



HYDRAULIC PATIENT LIFT

USER MANUAL



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MDS88200HL

User Instruction Manual

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 safe use, assembly, maintenance or specifications of your patient lifter, you should call Customer Service at **1-800-MEDLINE**.

For service and repair, remember your authorized Medline Dealer is able to provide the assistance needed.

Save this manual for future reference.

Warning

Using other manufacturers' parts on the Medline Industries, Inc. products is unsafe and may result in serious injury to patient and or attendant. Use only Medline Industries, Inc. parts. Medline Industries, Inc. parts are NOT interchangeable with other manufacturers' products. Replace any worn parts immediately.

Specifications

Base	Adj. U
Max Weight Capacity	400Lbs.
Lift-range of Boom	28"-73"
Width of Base	23"-28.5"
Length of Base	42"
Base Clearance	5.5"

Assembly

The following tools are required for assembly:
One hex wrench with a 17mm side and a 19mm side.

1. Carefully unpack Medline Industries, Inc. Lifter, swivel bar/6 point cradle and adjusting lever handle. Check all parts for shipping damages before using.
2. Insert mast in base sleeve (Figure 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. Double check to be sure mast cannot rotate.

3. Make certain boom points in the same direction as base legs. Thread mast safety lock and stud into threaded hole in mast sleeve. Tighten firmly, locking mast into base (Figure 2). Keep mast and base locked at all times except when removing mast from base for storage.

Warning

Be sure the bolt is aligned correctly and fully engaged or failure may result. Worn parts could fail, resulting in injury to resident/caregiver.

4. Insert boom end into hole in yoke hinge at the top of mast. Fasten bolt and nut (Figure 3). Be certain hex of bolt head fits into formed hex on side of hinged and that plastic washer is under lock nut.

5. Attach hydraulic pump to boom (Figure 4a & 4b).



Assembly

6. Cradle/Swivel Bar Attachment.
 - 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. 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 (Figure 5a, 5b). Place nut on bolt, and secure tightly (Figure 5c).
 - d. Swivel cradle to check for free movement (Figure 6).
7. Attach adjusting lever handle into base (Figure 9).
8. Wheel locks are provided on two casters for parking. To lock casters, step on cam lever on side of caster. To unlock, step on off lever (Figure 10).

Warning

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

Warning

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



Operating Instructions

To Raise Lifter:

1. Tighten hydraulic pressure release knob by turning it clockwise (Figure 7).
2. Pump hydraulic handle (Figure 8). Do not lock rear casters. If needed, move lifter base slightly to adjust for balance.
3. Expand base of lifter to widest possible position to maximize stability (Figure 9).

To Lower Lifter:

1. Open hydraulic pressure knob by turning it counter-clockwise, not more than a quarter turn (Figure 7).
2. Guide descent of the patient. Push gently on the patient's knees to attain correct sitting posture while lowering.
3. After patient reaches seat, push down on boom to slacken straps or chains.

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 lever on top of casters. To unlock, step on off lever. (Figure 10)



Maintenance & Care

	Initially	Before Each Use	Bi-Monthly
1. Base & Wheels			
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	
2. Base Adjustment			
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	
3. Mast			
Mast fully engaged and locked into mast sleeve	X	X	
Inspect for bends or defects		X	
Inspect all bolts and nuts for wear		X	
4. Boom			
Inspect all bolts and nuts for wear		X	
Inspect to ensure the boom is centered between the base legs	X	X	
5. Cradle			
Check hanger post for wear or damage		X	
Check sling attachments for wear	X	X	
6. Swivel Bar			
Check nut at bottom of swivel bar hook and eye hook on boom wear			X
Check for 2 plastic washers between nut of swivel bar hook and underside of swivel bar assembly	X		X
7. Pump Assembly			
Pump handle and valve work smoothly	X	X	
Check for oil leakage, a light film is normal, but not to the point of dripping	X	X	
8. Slings and hardware			
Check metal parts for wear or damage		X	
Check slings and web for wear.	X	X	
9. Lubrication			
Oil all pivot joints, including: Top of mast where boom attaches			X
Pump handle hinge			X
Use a light grease to lubricate base adjustment lockplate and all rotating hardware			X
Wheel and swivel bearings			X
10. Cleaning			
Use a mild soap to clean			X
Apply auto or appliance wax			X
Keep painted surface clean from oil		X	

Regular maintenance of lifters and accessories is necessary to assure proper and safe operation.

Warnings and Cautions

Do not wash under pressure. Do not wash slings with bleach. Bleach will damage material.

Note – Hydraulic Pump

1. Use pump to raise boom to position for lifting patient.
2. **DO NOT** lift up on end of boom to position for lifting patient as this causes air to be drawn in under ram, preventing pump from lifting when handle is pumped.
3. **DO NOT** press down hard on handle when bottom of stroke is reached.
4. It is common occurrence after a few hours of non-use for the boom to lower with no weight suspended from the end of the boom. This is not a faulty pump.
5. If trouble develops, please call Medline Industries, Inc.

PLEASE DO NOT OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING THIS MANUAL. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS AND INSTRUCTIONS; CONTACT MEDLINE INDUSTRIES TECHNICAL SUPPORT OR A QUALIFIED MEDLINE INDUSTRIES DEALER BEFORE ATTEMPTING TO USE THIS EQUIPMENT-OTHERWISE INJURY OR DAMAGE MAY RESULT.

Slings: Slings may become damaged during washing and drying. Always make sure you check your slings before each use. Bleached, torn, cut, frayed, or broken slings are dangerous and should not be used. Altering slings is dangerous and may cause serious injury.

Warning!! After each laundering, inspect sling(s) thoroughly for wear, tears, and loose stitching. **ONLY** qualified personnel **MUST** perform maintenance.

Maintenance: Check all parts for shipping damages before using. In case of damage, **DO NOT** operate patient lifter. Contact your local HME Dealer for further instructions. The Medline Industries Inc. patient 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. The lifter is **NOT** designed for use as an equipment hoist. **NEVER** use the lifter to lift or transfer anything other than a patient. This can result in damage to the lift.

Transferring: **DO NOT** attempt any transfer without approval of the patient's physician, nurse, or medical attendant. Thoroughly read the instructions in the owner's manual, observe a trained team of experts perform the lifting procedures, and then perform the entire lift procedure several times with proper supervision. Use common sense in all lifts. Special care **MUST BE** taken with people with disabilities who cannot cooperate while being lifted. Use restraints only with physician's prescription.

Before moving a patient from a stationary object (wheelchair, commode or bed), slightly raise the patient off the stationary object and check all sling hardware for secure attachment to include object (wheelchair, commode or bed), slightly raise the patient off the stationary object and check all sling hardware for secure attachment to include swivel bar and straps. If any attachment is not correct, lower the patient and correct the problem. Then raise the patient and check again.

While transferring the patient, keep the patient suspended in a sling attached to lift. **DO NOT** roll the caster base over objects such as raised carpet bindings, doorframes, or any uneven surfaces or obstacles that would create an imbalance of the patient lift. This could cause the patient lift to tip over. Use steering handles on the mast at ALL times to push or pull the patient lift.

DO NOT use any kind of material (such as a plastic back incontinence pad or seating cushion) between the patient and sling material. This may cause the patient to slide out of the sling during transferring if the patient is in a wheelchair, secure the wheel locks in place to prevent the chair from moving forward or backwards.

Medline Limited Warranty

Your Medline Product is warranted to be free of material defects in materials and workmanship for a period of three (3) years from the date of purchase. In the event of a defect or failure covered by this warranty, contact us at 1-800-MEDLINE. Medline will, at its option, repair or replace your Medline product. This warranty does not extend to damage or failure occurring as a result of owner misuse or negligence, normal wear and tear, or other causes unrelated to the manufacture and design of the product. This express warranty is Medline's sole and exclusive warranty and your sole remedy in the event of default or failure. Medline is not responsible for any consequential or incidental damages or costs arising from use of the warranted products, or any defect therein or failure thereof. Medline disclaims all other warranties including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

How to Use a Patient Lifter

Transfer from Bed

- A. If the patient needs support and is in a hospital bed, raise the side rails and have the patient hold onto the rails. Raise the level of the bed to the highest position before moving the patient onto the sling. This will reduce strain on the assistant's lower back. Also, when the patient is ready to be raised, lower the side rails and the level of the bed. This will decrease the distance you have to elevate the patient.
- B. To place the sling under the patient the instructions are as follows.
 1. Place the folded sling behind the patient's back. Carefully roll the patient onto his side.
 2. Pull the leg loops forward and under patient's thighs.
 3. Cross the loops.

Warning

**Pulling sharply on sling may cause the patient to fall forward resulting in injury.
Always stand in front of the patient when placing or removing the sling.**

- C. Roll the base as far under the bed as possible locating the cradle over the patient. Be careful not to lower the frame onto the patient. Before lifting the patient, be sure the lifter arm is centered over the patient. Remember, when lifting the patient, the parking brake should not be used.

Warning

To reduce the risk of tipping over, spread the adjustable base legs to their widest position before lifting anyone.

Beware of obstructions under the bed that can cause the wheels to stop and the lift to tip over.

D. When both sides of the sling are attached to their particular sides of the cradle, raise the patient slowly. If the patient is in the hospital bed, it will help to raise the head of the bed. Repositioning of the patient may be necessary to ensure that a safe sitting position is attained as the patient is raised.

Warning

Check to make sure that the sling is properly connected to the cradle. If the sling attachments are NOT properly connected, lower the patient back onto the bed to correct this problem.

When lifting, **ALWAYS** keep patient centered over the base and facing the assistant who is operating the lift.

- E. Raise the patient until the patient's gluteus maximus is above the surface of the bed. The self-leveling cradle will bring the patient into the sitting position. Take hold of the patient's legs and turn the patient so that his legs dangle off the side of the bed. Do not push or pull the patient off of the bed. If you need more room, lower the bed.
- F. Take hold of the steering handles then move the lifter away from the bed. Move the patient into position over the seat of a locked wheelchair.

Transfer to Bed

- A. Raise the lifter until the patient's gluteus maximus is above the surface of the bed. You may need to lower the height of the bed. If the patient cannot be lifted above the bed, do not push or pull the patient onto the bed. This can result in a tip over and serious injury to the patient and assistant!
- B. Move the lifter so that the open end of the U-base is as far under the bed as possible.
- C. After the patient has been centered on the bed, rotate the patient so that the patient faces the foot of the bed.
- D. Carefully lower the patient onto the bed.
- E. Remove the chains or straps from the sling.

Transferring Patients in Lifter

- A. During transfer, ensure that the patient is facing the attendant and keep the patient as low as possible so that the patient's feet rest on the base of the lifter straddling the mast. A lower center of gravity reduces the risk of a tip over.

Warning

DO NOT roll the caster base over objects such as shag or deep pile carpeting, raised carpet bindings, thresholds, unpaved surfaces, outdoors, or any other obstructions that would create an imbalance of the patient lift. This could cause the patient lift to tip over.

Transfer from Wheelchair or Chair

- A. Lean the patient forward and place his arms on his knees for stability. Standing in front of the patient, put the folded sling behind the patient's back and press it down until it touches the seat of the chair.
- B. The leg sections of the sling are pulled forward and beneath the patient's thighs by the long loops. The loops are then crossed one loop through the other loop.

- C. Attach the sling to the cradle.
- D. Move the lifter base around the chair and under the leg rest with the patient's feet straddling the mast. Lock the wheelchair brakes. Raise the patient above seat height. Make sure that the footrests are in the up position.

Warning

Wheelchair locks **MUST** be in a locked position before lowering the patient into the wheelchair for transport.

Transfer to Wheelchair or Chair

- A. The adjustable base legs (with patient) are spread until they are in their widest position.
- B. The wheelchair is moved into position.

Warning

Wheelchair locks **MUST** be in a locked position before lowering the patient into the wheelchair for transport.

- C. The patient is positioned over the seat with his back against the back of the chair.
- D. Begin to lower the patient slowly into the chair.
- E. To position push gently on the knees of the patient with your right or left hand while simultaneously lowering the patient into the chair.

Other alternatives for positioning the patient further back into the chair are as follows:

- A. Raise the patient so that the patient is just touching the seat.
- B. Pull up on the top and back of the sling with left hand.
- C. Complete lowering the patient into the chair.
- D. Raise the patient and repeat steps B-C if necessary.
- E. Unhook the sling from the cradle or the chains or straps attached to sling.

Removing Sling from Under Patient

Note: It is not necessary to remove the sling unless desired by the patient.

- A. Remove the armrests from the chair if possible (optional). Disconnect the sling from the lifter.
- B. Stand in front of the patient, lean the patient forward and place his arms on his knees for stability. Pull the sling flaps to the side, out from under patient's thighs.
- C. Still standing in front of patient, reach back and pull the sling up from behind the patient. Reposition the patient into the chair.

Lifting Patient from Floor

- A. Position lifter behind the patient with a pillow over the base to support the patient's head and neck. The lifter should be positioned with the lifter arm centered over the patient.
- B. Lower the cradle so that the chains or straps reach the hooks of the sling or cradle.
- C. Raise the patient's knees and attach the sling to the cradle.
- D. Lift the patient up above the floor. Turn the patient to face the attendant and place the patient's feet on the base of the lifter straddling the mast for extra stability.
- E. Place a pillow on the base support legs.



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