

# Hoyer®

## Hoyer® Power Patient Lifters P-C-HLA-2 & HPL402

User  
Instruction  
Manual &  
Warranty





**JOERNS LISTENS**

Thank you for choosing a Hoyer Lifter. We want to hear your questions or comments about this manual, the safety and reliability of your lifter and the service you receive from your Joerns Healthcare Supplier. Please feel free to write or call us at the address and telephone number below:

**Joerns Healthcare Inc.**  
2100 Design Road  
Suite 100, Arlington  
TX 76014, USA  
Tel: 800-826-0270  
Fax: 800-457-8827  
[www.joerns.com](http://www.joerns.com)

**FOR ANSWERS TO YOUR QUESTIONS**

Your authorized supplier knows your lifter best and can answer most of your questions about lifter safety, use and maintenance. For future reference, fill in the following:

Supplier: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Serial #: \_\_\_\_\_

Date/Purchased: \_\_\_\_\_

## TABLE OF CONTENTS

INTRODUCTION .....	3
TABLE OF CONTENTS .....	4
MODELS .....	5
ASSEMBLY .....	6
OPERATING INSTRUCTIONS .....	9
MAINTENANCE AND CARE .....	11
TROUBLESHOOTING .....	12
SPECIFICATIONS .....	13
LIMITED WARRANTY .....	14

This manual contains important safety and maintenance instructions. Please read it carefully before using your patient lifter and refer to it as often as needed for safe and efficient use.

If you have questions regarding the safe use and/or assembly, maintenance or specifications of your patient lifter, you should call Joerns Healthcare at 800.826.0270

For service and repair, remember your authorized Hoyer dealer is able to provide the assistance you need.

Save this manual for future reference. For non-homecare lifters, your maintenance department should keep this manual.

**CAUTION** - For patient use, refer to the separate manual, "How To Use a Patient Lifter." If you did not receive a copy or need additional copies contact: Joerns Healthcare at 800.826.0270.

## **WARNING**

Using other manufacturers' parts on Hoyer products is unsafe and may result in serious injury to patient and/or attendant. Use only Hoyer parts. Hoyer lifter parts are NOT interchangeable with other manufacturers' products. Replace any worn parts immediately.

## MODELS



HPL402



P-C-HLA-2

## ASSEMBLY

The following tools are required for assembly:

HPL402: 3/4" & 1/2" wrench, 3/16" hex wrench, 1/8" hex wrench, and a thin layer of grease should be applied to all bolts.

P-C-HLA-2: two 9/16" wrenches, 1/8" hex wrench, and a thin layer of grease should be applied to all bolts.

1. Carefully unpack Hoyer Lifter. Check for 6-point cradle and adjusting lever handle.
- 2a. P-C-HLA-2– Insert mast in base sleeve (Fig. 1). Be sure notch on end of mast fits over bolt in bottom of mast sleeve. Mast must lock into position in base sleeve, making it impossible to rotate. Check carefully to be certain mast cannot rotate.
- 2b. HPL402– Insert mast in base and tighten bolt.
3. Make certain boom points in same direction as base legs. Thread mast safety lock and stud into threaded hole in mast sleeve. Tighten firmly, locking mast into base (Fig. 2). Keep mast and base locked at all times except when removing mast from base for storage.

### **⚠ WARNING**

HPL402 only– all shoulder bolts must engage through bracket on both sides. If bolt is not fully engaged, misalignment and premature failure may result. Worn parts could fail, resulting in injury to resident/caregiver.

4. a. P-C-HLA-2 only– Insert boom end into yoke hinge at the top of mast. Fasten bolt and nut (Fig. 3). Be certain hex of bolt head fits into formed hex on side of hinge and that plastic washer is under lock nut.
- b. HPL402– Attach boom to top of mast with hardware (Fig. 4).



Figure 1



Figure 2



Figure 3



Figure 4

5. a. HPL402 only– Attach the actuator to the mast and the motor end to the boom with hardware. (Fig. 5)
- b. P-C-HLA-2– Attach top of actuator to the boom and motor end to the mast.
6. Cradle Attachment (Fig. 6)
  - a. Remove nut and bolt from cradle.
  - b. Hold cradle in position at the end of the boom and align the holes of the pin and cap with the holes in the boom end fork.
  - c. P-C-HLA-2 only– Insert supplied bolt and washer through boom fork, cradle cap and pin. Washers must be placed on the outside of the fork under bolt head and under the nut. Place nut on bolt and secure tightly.
  - d. HPL402– Attach cradle with hardware.
  - e. Swivel cradle to check for free movement. (HPL402 only - Pull vinyl boot over connection, making sure middle rib is over hardware).



Figure 5



Figure 6

## **⚠ WARNING**

Inside center attachment points on cradle are used only for Hoyer slings with chains or straps. The four outside attachments points are used for Hoyer 4-point slings.

## **⚠ WARNING**

The large thrust washer must be inserted on the cradle hanger post as shown in Figure 7. If washer is not present, the cradle hanger post and cradle center may wear prematurely. Worn cradle parts could fail, resulting in injury to resident/caregiver. Hanger post should protrude cradle center by 1/16<sup>th</sup> inch.



Figure 7

8. Attach the power unit control box to bracket on back of mast. Attach battery pack to control box and bracket. (HPL402 only– route actuator cable along mast and secure with clips provided. Make sure to leave approximately 8 inches of cable prior to the top clip to allow for maximum lifter articulation). Plug cords in proper outlets, pressing firmly into place (Fig. 8).



Figure 8

9. HPL402 only - Raise boom to highest position; pull vinyl boot over bolted connection (Fig. 9,10).
10. Attach adjusting lever handle into base (Fig. 11).
11. Wheel locks are provided for parking. To lock casters, step on cam lever on side of casters. To unlock, step on highest cam lever (Fig. 12).

### **⚠ WARNING**

Never lock wheel locks or block wheels when lifting someone. Wheel locks are provided for parking the lifter only.

BE SURE TO READ THE SEPARATE MANUAL "HOW TO USE A PATIENT LIFTER" BEFORE ATTEMPTING A LIFT.



Figure 9



Figure 10



Figure 11



Figure 12



## OPERATING INSTRUCTIONS

### A. HAND CONTROL

The hand control activates the lifter and has two buttons; one "up" and one "down".

Simply press the button for the direction you want the lifter to move.

### B. BATTERY CHARGING

Plug the charger into the wall socket (110 V) prior to connecting the plug to the control box.

If the unit sits idle for an extended period of time, the battery life diminishes. A control box with battery should be charged at least every six months. However, the longest life is obtained when the battery is fully charged.

After approximately 6 hours of charging, the batteries will be fully charged.

**NOTE** - It is not possible to overcharge batteries.  
(Battery is a Gel Cell).

**NOTE** - Battery alarm will go off when battery is low.

### C. USER INSTRUCTIONS

The duty cycle printed on the label of the control box must always be noted. If this is exceeded, the control box could overheat and become damaged. Unless otherwise specified on the label, the duty cycle maximum is 10% or 6 min/hour of continuous operation.

To widen or narrow the base, pull adjustment handle back to unlock. Handle can be moved to the right to widen the base or to the left to narrow the base.

**BE SURE TO READ "HOW TO USE A PATIENT LIFTER MANUAL" BEFORE ATTEMPTING A LIFT.**

## D. EMERGENCY STOP BUTTON

(Fig. 11)

The red emergency stop button disconnects battery power to the control box. Pushing the button activates the stop button. To deactivate, rotate the stop button clockwise until it releases.

**NOTE** - Power lifter will not be operable during the time the charger is connected.

**NOTE** - Do not charge the battery while someone is in the lifter, and especially if unit is being used in wet or bath areas.

**CAUTION** - By unauthorized opening of the system, there is a risk that it may malfunction at a later date.

### MANUAL EMERGENCY DOWN (HPL402 only)

In case of handset failure, it is possible to operate the main lift actuator by using the point of a ballpoint pen in the positions marked on the front cover of the control box. In the event of total power failure, pull on the release ring to lower patient.

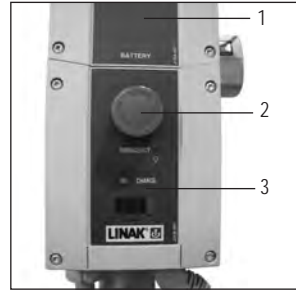


Figure 11

1. Battery
2. Emergency Stop Button
3. Control Box

## **⚠ WARNING**

Lifters can tip over. Keep base widened for stability. NEVER lock wheel locks or block wheels when lifting someone. Wheel locks are provided for parking. To lock casters, step on cam lever on side of casters. To unlock, step on highest cam lever.

## **⚠ WARNING**

Do not wash slings with bleach. Bleach will damage material. Slings can suffer damage during whashing and drying.

## **⚠ WARNING**

Always check slings before use. Bleached, torn, cut, frayed, or broken slings are unsafe and could result in serious injury or death to patient. Destroy and discard worn slings.

## MAINTENANCE & CARE

Regular maintenance of lifters and accessories is necessary to assure proper and safe operation. Read and observe the following recommended instructions:

	Initially	Before Each Use	Bi-Monthly
<b>1. Base and Wheels</b>			
Base is even and level (all four wheels are on the floor)	x	x	
Wheel bolts are tight	x	x	
Wheels swivel and roll easily	x	x	
<b>2. Base Adjustment</b>			
Base locks securely, all parts are present	x	x	
Base opens and closes smoothly	x	x	
Check spreader lock and all hardware for wear		x	
<b>3. Mast</b>			
Mast fully engaged and locked into mast sleeve	x	x	
Inspect for bends or deflections		x	
Inspect all bolts and nuts for wear		x	
<b>4. Boom</b>			
Inspect all bolts and nuts for wear		x	
Inspect to ensure the boom is centered between the base legs	x	x	
<b>5. Cradle</b>			
Check hanger post for wear or damage. Replace post if wear exceeds 1/16 inch.		x	
Check sling attachments for wear or deflectionxx			
<b>6. Slings and Hardware</b>			
Check metal parts for wear or damage		x	
Check slings and web straps for wear or damage	x	x	
<b>7. Lubrication</b>			
Oil all pivot joints, including:			
Top of mast where boom attaches			x
Top and bottom of actuator mounting			x
Use a light grease to lubricate base adjustment lock plate and all rotating hardware			x
Wheel and swivel bearings			x
<b>8. Cleaning</b>			
Use mild soap to clean; dry thoroughly			x
Apply auto or appliance wax			x
Keep painted surface clean from oil		x	
Do not wash under water pressure			

## TROUBLESHOOTING

Symptom	Possible Cause	Action
Power indicator does not light up.	<ul style="list-style-type: none"> <li>• Not connected to mains</li> <li>• The fuse has blown</li> <li>• Control box defective</li> </ul>	<ul style="list-style-type: none"> <li>• Connect to mains</li> <li>• Replace fuse, if the system is prepared for external fuse replacement, or send the system for repair</li> <li>• Send Control box for repair</li> </ul>
Power indicator lights up but actuator does not run. Relays in control box are heard clicking.	<ul style="list-style-type: none"> <li>• Actuator plug not pushed into control box properly</li> <li>• Actuator defective</li> <li>• Control box defective</li> </ul>	<ul style="list-style-type: none"> <li>• Push actuator plug into control box properly</li> <li>• Replace actuator</li> <li>• Replace control box</li> </ul>
Power indicator lights up but actuator does not run. No relay noise is heard from control box.	<ul style="list-style-type: none"> <li>• Control box defective</li> <li>• Handset defective</li> <li>• Handset plug not inserted properly</li> <li>• Emergency stop engaged</li> <li>• Charger plugged in</li> </ul>	<ul style="list-style-type: none"> <li>• Send control box for repair</li> <li>• Send handset for repair</li> <li>• Check all cord connections</li> <li>• Deactivate emergency stop</li> <li>• Unplug charger</li> </ul>
Control box completely dead on battery and no relay clicking is heard.	<ul style="list-style-type: none"> <li>• Battery completely flat</li> <li>• Battery defective</li> </ul>	<ul style="list-style-type: none"> <li>• Charge battery</li> <li>• Replace battery</li> </ul>
Control box okay apart from one direction on one channel.	<ul style="list-style-type: none"> <li>• Handset defective</li> <li>• Control box defective</li> </ul>	<ul style="list-style-type: none"> <li>• Send handset for repair</li> <li>• Send control box for repair</li> </ul>

SPECIFICATIONS

	HPL402	P-C-HLA-2
Base	Adj. U	Adj. U
Max. Weight Capacity	400 lbs.	400 lbs.
Lift-range of Boom	29"-76"	29"-80"
Width of Base	24"-41"	23"-39"
Length of Base	43.5"	41"
Base Clearance	4.875"	5.5"
Finish	Tan	Chrome

**ONE YEAR LIMITED WARRANTY**

Your Hoyer brand power lifter is warranted to be free of defects in materials and workmanship for one (1) year after purchase by the original consumer/ owner. Components included in this warranty are as follows:

1. Lifter structure; base, mast, boom, and suspension cradle
2. Hydraulic pump/ jack (for manual lifters)
3. Electronic control box, hand pendant, actuator and battery (for power lifters)

**ADDITIONAL WARRANTY**

All other non-durable components, such as rubber parts, plastic parts and painted surfaces, are warranted for 3 months from first consumer purchase. These are subject to normal wear and replacement.

**LIMITATIONS**

1. We do not warrant damage due to:
  - a. Neglect, misuse or improper installation or repair
  - b. Use of parts or changes not authorized by Joerns Healthcare
  - c. Exceeding the specified weight limit of the lifter
2. This warranty is void if the original lifter serial number tag/label is removed or altered.
3. This warranty applies in the USA only. Check with your supplier to find out if international warranties apply.

**WHAT WE WILL DO**

Our sole liability is to repair or replace covered parts.

This is your only remedy for consequential damages.

**WHAT YOU MUST DO**

1. Obtain from us, while this warranty is in effect, prior approval for return or repair of covered parts.
2. Contact Joerns Healthcare at 1-800-826-0270 for shipping information.
3. Pay the cost of labor to install or repair parts.

**NOTICE TO CONSUMER**

There are no other express warranties. To the extent permitted by law, any implied warranty (including a warranty of merchantability or fitness for a particular purpose) is limited to:

1. One (1) from the first consumer purchase, and;
2. Repair or replacement of the defective part only.

This warranty gives you certain legal rights. You may also have other rights that vary from state to state.





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Distributed by:

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