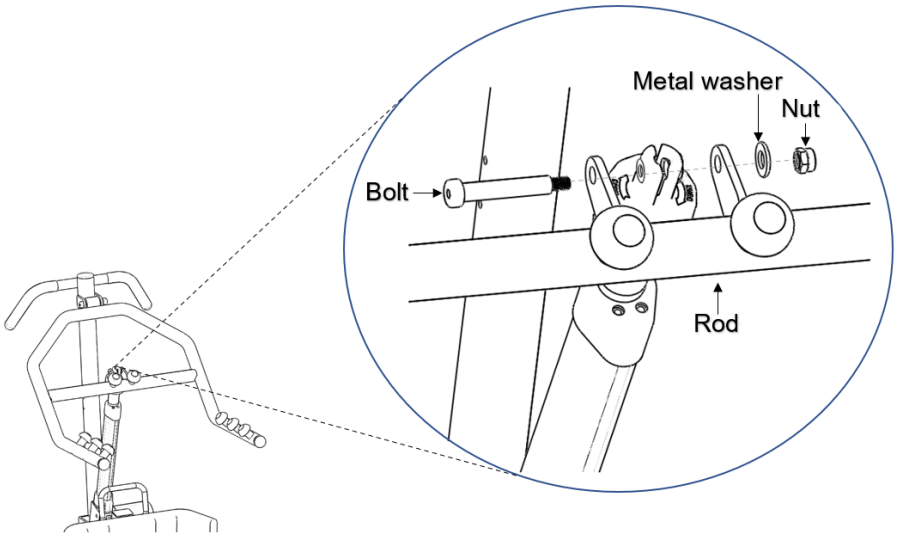
**IMPORTANT**

Store the packaged hydraulic pump in a dry area.

4. To install the electric actuator onto the bottom of the mast, reverse the procedure in step 2.



5. To install the electric actuator onto the rod of the hanger bar reverse the procedure in step 3.



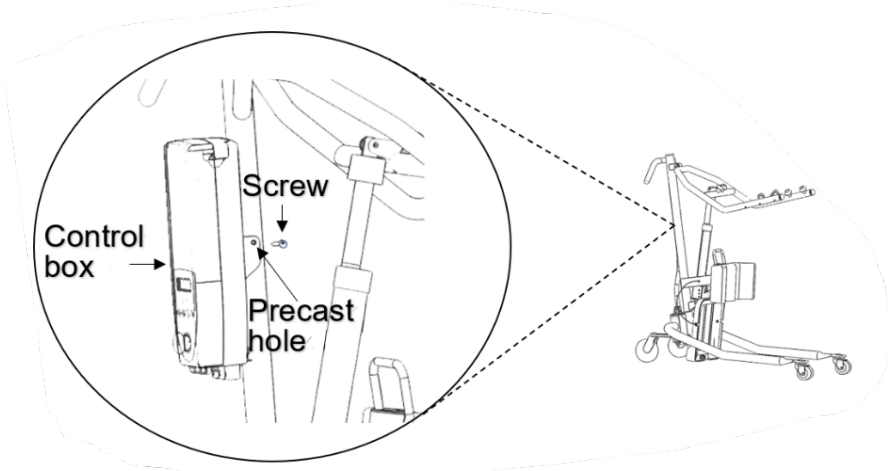

**CAUTION**

Do not attach two plastic washers on both sides adjacent to the top of the electric actuator.

Incorrect placement of the metal washer may result in an unstable connection, leading to the stand damage and potential injury.

### 3.3.8 Assembling the Control Box to the Mast (Optional Accessory) (Item# LP-34350HE-K)

1. Take the control box, align the holes on the control box bracket with the holes on the mast.
2. Insert the screw and fasten it.
3. Repeat step 2 to complete the opposite side to secure the control box in place.



3.3.9 Connecting the Cords to the Actuator and Power Socket (Optional Accessory) (Item# LP-34350HE-K)

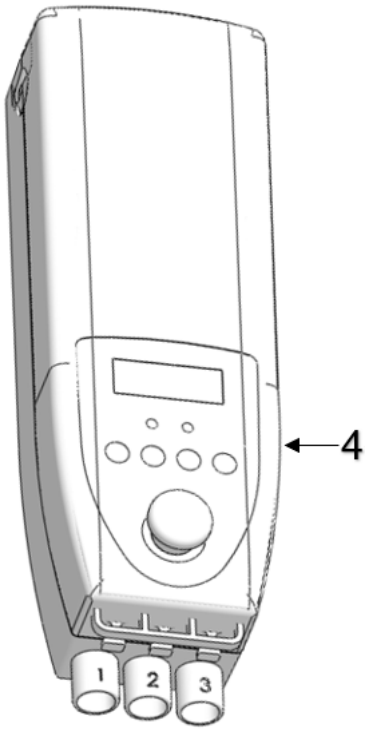
1. Connect the cords to the corresponding function ports.

Port 1: Hand pendant

Port 2: Electric actuator

Port 3: Spare

Port 4: Power adapter




**TIPS**

Each connection port is number coded for ease of identification.

# 4. Equipment Operation

## 4.1 Charging the Battery (Optional Accessory) (Item# LP-34350HE-K)

Please note, the electric accessory kit is available and sold separately to upgrade the manual stand to an electric version. If you have not purchased the electric accessory kit, skip section 4.1 and proceed to section 4.2.

**CAUTION**

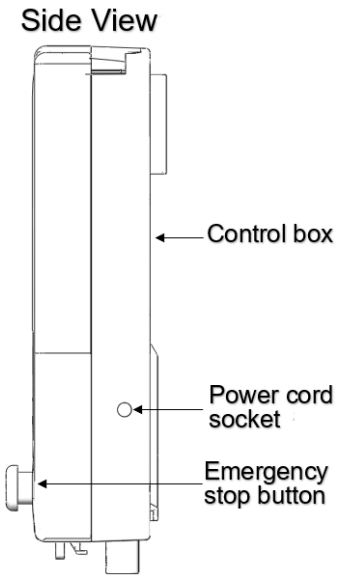
Keep the caster base locked and the lift stationary.

**TIPS**

It is recommended that the battery should be recharged daily to prolong battery life. The battery status can be viewed on the battery display on the control box and hand pendant.

The lift will not be operable whilst the battery is being charged.

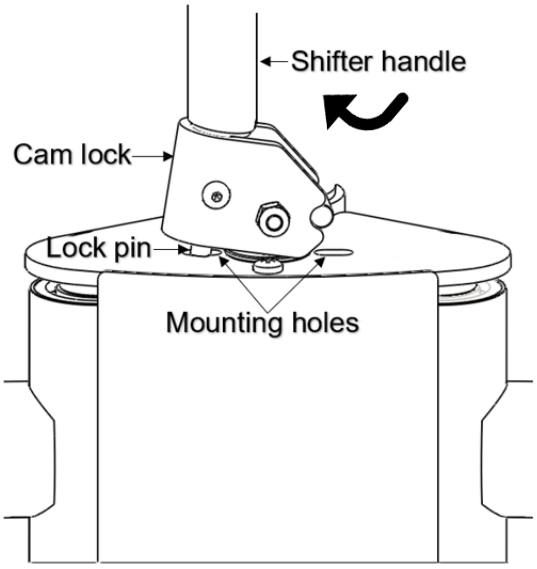
1. Use the power adapter provided in the accessory kit, plug the pins into an appropriate grounded electrical socket.
2. Insert the other end of the power cord into the corresponding socket on the side of the control box.
3. Ensure the emergency button on the control box is disengaged when charging the battery.
4. Both the control box and hand pendant have an indicator light: orange indicates charging and green indicates fully charged.

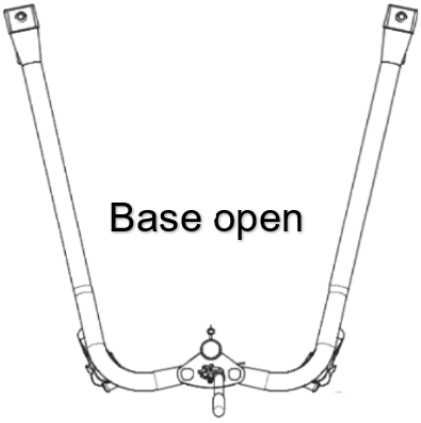


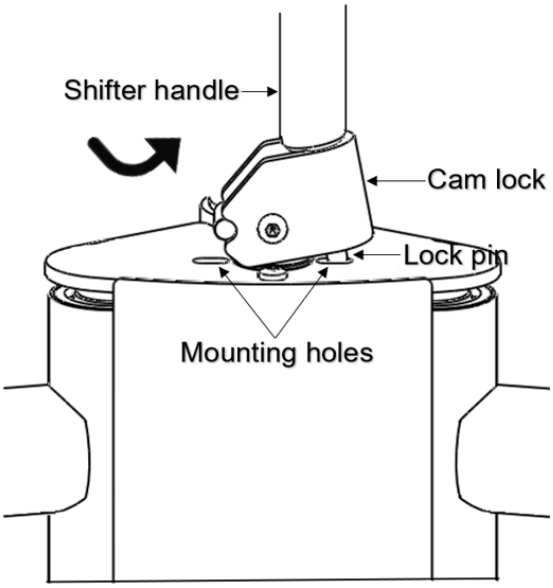
## 4.2 Operating the Hydraulic Stand

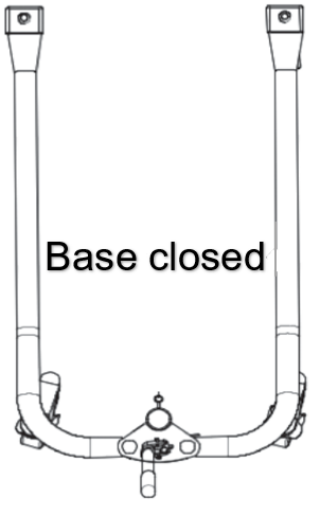
### 4.2.1 Opening/Closing the Legs of the Caster Base

1. Stand at the rear of the lift and grasp the shifter handle with one hand and hold the lift with the opposite hand for balance.
2. Push the shifter handle to your right to release the lock pin from the mounting hole.
3. Turn the shifter handle clockwise until you are able to secure the lock pin into the opposite mounting hole to fully open the legs of the caster base.
4. By reversing the steps 2 and 3 to close the legs of the caster base.



**WARNING**

The shifter handle must lock into its mounting hole to lock the legs in the full open and close position. The shifter handle will be in the vertical position, parallel with the mast.

Do not use the lift until shifter handle is properly seated and locked in place properly. Otherwise, injury and/or damage may occur.

### 4.2.2 Raising/Lowering the Stand

**TIPS**

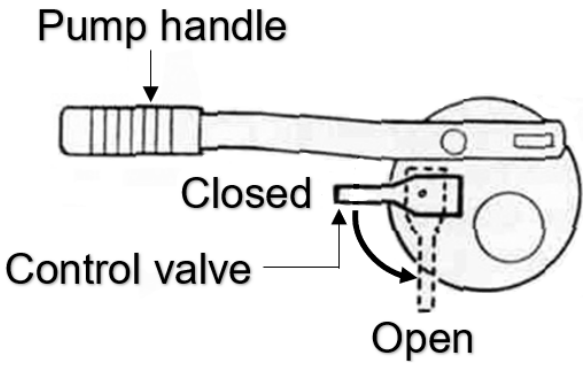
There are two controls on the pump assembly, the pump handle and control valve.

<u>Raising the Lift</u>

1. Ensure the control valve is in the closed position.
2. Move the pump handle up and down to elevate the lift.

<u>Lowering the Lift</u>

1. Ensure the control valve is in the open position to lower the lift.
2. The rate of descent can be controlled by varying the amount that the control valve is opened.

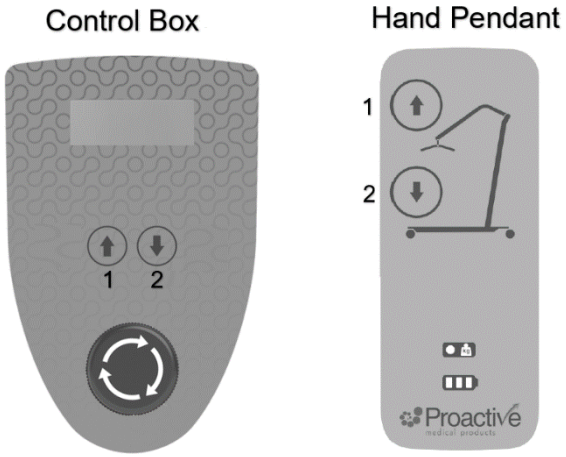



**CAUTION**

A safety gate is part of the hydraulic system that ensures a slow, constant descent of the lift, regardless of how far the control valve is positioned.

4.2.3 Raising/Lowering the Stand by the Control Box and Hand Pendant (Optional Accessory) (Item# LP-34350HE-K)

Please note, the electric accessory kit is available and sold separately to upgrade the manual stand to an electric version. If you have not purchased the electric accessory kit, skip section 4.2.3 and 4.2.4.



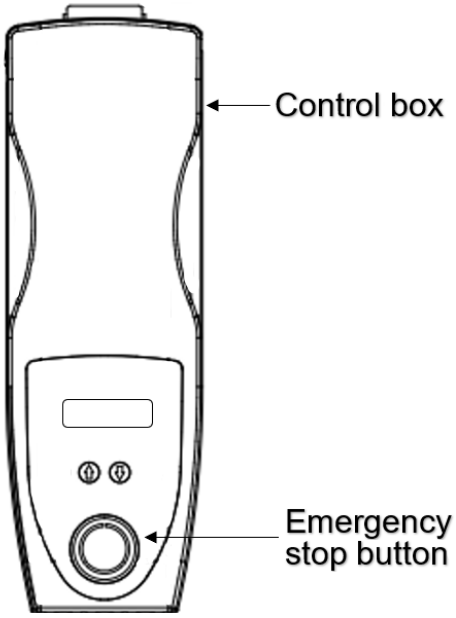

Raising the Lift

1. Press button 1 to raise the lift.

Lowering the Lift

1. Press button 2 to lower the lift.

4.2.4 Activating the Emergency Stop




Engage the Emergency Stop

1. In any situation, pressing the emergency stop button will disconnect power to the system, immediately halting the current operation.

Disengage the Emergency Stop

1. To resume normal operation, rotate the emergency stop button in the direction of the indicated arrow, causing the button to release and reconnect the power.

# 5. Lifting and Moving the Patient

**WARNING**

The operation of the lift is an easy and safe procedure. Yet, do not attempt any transfer without approval of the patient's physician, nurse or medical attendant.

Thoroughly read the instructions in this manual, observe a trained team of experts performing the lifting procedures. Please practice the entire lift procedure with proper supervision to ensure that you are proficient in the operating steps to prevent any potential injuries to personnel.

## 5.1 Preparing the Stand for Use

### 5.1.1 Positioning the Lift

1. With the legs of the base open and locked, use the handle to push the lift into position.
2. Lower the lift for easy attachment of the sling.

**CAUTION**

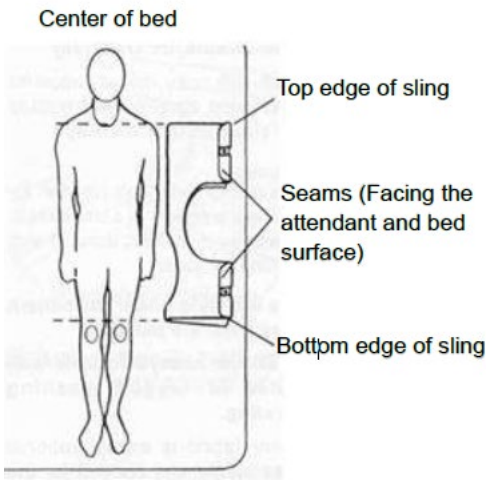
A safety gate is part of the hydraulic system that ensures a slow, constant descent of the lift, regardless of how far the control valve is positioned.

The legs of the lift must be in the maximum open position. If it is necessary to close the legs of the lift to maneuver the lift under a bed, close the legs of the lift only as long as it takes to position the lift over the patient and lift the patient off the surface of the bed. When the legs of the lift are no longer under the bed, return the legs of the lift to the maximum open position.

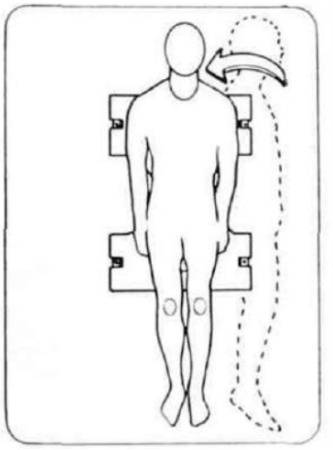
### 5.1.2 Positioning the Sling

<u>At lying position</u>

1. Position the patient in the center of the bed and have them lie flat on their back.
2. Fold the sling in half (lengthwise) and place the sling beside the patient.
3. The top edge of the sling fabric (nearest to the patient's head) should be slightly above the armpit level of the patient. The bottom edge of the sling should then be a few inches above the back of the patient’s knee.



4. With both attendants holding the patient, push the folded sling under the patient.
5. Roll the patient onto their back and they should be approximately centered on the sling.
6. You are now ready to attach the chains or straps to the sling.



At seated position

1. Lean patient forward and set the folded sling behind the patient's back. Set the sling as far down as possible until it touches the back of the seat.
2. Open the sling, pull the bottom loop section of the sling under patient's thighs then cross the loops.
3. With the lift in position and boom lowered, place the straps of the sling over hooks of the hanger bar.

**WARNING**

When the patient is seated in a wheelchair, the wheels must be locked when putting on the sling.

## 5.2 Lifting and Moving the Patient

**WARNING**

Before lifting or transferring the patient, the base legs must be locked in the open position for optimum stability and safety. Do not engage the rear locking casters when patient is in the lift.

1. Using the handle, push the lift underneath the bed.
2. With the sling securely attached to the lift, move the pump handle up and down to raise the patient above the bed. The patient should be elevated high enough to clear the bed and their weight supported by the lift.

**WARNING**

When the patient is elevated a few inches off the surface of the bed and before moving the patient, check again to make sure that all hardware or straps are properly connected. If any attachment is not properly in place, lower the patient back onto the bed and rectify the issue.

3. When the patient is lifted from the bed (with the patient's head supported), he/she will be raised to a sitting position.
4. When the patient is clear of the bed surface then swing their feet off the bed.
5. Using the handle and move the lift away from the bed.
6. When moving the lift away from the bed; turn the patient so that he/she faces assistant operating the lift.
7. Turn the control valve positioned away from the pump handle to lower the patient so that his/her feet rest on the base of the lift, straddling the mast.
8. With both hands firmly on the handle, pull the lift away from the bed and then push it from behind.

## 5.3 Transferring the Patient

**WARNING**

The lift is not a transport device. It is intended to transfer an individual from one resting surface to another (such as a bed to a wheelchair). Moving a person suspended in a sling over any distance is not recommended.

Do not attempt any transfer without approval of the patient's physician, nurse or medical attendant.

Before lifting or transferring the patient, the base legs must be locked in the open position for optimum stability and safety. Do not engage the rear locking casters when patient is in the lift.

### 5.3.1 Transferring the Patient for Use of Bathroom Facilities

**TIPS**

The slings with commode openings are recommended to be used with either a commode chair or a standard commode.

It is recommended that the sling remain connected to the hanger bar during the patient's use of either the commode chair or standard commode.

**WARNING**

The lift is not a transport device. When it is difficult to maneuver the lift towards the commode or the bathroom facility is too far from the bed; the patient must be transported to a wheelchair first.

1. With the patient correctly positioned on the sling, attached the sling to the hanger bar.
2. The patient should be elevated high enough to clear the commode chair/standard commode and their weight supported by the lift.
3. With the help of both assistants, guide the patient onto the commode chair/standard commode.
4. Lower the patient onto the commode chair/standard commode leaving the sling attached to the hanger bar.
5. When complete, recheck for correct attachment and then raise the patient off the commode chair.
6. When patient is clear of the commode surface (using the steering handles), move the lift away from the commode chair/standard commode.
7. To return patient to bed, reverse procedures concerning lifting the patient, operation and sling attachment.
8. To return or place patient in a wheelchair, refer to "Transferring the Patient to a Wheelchair" section of this manual.

### 5.3.2 Transferring the Patient for Using a Bath

1. Move the patient from the bed onto the wheelchair, refer to "Transferring the Patient to a Wheelchair" section of this manual.
2. The patient should be elevated high enough to clear the wheelchair and their weight supported by the lift.
3. Lower the patient into the portable bathtub.
4. Disconnect the chains/straps from sling and reattach to the portable bathtub.
5. With the lift, raise the sides of the portable bathtub.
6. Bathe the patient.
7. To return to the bed, reverse procedures concerning lifting the patient, operation and sling attachments.

### 5.3.3 Transferring the Patient from and to a Wheelchair

**WARNING**

The wheelchair wheels must be locked before lowering the patient into the wheelchair for transport.

1. The legs of the lift (with patient) shall be in open position.
2. Move the wheelchair into position.
3. Ensure the rear wheels of the wheelchair are locked to prevent further movement of the chair.
4. Position the patient over the seat with their face away from seat and their back against the back of the chair.

**TIPS**

Use the straps or handles on the side and the back of the sling to guide the patient's hips as far back as possible into the seat for proper positioning.

5. Lower the patient by operating the control valve.
6. With one assistant behind the chair and the other operating the lift, the assistant behind the chair will pull back on the grab handle (on select models) or sides of the sling to seat the patient well into the back of the chair. This will maintain a good center of balance and prevent the chair from tipping forward.
7. Disconnect the sling from the lift.
8. To return to the bed, reverse procedures concerning lifting the patient, operation and sling attachments.

### 5.3.4 Transferring the Patient from and to a Car

**TIPS**

It is recommended that two assistants help to transfer a patient from a car to a wheelchair.

1. To transfer a patient away from a car, with the first assistant supporting the patient, the second assistant lower the lift until the hooks of the hanger bar are even with the roof of the car.
2. Attach the sling to the hanger bar.
3. Lift the patient up off of seat until straps are taut.
4. Turn patient with sling until legs are outside of car.
5. Lift up on legs with one hand and tilt the patient back with the other hand.
6. The second assistant should pull the lift away from the car until the patient is completely clear of the door frame.
7. Release the patient back to his/her normal sitting position in the sling.
8. Place patient in wheelchair, refer to "Transferring the Patient to a Wheelchair" section of this manual.
9. To transfer a patient to the car, reverse the above steps.

# 6. Maintenance and Care

**TIPS**

For individual home use, periodic inspections of the lift will reveal any loose or worn parts. Follow the maintenance procedures described in this manual to ensure smooth operation and prolong its lifespan.

All parts of the Proactive Medical Lift are made from the highest grades of steel; however, metal-to-metal contact will wear down after considerable use.

**CAUTION**

There is no adjustment required for the casters or brakes, other than cleaning, lubrication, and checking the axle and swivel bolts for tightness. Remove all debris, etc., from the wheel and swivel bearings. If any parts are worn, replace them immediately.

If you have concerns about the safety of any part of the lift, contact your dealer immediately and inform them of the issue.

## 6.1 Detecting Wear and Damage

When examining the equipment, attention should be paid to all stressed parts, such as slings, hanger bar and any pivot for slings for signs of cracking, fraying, deformation or deterioration. Replace any defective parts immediately and ensure that the lift is not used until repairs are made.

## 6.2 Hydraulic Pump

All parts of the hydraulic pump are precision-machined, carefully assembled, and tested to ensure reliable service. The pump assembly is completely enclosed and sealed with Neoprene rings to prevent hydraulic oil leakage. A small amount of oil (about a drop) may accumulate around the piston from time to time and should be removed with a facial tissue.

**WARNING**

The hydraulic pump is sealed at the factory. If service is required, the pump unit must be returned to the factory for repair. Do not attempt to open the hydraulic pump or seek local service. Doing so will void the warranty and may result in damage and costly repairs. Consult your dealer for further information.

## 6.3 Lubrication

Minimal maintenance is required for the lift. A check and lubrication every six months should ensure continued safety and reliability.

The casters must swivel and roll smoothly. A light grease (waterproof auto lubricant) may be applied to the ball-bearing swivel of the casters once a year.

Apply more frequently if the casters are exposed to extremely moist conditions.

**IMPORTANT**

Lubricate all necessary pivot points, including but not limited to the list below. Wipe all excess lubricant from lift surface.

1. Hanger bar at mounting bracket
2. Hanger bar to mast mount
3. Mast mounting bracket
4. Base to mast mount
5. Rear casters
6. Front casters

## 6.4 Cleaning

Minimal maintenance is required for the lift. A check and lubrication every six months should ensure continued safety and reliability.

The casters must swivel and roll smoothly. A light grease (waterproof auto lubricant) may be applied to the ball-bearing swivel of the casters once a year.

**TIPS**

Regular cleaning and disinfection can ensure the lift remains sanitary and extend the life expectancy of it. Follow the recommendations detailed in this manual to maintain your lift at an optimal hygiene standard.

**CAUTION**

Make sure the power is off and stow the power cord properly, if electric upgrade kit installed.

Lock the caster base to ensure the lift cannot move.

Never clean the lift by pouring water on it, nor with high-pressure hoses nor in tunnel washes.

Avoid excess water on the pump, electric actuator, control box, hand pendant and power adapter.

Do not scrape surfaces when cleaning the tough stains.

Never use abrasives, cleaning powder or cleaning pads that may damage the components.

Use a slightly damp soft cloth along with standard disinfectant to wipe downward gently; yet, avoid excessive use of liquid.

Auto wax or furniture polish is allowed to be used to help maintain the sparkling finish over a long period of time.

Always dry the lift thoroughly and carefully test it after it has been cleaned.

The sling should be washed regularly in water temperature of 140F (60˚C) and a biological solution.

## 6.5 Maintenance Schedule

Minimal maintenance is required for the lift. A check and lubrication every six months should ensure continued safety and reliability.

| Item | Initially | Institutional Inspect & Adjust (Monthly) | In-home Inspect & Adjust (6 Months) |
|---|---|---|---|
| **The Caster Base** | | | |
| Base opens/closes with ease. | **O** | **O** | **O** |
| Inspect for missing hardware. | **O** | **O** | **O** |
| Inspect casters and axle bolts for tightness. | **O** | **O** | **O** |
| Inspect casters for smooth swivel and roll. | **O** | **O** | **O** |
| Inspect and clear debris on casters. | **O** | **O** | **O** |

| Item | Initially | Institutional Inspect & Adjust (Monthly) | In-home Inspect & Adjust (6 Months) |
|---|---|---|---|
| **Shifter Handle** | | | |
| Smooth operation. | **O** | **O** | **O** |
| Locks adjustable base when shifter is engaged. | **O** | **O** | **O** |
| **The Boom** | | | |
| Inspect all hardware and hanger bar supports. | **O** | **O** | **O** |
| Inspect joints for wear. | **O** | **O** | **O** |
| Inspect for deformation. | **O** | **O** | **O** |
| Inspect the mast pivot joint under the rubber cover. Ensure the bolt is properly secured. | **O** | **O** | **O** |
| **The Hanger/Swivel Bar** | | | |
| Inspect the bolt/hooks for wear and tear. | **O** | **O** | **O** |
| Inspect the sling hooks for wear or deformation. | **O** | **O** | **O** |
| **The Mast** | | | |
| Securely attached to the boom. | **O** | **O** | **O** |
| Inspect for deformation. | **O** | **O** | **O** |
| **The Electric Actuator Assembly** | | | |
| Inspect hardware on mast and boom. | **O** | **O** | **O** |
| Inspect joints on mast and boom. | **O** | **O** | **O** |
| Inspect for wear and tear. Return to the supplier when damaged. | **O** | **O** | **O** |
| Cycle to ensure smooth quiet operation. | **O** | **O** | **O** |
| Check that the emergency release operates. | **O** | **O** | **O** |
| **Sling and Hardware** | | | |
| Check all sling attachments **EACH TIME IT IS USED*** to ensure proper connection and patient safety. | **O*** | **O*** | **O*** |
| Inspect sling fabric for wear. | **O** | **O** | **O** |
| Inspect strap for wear. | **O** | **O** | **O** |

# 7.Troubleshooting Guide

| Symptoms | Faults | Solutions |
|---|---|---|
| Pump assembly idle when pump handle is engaged. | Hydraulic pump in need of service or load is too high. | Reduce load.<br>Replace if worn. |
| Actuator idle when lift buttons are pressed. | Battery Low.<br>Hand pendant or actuator connector loose.<br>Red emergency stop button pressed in.<br>Battery not connected properly to control box.<br>The connecting terminals are damaged.<br>Actuator in need of service or load is too high. | Recharge battery with power cord or standalone charger.<br>Ensure tight connection of all connectors to control box.<br>Rotate the emergency button clockwise until it pops out.<br>Dismount and remount the battery to control box.<br>Replace the battery pack. Contact your supplier.<br>Contact your supplier for actuator maintenance. |
| Lift feels loose. | Mast/Base joint loose. | Refer to Section 3.3. |
| Casters/Brakes noisy or stiff. | Debris or fluff in bearings. | Replace casters. |
| Noisy or dry sound from pivots. | Needs lubrication. | Lubricate your lift. |
| Unusual noise from pump. | Pump is worn or damaged.<br>Spindle is bent. | Replace the pump. Contact your supplier. |
| Unusual noise from actuator. | Actuator is worn or damaged.<br>Spindle is bent. | Replace the actuator. Contact your supplier. |
| Lift arm will not lower when the pump control valve is opened. | Lift arm requires a minimum weight load to lower. | Pull down slightly on the lift arm. |
| Lift arms will not lower during a power retraction. | The bolt at the junction of the hanger bar and mast may not be properly installed. | Tighten the mast and hanger bar pivot bolt. |

**TIPS**

If problems persist following the above remedial procedures, please contact your dealer or the manufacturer.

# 8. Limited Warranty

Your Proactive Medical brand product is warranted as follows:

Electronics: 2 Years

Frame: 3 Years

Battery: 1 Year

This warranty does not cover device failure due to owner misuse or negligence or normal wear and tear. The warranty does not extend to nondurable components, such as rubber accessories, casters and etc. which are subject to normal wear and need periodic replacement.

If you have a question about your Proactive Medical device or this warranty; please contact an authorized Proactive Medical dealer.

# 9.Available Slings Compatible with Patient Lift

| | |
|---|---|
| **Sit-to Stand Sling** | |
| 30129 | Sit to Stand Solid Patient Stand-Assist Sling-Medium |
| 30130 | Sit to Stand Solid Patient Stand-Assist Sling-Large |
| 30131 | Sit to Stand Solid Patient Stand-Assist Sling-X Large |
| 30139 | Sit to Stand Solid Patient Stand-Assist Sling -XX Large |
| **Padded Sit-to Stand Sling** | |
| 30661 | Deluxe Sit-to-Stand Sling, Padded, Small |
| 30662 | Deluxe Sit-to-Stand Sling, Padded, Medium |
| 30663 | Deluxe Sit-to-Stand Sling, Padded, Large |
| 30664 | Deluxe Sit-to-Stand Sling, Padded, X-Large |
| **Transfer Sling** | |
| 30134 | Sit to Stand Transfer Patient Sling- Large |
| 30136 | Sit to Stand Transfer Patient Sling -X Large |
| **Buttocks Support Strap** | |
| 30669SA | Sit to Stand Buttocks Support Strap, Standard |
| 30669B | Sit to Stand Buttocks Support Strap, Bariatric |
| **Knee Strap Brace** | |
| 31230 | Sit to Stand Knee Strap Brace |

# Appendix

## Service record

| Date | Performed by | Condition Report |
|---|---|---|
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