

Hoyer®

Hoyer® Ascend User Instruction Manual & Warranty

To avoid injury, read user manual prior to use.

Hoyer® Ascend Manuel de l'utilisateur et garantie

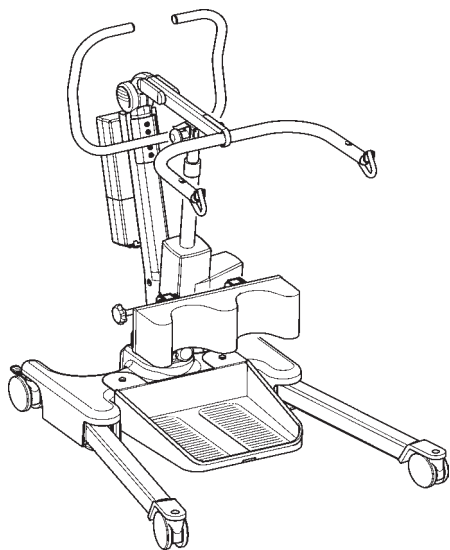
Afin d'éviter tout accident, veuillez lire attentivement la notice avant utilisation.

Hoyer® Ascend Manual de Instrucciones y Garantía para el Usuario

Para evitar posibles daños, lea previamente el manual de usuario.

Hoyer® Ascend Benutzerhandbuch und Garantie

Um Verletzungen zu vermeiden, lesen Sie bitte die Gebrauchsanweisung vor der ersten Benutzung.



 Joerns
Healthcare

Redefining patient handling

Manufacturer's Contact Details

Hoyer®

USA

Joerns Healthcare Inc.

2100 Design Road

Suite 100, Arlington

TX 76014, USA

Tel: 800-826-0270

Fax: 800-457-8827

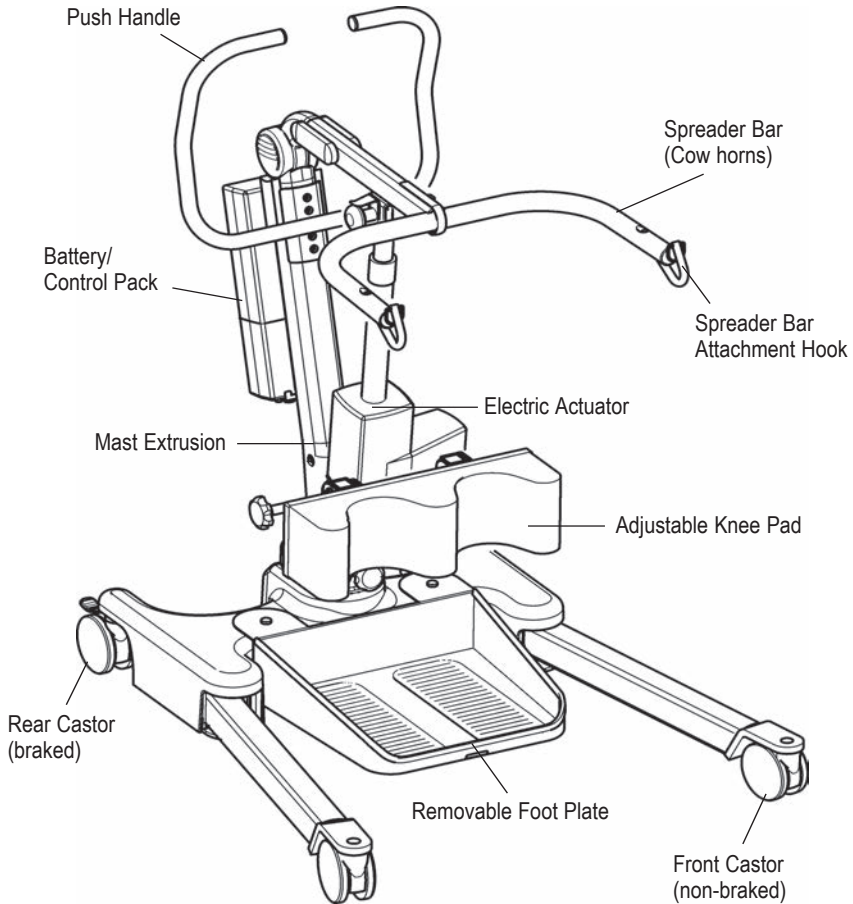
www.joerns.com

Contents

1. Hoyer Ascend Patient Lift.....	3
2. Introduction: About Your Lift.....	4
3. Assembly and Commissioning Instructions.....	5
4. Sling Guide.....	9
5. Lifting with the Hoyer Ascend.....	10
6. Safety Precautions.....	11
7. Operating Instructions.....	13
8. Charging Instructions.....	15
9. Maintenance Schedule & Daily Check List.....	17
10. Technical Specifications.....	19
11. Warranty.....	21



1. The Hoyer Ascend Patient Lift



2. Introduction: About Your Lift

The Hoyer Ascend is an electrically operated patient lift. Each Ascend lift is fully assembled load tested and certified before being packed/shipped.

The packing consists of a strong, purpose built carton that is used for both export and domestic markets to ensure the safe arrival of the lift.

A number of documents are supplied in a wallet, and packed with each lift and should be kept safely for future reference.

- TEST CERTIFICATE
- USER MANUAL
- DEALER GUARANTEE CARD (Europe only)
- CUSTOMER SATISFACTION CARD (Europe only)
- PACKING CHECK LIST

The TEST CERTIFICATE is an important document and will be required for your insurance records. It is valid for six months and after it has expired the lift should be inspected and serviced per the maintenance schedule.

Servicing and periodic testing can be carried out by your authorized supplier. Please ensure your lift is included in their maintenance schedule. If you are at all unsure what your local market servicing requirements are, please check with your dealer and/or a local government agency.

The Hoyer Ascend is suitable for the following CATEGORIES of lift within the working parameters of the lifts specified in the TECHNICAL SPECIFICATIONS.

- Category A - Wheelchair
- Category D - Toilet/Shower Chair

The CE mark:



The Hoyer Ascend carries the CE mark and complies with the following EC directives:

- Medical Device Directive (93/42/EEC)
- EMC Directive (89/336/EEC)
- Low Voltage Directive (73/23/EEC)

Assembly and Commissioning Instructions

CARTON CONTENTS

Place the carton in a clear working area and open carefully. The carton contains:

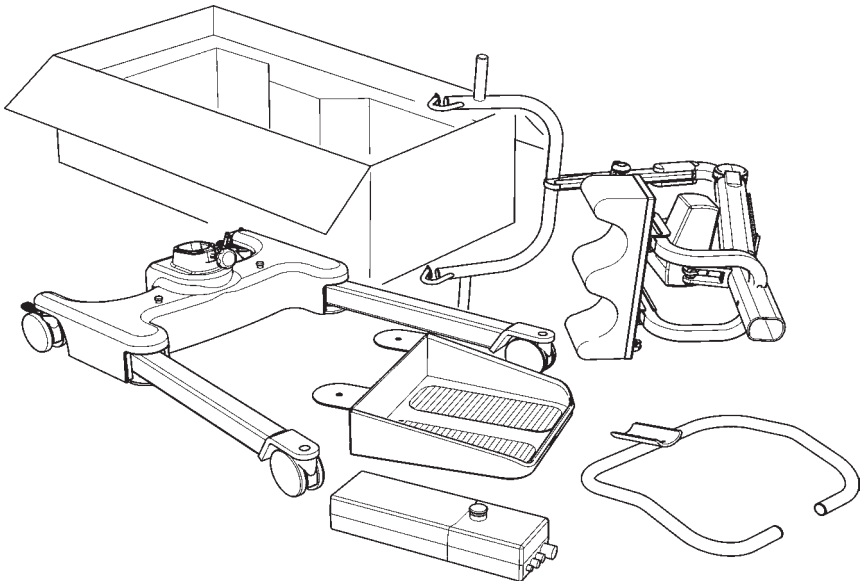
- Hoyer ASCEND LIFT
- WALLET CONTAINING DOCUMENTS
- HAND CONTROL
- BATTERY PACK
- CHARGING LEAD
- DESK TOP CHARGER/STAND

⚠ WARNING

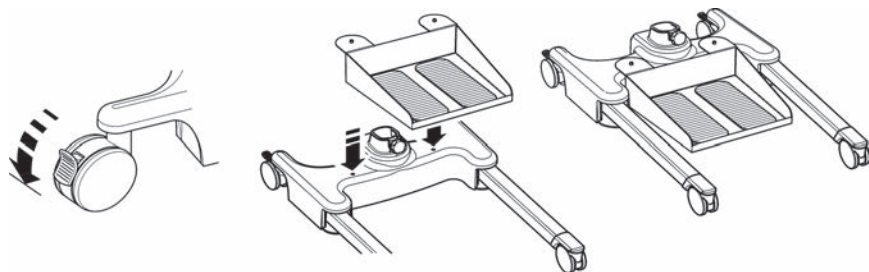
The Hoyer Ascend is heavy and will need to be lifted with care. You may need assistance to lift the Hoyer Ascend from the carton.

ASSEMBLY

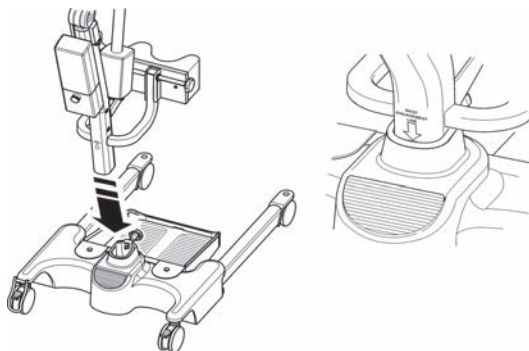
Remove all the parts from the carton and place on the floor, taking care to protect the finish from damage.



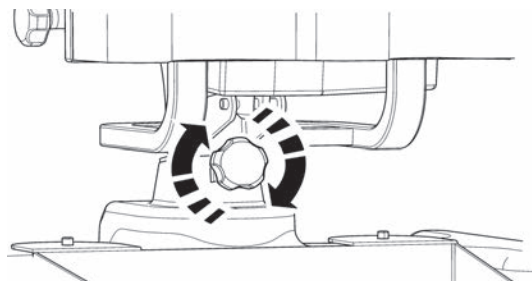
1. Place the chassis in a clear space and apply the rear brakes. Attach the foot tray to the base using the location holes positioned on the base casting.



2. Fit the mast and boom assembly into the chassis socket.



3. Tighten the mast assembly with the mast-locking device, which is located at the front of the chassis.

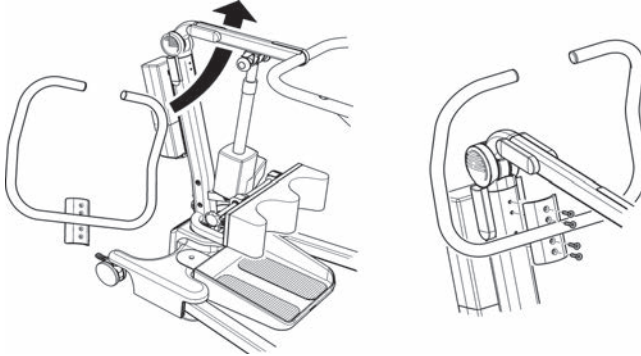


⚠ WARNING

Avoid trapping fingers. Keep fingers away from the end of the mast when inserting into the chassis socket. Full engagement of the mast is indicated by the label on the side of the mast. The electric leg operation will not function unless the mast is fully engaged.



4. Turn the locking knob until hand tight.
5. Line the handle assembly up to the mast, and attach using the fixings provided. The fixings and wrench needed to attached the handle are kept in the user instruction wallet for safe keeping.



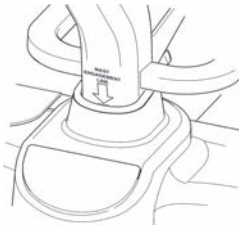
6. Fit power pack to the lift and make sure the latch holding the pack in place is fully engaged. "Click" in place.

DISASSEMBLY

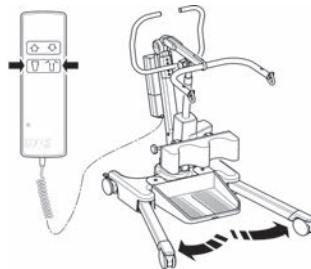
The lift should not be disassembled unless for service, repair or transport if necessary. Therefore follow the assembly instructions in reverse sequence.

ALWAYS CHECK THE FOLLOWING BEFORE OPERATION

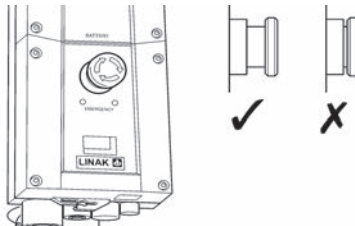
- The mast is fully locked into position.



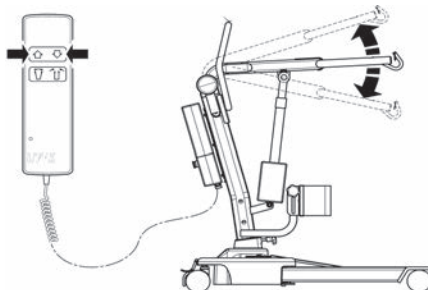
- The legs of the lift open and close satisfactorily (This is done via the hand control).



- The red emergency stop button, located on the rear of the control box, is in the OFF (out) position.



- Push the up and down buttons on the hand control and confirm the boom rises and lowers.



4. Sling Guide

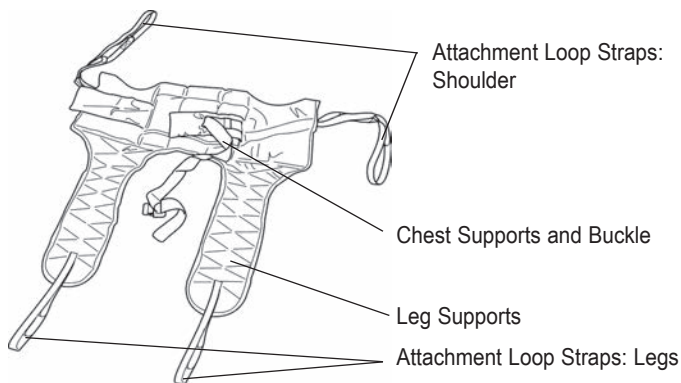
The Hoyer Ascend is suitable for patients in the SITTING position. The slings suitable for this device are listed as follows:

- Hoyer Transport
- Hoyer Standing

USER GUIDE FOR STANDAID SLINGS

The Transport and Standing sling is an easy fit sling, suitable for standing and supporting. It is not a general purpose sling and patients must be assessed for suitability by a qualified person.

Transport Sling



Feed the sling down the back of the patient leaving the top of the commode aperture at the base of the spine. Check the roll part of the sling is square across the patient's back.

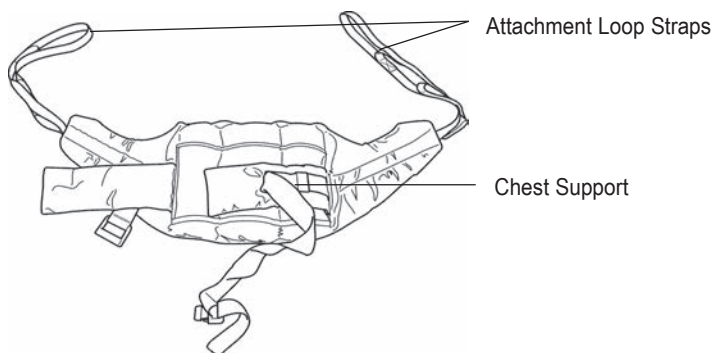
Attach the support strap around the chest of the patient. This strap need not be tight. It is there to hold the sling in position whilst attaching the loops to the Standaid. It may be left off altogether if preferred. Ensure patient's arms are on the outside of the sling.

Raise the patient's leg and feed the leg strap under and up between the legs. Ensure the sling is not twisted or creased under the thigh. Repeat this procedure for the other leg. Attach the loops on the roll parts of the sling to the white hooks at the end of the hand grips.

Without crossing the loops on the leg straps, attach to left and right black knobs on the lifting fork. You would normally use the middle of the three loops. The patient is now ready to be raised from the seat. Once clear of the seat, the patient will be more comfortable if lowered back in to the sitting position.

Joerns Healthcare recommends slings are checked regularly and before use for fraying or damage. Do not use slings that are worn or damaged.

Standing Sling



Place the sling down behind patient's back between base of shoulder blades and bottom of rib cage. Attach the support straps around the front of the patient. This strap need not be tight. It is there to hold the sling in position whilst attaching the sling to the Standaid. It may be left off altogether if preferred. Ensure that the patient's arms are outside the sling.

NOTE: For detailed fitting instructions, please refer to the user guide supplied with each sling.

⚠ WARNING

Joerns Healthcare recommends that slings be checked regularly and particularly before use for signs of fraying or damage. DO NOT use slings that are worn or damaged.

⚠ WARNING

HOYER RECOMMENDS THE USE OF GENUINE HOYER PARTS. Hoyer slings and lifters are not designed to be interchangeable with other manufacturer's products. Using other manufacturer's products on Hoyer products is potentially unsafe and could result in serious injury to patient and/or caregiver.

⚠ WARNING

Refer to maximum weight capacity of lift. Sling capacity is limited by the maximum capacity of the lift.

5. Lifting with the Hoyer Ascend

Position Standaid so that the patient's feet fit in the foot tray and knees rest against the knee pad. Initially attach the longer loops of the sling to the grey hooks at the end of the Standaid hand grips. The patient's hands should be placed on the handgrips. (Once the patient is used to the lift the shorter loops may be used to achieve a more upright position). Then push UP button on handcontrol to raise the patient to the standing position.



6. Safety Precautions

Please read and follow the safety precautions listed below. The operation and use of Hoyer patient lifts is simple and straightforward. Following these few basic safety precautions will make lifting operations easy and trouble free.

READ AND UNDERSTAND THE USER INSTRUCTION MANUAL BEFORE USING YOUR “ASCEND”

WARNING

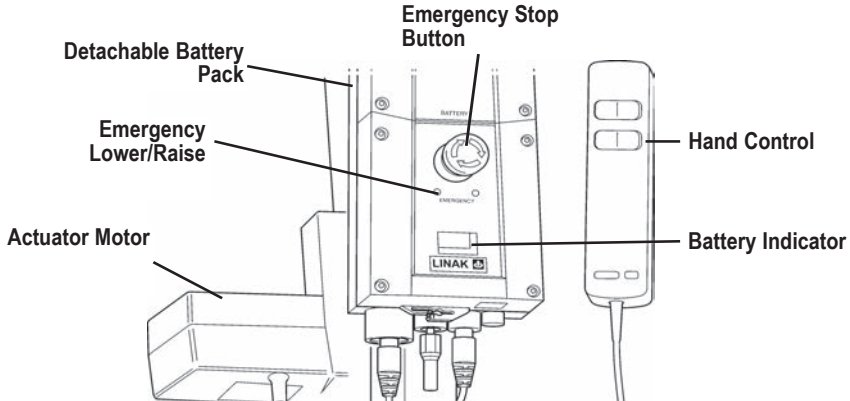
- ALWAYS plan your lifting operations before commencing.
- ALWAYS carry out the DAILY CHECK LIST before using the lift.
- ALWAYS familiarise yourself with the operating control and safety features of a lift before lifting a patient.
- DO NOT use a sling unless it is recommended for use with the lift.
- ALWAYS check the sling is suitable for the particular patient and is of the correct size and capacity.
- NEVER use a sling which is frayed or damaged.
- ALWAYS fit the sling according to the instructions provided (user instructions).
- DO NOT exceed the safe working load.
- ALWAYS check the safe working load of the lift is suitable for the weight of the patient.
- ALWAYS carry out lifting operations according to the instructions in the user manual.
- NEVER disconnect or bypass a control or safety feature because it seems easier to operate the lift.
- DO NOT lift a patient with the castor brakes on. Always let the lift find the correct center of gravity.
- DO NOT attempt to manoeuvre the lift by pushing on the mast, boom or patient.
- ALWAYS manoeuvre the lift with the handle / foot push pad provided.
- ALWAYS lower the patient to the lowest comfortable position before transfers.
- DO NOT push a loaded lift at speeds which exceed a slow walking pace (3 Km/hour 0.8 metres/second).

- **DO NOT** push the lift over uneven or rough ground. Particularly if loaded.
- **DO NOT** attempt to push/pull a loaded lift over a floor obstruction.
- **NEVER** force an operating/safety control. All controls are easy to use and do not require excessive force.
- The **MINIMUM** load required to manually lower the hoist using the mechanical emergency down function is 30 kg.
- **DO NOT** park a loaded lift on **ANY** sloping surface.
- **DO NOT** use electric lifts in a shower.
- **DO NOT** charge an electric lift in a bathroom or shower room.
- **DO NOT** lift a patient unless you are trained and competent to do so.
- **YOUR** lift is for patient lifting. **DO NOT** use it, or allow it to be used, for any other purpose.
- **DO NOT** bump the lift down steps, loaded or unloaded.
- **DO NOT** attempt to negotiate a loaded lift on a slope which exceeds 1:12 (approximately 5 degrees).
- **DO NOT** attempt to negotiate a slope without a second helper being present.
- **DO NOT** use in a wet or corrosive environment such as poolside locations.
- Joerns Healthcare recommends that slings be checked regularly and particularly before use for signs of fraying or damage. **DO NOT** use slings that are worn or damaged.
- **HOYER RECOMMENDS THE USE OF GENUINE HOYER PARTS.** Hoyer slings and lifters are not designed to be interchangeable with other manufacturer's products. Using other manufacturer's products on Hoyer products is potentially unsafe and could result in serious injury to patient and/or caregiver.
- Refer to maximum weight capacity of lift. Sling capacity is limited by the maximum capacity of the lift.



7. Operating Instructions

OPERATING CONTROLS



1. Leg adjustment

The legs on the Hoyer Ascend are electrically adjustable for width. The legs can be opened to enable access around armchairs or wheelchairs. For transferring and negotiating narrow doorways and passages the lift legs should be in the closed position.

Electric leg adjustment - is achieved by pressing the appropriate buttons on the handcontrol. The legs will be locked whenever the handcontrol switch is released.

2. Castors and Braking

The lift has two braked castors which can be applied for parking. When lifting, the castors should be left free and un-braked. The lift will then be able to move to the center of gravity of the lift. If the brakes are applied it is the patient that will swing to the center of gravity and this may prove disconcerting and uncomfortable.

3. Raising and lowering the boom

The movement of the boom is achieved by a powerful electric actuator, which is controlled by a simple hand control unit. The handcontrol has two buttons with directional arrows UP and DOWN ↑↓. The actuator stops automatically at the limit of travel in both directions. The handcontrol plugs into a socket at the base of the control box.

4. Emergency Stop

The red Emergency Stop Button is located on the front of the control box and is activated by pressing in. This will cut all power to the lift and only be reset by twisting the button anticlockwise and releasing.

5. Electrical Emergency Down/Up

Emergency lower (down) and raise (up) buttons are provided at the front of the control box. This is operated by inserting a ballpoint pen into the button highlighted $\uparrow\downarrow$. This will bring the boom up or down should the handcontrol fail at any time.

6. Mechanical Emergency Down

In the case of a complete electrical failure the electrical actuator is fitted with mechanical lowering device (RED BOSS). This will only operate when the lift is under load. The device must be pulled upwards to activate, and a slow decent will commence.

Note: The MINIMUM load required to manually lower the hoist using the mechanical emergency down function is 30 kg.

7. Batteries

The batteries are protected from deep discharge by a LOW VOLTAGE ALARM. This will sound when the batteries need recharging and the handcontrol is being operated. It will not sound independently of the handcontrol being operated. DO NOT IGNORE THIS WARNING ALARM. Complete the lifting operation and place the battery on charge (see charging instructions).

8. Slings

The Hoyer Ascend is suitable for patients in the SITTING position. The slings suitable for this device are listed as follows:

- Hoyer Transport
- Hoyer Standing

9. Knee pad adjustment

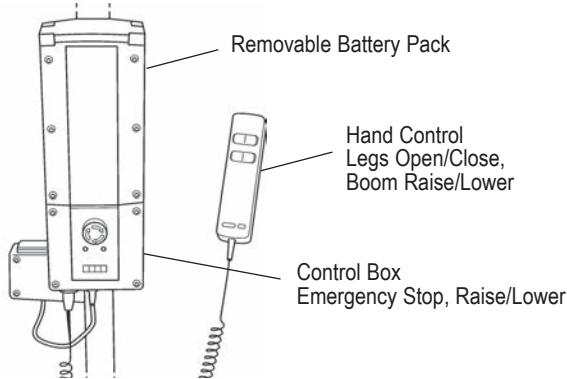
The Ascend has an adjustable kneepad. The range of travel is 6 inches. Adjustment is achieved by loosening the knob located on the left hand side of the pad, so to loosen the assembly enough to move the knee pad in either the upward, or downward position.

10. Removable footplate

The Ascend has a removable footplate. To remove the foot plate, move to the front of the product, and lift the footplate upward from the middle of the assemble. NOTE Be careful when lifting the footplate from its low-seated position.

8. Charging Instructions

The batteries are located in the power pack and are charged via an off board desktop charger unit.



When the battery pack needs charging it is removed from the lift and fitted to an off board charging unit.

1. Remove the power pack from the lift. The pack is retained by a simple latch at the top of the power pack. Lift the latch and the power pack will be released.
2. Fit the power pack to the charging unit. The location and latching of the power pack to the charger is the same system as used on the lift.
3. Plug the charger mains plug into a suitable mains outlet.
4. Charging is automatic and will fully charge the batteries over a period of eight to twelve hours.
Note: Even if the charger is left plugged in for extended periods it will not allow the batteries to overcharge.

- a) Green Light - Indicates main power is on.
- b) Yellow Light - Indicates battery is charging.
- c) Battery will be fully charged when yellow light goes off.

Note: Charging will take up to 4 hours.

It is recommended that the battery be charged immediately up on receipt.

5. To return the lift to service, disconnect power supply remove the power pack from the charger. Fit the power pack to the lift and make sure the latch holding the pack in place is fully engaged. "Click" in place. The charging of Hoyer electric lifts is simple and straightforward, but it is important to follow the charging instructions closely. Please pay particular attention to the following warnings, they will help you avoid problems with discharged batteries.

⚠ WARNING

KEEP the batteries fully charged. Place the battery on charge whenever it is not in use. If it is more convenient to do so, place on charge every night. The charger will not allow the batteries to overcharge.

⚠ WARNING

NEVER run the batteries completely flat. As soon as the audible warning sounds, complete the lifting operation in hand and place on charge.

⚠ CAUTION

NEVER store the power pack for long periods without regular charging throughout the storage period.

⚠ WARNING

ALWAYS make sure the mains power to the charger is switched off before connecting or disconnecting the power pack.

⚠ WARNING

NEVER leave the power pack plugged in to the charger with the mains power off.

⚠ WARNING

Do not charge an electric lift in a bathroom or shower room.



9. Maintenance Schedule & Daily Check List

All Hoyer products are designed for minimum maintenance, however some safety checks and procedures are required. A schedule of DAILY tasks are detailed below. Daily checks and a six monthly service, inspection and test will ensure a lift is kept in optimum safe working condition. A list of spare parts is available upon request.

The **LOAD TEST** and certification should only be carried out by qualified personnel or an authorized service agent / dealer.

DAILY CHECK LIST: Joerns Healthcare strongly recommends the following checks be carried out on a daily basis and before using lift.

- MAKE sure the lift moves freely on its castors.
- EXAMINE the spreader bar (cow horns) is firmly attached to the boom.
- EXAMINE the sling hooks and attachment clips on the spreader bar and boom for excessive wear.
- MAKE sure the legs open and close correctly.
- OPERATE the hand control to confirm the boom raises and lowers satisfactorily.
- ON electric powered lifts check the operation of the emergency stop button.
- EXAMINE slings for fraying or other damage. DO NOT use any sling if damaged or if the sling shows signs of wear.
- CONFIRM the lift is not giving a low battery alarm when the hand control is operated. If the alarm sounds, **DO NOT** use and place on charge immediately.

MAINTENANCE, INSPECTION AND TEST

Joerns Healthcare recommend a thorough inspection and test of the Hoyer Ascend lift and lifting accessories, slings, scales etc is carried out on a regular basis. Inspection frequency varies depending on locality, so you must check with your dealer or local government agency as appropriate regarding how often an inspection is required. The examination and test should be conducted according to the recommendations and procedures provided in this manual. Joerns Healthcare recommends maintenance, inspection and certified testing is carried out by authorized service agent / dealers only.

***THESE CHECKS SHOULD INCLUDE:**

✓ = Required X = Recommended

* 6 months in North America

	Initially	Before Use	Service Intervals *
1. BOOM: Check the attachment of the boom to the mast. Make sure there is only minimal side movement of the boom and the boom is free to rotate on the boom bearing.	✓	✓	✓
2. MAST: Check the operation of the mast-locking device. Make sure the mast fully engages into the socket. Check the bottom actuator.	✓	✓	✓
3. ACTUATOR: The actuator should require no maintenance other than checking for correct operation and listening for unusual noise.		X	✓
4. POWER PACK: Check the function of the emergency stop button and emergency lower. Note: The MINIMUM load required to manually lower the hoist using the emergency lower function is 30 kg.	✓	✓	✓
5. BATTERIES: The batteries are housed in the power pack and should not require maintenance other than the regular charging as detailed in the charging instructions. Check that the connections remain clean.			✓
6. LEG ADJUSTMENT: Check the legs operate in both full extensions (inward/outward).	✓	✓	✓
7. CASTORS: Check all castors for firm attachment to the legs. Check for free rotation of the castor and the wheels.	✓	✓	✓
8. CLEANING: Clean with ordinary soap and water and/or any hard surface disinfectant. Harsh chemical cleaners or abrasives should be avoided as these may damage the surface finish of the lift. Avoid wetting any of the electrical parts.		X	✓
9. LOAD TEST: The load test should be carried out in accordance with the manufacturer's test procedures. It is strongly recommended the testing is carried out by an authorized service dealer.			X
10. BASE AND WHEELS: Ensure base is even and level (all four wheels are on the floor).	✓	✓	✓
11. SLINGS: Check for wear and fraying.	✓	✓	✓
12. LUBRICATION: Oil pivot joints, including mast and boom connections, spreader bar joint (only if required).			✓
13. HAND SET: Ensure plugged fully into controller.	✓	✓	✓
14. FIXINGS: Check all nuts, bolts, screws and fasteners for excessive wear and for tightness. Replace as required.			✓



10. Technical Specification

Safe Working Load	375 lbs	170 kg
Maximum Overall Length	43.3 inches	1100 mm
Minimum Overall Length	40.8 inches	1035 mm
Maximum Overall Height	66.5 inches	1690 mm
Minimum Overall Height	48.4 inches	1230 mm
Maximum Height to attachment point.....	64.7 inches	1644 mm
Minimum Height to attachment point.....	37 inches	940 mm
Turning Radius	51.9 inches	1320 mm
Legs Open - External Width	39.1 inches	995 mm
Legs Open - Internal Width	34.8 inches	885 mm
Legs Closed - External Width	24.8 inches	630 mm
Legs Closed - Internal Width	20.0 inches	510 mm
Widest Point (between support handles)	28.9 inches	735 mm
Overall Height of Legs.....	4.7 inches	120 mm
Ground Clearance	1.4 inches	35 mm
Front Twin Castors.....	4.0 inches	100 mm
Rear Braked Castors.....	4.0 inches	100 mm

Weights

Mast, Base & Boom Assembly.....	97 lbs	44.0 kg
Power Pack	6.6 lbs	3 kg
Total.....	103.6 lbs	47.0 kg
Base Assembly (not inc battery)	42.9 lbs	19.5 kg
Mast & Boom (not inc battery)	45.1 lbs	20.5 kg

All measurements are within a +5/--5 degree of tolerance.

ELECTRICAL SPECIFICATIONS

BATTERIES.....	12 volt Rechargeable sealed lead acid type
BATTERY CAPACITY	3.2 Ampere hours
CHARGER RATED INPUT	230Vac 50/60Hz
CHARGER RATED OUTPUT	27.4/29.0 VDC@0.8A

Electric Shock Protection

CHARGER.....	CLASS II
LIFT	INTERNAL POWER SOURCE

Degree of Shock Protection

CHARGER.....	TYPE B
LIFT	TYPE B

INTENDED OPERATING ENVIRONMENT:>+5° <+40°.

Outside this environment functionality and safety may be compromised.

11. Warranty

This warranty covers HoyerPro lifts only. Lifts not covered under this warranty include, but are not limited to Advance-H, HML400, HPL600WB, HPL600WBSC, HPL402, C-HLA (and variations).

HoyerPro lifts are guaranteed for a period of two years from the date of delivery against defects in materials and workmanship under normal use and service. This warranty includes all mechanical and electrical components.

Aluminium structural components and mechanical components on lifts are covered under warranty for a period of five (5) years from the date of delivery.

Damage caused by use in unsuitable environmental conditions or failure to maintain the product in accordance with user and service instructions is not covered. Any alteration, modification or repair unless performed by or authorized in writing by Joerns Healthcare will void this warranty.

Parts:

HoyerPro lifts contain various parts that wear from normal use. These parts, such as DC batteries and casters are not covered under the two-year warranty but are covered for 90 days after date of delivery.

Joerns Healthcare's obligation under this warranty is limited to supplying replacement parts, servicing or replacing, at its option, any product which is found by Joerns Healthcare to be defective.

Warranty replacement parts are covered by the terms of this warranty until the product's original warranty period expires.

When requested by Joerns Healthcare, parts must be returned for inspection at the customer's expense. Credit will be issued only after inspection.

Service:

Most service requests handled by the facility Maintenance Department with assistance from the Joerns Healthcare Product Service Department.

Most parts requested can be shipped next day air at the customer's expense.

Should a technician be required, one will be provided by Joerns Healthcare, at our discretion. Only the Joerns Healthcare Product Service Department can dispatch authorized technicians.

This warranty is extended to the original purchaser of the equipment.



Joerns Healthcare Inc.

2100 Design Road
Suite 100, Arlington
TX 76014
USA
Tel: 800-826-0270
Fax: 800-457-8827
www.joerns.com