Joerns

User-Service Manual

Joerns® Therapeutic Support Surfaces TurnCair

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

Important Precautions

Important Notice: The equipment must be installed and operated in the manner for which it was intended. Facility staff/user is responsible for reading and understanding the product user manual and contacting Joerns Healthcare if anything in this manual is unclear. Joerns will not be held responsible for any injuries resulting from failure to comply with the instructions and precautions in this manual.

⚠**Warning:** Joerns specialty support surfaces are designed as mattress replacement systems. The risk of entrapment may occur when the equipment is placed on bed frames that leave gaps of even a few inches between the mattress and the head panel, foot panel, and bed or side rails. The equipment is NOT to be used when such gaps are present.

Facility staff/user is responsible for ensuring that all mattresses properly fit the bed frames. Joerns is not responsible for the placement of its equipment on bed frames that leave gaps between the mattress and the head panel, foot panel or bed or side rails which present a risk of harm to patients.

⚠**Warning:** An optimal bed system assessment should be conducted on each patient by a qualified clinician or medical provider to ensure maximum safety of the patient. The assessment should be conducted within the context of, and in compliance with, the state and federal guidelines related to the use of restraints and bed system entrapment guidance, including the *Clinical Guidance for the Assessment and Implementation of Side Rails* published by the Hospital Bed Safety Workgroup of the U.S. Food and Drug Administration. Further information can be obtained at the following web address: http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/GeneralHospitalDevicesandSupplies/HospitalBeds/default.htm.

When using the mattress system, always ensure that the patient is positioned properly within the confines of the bed. Do not let any extremities protrude over the side or between the bed rails when the mattress is being used.

⚠**Danger Explosion Hazard:** Do not use in the presence of flammable anesthetics. Do not use in the presence of smoking materials or open flame. Air flowing through the air mattress will support combustion.

⚠**Warning:** A possible fire hazard exists. This product is suitable for use with oxygen administering equipment of the nasal, mask, or half bed-length, tent-type only. To prevent personal injury or equipment damage, ensure that the oxygen tent does not extend below the mattress.

⚠**Danger:** To reduce the risk of shock, adhere to the following instructions. Failure to do so could result in personal injury or equipment damage.

- Immediately after using the TurnCair Therapeutic Support System, unplug it from its power source.
- Do not place or store the product where it can fall or be pulled into a tub or sink.
- Do not place or drop the product into water or other liquid.
- Do not remove the back of the control unit. Refer servicing to Joerns.

⚠**Warning:** To reduce the risk of burns, shock, fire, or personal injury, adhere to the following instructions. Failure to do so could result in personal injury or equipment damage.

1. Use this product only for its intended purpose as described in this manual. Only use attachments and/or accessories that are recommended by the manufacturer.
2. If this product has a damaged power cord or plug, is not working properly, has been dropped or damaged, or has been dropped into water, do not operate it. For examination and repair, return the product to Joerns.
3. Keep the control unit and power cord away from heated surfaces, e.g. space heaters.
4. Never block the air openings of the product. Do not place the control unit on a surface, such as a bed or couch, where the air opening and/or filter compartment, located on the back of the control unit, may be blocked. Keep the air openings free of lint and hair.
5. Never drop or insert any object into any opening or hose.
6. Do not spill food or liquids onto the control unit. If a spillage does occur, turn off the unit, disconnect it from its power supply and allow at least 24 hours for drying.
7. Do not use the product outdoors, or where aerosol-spray products are used.
8. Plug this product only into a properly grounded outlet. Refer to "Grounding Instructions".
9. Ensure nothing is placed on the power cord and ensure it is not located where it can be stepped on or tripped over.
10. Do not attempt to service the control unit. Please call Joerns for any service requests.
11. The therapy pad (top cover) of this product is not air permeable and may present a suffocation risk. It is the responsibility of the caregiver to ensure that the patient can use this product safely.

Save These Instructions for Future Reference

Bed System Entrapment Information

In April 1999, the U.S. Food and Drug Administration (FDA) in partnership with representatives from the hospital and post-acute bed industry, including Joerns Healthcare, national healthcare organizations, resident advocacy groups, and other federal agencies formed the Hospital Bed Safety Workgroup (HBSW). The workgroup's goal is to improve the safety of bed frames for residents and patients in all health care settings who are most vulnerable to the risk of entrapment. The efforts of the FDA and the HBSW culminated in the FDA's release of recommended guidelines intended to reduce the risk of entrapment, including dimensional limits for critical gaps and spaces between bed system components and clinical guidance for assessment and implementation of bed side rails in various health care settings.

Entrapment zones involve the relationship of bed components often directly assembled by the healthcare facility rather than the manufacturer. Therefore, compliance is the responsibility of the facility.

As the leading manufacturer of long-term care beds and a frontrunner in addressing this critical issue, Joerns can offer you the expertise, assistance and products to bring your facility into compliance.

Joerns® Compliance Solutions

Matching the right bed components in order to meet regulatory guidelines can be complex.

That is why Joerns offers a wide array of compliance options. We assist customers in selecting compliant accessories recommended for their specific bed model.

Creating a Safer Care Environment

While the guidelines apply to all healthcare settings (hospitals, nursing homes and home care), long-term care facilities have particular exposure since serious entrapment events typically involve frail, elderly or dementia residents.

For More Information

To learn more about compliance options with Joerns products, visit our website at www.joerns.com, or contact our Customer Care representatives at 800.826.0270 and ask for free informational publications.

To learn more about entrapment zones, assessment methods, and guidelines concerning entrapment, contact Joerns at 800.826.0270 or consult the FDA website: http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/GeneralHospitalDevicesandSupplies/HospitalBeds/default.htm.

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Introduction

The TurnCair, provided by Joerns Healthcare, is a unique, continuous bilateral rotation mattress replacement system. This system is designed to meet pressure redistribution and rotational therapy needs of patients with pressure ulcers, special respiratory needs, and those at risk of skin breakdown. Low air loss therapy has been demonstrated to reduce the risk of pressure ulcers.

⚠ **Warning:** The risk of entrapment can arise when equipment is placed on bed frames that leave gaps of even a few inches between the mattress and the headboard, footboard, and bed or side rails.

The equipment is NOT to be used when such gaps are present. See "Important Precautions" section of this manual.

The TurnCair mattress replacement system is suitable for both the treatment of existing pressure ulcers stage I through stage IV as well as those who have been assessed at risk from the complications of immobility. The TurnCair is quiet, comfortable and simple enough for single caregiver installation, featuring rapid inflation in just three to five minutes. The user-friendly controls allow for easy adjustment of patient comfort.

Additionally, low friction and low shear materials, together with average interface pressures well below capillary closure levels (32mm of Mercury), means that the TurnCair meets the comfort and clinical requirements of your patients.

We have ensured that the TurnCair addresses the four key areas in the treatment of compromised skin: pressure redistribution, moisture control, and reduction in both friction and shearing forces.

Pressure Redistribution

The TurnCair is divided into three distinct anatomical zones: head, torso and foot. Each zone is adjusted to ensure optimal pressure redistribution and provide a comfortable sleeping surface.

The TurnCair provides maximum pressure redistribution through delivering a specific amount of air to each therapy cell and allowing controlled amounts of air to escape, thus equalizing the pressure between the patient and the therapy cells. This distributes the patient's weight evenly over a large surface area resulting in pressure readings well below capillary closure levels.

Moisture Control

Patients are at risk for skin maceration if excess moisture is permitted to accumulate beneath the patient. This may be due to perspiration, incontinence or wound drainage.

On the TurnCair, moisture is controlled via the specially treated breathable, fluid-proof, urethane coated nylon therapy pad. The moisture vapor permeable fabric of the therapy pad allows a sufficient amount of air to circulate beneath the pad and wicks away excess moisture.

Shear and Friction Reduction

Shearing occurs when the skin is stationary in relation to the support surface, while the underlying tissues and vessels are stretched and damaged. When a patient's skin rubs against another surface, the result is friction. The top surface of the TurnCair therapy pad is constructed from a very smooth nylon fabric with low friction and low shear properties to protect the patient's skin from these damaging forces.

Indications for Use

Note: The selection of a pressure-redistributing surface needs to be based on each individual patient's clinical condition, diagnosis and/or co-morbidities. The choice and use of a support surface is one factor in a holistic program of wound care and treatment.

Spinal Cord Injury

The TurnCair is not recommended for use by patients with unstable spinal fractures. Advice should be obtained from the appropriate physician before using the TurnCair system for these patients.

Pressure Redistribution

Pressure Ulcers	Rehabilitation
Neurology	Dermatology
Burns	Amputations

Pain Management

AIDS	Arthritis
Oncology	

The TurnCair provides uniform distribution of weight over a wide surface area, which redistributes pressure against bony prominences and provides a soft, gentle therapy surface to lie on. For patients experiencing severe pain and discomfort due to pressure and/or positioning limitations, consider the TurnCair as an adjunct to pain management interventions.

Note: Pressure redistribution and pain management are conditions and diagnoses for which the TurnCair may be indicated. Occasionally, there are orthopedic and neurological patients that require body positioning to be maintained in specific alignment. The TurnCair has safety features and a therapy support cell to prevent deflation of the therapy cells and to keep patients in flotation at all times. However, in the event of error or malfunction, the therapy cells may deflate and not provide the necessary alignment. The use of the TurnCair for these patients should be considered on an individual basis and discussed with the attending physician.

Respiratory Relief

Conditions associated with acute respiratory failure

The TurnCair provides lateral rotation therapy for patients suffering from various types of respiratory failure. The rotation helps promote pulmonary drainage and is appropriate for patients who require mechanical ventilation.

Features

The TurnCair is comprised of two components:

- Therapy control unit
- Therapy mattress system

Therapy Control Unit Features

- *Turn Time* set options of 10, 20, 30 and 60 minutes- 60 minutes is also hold angle function
- *Turn Angle* options of ¼, ½, ¾ and *Full*
- Turn option settings: *Left, Right, Dual*, or *None*
- True low air loss with up to 100 liters of airflow per minute
- Three modes of operation – *Autofirm, Turn* and *Static*
- *Autofirm* mode provides maximum air inflation designed to assist both patients and caregivers during patient transfer and treatment
- Automatic panel lockout to avoid unwanted or accidental adjustments
- Eight therapeutic comfort control settings to maximize patient compliance and promote healing
- Closed loop pressure sensor control system eliminates concerns of changes in mattress interface pressure due to ambient temperature and pressure changes.
- Integrated swing out hanging brackets for fixing to most bed frames
- Crisp, easy to read graphics for intuitive set up and therapy control
- Quick disconnect hose feature allows for rapid attach and CPR deflate at the control unit
- Audible and visual alarms for power interruptions
- Compact lightweight control unit is quiet, robust and powerful, with a reusable air filter and integrated carrying handle for portability.

Therapy Mattress System Features

- Twenty individual therapy cells help to evenly distribute the patient's weight and maximize pressure redistribution.
- Modular cell design mattress for ease of cleaning, re-assembly and cost effective service.
- Lower two-inch therapy support cell provides additional therapeutic support and remains inflated for up to 12 hours in the event of a power failure.
- Lower mattress therapy enclosure provides for stable ingress and egress and reduces entrapment concerns
- Eight-inch deep therapy cells are constructed of highly durable, polyurethane coated nylon to provide adequate support and prevent bottoming out for most patients within weight limit.
- Side bolsters support patient during rotation
- Durable base tub is constructed from 100% heavy weight 1680 denier nylon with a 1.5 oz. urethane coating and incorporates bed attachment loops for stability.
- Maximum weight capacity of 400 lbs.*
- Quick CPR deflation in 30 seconds or less
- Anti-kink, easy clean air supply hose set

Therapy Pads

Many healthcare facilities are facing the challenge of infection control. Joerns' quilted therapy covers are treated with an antimicrobial to protect the therapy pad itself from the growth of mold, mildew and odor-causing bacteria.

Key Features and Benefits:
- Treated with a highly effective bacteriostat agent to inhibit the growth of bacterial and fungus
- Constructed from a very smooth nylon fabric with low friction and low shear properties to protect the patient's skin from damaging friction/shearing forces
- Breathable, moisture vapor permeable fabric allows air to circulate beneath the pad and wicks away excess moisture. This keeps your patient dry and helps to prevent skin maceration. A unique feature of the therapy pad is that it
- Two-way stretch therapy pad is designed for optimal comfort, moisture vapor transfer, stain resistance and ease of laundering

Additional Features

CPR

The hose connection at the control unit is marked *CPR*. Disconnect the hose from the control unit. Deflation times will vary based on patient weight and profile. To resume therapy, reattach the hose to the control unit.

Transport

To transport the patient in bed, turn the control unit off. Unplug the power cord from the outlet. Do not disconnect the hose connection at the control unit. The lower support cell will prevent the patient from bottoming out for up to 12 hours.

Power Failure

After a power failure the unit will start up in standby mode. Reset the preferred mode and comfort level as described in the "Keyboard Functions" section. In the event of a power failure the lower support cells will hold air for up to 12 hours. In case of an extended power failure, transfer the patient to a hospital mattress or other surface.

Optional Accessories

- Additional therapy pads – available for purchase.

Keyboard Functions

⚠**Warning:** For important precautions, see page two.

⚠**Caution:** The patient's head should be positioned in the center of the top section of the mattress. When using the mattress system always ensure that the patient is positioned properly within the confines of the bed. Do not let any extremities protrude over the side or between the bed rails when the mattress is being used.

Power Button
Use the *Power* button to turn the power on and off.

Hold
The *Hold* feature is used to immediately stop all rotation and hold the current mattress position. The mattress will hold this position until this feature is turned off by pressing the *Hold* button a second time.

Autofirm
Autofirm mode provides maximum air inflation designed to assist both patients and caregivers during patient transfer and treatment. The unit will automatically return to the mode it was in prior to *Autofirm* (either *Therapy* or *Pulsate*) in approximately 12 minutes.

The TurnCair has two therapy modes:
- *Turn:* The *Turn* mode provides a continuous rotation cycle on selected times and at selected angles
- *Static:* The unit starts in the *Static* mode, which is the standard low air loss therapy.

Turn
The *Turn* function places the system in the *Turning* mode. Use this button to select the type of rotation desired for the patient. The mattress can be turned to only the left or right side or to both sides in sequence. The *None* position will turn off the *Turn* mode.

Turn Time
Sets *Turn Time* options of 10, 20, 30 and 60 minutes. Sixty minutes is also a *Hold* angle function. When this LED is blinking, it indicates that the mattress is being held in its current position. To resume turning, press the *Turn Time* button until the desired cycle time is selected.

Turn Angle
Sets *Turn Angle* options of 1/4, 1/2, 3/4 and *Full*. *Full* is the maximum turn angle and approximates a 30 degree turn angle for patients with lighter body weight and narrow body shape– other patient weights and body shapes will result in different turn angles.

Comfort Adjust
The *Comfort Adjust* function is located on the right side of the control panel. The TurnCair can be customized to meet individual patient needs within a therapeutic window. Use the up and down keys to simultaneously increase or decrease pressure in all three zones (head, seat and foot). This function will not work in *Autofirm* mode.

Lockout
Note: The unit is designed to lock out all the adjustment controls after the patient has been positioned correctly. In approximately five minutes after the last button push the power on light begins to flash indicating *Lockout* is enabled. This feature is to prevent any unauthorized changes to the patient settings.

To unlock and make adjustments to the settings press both up and down comfort arrows at the same time to disengage the *Lockout* function. The lockout function will return in approximately five minutes.

Figure 2

Grounding Instructions

⚠**Warning:** Use a properly grounded, three-prong, 120V AC outlet for this product. Failure to use a grounded outlet could result in personal injury or damage to equipment or house wiring, including risk of fire. A qualified electrician should be contacted to correct the wiring and ensure a properly grounded outlet.

Before installing this product, have the electrical system checked to make sure the electrical circuits and the electrical service are properly grounded.

Having a three-prong outlet does not necessarily mean it is grounded. Sometimes two-prong outlets are replaced with a three-prong type even though there is no ground wire.

There is always a chance of a loose connection or poor installation of a ground wire that causes the loss of proper ground at the outlet. Inadequate grounding at electrical outlets can occur even if there is a ground wire. Wires can become loose over time at the connection to the outlet.

Note: To install new wires on a circuit requires a qualified electrician.

How to Determine if Your Outlet has the Proper Grounding

Most hardware stores sell circuit testers (Figure 1) that can be used to test an outlet for proper grounding. The tester plugs into an outlet and by observing the indicator lights you can determine if the outlet is properly grounded. For a higher level of assurance, an electrician should be requested to thoroughly test the electrical system with more reliable equipment.

If repair or replacement of the cord or plug is necessary, please contact Joerns Healthcare for assistance.

Figure 1

Setup

⚠**Warning:** For important precautions, see page two.

⚠**Caution:** Do not place the control unit on the floor. Position the power cord to keep personnel from tripping over it.

Note: The TurnCair system must be installed on bed frames that are equipped with side rails. Please raise side rails on the bed and lock them in position after the patient is on the mattress. **Never leave patient unattended on mattress system with bed side rails in the down position.**

When the product is not in use, properly store the power cord. Failure to do so could result in personal injury.

- Remove the existing mattress from the bed.
- Unroll the mattress with the hose connection at the foot end of the bed and the therapy cells facing up. Secure the straps on the mattress to the movable part of the bed frame.
- If the therapy pad is not already on the mattress, place it on the mattress. Attach the elastic straps to the mattress buckles around each corner of the mattress. Attach the additional straps to the movable part of the bed frame.
- Hang the control unit on the foot of the bed facing away from the bed. Attach the hose connector marked *CPR* to the control unit.
- Plug in the control unit and the orange *Standby* light will illuminate. Press the *Power* button. The control unit will start and the green light will illuminate. Keep the control unit ON while the patient is on the mattress.
- Fully inflate the mattress by selecting *Autofirm*. When the mattress is fully inflated, select the *Therapy* mode, and place the patient on the mattress. **Note:** Keep the control unit on while the patient is on the mattress.
- Select the appropriate *Comfort Adjust* level to prevent bottoming out (i.e. providing greater than one inch of air between the patient's sacral area/buttocks and the lower safety mattress) as outlined:
  1. Begin by placing the head of the bed in the appropriate position based on the patient's clinical condition.
  2. Select the highest or most firm *Comfort Adjust* setting.
  3. Hand Check: Place a hand with three (3) fingers (if head of bed at 30° or higher) or four (4) fingers (if head of bed lower than 30°) stacked vertically beneath the cells of the mattress and above the safety mattress directly between the lowest point of the patient's sacral area/buttocks. The smallest finger should be resting on the safety mattress.

4. Sequentially reduce the *Comfort Adjust* setting to the firmness level where the height of the three (3) or four (4) fingers can slide with minimal resistance between the patient's sacral area/buttocks and the lower safety mattress. This is the proper *Comfort Adjust* setting for the patient to assure proper inflation of the air cells and prevent bottoming out of the mattress.
5. Document the patient's *Comfort Adjust* setting for future reference, and re-evaluate with the hand check as the patient's condition warrants.
6. The safety side bolsters cannot be inflated unless the *CPR* plug is installed. The plug is located on the hose assembly between the mattress and the control unit.

⚠ **Caution:** The safety side bolsters should always be inflated when patient is unattended on the mattress and/or the mattress is in turn mode.

Troubleshooting

Therapy Surface is Not Inflating

1. Ensure the hose connection from the therapy mattress system (mattress) to the control unit is securely connected.
2. Ensure that the control unit is plugged into an AC outlet.
3. Ensure that the power is not on *Standby*. If on *Standby*, press the *Power* button.
4. Ensure that all air cells are connected to the manifold.

Unable to Change Therapy Mode or Adjust Comfort Control

Make sure the *Lockout* function is disabled. To disable, press the up and down comfort adjust arrows simultaneously.

Nursing Procedures

Recommended Linen:

Special linens are not necessary for the TurnCair. While there is no need for a bottom sheet the therapy pad should be covering the therapy cells at all times. The patient should never be lying directly on the therapy cells. Upon the patient specific needs the following linens may be utilized:

- Draw or slide sheet to aid in positioning and to further minimize friction and shearing
- Incontinence barrier pad for patients incontinent of urine and/or stool, and patients with heavily draining wounds
- Add top sheet, blanket and/or bedspread as needed for patient comfort
- Keep the amount of padding between the patient and bed to a minimum for optimum performance

Changing the Therapy Pad

1. Place the therapy pad over the therapy cells, fitting the corner of the cushions into the corner of the therapy pad. (Similar to a fitted sheet)
2. Zip the therapy pad along each side of the mattress tub.

Patient Positioning and Comfort

General Repositioning
Patients should be turned and repositioned per individual turning schedule or per facility policy. It may be helpful to activate the *Autofirm* mode to achieve a firm surface for repositioning purposes. The unit will automatically return to the mode it was in prior to *Autofirm* in approximately 12 minutes or you can manually return to therapy mode once patient has been repositioned.

Unless counter indicated, it is desirable to keep the head of the bed in the low position to provide optimal pressure redistribution and minimize the risk of shearing injuries.

Elevating Patient into Sitting Position
The special properties of the TurnCair, therapy pad reduce the opportunity for shear and friction that may occur when raising the back section of other beds. As with any surface, sliding can be expected, therefore patients should be repositioned after elevation. The knee gatch or knee section of the bed may be elevated first, to help prevent the patient from sliding when the back section of the bed is elevated.

Incontinence

Moisture against the skin surface leads to maceration, or softening of the tissues. To prevent maceration, we recommend you use an incontinence barrier pad to absorb the excess moisture.

In the event of incontinence or excess drainage on the therapy pad, you should wipe off the excess fluid from the bed surface.

Safety Information

Patient Migration

Specialty bed products are designed to reduce/redistribute pressure and the shearing/friction forces on the patient's skin. The risk of gradual movement and/or sinking into hazardous positions of entrapment and/or inadvertent bed exit may be increased due to the nature of these products.

Traction

With any traction or unstable fractures, maintain physician-directed angle of articulation and guard against risks of patient migration or inadvertent deflation of patient surface.

Skin Care

Monitor skin conditions regularly, particularly in areas where incontinence and drainage occur or collect, and consider adjunct or alternative therapies for high acuity patients. Early intervention may be essential to preventing serious skin breakdown.

Bed Height

To minimize the risks of falls or injury the patient surface should always be in the lowest practical position when the patient is unattended. Make sure areas under and around the frame are clear of objects, persons and parts of body before adjusting height.

Cleaning

⚠**Warning:** Unplug the control unit from its power source. Failure to do so could result in personal injury or equipment damage.

⚠**Warning:** Do not expose the unit to excessive moisture that would allow for liquid pooling. Personal injury or equipment damage could occur.

⚠**Caution:** Do not use harsh cleansers/detergents, such as scouring pads and heavy-duty grease removers, or solvents, such as acetone. Equipment damage could occur.

Control Unit

Wipe off dust. If necessary, clean the housing exterior with a disinfectant solution or a mild detergent and a damp cloth. Then wipe dry.

General Cleaning

If there is no visible soilage with possible body fluids, we recommend that you clean the mattress system with a mild detergent and warm water. If disinfection is desired, you may use a combination cleanser/ disinfectant as explained in "Disinfecting" area.

1. Patient care equipment that does not come in contact with mucous membranes or non-contact skin requires low-level disinfection. Wiping surfaces with a properly prepared detergent or disinfectant carries out low level disinfecting.
2. Processing of dirty patient care equipment should take place in a designated area away from clean or sterile supplies and food preparation areas.
3. Detergent/disinfectants should not be mixed with other germicides or detergents. Using the proper dilution insures the most effective killing power of the disinfectant.
4. Wash hands often and well, including after removal of gloves.
5. Patient care equipment that is used in isolation areas should be disinfected in accordance with all internal policies and procedures regarding such equipment.

Disinfecting

When there is visible soilage and between patients, we recommend that you disinfect the unit and mattress with a tuberculocidal disinfectant. Disinfectant should be registered with the Environmental Protection Agency (EPA).

1. Use rubber gloves and eye protection.
2. Prepare detergent/disinfectant (registered by EPA as hospital disinfectant) solution according to instructions on label for correct use-dilution.
3. With support surface deflated, thoroughly wipe down entire mattress, as air cells will lie flat. Be sure to reach all areas underneath and in-between air cells. Allow to air dry.
4. If dust or other soiling has accumulated along air hoses, remove using swabs moistened with detergent/disinfectant as necessary. Allow all components to air dry. Wrap mattress in plastic and return to storage area.
5. Thoroughly wipe down outside of control unit and allow to air dry. Cover with plastic and return to storage area
6. Remove gloves and dispose; wash hands.

Therapy Pad

The therapy pad can be wiped down with a disinfectant solution or a mild detergent with a damp cloth. If heavily soiled, the therapy pad can be laundered in a washer and dryer with warm water (no more than 120º Fahrenheit). A non-bleach detergent should be used sparingly. Wipe dry or allow to air dry.

Steam Cleaning

Do not use any steam cleaning device on the unit. Excessive moisture can damage mechanisms in this unit.

Filter Cleaning

Check the air filter on the rear of the unit regularly for buildup of dust/dirt. If buildup is visible turn off the control unit and disconnect the power cord from the wall outlet. Remove the filter by grasping the filter pulling outward. Replace with the second supplied filter. Ensure the replaced filter covers the entire filter region.

Hand-wash the removed filter in warm soapy water and allow to air dry. When dry, store the filter in a safe place for the next filter maintenance.

Maintenance

⚠ **Warning:** Only facility-authorized personnel trained by Joerns Healthcare should perform preventative maintenance. Preventative maintenance performed by unauthorized personnel could result in personal injury or equipment damage. Any maintenance done without Joerns authorization will invalidate any warranties on this product.

Storage And Care

Note: Clean the TurnCair as described in the previous section prior to storage.

Control Unit

The power cord may be wrapped around the unit for convenience. Wrap the unit in a plastic bag for dust resistance then store the unit in an area appropriate for an electronic medical device.

Support Surface

Gently roll up the support surface, expelling any residual air, for temporary storage. The mattress should be wrapped in plastic and/or a clean bag for storage.

System Specifications

Weight

Control unit: ..... 14 lbs ..... (6 Kg)
Mattress: ..... 24 lbs. .....(11 Kg)
Maximum weight capacity*..... 36"(W) and 42"(W) 500 lbs. (227 kg)
..... 48"(W) 1000 lbs.

Dimensions

Control unit:
12" (31cm) L x 5.75" (15cm) W x 10.5" (27cm) H

Mattress:
36" (91cm) W x 80" (203cm) L x 10" (25cm) D
42" (107 cm) W x 80" (203 cm) L x 10" (25 cm) D
48" (122 cm) W x 80" (203 cm) L x 10" (25 cm) D

*Mattress weight capacity only; total weight must not exceed bed frame manufactures' specified load capacity

Electrical Specifications

USA
88 -132V AC, 47- 63 Hz, 2A (Startup)
Less than 1A (Running)

European/Australian
176V - 264V AC, 47 - 63 Hz, 1A (Startup)
Less than 0.5A (Running)

Environmental Conditions

Operating Conditions:
Ambient temperature: +10°C to +40°C
Relative humidity: 30% to 75% non-condensing

Storage And Shipping Conditions:
Ambient temperature: 10ºC to +40ºC
Relative humidity: 10% to 100%

Control Unit Agency Approvals

- UL Classified: UL 60601-1 CAN/CSA C22.2 No. 60601-1
- UL Classified per Canadian standard: Medical Electrical Equipment, CSA 601.1 M90

Call For Assistance

If you have any questions or require service on a Joerns product, please call Joerns Healthcare at 800.826.0270, option 1.

Joerns

Joerns Healthcare Warranty Program
for Joerns® TxCair® Plus Support Surfaces

Joerns Healthcare warrants the TurnCair mattress to be sold free from defects in workmanship and materials, under normal and proper use, for a period of two (2) years on the mattress, and one (1) year on the cover and electromechanical mattress components (compressors, valves, printed circuit boards, hoses, and couplers). Damages arising from improper use will not be covered by this warranty.

Improper use is defined as those caused by:

- Burns
- Use of improper chemical agents
- Needle punctures, cuts or abrasions
- Excessive loads
- Staining
- Negligent or excessive usage
- Improper maintenance, handling and/or cleaning
- Failure to use in the manner indicated in the TurnCair user manual

Any modification, repair or alteration done to the TurnCair that were not authorized in writing by Joerns Healthcare will void this warranty.

Damage caused by use in unsuitable environmental conditions, abuse or failure to maintain the product in accordance with user and service instructions is not covered.

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

Parts

Joerns Healthcare's TurnCair contain various parts that wear from normal use. 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 to be defective. When requested by Joerns, parts must be returned for inspection at the customer's expense. Credit will be issued only after inspection.

Service

Most service requests can be 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.

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