

User-Service Manual
Joerns Lifting and Repositioning
Hoyer® Pro600 Ceiling Lift

To avoid injury, read user's manual before using.



redefining patient handling



Disclaimer

This manual contains general instruction of the use, operation and care of this product. The instructions are not all-inclusive. Safe and proper use of this product is solely at the discretion of the user. Safety information is included as a service to the user. All other safety measures taken by the user should be within and under consideration of applicable regulations. It is recommended that training on the proper use of this product be provided before using this product in an actual situation.

Retain this manual for future reference. Include it with the product in the event of transfer to new users. Additional free copies are available upon request from Customer Service.

Proprietary Notice

The information disclosed in this manual is the property of Joerns Healthcare. Joerns Healthcare reserves all patent rights, proprietary design rights, manufacturing rights, reproduction use rights, and sales use rights thereto, and to any article disclosed therein except to the extent those rights are expressly granted to others or where not applicable to vendor proprietary parts.

Important Precautions

- ⚠️ Danger:** Electric shock can cause death or serious injury. Charge the lift batteries only as described in this manual.
- ⚠️ Warning:** Improper use of the lift can cause injury. Use the lift only for the purpose described in this manual.
- ⚠️ Warning:** Untrained operators can cause injury or be injured. Permit only trained personnel to operate the lift.
- ⚠️ Warning:** Improper operation can cause injury. Operate the lift only as described in this manual.
- ⚠️ Warning:** Helpers can cause injury or be injured. Maintain control of the lift, operate the controls and direct any helpers.
- ⚠️ Warning:** Improper maintenance can cause injury. Maintain the lift only as described in this manual.
- ⚠️ Warning:** Improper parts and service can cause injury. Use only Joerns Healthcare parts and Joerns Healthcare approved items on the lift.

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Learning About the Lift

Lift Description

The Hoyer® Pro600 is a device for lifting and transporting a patient. The lift is intended for professional use by trained operators. Additional help may be necessary when using the lift.

General specifications are rounded to the nearest whole number. For detailed specifications, contact Joerns Healthcare Customer Service at 800.826.0270. Joerns Healthcare reserves the right to change specifications without notice.

1. **Hand Controller:** Used to control raise and lower functions as well as traverse functions on power traverse models.
2. **Spreader Bar Assembly:** Used as the main support for lifting the patient. Sling can be directly looped to the hooks on the ends for two point attachment during certain transfer applications.
3. **Scale (optional, not shown):** Accurate to within 1/10th of a pound. Features a LCD readout, auto-zeroing and the capability of displaying both pounds and kilograms.
4. **Side Suspender Bars:** Attached to spreader bar ends for use in four-point sling attachments. This is the most common transfer application for optimum patient comfort.
5. **Lifting Strap:** Attaches the spreader bar to the lifting motor.
6. **Emergency Lowering Pullcord:** This feature is to be used for lowering the patient only when all other attempts fail.
7. **On/Off Switch and Emergency Stop:** Toggle switch turns lift on and off.

8. **Battery Level Indicator Gauge:** Allows the user to monitor battery levels at all times. The readings should always be in the “green zone”. If levels fall below green (into yellow or red), lift should be charged immediately. The “smart charge” battery charging station makes overcharging impossible. An audible tone will sound if batteries are at a critically low level.

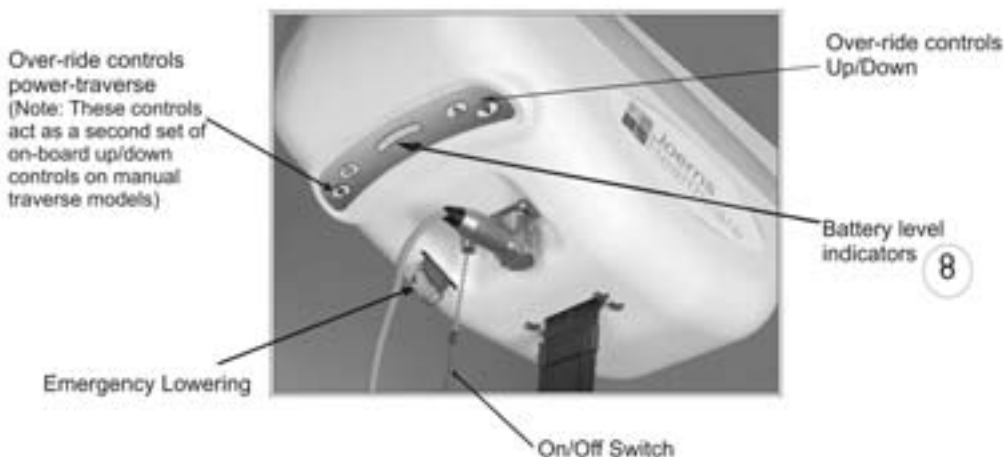


Figure 1
Components

Operator Skills and Training

Skills

Operators need a working knowledge of patient-handling procedures.

Operators need the ability to assist the patient.

Training

Follow a training program designed by your training officer.

Read this manual.

Practice with the lift before using it in regular service.

Test each trainee's understanding of the lift. Keep training records. Use the convenient form on page 10.

Using the Lift

Before Placing the Lift in Service

1. Require all personnel who will work with the lift to read this manual.
2. Assign appropriate personnel to confirm that the lift operates properly. Have them follow instruction in *Inspecting the Lift* on page 8.
3. Install 20A fuse (supplied and attached to the trolley) into the panel fuse holder located on the top surface of the plastic shroud.

General Guidelines for Use

1. Joerns recommends a minimum of two trained operators. Additional help may be necessary for some procedures or circumstances. Refer to your company's policy.
2. Follow standard patient-handling procedures when operating the lift as defined by your company's policy.
3. Stay with the patient at all times.

Using the Lift Controls

To use these controls, press the raise button to raise the patient. Press the lower button to lower the patient. Press either of the power traverse buttons to move forward or backward along the track (Figure 2).

Emergency Lowering

In the event of a malfunction, locate the emergency lowering cord ring (Figure 3) and pull until fully extended. Once extended, pull on emergency lowering cord to safely lower patient to bed or chair.

Moving the Lift to the Patient

Important: Ensure that the lift is directly above patient prior to attaching sling. Do not attach sling if lift is misaligned to the front, back or either side.

If the Patient is in a Bed

1. With the sling in place, lower the spreader bar until the side suspender bars are just above the patient's abdomen or lower chest. Ensure that the spreader bar is parallel with the patient's shoulders (Figure 4).



Figure 2



Figure 3



Figure 4

If the Patient is in a Chair

1. If the patient is in a chair, lock the chair's wheels if so equipped.
2. With the sling in place, lower the spreader bar until the spreader bar is level with the patient's forehead and is 10 to 12 inches in front of the patient (Figure 5).

Attaching the Sling to the Lift

Decide in what position the patient should be when lifted.

To lift the patient in a seated position, use a shorter set of loops at the shoulders and a longer set of loops at the legs. This places the patient's head higher than his/her legs.

To lift in a reclined position use a longer set of loops at the shoulders and a shorter set of loops at the legs. This will allow the patient's head to be level with his/her legs.

Attach the back loops to the hanger by slipping the right back loop over the right back hook and the left back loop over the left back hook. **Note:** The left and right refer to the patient's left and right.

Configuring the Sling for Normal Use

1. Run the left leg strap under the patient's left leg, up between the patient's legs, and attach to the right front hook (Figure 6).
2. Run the right leg strap under the patient's right leg, up between the patient's legs, and attach to the left front hook (Figure 7).



Figure 5



Figure 6



Figure 7

Configuring the Sling for Impairments such as Groin Injury

1. Run the right leg strap under both of the patient's legs and attach to the left front hook.
2. Run the left leg strap under both of the patient's legs and attach to the right front hook (Figure 8).

Lifting the Patient

If the Patient is in a Bed or on the Floor

1. Once sling is attached to spreader bar raise the patient just enough to check the patient's safety and comfort. Ensure that leg loops are not bunched up or twisted. Ensure that leg loops are not riding up uncomfortably into patient's groin. Once sling has been checked and adjusted if required, continue to raise the patient to desired height (Figure 9).
2. As you raise the spreader bar, have attendants use the sling to guide the patient.

If the Patient is in a Chair

1. Raise the patient just enough to check the patient's safety and comfort. Ensure that leg loops are not bunched up or twisted. Ensure that leg loops are not rising up uncomfortably into patient's groin (Figure 10).
2. Once sling has been checked and adjusted if required, continue to raise the patient to desired height.

Transporting the Patient

1. Lift patient as previously described in this manual.
2. Ensure there are no obstructions in the path of travel.
3. Depress the appropriate power traverse button on the hand controller if so equipped. For the manual traverse models, push or pull on the sling.
4. Walk with the patient, stabilizing them at the same time to ensure safety.



Figure 8



Figure 9



Figure 10



Lowering the Patient

Lowering the Patient to a Bed

1. Lower the patient slowly to the bed. Once the patient is fully supported by the bed, disconnect the sling from the lift.
2. Roll the patient on to his/her side, and slide the sling from beneath the patient (Figure 11).

Lowering the Patient to a Chair

1. If lowering the patient into a wheelchair, lock the wheelchair's wheels.
2. Position the patient over the chair.
3. Lower the patient slowly into the chair. Have the attendant guide the patient into the chair.
4. As the patient settles in the chair, have the attendant grasp the handle on the back of the sling and pull upward gently, allowing the patient to sit in an upright position (Figure 12).
5. Once the patient is fully supported by the chair disconnect the sling from the lift. **Note:** If lowering the patient to a toilet use a toileting sling. This type of sling can be kept attached to the patient while they use the toilet.
6. When finished transporting the patient, remove the sling from behind the patient.



Figure 11



Figure 12

Charging the Batteries

Important: Totally discharging the lift batteries reduces battery life.

1. Charge the lift when it is not in use or if the orange or red LED's are illuminated on the battery indicator.
2. Raise the spreader bar to a safe height.
3. Depress the traverse button on the hand controller (or manually move the lift).
4. Move the lift until it reaches the charging station.
5. If batteries are discharged to a level where the lift will not move, manually pull it to the charging station.
6. Charge the lift for at least two hours before returning it to service.
7. The LED's will flash sequentially when proper charging is initiated.

Note: Joerns Healthcare recommends that the lift remain connected to the battery charger any time it is not in use.

Using Additional Help

Joerns recommends two trained operators. He/she may need additional help. Refer to your company policy for safe patient handling.

Operators should maintain control of the lift and direct helpers.

Return to Charge Option (RTC - Pro600)

Activating On/Off

To Activate "ON"

Hold the lift button for 15 seconds. The lift will beep twice.

This display will show "Active".

To Activate "OFF"

Hold the lift button for 15 seconds. The lift will beep once. The lift will show "OFF".

The RTC sequence is to lift until the upper limit has been reached, then traverse toward the charger until the charger has been detected or 34 seconds of maximum traverse time. Lower for 10 seconds so that the spreader bar is easier to grab, turn off and charge.

The RTC sequence can be stopped after the first 4 seconds of lift by hitting any switch. The RTC will immediately stop if the lift current is greater than 5 amps (cannot RTC if the lift has a load in it).

To Initiate RTC

Press and hold the traverse left and right buttons at the same time for 4 seconds (beeper will sound continuously). Once the beeping stops, both buttons should be released and the lift sequence will commence.

Maintaining the Lift

Maintenance Schedule

The lift requires regular maintenance. Set up and follow a maintenance schedule.

The following chart represents minimum maintenance.

	As Needed	Each Month
Cleaning	✓	
Inspecting	✓	✓

If the inspection shows damage or excessive wear, remove the lift from service until the repair is made. Refer to *Repair, Parts and Service* section.

Lubrication

The internal ring gear requires lubrication annually. For optimal performance, NYE Rheolube 380 or equivalent industrial grade grease should be used. This must be performed by a qualified technician only.

Cleaning the Lift

Clean all surfaces of the lift with a damp, soft cloth and a mild detergent. Use a stiff-bristled brush if necessary. Wipe the lift using a damp cloth. Dry the lift with a towel. Joerns Healthcare recommends inspecting the lift for obvious damage as you disinfect it.

Inspecting the Lift

Have your service technician check the following:

- Are all components present?
- Does the spreader bar move up and down smoothly?
- Are the lift components free of excessive wear?
- Do all controls function properly?
- Do all safety cutouts function properly?
- Are the slings in good condition with no cuts or frayed edges?
- Are all screws, nuts, bolts, and pins present and securely in place?
- Does the lift traverse smoothly?
- Is the main lifting strap in good condition with no cuts or fray?

Maintaining the Track

The ceiling lift track system is an important part of your overall lifting system. All tracks and related components require regular maintenance, inspection and load testing. Any loose fittings must be repaired prior to using the lift. Any lateral or end-to-end movement or deflection in the track is a sign of abnormal wear. Do not use the lift if any of these conditions arise. Have your track system professionally serviced prior to putting the lift back into service. Annual track inspections and load testing are imperative and required. Never use any track system that has not been load tested in the last 12 months.

Inspecting Ceiling Lift Straps

Important: Aid for inspecting ceiling lift straps (Figure 13). If any of the below conditions are discovered, remove the lift immediately and contact Joerns Healthcare 800.826.0270

Repair Parts and Service

To order parts or for professional lift repair, contact Joerns Healthcare at 800.826.0270.

Joerns Healthcare (or an approved dealer) are the only agents authorized to manage, service or repair this product.

Description	Part Number
Hand Controller	J3210
7003 Control Board	J2601
Battery Meter	J2540
Case	J6166
Spreader Bar	JU3040
Batteries	J3410
Lifting Strap	J6164
Clevis Pin	JU3190
Battery Charger	J4005



Figure 13



Lifter Maintenance Checklist

To be Inspected by User	As Needed	Each Use	Monthly	Annually	Every 2 Years
Clean Lift as described in <i>Maintaining the Lift</i> section.	✓				
Inspect lifting strap for cuts and/or fraying and/or unravelled stitching. Replace strap immediately if damaged. Do not use lift if strap is damaged		✓			
Inspect all spreader bar and side bar hardware for loose and/or missing components. Repair any deficiencies before using lift.		✓			
Inspect/test hand controller functions			✓		
Inspect/test charging functions			✓		
Inspect/test all limit switch functions				✓	
Inspect/adjust all trolley wheels. Clean as required				✓	
Inspect/test emergency lowering and emergency stop functions				✓	
Inspect lift frame for loose/missing fasteners				✓	
Inspect/test CNTC free wheel mechanism/lubricate main gear				✓	
Replace main lifting strap					✓
Replace batteries					✓
Ceiling Lift Track					
Inspect and tighten all track brackets				✓	
Inspect and tighten all track end stops				✓	
Load test all tracks				✓	
Slings					
Inspect for cuts, tears, fraying and unravelled stitching. Immediately remove from service if damaged		✓			
Inspect for signs of bleaching - as per sling instructions		✓			

Joerns Healthcare Warranty Program

for Joerns® Hoyer® Pro600

Thank you for purchasing the Hoyer Pro600 Ceiling Lift. With proper care and maintenance, you will enjoy many years of service from our carefully crafted product.

Joerns warrants the products we manufacture to be free from defects in materials and workmanship for one year except as follows:

- External finishes (gelcoat, decals, paint, etc.) are warranted for 90 days.
- Soft goods (webbing, vinyl, foam, etc.) are warranted for 90 days.
- Repairs and services are warranted for 90 days or until the end of the time period(s) above, whichever comes last.

This limited warranty applies when you use and care for the product properly. If the product is not used and cared for properly, the warranty is void. The warranty period begins the day the product is shipped from Joerns Healthcare or the day you received it if you have proof of the delivery date. Shipping charges and travel time are not covered by the limited warranty. We are not liable for shipping damages or damages sustained through using the product.

Limited Warranty Obligation

If a product or part is proven to be defective, Joerns Healthcare will repair or replace it. At our option, we will refund the product's purchase price. The purchaser accepts these terms in lieu of all damages.

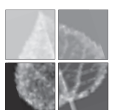
This is a summary of the limited warranty. The actual terms and conditions of the limited warranty, and the limitations of liability and disclaimers, are available upon request by calling 800.826.0270.

Customer Service

Customer Service Product Support is an important aspect of each Joerns Healthcare product.

For assistance with the lift, contact Joerns Healthcare Customer Service at 800.826.0270.

Please have the serial number of your Joerns Healthcare product available when calling Customer Service, and include it in all written communications.



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