Key Benefits

- Eliminate fear of falling
- Safety for patient and clinician
- Freedom for therapists
- Assist in getting out of bed, lifting wheelchair patients and getting patient to bathroom
- Moves through doorways
- Use over-ground or over treadmill
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Preface

This manual contains the operating instructions and service requirements for the PneuWalker MT™. The manual is designed for clinical staff use. The clinicians will instruct their patients and clients in the proper use of the system and its accessories. Each operator must read the operator manual in full before using the product for the first time. Please read the manual carefully, noting the Safety Requirements, before using the PneuWalker MT™.

 Liability Notice

Failure to follow the conditions set forth below shall absolve Pneumex, Inc. from any responsibility for the safety, reliability, and performance of this equipment.

Each independent user must be instructed in the proper use of the system and its accessories.

The installation and assembly of the unit must comply with the applicable local or state requirements. The equipment must be used in accordance with the instructions for use. It is suggested that operators of PneuWalker MT™ Stations receive approved training from Pneumex, Inc. or their designee before operating the equipment. Please call Pneumex at 800-447-5792 to find out more about our training and certification programs.
Indications for use

Acute and chronic back pain
Assist in lifting patients out of bed or wheelchair
Balance
Bariatric patients
Cardiovascular
Knee, hip & ankle injury
Neurological patients
Orthopedic patients
Osteoporosis
Post surgical
Respiratory ailments
Ruptured disc — herniated / bulged

Contraindications

Spinal Fractures
Respiratory conditions which are exacerbated by pressure on the rib cage
Tumors on the spine.

(This can sometimes be compensated for by taking more weight through the legs or by using a thoracic vest).
Description

The PneuWalker MT™ Unweighting System supports a person’s body weight during use. The pneumatic system lifts, or “unweights” the user, reducing the amount of strain on a patient’s body. As the user becomes stronger and can tolerate additional stress on the body, the weight can be adjusted to make the body do more work. The system can be used with most types of exercise equipment, including, but not limited to: treadmills, steppers, bicycles, mini-trampolines, and balance boards. The PneuWalker MT™ can assist with balance issues, getting patient in and out of wheelchairs, bed and to the bathroom.

The PneuWalker MT™ components include a frame with analog controls, two lifting bars, a contained air system, a Vest, and installation hardware.
Components

- Cylinder Ports
- Lifting Bar
- Control panel
- Upright
- Handlebar
- Off-On switch
- Air Box
- Drain and Air Valve
- Patient Ports
- Cylinder
- Contained air system
- Upright Adjustment
- Locking Wheels
Unpacking

Your PneuWalker MT™ comes assembled.

Included with each PneuWalker MT™ is the operator/service manual, air hose, charger and PneuVest.

Before first Use

Before you use the PneuWalker MT™ for the first time you must charge the Airbox, plug the charger into the Airbox and a 110 outlet and let charge overnight.

The Contained Air System must be charged before use. You must plug in the charger each night. Failure may result in a dead battery.
Contained Air System

This will assure that there will be sufficient battery power to operate the PneuWalker MT™ all day. When you plug in the charger, it is recommended that you drain the air system. Put a container under the valve to catch water. The drain valve is located underneath the Airbox. There are three valves:

- Valve A drains the main tank this should be done every night when you charge the Contained Air System. Pull down to drain.
- Valve B is the air fitting that directs air to the cylinders.

Power on

Once the PneuWalker MT has been charged overnight and is ready to use. Adjust the unit to the height and width that will meet your needs see page 13-15

Turn on the PneuWalker MT

The air tank must be drained weekly. Failure to do so may result in damage to Airbox systems.
Control Panel

Before putting a patient in the PneuWalker MT™ you should familiarize yourself with the Control Panel located between the uprights.

When to use Exercise or Unweight Mode

Exercise Mode

Exercise mode lets the user perform vertical movements with consistent unweighting. For example: when you are retraining the sit to stand motion, or working on stepping up and down steps.

Unweight Mode (balance mode)

Unweight mode lets the user perform exercises involving less vertical movement without fear of falling. The system supports the entire body weight during loss of balance, allowing a fall of no more than three to six inches.

OFF

OFF mode releases the air from the system quickly. This mode can be used to re-weight a person quickly if desired.
Using the Unweighting System

1. Make sure unit has charger overnight before first use.

2. Turn power on at the air box.

3. Gently pull out the unweighting regulator knob and turn counter-clockwise until it comes to a stop.

4. Position the mode selector switch in the OFF position.

5. Fit the vest correctly to the subject and connect the vest securely to the Patient Ports on the unweighting bar.

6. Turn the Select Mode knob to Exercise.

7. Pull out the Unweighting knob and gradually turn it clockwise until the gauge shows the desired lift. Have the person move up and down a little and confirm that the gauge is at the desired setting.

8. For activity, leave the Select Mode knob in Exercise. For less vertical motion, set the Select Mode knob Balance.

9. To re-weight, turn the Select Mode knob to Exercise, then turn the Unweighting knob completely to the left. Do not force the knob (to re-weight quickly, turn the Select Mode knob to Off).

10. When the Unweighting gauge reaches zero psi, turn the Select Mode knob to Off.

11. Disconnect the person from the system and remove the vest.

12. Power off when not in use.

13. **Recharge overnight**
Handlebars

The handlebars are adjustable in height and can swing outward to accommodate a person getting in and out of a wheelchair or bed.

Pull out Pin.

Swing handlebar to desired position. If you need to maintain the handlebars in the outward position, reinsert Pin to hold.

To raise or lower handlebar, pull out knob on outside and slide handlebar sleeve up or down as desired. Replace knob Pin to hold new position.
Adjust Width

To change the width of the PneuWalker MT™, wider allows for use over treadmills and narrower allow for easy passage through interior doorways.

There are 5 adjustment possibilities. Each hole is 2 “ apart. Making each adjustment 4”, 2” on each side.

Position # 1: 26.5”
Position # 2 30.5”
Position # 3 34.5”
Position # 4 38.5”
Position # 5 42.5”

On the front of the PneuWalker MT™ on the right and left side you will see two Pin knobs, these knobs pull out to adjust the width.

The wheel base can then be pulled outward and widened in 2 inch increments. Twist the Pin knob to hold desired position. Make sure you use the same positions on each side to maintain proper balance of the PneuWalker MT™. Replace Pin knob to hold new position.

Pull both Pins out and turn 1/2 revolution to unlock position.

Lock wheels on one side. See Page 23
**Narrow to Wide**

Pull both Pins out and lock wheels on one side. Standing **inside** the walker. Pull up on the handle bar holding it close to the upright. Lift upper part of unit and slide away from locked side to desired width. **Fig 1**

Relock both Pin knobs to maintain position. Unlock wheels. Repeat on opposite side.

**Wide to Narrow**

Pull both Pins out and lock wheels on one side. Standing **inside** the walker. Pull up on the handle bar holding it close to the upright. Lift upper part of unit and slide toward locked side to desired width. **Fig 1**

Relock both Pin knobs to maintain position. Unlock wheels. Repeat on opposite side.

Use the same positions on each side to maintain proper balance of the PneuWalker™.
Adjust Height

Change the height of the Pneu-Walker MT™ taller for adults or shorter to accommodate children or small adults.

On the front of the PneuWalker MT™ you will see two knobs, this knob screws out to adjust the height.

You will need an assistant to change the height of the PneuWalker MT™. Un-screw both knobs. Have your assistant lift the uprights, using the center brace bar, to desired height.

The uprights can then be raised in height by 2 inch increments.

Replace the knobs to hold desired position.

Use the center brace bar to raise the PneuWalker MT™

Make sure you use the same positions on each side to maintain proper balance.
PneuVest

A correctly fitted PneuVest vest is the key to successful unweighting. When choosing a vest, select one that corresponds to the user’s waist size, not to the chest size. The vests are color-coded.

For complete vesting instructions see the PneuVest instruction manual included with the vest.

Attaching the Vest to the Lifting Bar

- Each shoulder strap on the vest has a D-ring that attaches to the lifting bar. Adjust the upright posture of the person being unweighted by moving the D-ring back or forth on the straps. For example, to flex the person, slide the D-ring backward. To extend the person, slide the D-ring forward.

- Attach the D-rings to the safety snaps on the lifting bar.

- Use the control panel to unweight.

Wheelchair Users-See Vest Manual

After unweighting, ask the subject if the vest feels uncomfortable. Be sure that the vest is not wedged into the underarms and that it does not restrict breathing. Be sure that the butt straps are under the curve of buttock. Readjust the vest as necessary.

Before unweighting anyone, be sure the waist belt is snug and that the safety snaps (carabineers) are closed completely.
Using the Lifting Bar

The lift bar options provide the ability to adjust the height and weight capabilities of the PneuWalker MT

**To maximize** weight lifting capacity: Attach the patient to Port 3 and the cylinder to Port A

**To maximize** height range: Attach the patient to Port 1 and the cylinder to Port C

![Diagram of Patient Port Settings](image)

<table>
<thead>
<tr>
<th>Cylinder Port Setting</th>
<th>Patient Port Setting</th>
<th>Keypad Unweighting Setting</th>
<th>Unweighted Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left</td>
<td>Right</td>
<td>1</td>
<td>100</td>
</tr>
<tr>
<td>A</td>
<td>A</td>
<td></td>
<td>50 lbs</td>
</tr>
<tr>
<td>B</td>
<td>A</td>
<td></td>
<td>33.3 lbs</td>
</tr>
<tr>
<td>C</td>
<td>A</td>
<td></td>
<td>16.5 lbs</td>
</tr>
</tbody>
</table>

**Table: Right-Side Hemiplegia Settings Grid**

<table>
<thead>
<tr>
<th>Cylinder Port Setting</th>
<th>Patient Port Setting</th>
<th>Keypad Unweighting Setting</th>
<th>Unweighted Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left</td>
<td>Right</td>
<td>1</td>
<td>100</td>
</tr>
<tr>
<td>A</td>
<td>A</td>
<td></td>
<td>50 lbs</td>
</tr>
<tr>
<td>B</td>
<td>A</td>
<td></td>
<td>33.3 lbs</td>
</tr>
<tr>
<td>C</td>
<td>A</td>
<td></td>
<td>16.5 lbs</td>
</tr>
</tbody>
</table>
The PneuWalker MT can be especially beneficial for patients with one weak and one strong side as in Stroke patients. For example:

To lift 100% of the patient’s LEFT side, attach patient to right Port 1 and the right cylinder to Port A. Fig 1

To lift 67% of the patient’s LEFT side, attach patient to right Port 1 and the right cylinder to Port B. Fig 2

To lift 33% of the patient’s LEFT side, attach patient to right Port 1 and the right cylinder to Port C. Fig 3
Using Safety Straps

The PneuWalker MT™ comes with a safety feature that will limit the amount of drop should a patient lose their balance and fall. The nylon safety straps can be adjusted to limit the distance (from 1 to 6 inches) a patient can fall.

To set the distance make sure the strap is connected to the cylinder via the carabineer. Open the cam buckle and set the strap to the desired number in inches. Securely close the cam buckle.

Take care to make sure that both straps are set to the same distance.

Wheels

The PneuWalker MT™ has medical grade locking wheels to prevent movement while assisting a patient with the Pneu-Vest² or lifting from a wheelchair or bed. Simply step firmly on the locking tab and the wheels are locked in place. To unlock step on the release tab.
Using the Unweighting System

To start using the PneuWalker MT

1. Put vest on patient
2. Key in desired weight to unweight on control
3. Choose exercise or unweight modes (see page 8) and press button
4. Tension safety straps as needed.
5. Patient use.
6. Release patient unweighting by pressing Lower Key for two seconds.
7. Remove vest.

The Contained Air System must be charged before use. You must plug in the charger each night. Failure may result in a dead battery.

The air tank must be drained regularly, daily or weekly depending on humidity. Failure to do so may result in damage to Airbox systems.
To avoid potential safety problems, use parts and accessories that meet specifications given in this manual. Before each use, inspect the air tubing for damage, pinched areas, and leaks. Do not use if the integrity of these items is questionable.

**Troubleshooting**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>System will not unweight</td>
<td>System Leak</td>
<td>Check for leaks. Replace as necessary</td>
</tr>
<tr>
<td></td>
<td>Contained air system not charged</td>
<td>Charge contained air</td>
</tr>
<tr>
<td>Kinked hose</td>
<td>Check hoses for kinks</td>
<td></td>
</tr>
<tr>
<td>System not turned on</td>
<td>Check On /Off switch</td>
<td></td>
</tr>
<tr>
<td>Pump runs continuously</td>
<td>System leak</td>
<td>Check for leaks</td>
</tr>
<tr>
<td>Bars lift unevenly</td>
<td>Leak in hose on lagging side</td>
<td>Check for leaks</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th>Height</th>
<th>Width Outside</th>
<th>Width Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min Max in</td>
<td>Min Max in</td>
<td>Min Max cm</td>
</tr>
<tr>
<td>59.5 151.1 cm</td>
<td>26.5 67.3 cm</td>
<td>22 55.9 cm</td>
</tr>
<tr>
<td>73.5 186.7 cm</td>
<td>42.5 108 cm</td>
<td>38.5 97.8 cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lifting Range</th>
<th>Handle Bars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max lb 136.36 kgs</td>
<td>2 in Adj</td>
</tr>
<tr>
<td>300 lb 136.36 kgs</td>
<td>20-29 in 50.8-73.7 cm</td>
</tr>
<tr>
<td>30-40 in 76.2-101.6 cm</td>
<td></td>
</tr>
</tbody>
</table>
Maintenance

Cleaning

Use a soft cloth rinsed in warm water to clean the exterior surfaces. When needed, machine-wash the vest on gentle cycle using regular detergent and cold water. Hang to dry.

Disinfecting

Use procedures established for your facility. The vest can be washed with a mixture of water and disinfectant such as Lysol or equivalent. Does not use bleach on the vest or the color will fade.

Schedule Service

No scheduled service is required. See Preventive Maintenance below. For service, call Noritsu Technical Services: 888-435-7448

Preventive Maintenance

Routinely check the air hose, air fittings, for leaks.

The system must be charged overnight and the air tank drained each day after use. Failure to do so may result in damage to Airbox systems and will not be covered by warrantee.

Safety Requirements

- Read this manual in full before using the PneuWalker MT System.

- Do not operate the PneuWalker MT System until you are sure the vest is properly secured and you are comfortable with the operation of the control panel

- Do not operate this equipment in the presence of flammable anesthetic mixtures.
Wheels

Some PneuWalkers are shipped without wheels attached.

To attach wheels:

1. Lay PneuWalker unit on it’s side
2. Locate wheels in packing
3. Lock wheels

   Wheels must be in locked position before screwing into threaded holes on bottom of unit. Push down on black tab until wheel movement is locked.

4. Insert into hole, screw in a clockwise direction until wheel is flush with bottom support bar.

5. Repeat with remaining wheels

6. Turn unit upright and unlock wheel by lifting up on black tab (by hand or with foot)

The Contained Air System must be charged before use. You must plug in the charger each night. Failure may result in a dead battery. Batteries as consumables are excluded from warranty.
Your Warranty

If a product purchased from Pneumex does not operate properly, Pneumex will repair or replace it at no charge, for up to one year from the date shipped. In the course of repair or replacement, Pneumex may send you written recommendations on how to prevent a problem from occurring again. Pneumex reserves the right to withdraw this warranty if recommendations are not followed. The customer is responsible for freight charges both to and from Pneumex in all cases.

This warranty does not apply to compressors which are covered by the compressor manufacturers.

This warranty is exclusive and is in lieu of all other warranties whether written, oral or implied, including the warranty of fitness for any particular purpose. Pneumex liability is in all cases limited to the replacement price of its product. Pneumex shall not be liable for any other damages, whether indirect, consequential, or incidental arising from the sale or use of its products.

Pneumex sales personnel may modify this warranty, but only by signing a specific written description of any modifications.

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