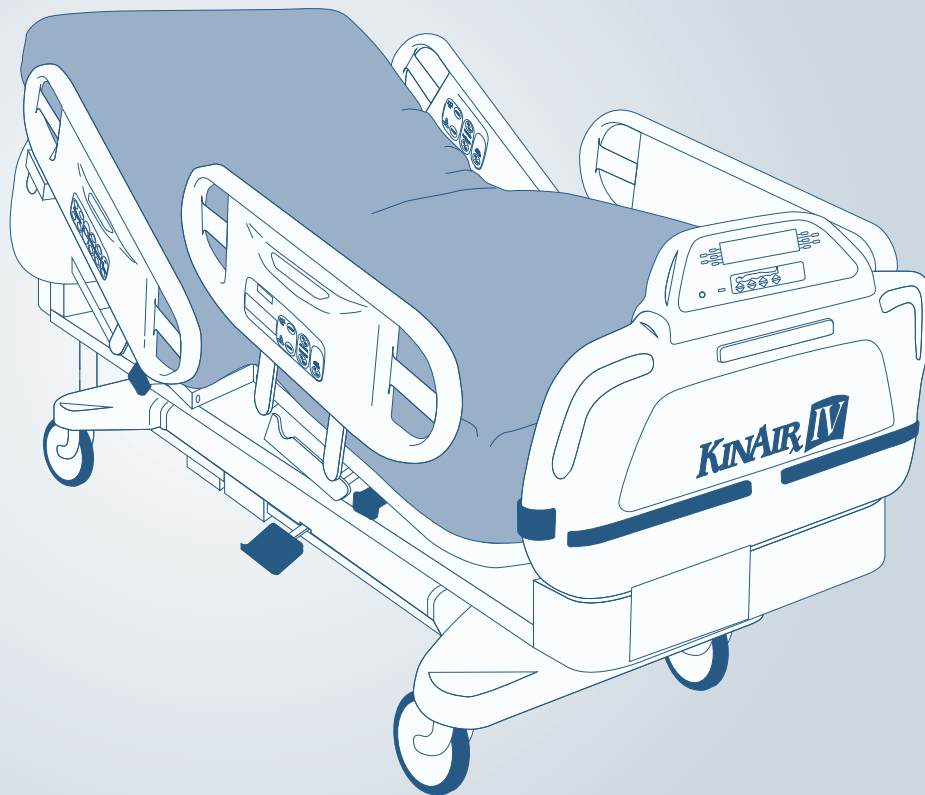


# ARJOHUNTLEIGH

GETINGE GROUP

## KinAir IV

### USER MANUAL





This *KinAir™ IV* User Manual is not a guarantee or warranty as to this product. It is intended only as a user's guide. For additional information or for specific questions please contact ArjoHuntleigh Customer Service.

In order for ArjoHuntleigh products to function properly, the following conditions must be met. Failure to comply with these conditions will void any pertinent warranties.

- It is strongly recommended that all assembly, operation, adjustment, modification, maintenance and / or repair be carried out only by qualified personnel authorized by ArjoHuntleigh.
- The electrical installation of the room must comply with the appropriate electrical wiring standards.
- The product must be used in accordance with this manual and all applicable labeling.

Although this equipment conforms with the intent of the directive 89 / 336 / EEC in relation to Electromagnetic Compatibility, all electrical equipment may produce interference. If interference is suspected, move equipment away from sensitive devices or contact the manufacturer.

#### **NOTICE**

This product has been configured from the manufacturer to meet the specific voltage requirements. Refer to the Product Information Label to verify whether product is 115 VAC, 12 Amp or 230 VAC, 7 Amp configuration.



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The *KinAir IV* bed is a patient support surface comprised of 12 unique dual cushions and one Head Cushion positioned over two inflatable turning bladders; all of which are mounted on a medical / surgical bed frame. The patient rests on the patient support surface as air pressures in every other cushion slowly increase and decrease, creating a gentle pulsating action. The cushions are grouped into four sections: Head, Body, Seat and Leg, allowing for customization of air pressures in each section of cushions.

The *KinAir IV* bed is designed to provide continuous air suspension, flexible patient positioning capabilities and built-in Scales and Warmer for patients, as indicated below:

## INDICATIONS

Patient conditions for which the *KinAir IV* bed is indicated are:

- Prevention and Treatment of Pressure Ulcers in high risk patients
- Treatment of severe or extensive Burns
- Pain Management
- Skin grafts and flaps

*Air Suspension Therapy™* may be beneficial when skin circulation is impaired or when increased circulation will improve the treatment process.

## CONTRAINDICATIONS

Patient conditions for which the *KinAir IV* bed is contraindicated are:

- Unstable Vertebral Fracture
- Cervical Traction
- Skeletal Traction in the Wound Care Nurse Assist Mode

## WARNINGS, RISK AND PRECAUTIONS

Patient conditions for which the *KinAir IV* bed dictate Warnings, Risk and Precautions are:

- **Side Rails and Restraints** - Use of restraints, including side rails, can be critical to patient safety. Serious injury or death can result from the use (potential entrapment) or non-use (potential patient falls) of side rails or other restraints. Risks of potential entrapment or falls may be elevated in the Nurse Assist Mode. See related **Warnings, Risk and Precautions** and **Safety Information** sections of this manual.
- **CPR** (in **Nursing Care** and in **Operations** sections) - Head of bed (if elevated), will drop abruptly when CPR Handle is squeezed.
- **Patient Bathing** - Fluids remaining on the controls can cause corrosion, which may cause components to fail, possibly producing potential hazards to patient and staff.
- **Daily Care** (in **Care and Cleaning** section) - Fluids remaining on the controls can cause corrosion, which may cause components to fail, possibly producing potential hazards to patient and staff.
- **Bed Exit Alarm** (in **Operations** Section) - Monitor patient frequently to guard against patient entrapment.

- **Skeletal Traction and Unstable Fractures** - With skeletal traction, unstable pelvic fractures or any other unstable fracture (to the extent not contraindicated), maintain physician-directed angle of articulation and guard against risks of patient migration or inadvertent deflation of air surface.
- **Patient Migration** - As with all specialty bed products that are designed to reduce shear and pressure 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.
- **Explosion Hazard** - Do Not use in the presence of flammable anesthetics.
- **Oxygen Use - DANGER:** Risk of explosion if used in the presence of flammable anesthetics. Use of this product in an oxygen-enriched environment may produce potential of fire hazard. This equipment is not suitable for use in the presence of a flammable anesthetic mixture with air, with oxygen or nitrous oxide.
- **CAUTION:** When using half-bed length type oxygen administering equipment, ensure that side rails are outside of oxygen tent and not contained within the oxygen environment. Hand control not available with this product.
- **Electromagnetic Interference** - Although this equipment conforms to the intent of the directive 89/336/EEC in relation to Electromagnetic Compatibility, all electrical equipment may produce interference. If interference is suspected, move equipment away from sensitive devices or contact the manufacturer.
- **Shock Hazard** - Electrical shock hazard; do not remove covers. Refer to Qualified Service Personnel.

## SAFETY INFORMATION

**General Protocols** - Follow all applicable safety rules and institution protocols concerning patient and care giver safety.

**Skin Care** - Monitor skin conditions regularly, particularly at bony prominences and 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.

**Brakes** - Caster brakes should always be locked once the bed is in position.

**Bed Height** - To minimize the risk of injury from falls, the patient surface should always be in the lowest practical position when the patient is unattended.

**Side Rails / Patient Restraints** - Whether and how to use side rails or restraints is a decision that should be based on each patient's needs and should be made by the patient and the patient's family, physician and care givers, with facility protocols in mind. Care givers should assess risks and benefits of side rail / restraint use (including entrapment and patient falls from bed) in conjunction with individual patient needs, and should discuss use or non-use with patient and / or family. Consider not only the clinical and other needs of the patient but also the risks of fatal or serious injury from falling out of bed and from patient entrapment in or around the side rails, restraints or other accessories. In the US, for a description of entrapment hazards, vulnerable patient profile and guidance to further reduce entrapment risks, refer to FDA's Hospital Bed System Dimensional and Assessment Guidance To Reduce Entrapment. Outside the US, consult the local Competent Authority or Government Agency for Medical Device Safety for specific local guidance. Consult a care giver and carefully consider the use of bolsters, positioning aids or floor pads, especially with confused, restless or agitated patients. It is recommended that side rails (if used) be locked in the full upright position when the patient is unattended. Make sure a capable patient knows how to get out of bed safely (and, if necessary, how to release the side rails) in case of fire or other emergency. Monitor patients frequently to guard against patient entrapment.

When selecting a standard mattress, ensure the distance between top of side rails (if used) and top of mattress (without compression) is at least 8.66 in (220 mm) to help prevent inadvertent bed exit or falls. Consider individual patient size, position (relative to the top of the side rail) and patient condition in assessing fall risk.

**Bed Exit Alarm** - Activation of the Bed Exit Alarm is recommended whenever a patient is unattended. Be sure to reactivate the Bed Exit Alarm each time the patient returns to bed. When provided, Alarm Circuit is for external connection to nurse call system only. Interconnection with this and other devices or systems shall be in accordance with the requirements of Standard for Medical Equipment IEC 60601-1, Local Codes and National Codes.

**NOTE:** *Bed Exit Alarm is triggered by dramatic weight reduction and may not alarm if patient is only partially exited from bed. Monitor patient frequently to guard against patient entrapment and migration.*

**Ambulatory Patient Entrance and Exit** - Lower the patient surface completely during assisted patient entrance and exit.

**Transfer** - Precaution should be taken during patient transfer. Refer to Patient Transfer sections in the **Patient Placement** and **Nursing Care** chapters of this manual.

**Fluids** - Avoid spilling fluids on bed controls. Unplug the bed if spills do occur. Clean fluid from bed wearing rubber gloves to avoid any possibility of electrical shock. Once fluid is removed, check operation of components in area of spill.

**NOTE:** *Fluids remaining on or inside controls can cause corrosion, which may cause components to fail or to operate erratically, possibly producing hazards for patient and care giver.*

**Lock-Outs** - Lock-Out of bed functions from the Bed Motion Control Panel and Side Rail Control Panels should be used at the staff's discretion to ensure against unintentional tampering with system settings.

**Moving Parts** - Powered Bed Mechanisms Can Cause Serious Injury. Keep all equipment, tubes and lines, loose clothing, hair and parts of the body away from moving parts and pinch points.

**Foley Bag Hook** - Isolated Foley Bag Hook Does Not Retract With Bed Frame.

**Power Cord** - Ensure power cord is kept free from all pinch points and moving parts and is not trapped under casters nor covered with rugs or carpets. Visually inspect the cord for signs of damage or wear. Improper handling of the power cord can cause damage to the cord, which may produce risk of fire or electric shock. When transporting or disconnecting power cord be sure to use cord wrap located on lower covering on front head of bed, and especially for storage of unit.

**Hospital Grade Power** - Unstable electrical ground may exist. Grounding reliability can only be achieved when the power cord is connected to an equivalent receptacle marked Hospital Grade. Where the integrity of the external protective conductor in the installation or its arrangement is in doubt, Equipment shall be operated from its Battery.

**Avoid Fire Hazards** - To minimize risk of fire, connect the bed's power cord directly into a wall-mounted outlet. Do not use extension cords or multiple outlet strips. Review and follow FDA's Safety Tips for Preventing Hospital Bed Fires (dated December 18, 2003).

**Tobacco Smoke** - If institutional or routine laundering and cleaning procedures are not followed, tobacco smoke build-up may conceivably reduce the amount of air flow through the product. Severe air restrictions (whatever the source) may cause the unit to overheat and to deactivate automatically.

**Scale Readings** - Scales / patient weights are for reference only. Scale readings should not be relied upon for medication dosage.

**Blank Display** - If Main Control Panel remains blank, call for service immediately.

**Batteries** - Bed Contains Batteries And Must Be Plugged In When Not In Service.

**Service Personnel** - Inspect batteries Monthly. Batteries more than 28 months old from the date of manufacture are replaced in pairs. Install a Battery History label on battery cover with proposed date of next battery replacement. Apply label in a visible location so that all information is displayed.

**Disposal** - At the end of useful life, dispose of waste according to local requirements or contact the manufacturer for advice. There may be special requirements for disposal of batteries, leaded foam and / or angle sensors (if present in this product).

It is recommended that all sections of this manual be reviewed prior to product use. **Carefully read and follow the Contraindications, Warnings, Risk and Precautions and Safety Information Sections in the Introduction Chapter of this manual prior to placing a patient on the KinAir IV bed.**

## PREPARATION FOR PATIENT PLACEMENT

1. Evaluate patient to determine whether side rails or other restraints, bolsters, positioning aids and / or ArjoHuntleigh Padded Side Rail Accessories will be used. (Refer to related **Warnings, Risk and Precautions** and **Safety Information**.)
2. Lock caster brakes.
3. Plug Power Cord into a properly grounded 115 VAC wall outlet.

**NOTE:** *Do not use a wall outlet controlled by a wall switch. Refer to **Safety Information** on Power Cord, Hospital Grade Power and Avoid Fire Hazards.*

4. Level bed.
5. Configure bed, as required (add pillows, blankets, accessories, etc. to the weighed portion of bed).
6. Press ON / OFF button on Main Control Panel to activate air supply to the bed.

**NOTE:** *The Power light on the LED Display Panel below the Bed Motion Control Panel will flash when the Nurse Call Back-up Battery needs to be replaced.*

7. Calibrate scale to zero:

**NOTE:** *Refer to **Safety Information** on Scale Readings.*

- **Press and hold** SCALE ON / OFF button on Bed Motion Control Panel (located beneath Main Control Panel).
- Release the SCALE ON / OFF button when the words LET GO FOR SCALE appear on Scale Display. This will turn off the Trend Angle Display and activate the scale.
- **Press and hold** ZERO button to set weight value of all equipment currently on weighed portion of bed to 0 lb (0 kg).
- Release the ZERO button. Allow bed to zero out. Scale Display will read 0.0 lb (0 kg).

8. Enable Bed Exit Alarm:

**NOTE:** *Refer to **Safety Information** on Bed Exit Alarm.*

- **Press and hold** Arm and Disarm buttons on Bed Motion Control Panel together for five seconds.
- Release buttons. ARMED light will flash.
- Do not touch bed until ARMED light stops flashing.

**NOTE:** *Bed Exit Alarm will be set once patient is in place.*

9. Preset air pressures using Main Control Panel:

- Press button for MENU on Home Display.

- Press button for HEIGHT / WEIGHT.
- Press buttons for INCREASE or DECREASE to enter patient's height and weight.
- Press button for ENTER to save settings and return to the Main Menu.
- Press button for EXIT to return to the Home Display.

**NOTE:** Cushions will inflate to a preset air pressure based on the patient's height and weight.

10. Press button for *INSTAFLATE™* to fill cushions and create a firm surface for patient transfer.

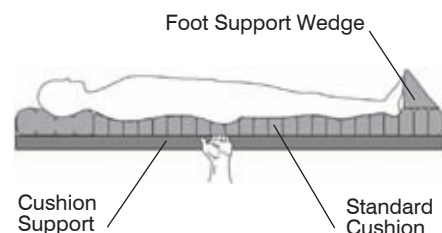
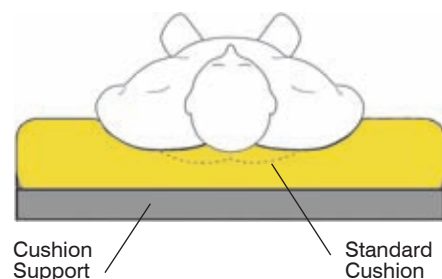
**NOTE:** Five beeps will sound when *Instaflate* is activated, and will sound every 20 minutes, until *Instaflate* is canceled.

## PATIENT TRANSFER TO THE KINAIR IV BED

1. Adjust height of bed to same level as surface from which patient is being transferred.
2. Ensure caster brakes are locked.
3. Lower Side Rails (if used).
4. Transfer patient following all applicable safety rules and institution protocols.
5. Press button for CANCEL to turn off *Instaflate* and return cushions to previous air settings.
6. If Side Rails or restraints are used (see related **Warnings, Risk and Precautions** and **Safety Information**), raise and lock Side Rails and properly position.
7. Install Foot Support Wedge, as required.

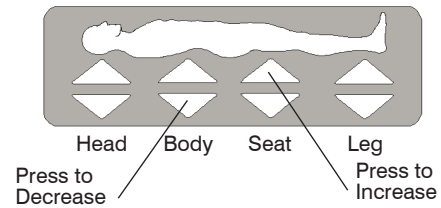
## AIR PRESSURE ADJUSTMENT

1. Verify proper air pressure adjustment using the following methods:
  - Allow a cradling effect, approximately a 40% depression in Cushions where the patient lies, as shown at right.
  - Perform a hand check beneath the shoulders, hips and heels, as shown at right:
    - Slide hand under Cover Sheet, down inside Cushion Sleeve and beneath Cushions to rest on Cushion Support.
    - Lift hand slightly to verify 1.50 in to 2 in of air is supporting the patient.



## 2. Manually adjust air pressure, as needed:

- Press triangular buttons, shown at right, to increase / decrease air pressures for Head, Body, Seat and Leg Cushion sections.

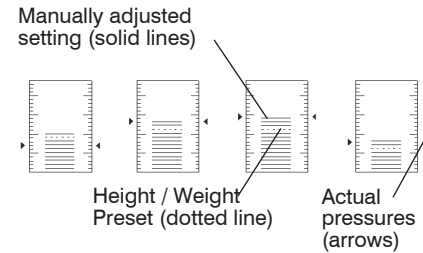


- The Bar Graph Display shown at right will appear. The individual bar graph for the adjusted section of cushions (Head, Body, Seat and Leg) will increase / decrease by one bar every two times the triangular button is pressed.

The dotted line in each bar graph represents the Height / Weight Preset target pressures.

The solid lines represent the manually adjusted target pressure.

The arrows on each side of each bar graph represent actual pressures.



- Press button for EXIT to return to Home Display.

**NOTE:** Allow sufficient time for cushions to respond to air pressure adjustments. The arrows shown on each side of the Bar Graph should be allowed to move to the new setting, indicating that the target pressure has been reached before additional adjustments are made.

## 3. Verify air pressure adjustments, checking cradling effect and using hand check.

# COMPLETION OF PATIENT PLACEMENT

## 1. Adjust Warmer status and settings, as required:

- Press button for MENU on Home Display.
- Press button for WARMER on Main Menu. With Warmer Menu showing:
  - Change Current Status to ON.
  - Press button for ENTER to save settings and return to the Main Menu.
  - Press button for EXIT to return to the Home Display.

## 2. Perform initial patient weighing and save the dated Initial Weight in the Weight Trend Chart:

**NOTE:** Scales / patient weights are for reference only. Scale readings should not be relied upon for medication dosage.

- Press SCALE button on the Main Control Panel. Scale Menu will appear.
- Press button for SAVE IN WT TREND to save weight and date of reading into Weight Trend Chart.

- Press button for WT TREND CHART to view Weight Trend Chart. Verify current weight and date are shown on the first line of the display.

**NOTE:** *The top line of the Weight Trend Chart will display the date and Initial Weight. This line is for reference and will not change. When future weight readings are taken and entered into the Weight Trend Chart, the most recent reading will appear on the bottom line of the display. This information will move up one line each time a new weight reading is saved into the Weight Trend Chart and will eventually move up and off the display.*

- Press button for EXIT to return to the Scale Menu.
- Press button for EXIT to return to the Home Display.

### 3. Set the Bed Exit Alarm:

**NOTE:** *Refer to **Safety Information** on Bed Exit Alarm.*

- Press Arm button on Bed Motion Control Panel.
- ARMED light will come on, indicating Bed Exit Alarm is now on.

**NOTE:** *Scale functions are deactivated when Bed Exit Alarm is set.*

### 4. Adjust bed for patient comfort.

### 5. Ensure caster brakes are locked.

### 6. If Side Rails or restraints are used (see related **Warnings, Risk and Precautions** and **Safety Information**), raise and lock Side Rails and properly position.

### 7. Adjust bed height to lowest level (see related **Safety Information** on Bed Height).

### 8. Set Lock-Outs, as required:

- Bed Functions (Raise / Lower Head, Foot, Bed, Trendelenburg, etc.)
  - Locate Bed Motion and Side Rail Control Lockouts on Bed Motion Control Panel.
  - Press HEAD, KNEE, UP / DOWN or BED MOTION LOCK buttons to disable bed functions as required. Padlock symbol will illuminate to indicate lockout is engaged for each function.
- Air Functions (Air Adjust, Warmer).

**NOTE:** *The Warmer will be deactivated when the Lock-Out Menus are accessed.*

**NOTE:** *Refer to the **Lock-Out Menus** section of the **Operating Instructions** chapter of this manual for additional information.*

- Press hidden button on Main Control Panel for ten seconds. Diagnostics Menu will appear.
- Press button for LOCK. Lock-Out Menu will appear.
- Press buttons for CHANGE to adjust the Lock-Out settings for Air Adjust and Warmer to UNLOCK, FREEZE or LOCKED OFF.



**NOTE:** *FREEZE locks each function's settings into the current parameters.  
LOCKED OFF removes access to the function and is available for the Warmer only.  
UNLOCK allows access to the function.*

- Press button for ENTER to save Lock-Out settings and return to the Home Display.
- Reactivate Warmer, as required.

**Caution:** To reduce risks to patients and care givers carefully read and follow **Contraindications, Warnings, Risk and Precautions** and **Safety Information Section** of this manual, throughout use of the *KinAir IV* bed.

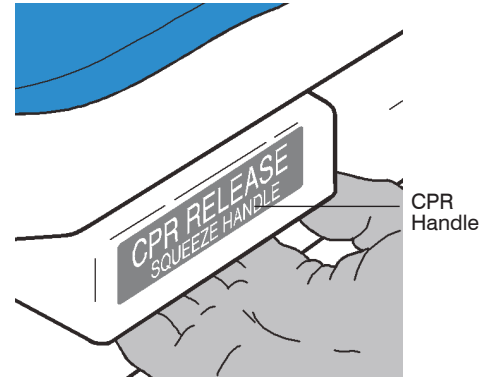


It is recommended that all sections of this manual be reviewed prior to product use. **Carefully read and follow the Contraindications, Warnings, Risk and Precautions and Safety Information Sections in the Introduction Chapter of this manual prior to performing nursing care for a patient on the KinAir IV bed.**

## CPR

*Use CPR Quick Release Lever to deflate cushions and bladders and automatically lower and level bed to facilitate CPR procedures.*

1. Squeeze red CPR Handle located on underside of head-end of bed, as shown at right.



### WARNING

**WARNING: Head of bed (if elevated), will drop abruptly when CPR Handle is squeezed.**

- Air is switched off; Cushions will deflate.
  - The message shown at right will appear and flash in the Nurse Display.
  - The display shown at right will appear and flash on the Main Control Panel.
2. Lower Side Rails (if used).
  3. Remove Headboard, as needed.
  4. Begin CPR. Crashboard is not needed. Patient's weight and the CPR process will deflate cushions.
  5. After CPR is performed and patient is clinically stable:
    - Press CANCEL CPR button on Main Control Panel to inflate cushions and resume bed functions.
    - Raise and lock Side Rails, if used (see related **Warnings, Risk and Precautions** and **Safety Information**).
    - Re-install Headboard, as needed.
    - Adjust bed for patient comfort.

CPR Activated !

CPR Activated !  
Air Switched OFF!

## ALARMS

An audible alarm will sound when:

- Patient has exited bed. Press Disarm button on Bed Motion Control Panel to silence Bed Exit Alarm. Be sure to arm alarm again each time patient returns to bed.
- *Instaflate* or Seat Deflate has been activated. Alarm will sound again when feature has been activated for 20 minutes.
- Battery Back-Up is activated.

## PATIENT POSITIONING

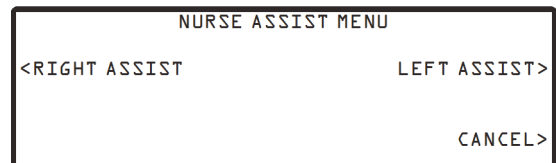
The following bed and air functions have been built into the *KinAir IV* bed to accommodate numerous clinical positioning requirements. Functions are activated from either the foot of the bed or from the Side Rails.

### Nurse Assist

*Use Nurse Assist to turn the patient to either the right or left side-lying position and hold the patient there.*

1. To activate Nurse Assist:

- Press button for NURSE ASSIST MENU on Main Control Panel. The display shown at right will appear.
- Press button for LEFT ASSIST or RIGHT ASSIST, as desired.



**NOTE:** *Warmer will continue, if activated.*

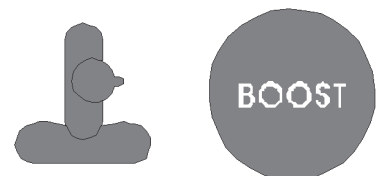
2. To deactivate Nurse Assist:

- Press button for CANCEL to deactivate Nurse Assist and return to Home Display.

### Boost

*Use Boost to increase air pressures in all seat cushions to help maintain 1.50 in minimum clearance below side-lying patient.*

- Press BOOST button on Side Rail Nurse Control Panel.



## Trendelenburg / Reverse Trendelenburg

Use Trendelenburg / Reverse Trendelenburg to adjust patient support surface from +8° Trendelenburg to -8° Reverse Trendelenburg.

- To adjust bed position, **either**:
  - Use Trendelenburg / Reverse Trendelenburg buttons, as shown at right:
    - Press up arrow button for Trendelenburg
    - Press down arrow button for Reverse Trendelenburg **or**



- Use TREND buttons on the Bed Motion Control Panel (located under Main Control Panel), as shown at right.

**NOTE:** Height of bed will be automatically adjusted if needed to accommodate Trendelenburg and Reverse Trendelenburg.

**NOTE:** Trendelenburg angle will appear on Scale Display.



**Trend.**



## Cardiac Chair

Use CHAIR button to automatically position patient to 60° Head Articulation, 40° Knee Articulation and +8° Trendelenburg.

- **Press and hold** CHAIR button as shown at right. Release button at any time to stop automatic bed movement and positioning.



## PATIENT TRANSFER TO THE KINAIR IV BED

**NOTE:** Refer to the **Patient Placement** chapter of this manual if patient is being transferred to the KinAir IV bed for initial placement.

1. Level bed.
2. Press **INSTAFLATE ON / OFF** button located on Lower Side Rail Control Panel to create a firm surface for patient transfer.  
  
**NOTE:** Five beeps will sound when *Instaflate* is activated, and will sound every 20 minutes, until *Instaflate* is canceled.
3. Ensure caster brakes are locked.
4. Lower Side Rails (if used).
5. Adjust height of bed to same level as surface from which patient is being transferred.
6. Transfer patient, following all applicable safety rules and institution protocols.
7. If Side Rails or restraints are used (see related **Warnings, Risk and Precautions** and **Safety Information**), raise and lock Side Rails and properly position.
8. Press **INSTAFLATE ON / OFF** button to deactivate *Instaflate* and return cushions to previous air pressure settings.
9. Adjust bed for patient comfort.

## PATIENT TRANSFER FROM THE KINAIR IV BED

1. Level bed.
2. Press **INSTAFLATE ON / OFF** button located on Lower Side Rail Control Panel to create a firm surface for patient transfer.
3. Ensure caster brakes are locked.
4. Lower Side Rails (if used).
5. Adjust height of bed to same level as surface to which patient is being transferred.
6. Transfer patient, following all applicable safety rules and institution protocols.
7. Press **INSTAFLATE ON / OFF** button to deactivate *Instaflate* and return cushions to previous air pressure settings.

**NOTE:** Refer to the **Power-Down Procedure** section of the **Operating Instructions** chapter of this manual if patient will not be returning to the bed.

## PATIENT TRANSPORT

1. Place patient's I.V. therapy onto telescoping Infusion Holder. Additional I.V. Poles may be placed into sockets located on all four corners of litter surface.
2. Adjust bed height to lowest position.
3. Verify Side Rails are raised and locked.
4. Unlock brakes.
5. If appropriate, activate *Instaflate*.

**NOTE:** *Warmer, Scale and the Bed Exit Alarm will be deactivated during Transport Mode. Instaflate is only available if activated before the bed is unplugged.*

6. Unplug Power Cord from wall outlet. The display shown at right will appear on the Main Control Panel.

**NOTE:** *Wrap Power Cord around Power Cord Hangers.*

- Approximate time remaining for Reserve Power will count down in display. The bed will provide static air support for approximately 120 minutes (2 hours). Use of bed functions (Raise / Lower Head, Foot, Bed etc.), will decrease Reserve Power more rapidly than static air support.

**NOTE:** *Reserve Power is indicated by a four section scale. Each section represents 25% of battery power. When all four sections are shown, battery power is at 100%. When three sections are shown, battery power is at 75%, etc.*

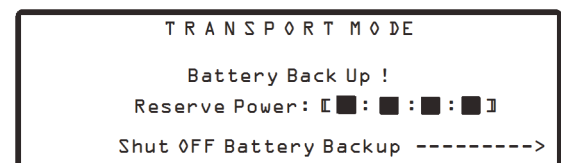
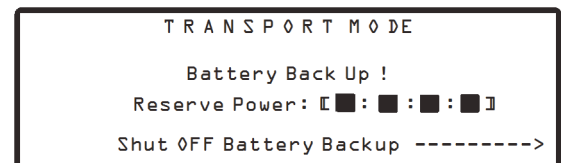
- A low beep (from the Inverter / Charger) will sound when the bed is unplugged, and will sound again every minute until Battery Back-Up is canceled.
- Warmer will be deactivated. *Instaflate* is the only air function, other than static air support, that will not be deactivated when the bed is unplugged.

7. Transport patient following all applicable safety rules and institution protocols.

**NOTE:** *The bed will automatically shut off to conserve battery power if bed is unplugged with air off and the display on for an hour. To restart the bed, plug the Power Cord into a wall outlet.*

**NOTE:** *Plug Power Cord into a 115 VAC wall outlet immediately if the display shown at right appears and flashes. Less than 10 minutes of Reserve Power is left. It will take approximately two hours to fully recharge the battery. A protection circuit helps protect the battery from over-charging.*

8. Plug Power Cord into a 115 VAC wall outlet to end TRANSPORT MODE when destination is reached.



## PATIENT BATHING

1. Adjust bed height and level bed for ease of bathing.
2. Ensure caster brakes are locked.
3. Turn Warmer on to enhance patient comfort during bathing.
4. Press *INSTAFLATE* ON / OFF button located on Lower Side Rail Control Panel to create a firm surface.

**NOTE:** *Five beeps will sound when Instaflate is activated, and will sound every 20 minutes, until Instaflate is canceled.*

5. Lower Side Rail (if used) on care giver's side.
6. Bathe patient following institution protocols. Wipe Cover Sheet while bathing patient.

**NOTE:** *Avoid spilling fluids on bed controls. If spills do occur, clean fluid from bed, wearing rubber gloves to avoid any possibility of shock. Once fluid is removed, check operation of components in area of spill.*

### WARNING

**Fluids remaining on the controls can cause corrosion, which may cause components to fail, possibly producing potential hazards to patient and staff.**

7. Dry Cover Sheet with towel. Remaining moisture will evaporate rapidly with air flow.
8. If Side Rails or restraints are used (see related **Warnings, Risk and Precautions** and **Safety Information**), raise and lock Side Rails and properly position.
9. Press *INSTAFLATE* ON / OFF button to deactivate *Instaflate*. Cushions will return to previous air pressure settings.
10. Adjust bed for patient comfort.

## BEDPAN PLACEMENT

1. Level bed.
2. Ensure caster brakes are locked.
3. Press SEAT DEFLATE ON / OFF button located on the Lower Side Rail Control Panel to reduce air pressures in Seat section cushions by 50%.

**NOTE:** *Five beeps will sound when Seat Deflate is activated, and will sound every 20 minutes, until Seat Deflate is canceled.*

4. Lower Side Rail (if used) on care giver's side.
5. Position bedpan parallel to patient's buttocks.
6. Roll patient toward opposite side.
7. Push bedpan down into cushions and position bedpan underneath patient.
8. Roll patient onto bedpan, keeping one hand on bedpan.



9. If Side Rails or restraints are used (see related **Warnings, Risk and Precautions** and **Safety Information**), raise and lock Side Rails and properly position.
10. Adjust bed for patient comfort.

## BEDPAN REMOVAL

1. Level bed.
2. Ensure caster brakes are locked.
3. Lower Side Rail (if used) on care giver's side.
4. Grasp bedpan firmly with one hand, and log roll patient to opposite side with other hand.
5. Cleanse patient's posterior.
6. Remove bedpan and finish cleaning patient.
7. Return patient to supine position in center of mattress.
8. If Side Rails or restraints are used (see related **Warnings, Risk and Precautions** and **Safety Information**), raise and lock Side Rails and properly position.
9. Press SEAT DEFLATE ON / OFF button to deactivate Seat Deflate and return cushions to previous air pressure settings.
10. Adjust bed for patient comfort.

## PATIENT REPOSITIONING USING DRI-FLO BREATHABLE UNDERPADS

1. Press *INSTAFLATE* ON / OFF button located on the Lower Side Rail Control Panel to create a firm surface.  
**NOTE:** *Five beeps will sound when Instaflate is activated, and will sound every 20 minutes, until Instaflate is canceled.*
2. Adjust bed height to lowest position.
3. Ensure caster brakes are locked.
4. Lower Side Rails (if used) and as necessary to facilitate patient positioning.
5. Take positions on each side of patient (two people will be needed). Roll edges of *Dri-Flo™ Breathable Underpad* on each side of patient, to get a firm grip.
6. Use *Dri-Flo Breathable Underpad* to slightly lift and properly position patient.
7. If Side Rails or restraints are used (see related **Warnings, Risk and Precautions** and **Safety Information**), raise and lock Side Rails and properly position them.
8. Press *INSTAFLATE* ON / OFF button to turn *Instaflate* off and return cushions to previous air pressure settings.
9. Adjust bed for patient comfort.

## INCONTINENCE / DRAINAGE

1. Place the *KinAir IV* Cover Sheet over patient support surface.
2. Use *Dri-Flo Breathable Underpads*, if necessary.

**NOTE:** *Dri-Flo Breathable Underpads* are recommended for incontinent patients. Do not use plastic-backed underpads. Plastic may block moisture vapor transmission and air flow from the mattress. *Dri-Flo Breathable Underpads* are absorbent and permit air flow.

3. Watch for incontinence or drainage and provide appropriate skin care following each episode.

## SKIN CARE

1. Remove excess moisture and keep skin dry and clean.
2. Maintain proper air pressures in accordance with the **Air Pressure Adjustment** section of the **Patient Placement** chapter of this manual.
3. Check patient skin routinely, particularly at bony prominences and in areas where incontinence and drainage occur or collect. Consider adjunct or alternative therapies for high acuity patients. **Early intervention may be essential to preventing serious skin breakdown.**

## GENERAL OPERATION

Avoid contact of sharp instruments with Cover Sheet and cushions. Punctures, cuts and tears may prevent proper inflation and therapy.



The following are the ArjoHuntleigh-recommended daily cleaning and infection control procedures for the *KinAir IV* bed while it is in use. If the product is to be purchased or utilized for long term rentals, it is recommended that ArjoHuntleigh be contacted for recommended Infection Control Procedures to be utilized by the facility.

It is recommended that all chapters of this manual be reviewed prior to product use. **Carefully read and follow the Contraindications, Warnings, Risk and Precautions and Safety Information Sections in the Introduction Chapter prior to performing care and cleaning procedures on the *KinAir IV* bed.**

## DAILY CARE AND CLEANING OF THE KINAIR IV BED WHILE IN USE

**NOTE:** *The patient need not be removed from the KinAir IV bed when performing daily cleaning procedures. The patient may be bathed as the patient support surface is being cleaned.*

1. Adjust bed height and level bed for ease of bathing.
2. Ensure caster brakes are locked.
3. Turn Warmer on to enhance patient comfort during bathing.
4. Press *INSTAFLATE* ON / OFF button located on Lower Side Rail Control Panel to create a firm surface.

**NOTE:** *Five beeps will sound when Instaflate is activated, and will sound every 20 minutes, until Instaflate is canceled.*

5. Lower Side Rail (if used) on care giver's side.
6. Bathe patient following institution protocols. Wipe Cover Sheet while bathing patient.

**NOTE:** *Avoid spilling fluids on bed controls. If spills do occur, clean fluid from bed, wearing rubber gloves to avoid possibility of electric shock. Once fluid is removed, check operation of components in area of spill.*

### WARNING

**Fluids remaining on the controls can cause corrosion, which may cause components to fail, possibly producing potential hazards to patient and staff.**

7. Dry Cover Sheet with towel. Remaining moisture will evaporate rapidly with air flow.
8. If Side Rails or restraints are used (see related **Warnings, Risk and Precautions** and **Safety Information**), raise and lock Side Rails and properly position.
9. Press *INSTAFLATE* ON/OFF button to deactivate *Instaflate*. Cushions will return to previous air pressure settings.
10. Adjust bed for patient comfort.

**NOTE:** *Refer to **Safety Information** on Skin Care.*

11. Remove dirt and residue from plastic and painted surfaces of unit using a soft cloth or sponge. Do not use abrasives or scouring pads on painted surfaces. Heavy, dried-on soil or excreta may require soaking with a soapy cloth prior to scrubbing with the cloth.

## WEEKLY CARE AND CLEANING OF THE KINAIR IV BED

In addition to daily care and cleaning, the *KinAir IV* Cover Sheet should be replaced weekly or more often, depending on soiling. Excessively soiled mattress components and Cover Sheets should be replaced and laundered, as described per institutional protocol.

## PREVENTIVE MAINTENANCE

**NOTE:** *It is recommended that all preventative and battery maintenance procedures be performed only by qualified ArjoHuntleigh service personnel or ArjoHuntleigh-approved personnel.*

- **Monthly Cleaning** - The cushions should be laundered at least monthly.
- **Air Filter** - Clean / change Air Filter(s) when necessary.
- **Battery Inspection** - Inspect batteries and replace in pairs. If batteries are more than 28 months old from the date of manufacture, dispose of batteries according to Local and State Regulations. Install a Battery History label on the *KinAir IV* battery cover with the recorded date when the batteries should next be replaced. Apply label in a visible location so that all information is displayed.

**NOTE:** *When not in service, bed must remain plugged in to maintain battery charge.*

This chapter contains instructions for setting and adjusting functions of the *KinAir IV* bed. It is recommended that all sections of this manual be reviewed before operating the bed. **Carefully read and follow the Contraindications, Warnings, Risk and Precautions and Safety Information Sections in the Introduction Chapter as well as Patient Placement Chapter of this manual prior to operating the *KinAir IV* bed.**

The outline below lists the major sections of the **Operating Instructions** Chapter:

- Power-Up Procedure
- Main Control Panel
- Scale Control Panel
- Bed Motion Control Panel
- Side Rail Nurse Control Panel and Nurse Displays
- Patient Control Panel
- CPR
- Power-Down Procedures

## POWER-UP PROCEDURE

1. Plug Power Cord into a 115 VAC wall outlet. The display shown at right will appear.

**NOTE:** *Be sure power to this outlet IS NOT controlled by a wall switch.*

Air Switched OFF!  
Press ON/OFF Button to Start

2. Press ON / OFF button on Main Control Panel, shown at right.

**NOTE:** *The Power light on the LED Display Panel below Bed Motion Control Panel will flash when the Nurse Call Back-up Battery needs to be replaced.*



- The display shown at right will appear temporarily and then change to Home Display.

Air Switched ON!  
Welcome to KCI Therapy

## MAIN CONTROL PANEL

The Main Control Panel is located at the foot of bed, on top of the Footboard. It is the primary point of interface for the care giver.

*Use the Main Control Panel to:*

- Activate / deactivate the air supply to cushions and bladders on the bed.
- View, set and adjust air functions and therapies: Warmer, *Instaflate*, Seat Deflate, Head Deflate and Air Pressures.
- View a bar graph and manually adjust air pressures in each section of cushions: Head, Body, Seat and Leg.
- View, set and adjust Scale readings: Zero, Preset, Delay, Hold and Weight Trend Chart.
- Set and adjust air function Lock-Outs: Warmer and air pressures.

## Home Display



*Use the Home Display to:*

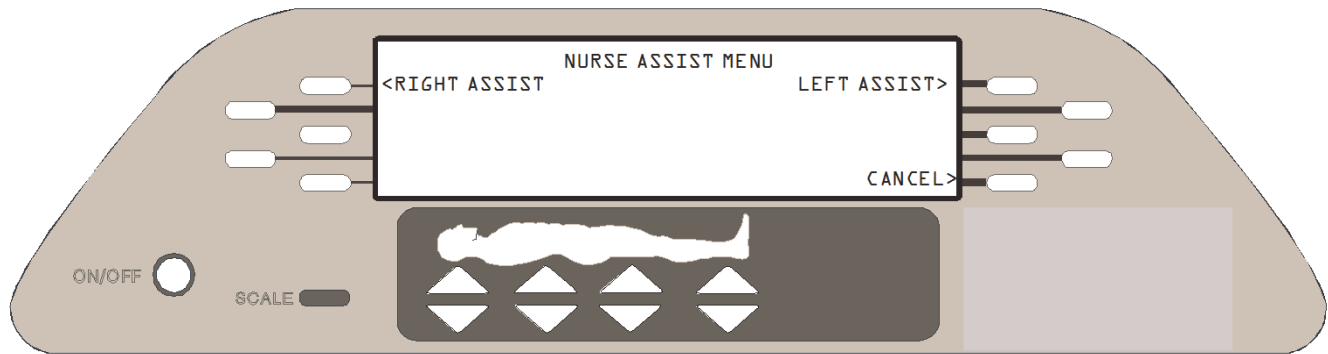
Activate / deactivate:

- *Instaflate*, Seat Deflate and Head Deflate.

Access:

- Nurse Assist Menu, Main Menu and Status Menu.
- Lock-Out Menus within the first 10 seconds after bed is plugged in.

## NURSE ASSIST



Use the Nurse Assist Menu to access Left and Right Assist functions that turn and hold the patient.

1. With Home Display showing, press button for NURSE ASSIST MENU.
2. The Nurse Assist Menu shown above will appear.

**NOTE:** If a change is not made within approximately one minute, display will automatically return to the Home Display.

### Left Assist

Use Left Assist to turn patient to a 20° (nominal) Left Angle and hold patient there.

1. With Nurse Assist Menu showing, press button for LEFT ASSIST. The Left Assist display shown at right will appear.
  - Warmer will continue, if activated.
2. Press button for CANCEL to deactivate Left Assist and return to Home Display.



### Right Assist

Use Right Assist to turn patient to a 20° (nominal) Right Angle and hold patient there.

1. With Nurse Assist Menu showing, press button for RIGHT ASSIST. The Right Assist display shown at right will appear.
  - Warmer will continue, if activated.
2. Press button for CANCEL to deactivate Right Assist and return to Home Display.

## ***INSTAFLATE***

*Use Instaflate to assist in patient transfer and bathing by increasing air pressures in all cushions, creating a firm surface.*

1. With Home Display showing, press button for **INSTAFLATE**.

- The display shown at right will appear and flash.
- Warmer will not be deactivated.
- Five beeps will sound when *Instaflate* is activated, and will sound again every 20 minutes, until *Instaflate* is canceled.

INSTAFLATE  
ACTIVATED  
  
Press to Cancel Instaflate -----CANCEL>

2. Press button to CANCEL. The display shown at right will appear temporarily and then return to the Home Display.

Instaflate Cancelled !

## **SEAT DEFLATE**

*Use Seat Deflate to assist patient exit and bedpan placement by reducing the air pressures in the cushions of the Seat section by 50%.*

1. With Home Display showing, press button for **SEAT DEFLATE**.

- The display shown at right will appear and flash.
- Warmer will not be deactivated.
- Five beeps will sound when Seat Deflate is activated and will sound again every 20 minutes, until Seat Deflate is canceled.

SEAT DEFLATE  
ACTIVATED  
  
Press to Cancel Seat Deflate-----CANCEL>

2. Press button to CANCEL. The display shown at right will appear temporarily and then return to the Home Display.

Seat Deflate Canceled !



## HEAD DEFLATE

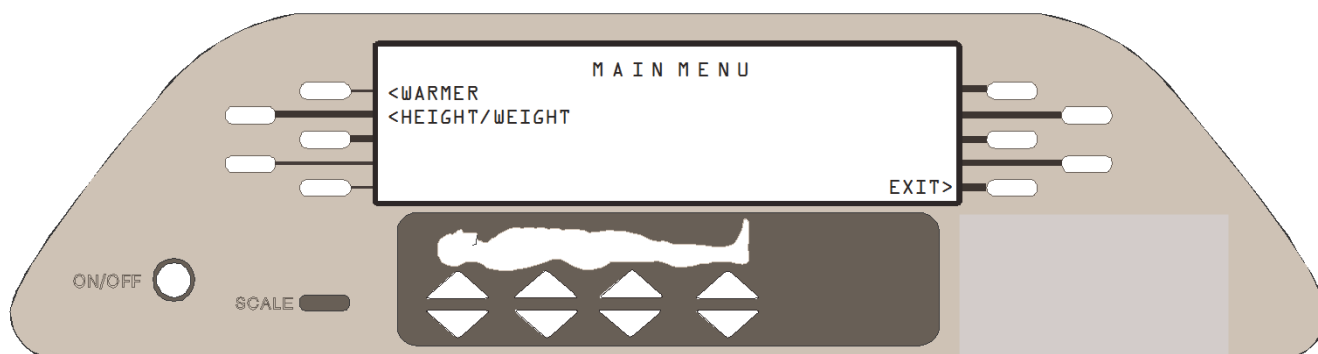
Use Head Deflate to gently lower patient's head and tilt chin upward, allowing for tube placement, etc. Air pressures in the cushions of the Head section will be decreased and air pressures in the Body, Seat and Leg sections will be increased.

1. With Home Display showing, press button for HEAD DEFLATE.
  - The display shown at right will appear and flash.
  - Warmer will not be deactivated.
2. Press button to CANCEL. The display shown at right will appear temporarily and then return to Home Display.

HEAD DEFLATE  
ACTIVATED  
Press to Cancel Head Deflate----CANCEL>

Head Deflate Canceled !

## Main Menu



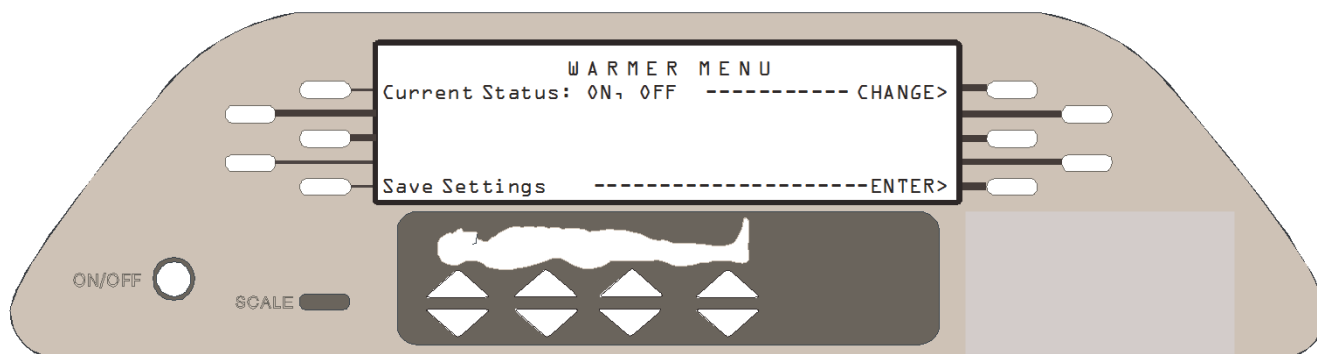
Use the Main Menu to access Warmer Menus, to adjust Warmer settings and to access Height / Weight Preset.

1. With Home Display showing, press button for MENU. The Main Menu shown above will appear.

**NOTE:** If a change is not made within approximately 30 seconds, the display will automatically return to the Home Display.

2. Press EXIT button to return to Home Display.

## WARMER MENU



Use the Warmer Menu to view and adjust Current Status and Warmer settings. The setting provides warmth for comfort.

1. With Main Menu showing, press button for WARMER. The Warmer Menu shown above will appear.

**NOTE:** The Current Status and settings for Warmer are highlighted.

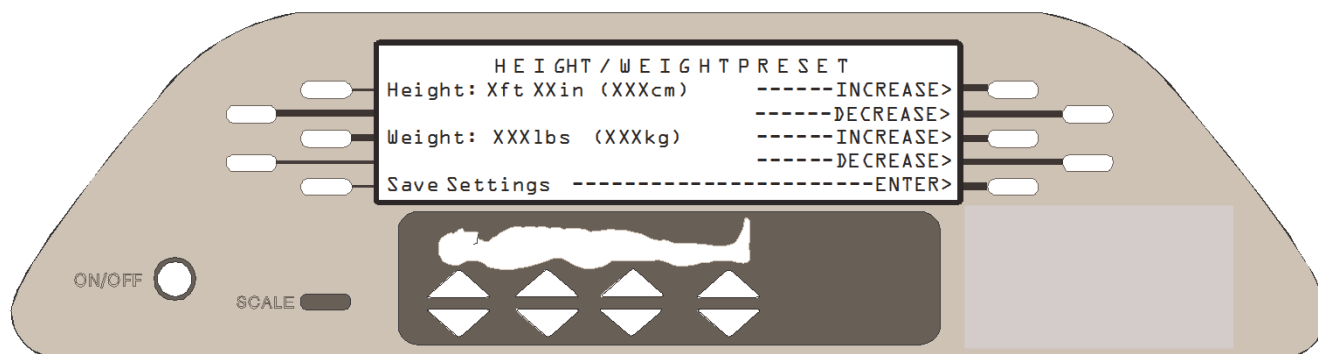
**NOTE:** If a change is not made within 30 seconds, the display will automatically return to the Home Display. All settings shown at the time will be automatically saved and become the current settings.

2. Press button for CHANGE to highlight either ON or OFF.

**NOTE:** Current Status indicates if the Warmer is activated or deactivated.

3. Press ENTER to save Warmer Menu setting and then return to the Main Menu.

## HEIGHT / WEIGHT PRESET



Use the Height / Weight Preset to automatically set air pressures in each section of cushions to target pressures based on patient's height and weight.

**NOTE:** Height / Weight Presets are a starting point for cushion air pressure and may not adjust cushions optimally for patient needs. Refer to **Air Pressure Adjustment** section in the **Patient Placement** chapter of this manual for proper settings.

Height values can be adjusted from 4 ft 0 in (121 cm) to 6 ft 11 in (210 cm) in one inch increments.

Weight values can be adjusted from 50 lb (22 kg) to 300 lb (136 kg) in 5 pound increments.

1. With Main Menu showing, press button for HEIGHT / WEIGHT. The Height / Weight Preset shown above will appear.

**NOTE:** If a change is not made within approximately one minute, the display will automatically return to the Home Display. All settings shown at the time will be automatically saved and become the current settings.

2. To adjust Height values:

- Press button for Height:-----INCREASE to increase height value.
- Press button for Height:-----DECREASE to decrease height value.

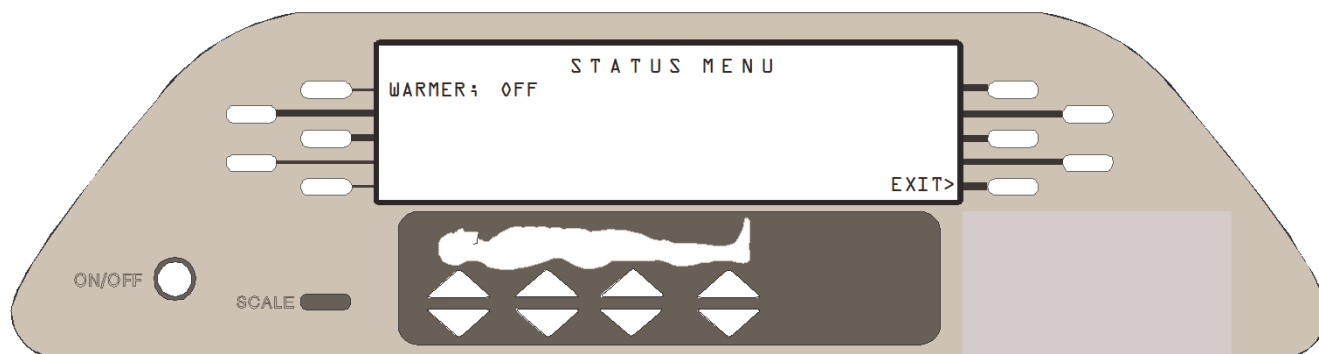
3. To adjust Weight values:

- Press button for Weight:-----INCREASE to increase weight value.
- Press button for Weight:-----DECREASE to decrease weight value.

4. Press ENTER to save adjusted Height and Weight values and return to the Main Menu.

**NOTE:** Target air pressures based on the Height / Weight Preset will be overridden if the target air pressures are manually adjusted by using the triangular buttons on Main Control Panel. To override the manually adjusted target air pressures with the target pressures based on Height / Weight Preset, one of the Height / Weight Preset values must be adjusted, then adjusted back and then saved.

## STATUS MENU



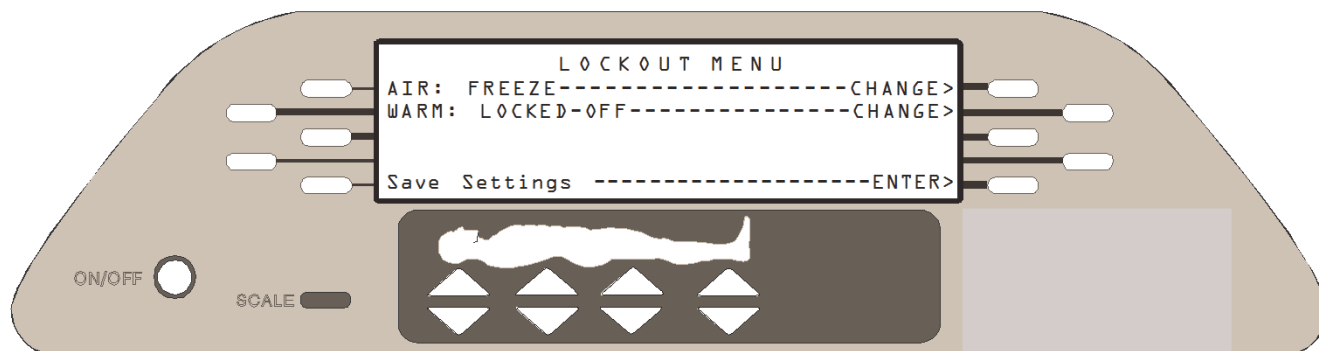
Use the Status Menu to view Warmer Current Status:

1. With Home Display showing, press button for STATUS. The Status Menu shown above will appear.

**NOTE:** The Status Menu is for viewing only. If the button for EXIT is not pressed within approximately one minute, the display will automatically return to the Home Display.

**NOTE:** Press button for EXIT to return to the Home Display.

## LOCK-OUT MENUS



Use Lock-Out Menus to selectively disable air functions to prevent their activation (Locked-Off), to selectively allow air functions to be adjusted (Unlock) and to selectively freeze air function settings to prevent their adjustment (Freeze). Refer to the **Air Function Lock-Out Chart** at the end of this section for additional information.

1. Press ON / OFF button on Main Control Panel to deactivate bed air supply.
2. Unplug bed from wall outlet.

**NOTE:** The Lock-Out Menus can be accessed from the Home Display during the first 10 seconds after the bed is plugged in. The button for LOCK must be pressed within 10 seconds or it will be replaced with the Instaflate function.
3. Plug bed back into wall outlet.
4. Press ON / OFF button. The Air Switched ON! display will appear temporarily and then change to a temporarily modified Home Display.
5. Press button for LOCK. The Lock-Out Menu shown above will appear.
6. Press button for CHANGE to adjust the Lock-Out settings for Air Adjust and Warmer, as needed.
7. Press button for ENTER to save Lock-Out settings and return to the Home Display.

**NOTE:** Warmer will be deactivated when the Lock-Out Menus are accessed. Reactivate Warmer from the Warmer Menu.

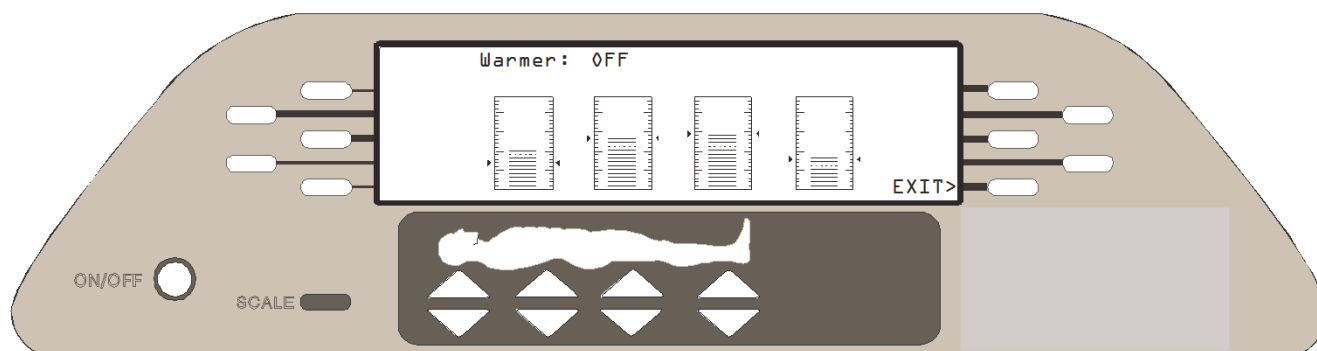
**NOTE:** After Lock-Outs are set, a beep will sound if a button is pressed to activate an air function that has been Locked-Off or Frozen. The Requested Action Not Available display will appear temporarily.

## AIR FUNCTION LOCK-OUT CHART

The following chart defines each air function Lock-Out and which air functions are affected:

AIR FUNCTION LOCK-OUT CHART			
AIR FUNCTION	LOCKED-OFF	UNLOCK	FREEZE
<b>AIR ADJUST</b> (Power-Up Default: ON)	Air flow into cushions cannot be Locked-Off.	Allows normal adjustment of air pressures using the triangular buttons on Main Control Panel.	The triangular buttons on Main Control Panel cannot manually adjust the current air pressure settings.
<b>WARMER</b> (Power-Up Default: OFF)	Warmer is disabled. A beep will sound if button is pressed.	Allows normal operation and activation / deactivation of Warmer.	Can activate / deactivate Warmer.

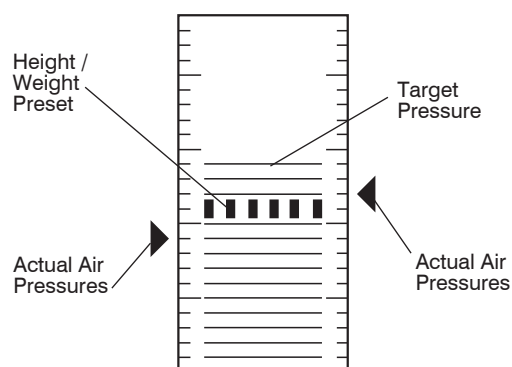
## BAR GRAPH DISPLAY



Use Bar Graph Display to view and manually adjust pressures for each of the four sections of cushions: Head, Body, Seat and Leg. The Bar Graph Display is accessed by pressing any of the triangular buttons on the Main Control Panel.

The following information is represented on each bar graph:

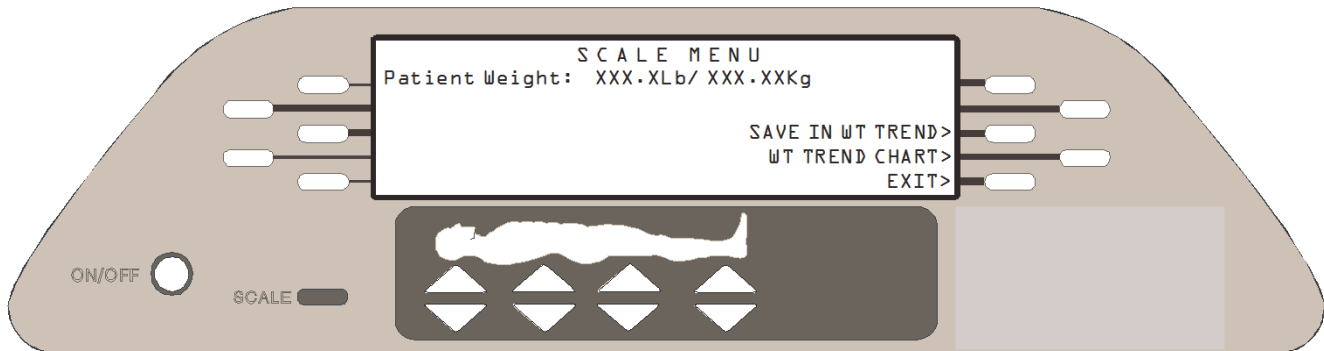
- Dotted bar indicates Height / Weight Preset target pressure for that section of cushions.
- Solid bars indicate the target pressure in that set of cushions. Solid bars are manually adjusted by pressing the triangular buttons.
- Manually adjusted pressure (solid bars) will override the Height / Weight Preset pressure (dotted bar).
- The arrows on each side of a Bar Graph indicate actual air pressures in that section of cushions.



1. Press triangular up button to manually increase air pressures to that section of cushions.
2. Press triangular down button to manually decrease air pressures to that section of cushions.
3. Press button for EXIT to save manually adjusted settings and return to the Home Display.

**NOTE:** *Manual adjustments override Height / Weight Preset target air pressures, even if Height / Weight Preset is accessed again and the old Height / Weight Preset values are saved. To override manually adjusted target air pressures with Height / Weight Preset, one of the Height / Weight Preset values must be adjusted, then adjusted back and then saved.*

## SCALE MENU



Use the Scale Menu to:

- View current patient weight.
  - Store and view date, time and weight value of the initial weight reading and the four most recent weight readings in a Weight Trend Chart.
1. Press SCALE button on Main Control Panel, shown at right. The Scale Menu shown above will appear.

SCALE 

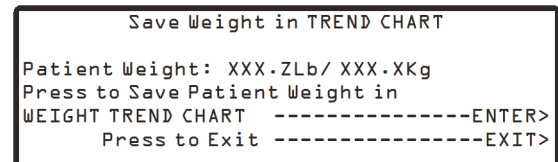
**NOTE:** *Scale Menu can be viewed during Instaflate, Seat Deflate, Head Deflate and Boost.*

**NOTE:** See **Safety Information** on Scale Readings.

## Save In Weight Trend

Use Save In Weight Trend to enter the displayed weight value and date of reading into Weight Trend Chart.

1. With Scale Menu showing, press button for SAVE IN WT TR. The display shown at right will appear.



2. Press button for Press To Save Patient Weight in WEIGHT TREND CHART and return to Scale Menu **or**
3. Press button for Press To Exit to return to Scale Menu without entering displayed weight into Weight Trend Chart.

## Weight Trend Chart

Use Weight Trend Chart to view initial weight value and date of reading as well as date, time and weight value of the four most recent weight readings.

1. With Scale Menu showing, press button for WT TR CHART. The display shown at right will appear.

```
WT. TREND (XX/XX IE WT XXXX.XLb/XXXX.XKg)
XX/XX/XX XX:XX PM---XXX.XLb/ XXX.XKg
XX/XX/XX XX:XX PM---XXX.XLb/ XXX.XKg
XX/XX/XX XX:XX PM---XXX.XLb/ XXX.XKg
XX/XX/XX XX:XX PM---XXX.XLb/ XXX.XKg
EXIT>
```

- The top line of Weight Trend Chart will display the date and initial weight entered during patient placement. This line is for reference and will not change.
  - The most recent weight reading will appear on the bottom line of display. This information will move up one line each time a new weight reading is saved into the Weight Trend Chart and will eventually move up and off display.
2. Press button for EXIT to exit Weight Trend Chart and return to Home Display.

## TRANSPORT MODE

*Transport Mode will automatically activate if power fails or bed is unplugged from wall outlet while still in operation.*

1. Unplug Power Cord from wall outlet. The display shown at right will appear.

- Approximate time remaining for Reserve Power will count down in display. The bed will provide static air support for approximately 120 minutes (2 hours). Use of bed functions (Raise / Lower Head, Foot, Bed etc.) will decrease Reserve Power more rapidly than static air support.

**NOTE:** *Reserve Power is indicated by a four section scale. Each section represents 25% of battery power. When all four sections are shown, battery power is at 100%. When three sections are shown, battery power is at 75%, etc.*

- Warmer will be deactivated. *Instaflate* is the only air function, other than static air support, that will not be deactivated when bed is unplugged.

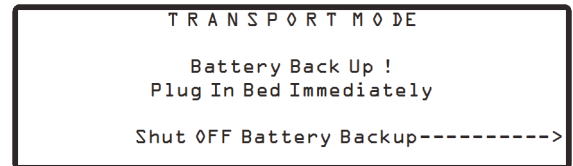
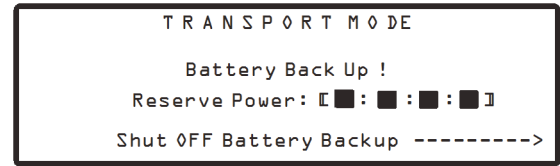
**NOTE:** *Bed will automatically shut off to conserve battery power if unplugged with air off and the display on for one hour. To restart the bed, plug the Power Cord into wall outlet.*

**NOTE:** *Plug Power Cord into 115 VAC wall outlet immediately if display shown at right appears and flashes.*

***Less than 10 minutes of Reserve Power is left. It will take approximately two hours to fully recharge battery. A protection circuit helps protect the battery from over-charging.***

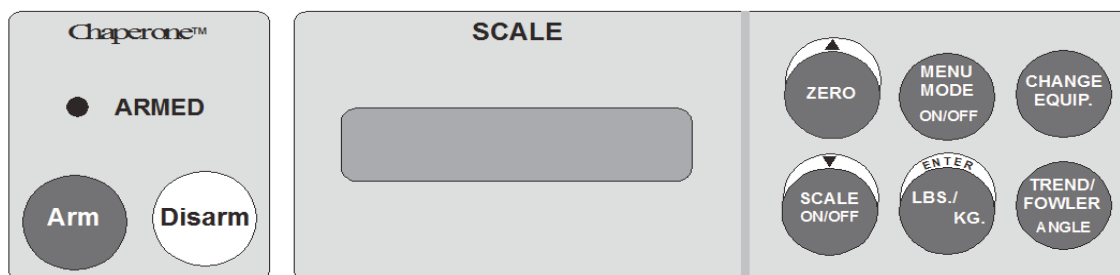
2. Plug Power Cord into 115 VAC wall outlet to end Transport Mode, when destination is reached.

**NOTE:** *If Warmer was on before bed was unplugged, it will be deactivated. Reactivate Warmer from the Warmer Menu.*





## BED EXIT / SCALE CONTROL PANEL



The Bed Exit / Scale Control Panel is located on the Foot board below the Main Control Panel.

### IMPORTANT

This manual will outline usage and function of all available buttons. The bed frame provided may or may not have all buttons shown. On some bed frame models the Trend / Fowler Angle Button is not available but Trend / Fowler angles are shown on Scale Display.

Use the Bed Exit / Scale Control Panel to:

- Activate / deactivate Bed Exit Alarm.
- View current patient weight.
- Recalibrate Scale to zero.
- Set scale to a known patient weight.
- Hold a current weight value in memory while equipment is added or removed.
- Change displayed weight value from pounds to kilograms.

## Bed Exit Alarm

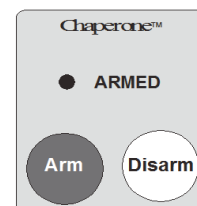
Use Arm and Disarm buttons to activate or deactivate the Bed Exit Alarm. An audible alarm will sound if a 10% or more decrease in patient weight is detected. See **Safety Information** on Bed Exit Alarm.

**NOTE:** Patient weight values must be more than 22 lb (10 kg) to set Bed Exit Alarm.

**NOTE:** Bed Exit Alarm is temporarily deactivated by Scale function. It is also deactivated by CPR and Transport.

**NOTE:** Bed Exit Alarm helps monitor patient exit from bed by detecting dramatic decreases in patient weight.

1. **Press and hold** Arm and Disarm buttons shown at right together for five seconds.
2. Release buttons. ARMED light will flash. **Do not touch bed until ARMED light stops flashing.**
3. Place patient on bed.
4. Press Arm button to activate Bed Exit Alarm function.
5. Press Disarm button to deactivate Bed Exit Alarm function.



**NOTE: Be sure to reactivate alarm each time patient returns to bed.**

**WARNING**

**Monitor patient frequently to guard against patient entrapment.**

## Scale On

Use SCALE ON / OFF button to activate the Scale and display current patient weight in the Scale Display.

1. Press SCALE ON / OFF button shown at right to activate Scale.

**NOTE:** The Bed Exit Alarm is temporarily deactivated by the Scale.

2. Current patient weight will be displayed in the Scale Display. After approximately one minute, Scale Display will return to Trend Angle Display.



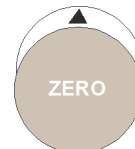
## Zero

Use ZERO button to recalibrate Scale to 0 lb (0 kg) prior to patient placement, with linens and all equipment, etc. already on weighed portion of the bed.

**NOTE:** The I.V. Pole at the head of the bed and the Foley Bag Holders are not on the weighed portion of the bed. The I.V. Pole Supports at each corner of the patient support surface **are** on the weighed portion of the bed.

**NOTE:** **Do Not** use ZERO button while a patient is in bed. An inaccurate weight reading will result.

1. With the patient weight showing in the Scale Display, **press and hold** ZERO button shown at right.



The display shown at right will appear temporarily.

HOLD TO ZERO WT.

The display shown at right will appear temporarily.

RELEASE TO ZERO.

2. Release ZERO button. The display shown at right will appear temporarily.

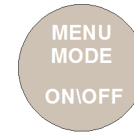
**NOTE:** Do not touch bed until the 0.0 LB display appears. The BED EXIT ARMED light will flash temporarily.

DO NOT TOUCH BED

## Change Patient Weight Reading

**NOTE:** *The I.V. Pole at the head of the bed and the Foley Bag Holders are not on weighed portion of bed. The I.V. Pole Supports at each corner of the patient support surface **are** on weighed portion of bed.*

1. With patient weight showing in the Scale Display, **press and hold** MENU MODE ON / OFF button shown at right.



The display shown at right will appear.



2. Press SCALE ON / OFF button to select patient weight change option. The displays shown at right will alternately appear.



3. Press ENTER LB / KG button shown at right.



The displays shown at right will alternately appear.



4. Adjust, as needed:
  - **Press and hold** ZERO button to increase patient weight.
  - **Press and hold** SCALE ON / OFF to decrease patient weight.
5. Press ENTER LB / KG button to save new patient weight.

## Convert Patient Weight lb / kg (Unit of Measure)

Use LB / KG button to convert Patients Weight readouts (Unit of Measure) to either pounds or kilograms.

1. Press and hold the LB / KG button.



**NOTE:** The unit of measurement will change and the new system will be displayed while holding down the button.

WEIGHT NOW KGS

2. Repeat the procedure to return to original weight system.

WEIGHT NOW LBS

**NOTE:** If unit of measurement has been locked, the display shown at right will appear. A service technician's help is required to unlock the unit of measurement.

UNITS ARE LOCKED

## Displaying the Weight Log

Use SCALE ON / OFF button to view list of the previous 10 weight readings.

1. Press SCALE ON / OFF button to activate system.

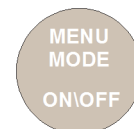
The display shown at right will appear temporarily.



LET GO FOR SCALE

2. Press MENU MODE ON / OFF button to enter Menu Mode.

The display shown at right will appear.



▲ ▼ FOR OPTIONS

3. Press SCALE ON / OFF or ZERO button to scroll through the menu options.

The display shown at right will appear.

SHOW WEIGHT LOG  
PUSH ENTER

4. Press LB / KG button.

The display shown at right will appear.

▲ ▼ WEIGHT LOG

**NOTE:** The weight is logged each time the SCALE ON / OFF button is pressed and the bed is in the scale mode for at least 15 seconds. Readings are displayed with (1) being the most recent. If the patients weight change is less than 2 lb, the log will not be updated. Zeroing the scale system clears the weight log.

## Patient Weight in Gain / Loss Mode

To view patient's weight and begin totaling the amount patient has gained or lost, press SCALE ON / OFF button to activate system.

1. Press SCALE ON / OFF button to activate system.

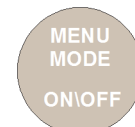
The display shown at right will appear temporarily.



LET GO FOR SCALE

2. Press MENU MODE ON / OFF button to enter Menu Mode.

The display shown at right will appear.



▲ ▼ FOR OPTIONS

3. Press SCALE ON / OFF or ZERO button to scroll through the menu options.

The display shown at right will appear.

START GAIN/LOSS  
PUSH ENTER

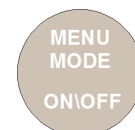
4. Press LB / KG button.

The display shown at right will appear.

DO NOT TOUCH BED  
XXX.X LB XXX.X KG

5. To exit Gain / Loss mode Press MENU MODE ON / OFF button to enter Menu Mode.

The display shown at right will appear.



▲ ▼ FOR OPTIONS

6. Press SCALE ON / OFF or ZERO button to scroll through the menu options.

The display shown at right will appear.

QUIT GAIN/LOSS  
PUSH ENTER

7. Press the LB / KG button.

The display shown at right will appear.

XXX.X LB

## View Trendelenburg and Fowler Angle

Use **TREND / FOWLER** button\*\* to view Trendelenburg / Reverse Trendelenburg and Fowler angle.

1. With patient weight showing in the Scale Display, press **SCALE ON / OFF** button shown at right.

The display shown at right will appear temporarily.

The Trend Angle Display shown at right will appear.

2. Press **TREND / FOWLER** button\*\* to view Fowler Angle, the display shown at right will appear. Use **TREND / FOWLER** button to toggle between Trend and Fowler Display.
3. Press **SCALE ON / OFF** button to exit Trend / Fowler Display.

**NOTE:\*\****On some bed frame models the Trend / Fowler Angle Button is not available, but Trend / Fowler angles are shown on Scale Display.*



EXIT SCALE

TREND ANGLE X°

FOWLER ANGLE X°

## Change Equipment

Use **CHANGE EQUIP** button to hold current weight value in memory while other weight (traction, etc.) is added or removed. Added / removed weight will not be reflected in weight reading.

1. With patient weight showing in the Scale Display, **press and hold** **CHANGE EQUIP** button shown at right.

The display shown at right will appear temporarily.

The display shown at right will appear.

2. Release **CHANGE EQUIP** button. The display shown at right will appear temporarily.
3. Add or remove equipment. The display shown at right will appear during addition or removal of equipment.
4. Press **CHANGE EQUIP** button. The display shown at right will appear temporarily. Do not touch bed until patient weight returns in Scale Display.



HOLD TO START

RELEASE TO START

DO NOT TOUCH BED

ADD/REMOVE EQUIP

RELEASE TO FIN.

DO NOT TOUCH BED

## BED MOTION CONTROL PANEL

Use the Bed Motion Control Panel to adjust the height and angle of bed surface and frame and lock-out frame functions. The Bed Motion Control Panel is located on the Footboard below the Main Control Panel.

### SIDE RAIL CONTROL LIGHTS

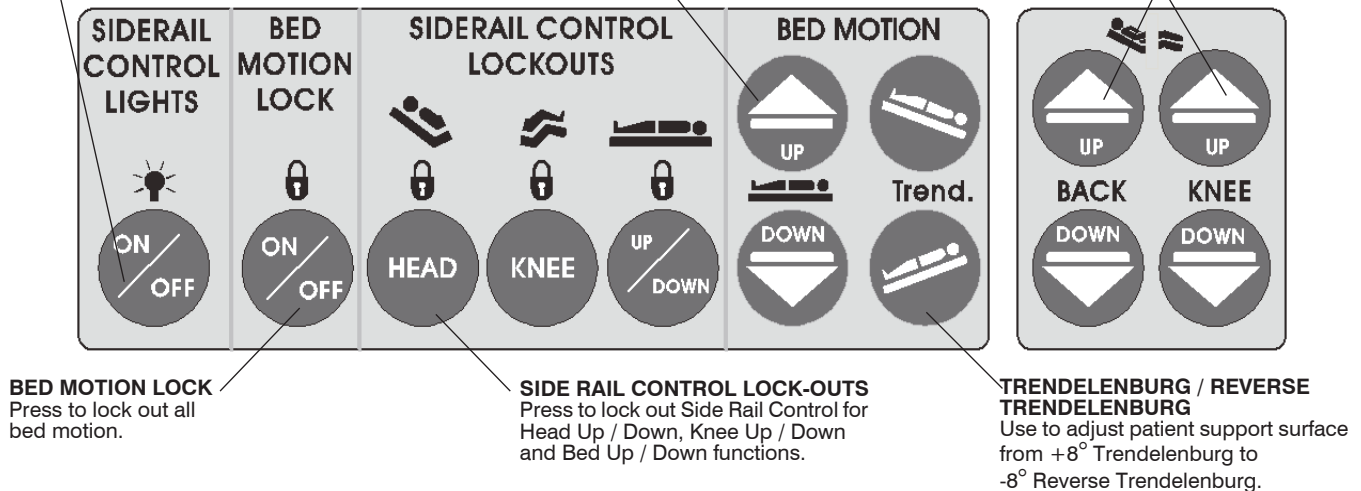
Press sequentially to turn Patient Control Panel back light to On, Low, Medium, High or Off.

### BED UP / DOWN

Use to adjust height of hard-pan.

### BED POSITIONING BUTTONS

Use to adjust Head Up / Down and Knee Gatch Up / Down.



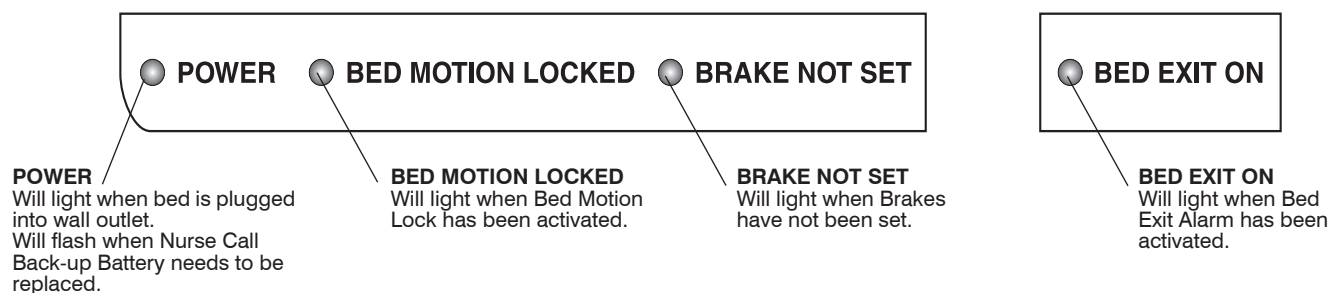
**NOTE:** Safety Switches under the side edges of head and leg surfaces will automatically stop lowering the head or knee gatch of bed if an obstruction is encountered in these areas.

**NOTE:** Height of bed will automatically adjust as needed to accommodate Trendelenburg and Reverse Trendelenburg.

**NOTE:** Power Light on LED Display Panel below Bed Motion Control Panel will flash when Nurse Call Back-Up Battery needs to be replaced.

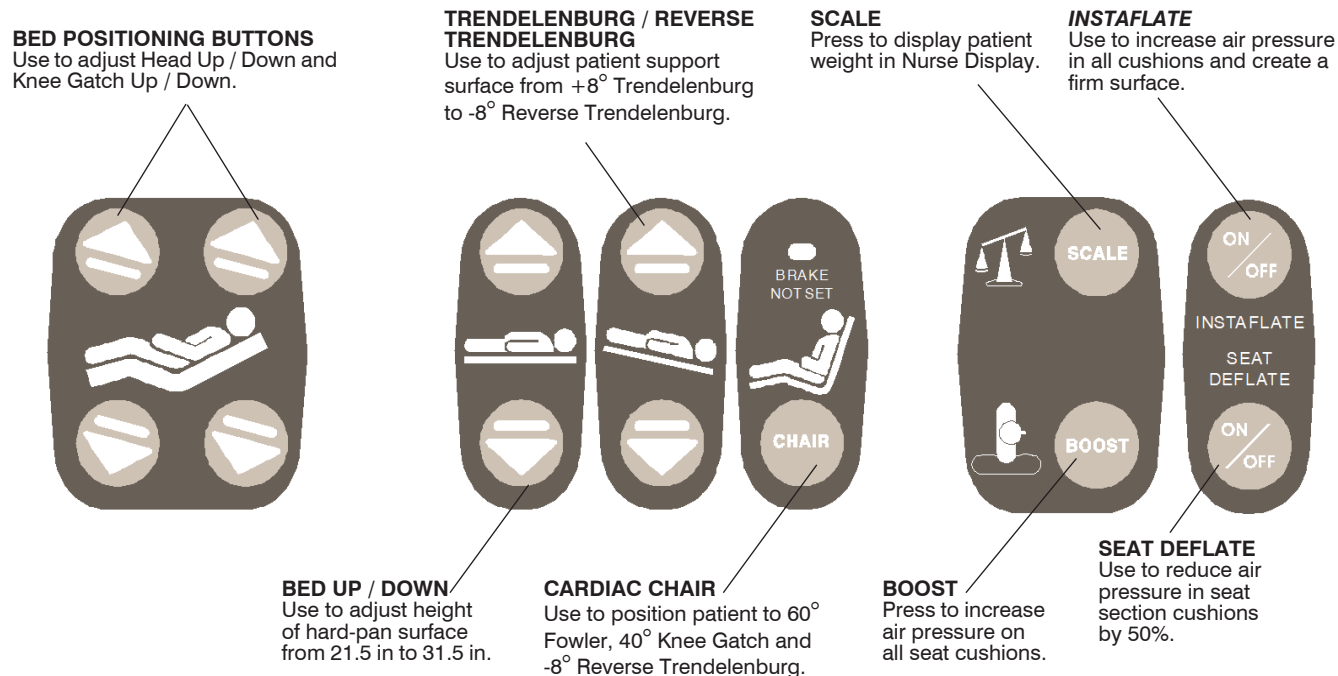
## LED DISPLAY PANEL

Use the LED Display Panel to view bed status. The LED Display Panel is located below Bed Motion Control Panel.



## SIDE RAIL NURSE CONTROL PANEL AND NURSE DISPLAYS

Use the Side Rail Nurse Control Panel for convenient activation and operation of several major bed and air functions from the bedside. The Side Rail Nurse Control Panel is located on the outside face of the Side Rails. The Nurse Display is located on the back side of the Main Control Panel.



**NOTE:** Five beeps will sound when Instaflate or Seat Deflate are activated and will sound again every 20 minutes until function is canceled.

**NOTE:** Safety Switches under the side edges of head and leg surfaces are designed to automatically stop lowering the head or knee gatch of bed if an obstruction is encountered in this areas.

**NOTE:** Height of bed will be automatically adjusted as needed to accommodate Trendelenburg and Reverse Trendelenburg.

**NOTE:** Bed must be connected to the facility's main system in order for Nurse Call function to operate.

**NOTE:** Power Light on LED Display Panel below Bed Motion Control Panel will flash when Nurse Call Back-Up Battery needs to be replaced.



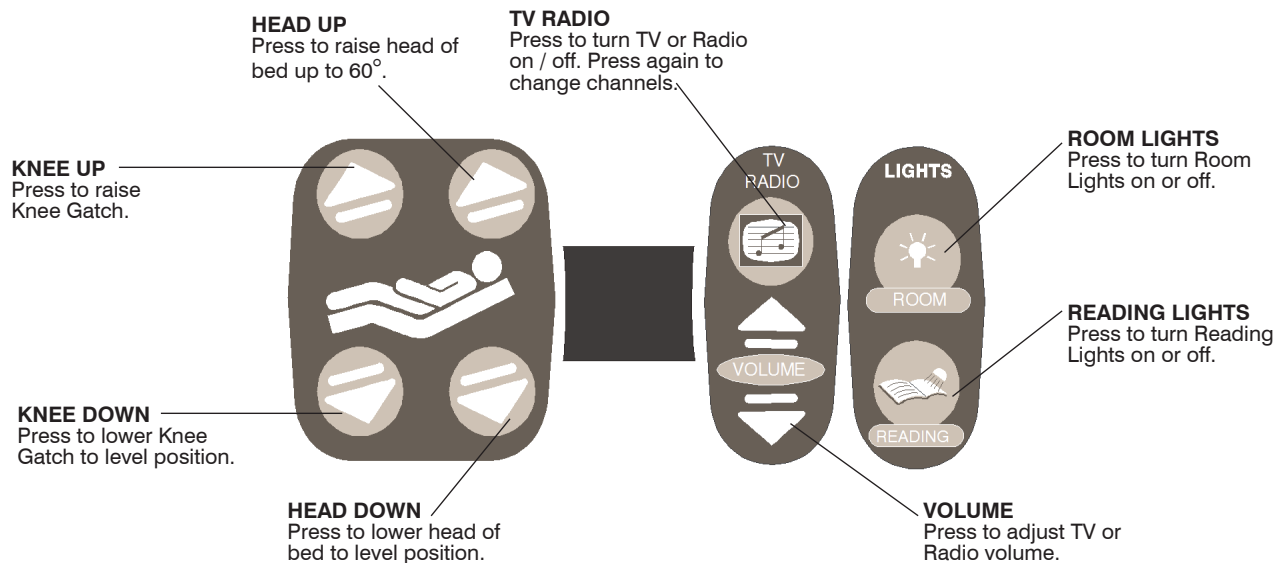
## Nurse Display Messages

*When standing at the side of bed, the care giver views status messages in the Nurse Display (located on the back of the Footboard). These messages are a result of actions taken not only at the Side Rail Nurse Control Panel, but at other points of interface on bed as well. Messages not yet discussed in this chapter, and their causes, are listed below:*

<ul style="list-style-type: none"><li>ON / OFF button on Main Control Panel has been pressed to off.</li></ul>	Air Switched OFF !
<ul style="list-style-type: none"><li>Button for HEAD DEFLATE on Home Display of Main Control Panel has been pressed.</li></ul>	Head Deflate On !
<ul style="list-style-type: none"><li>Power Cord has been unplugged without pressing ON / OFF button first. Bed is running on temporary Reserve Power. Only static air support will be provided.</li></ul>	Transport Mode
<ul style="list-style-type: none"><li>CPR Handle has been squeezed, cushions and bladders will deflate and the bed will level and lower.</li></ul>	CPR Activated !
<ul style="list-style-type: none"><li>INSTAFLATE ON / OFF button on Nurse Control Panel has been pressed.</li></ul>	Instaflate On !
<ul style="list-style-type: none"><li>SEAT DEFLATE ON / OFF button on Nurse Control Panel has been pressed.</li></ul>	Seat Deflate On !
<ul style="list-style-type: none"><li>SCALE button on Nurse Control Panel has been pressed. Patient weight will be displayed on Nurse Display.</li></ul>	Wt: XXX>XX Lb / XX.XX Kg
<ul style="list-style-type: none"><li>The BOOST button on Nurse Control Panel has been pressed.</li></ul>	Cushion Boost On !

## PATIENT CONTROL PANEL

The patient can use Patient Control Panel to adjust the position of the head and foot of the bed. The Patient Control Panel is located on the inside face of the head-end Side Rail and can be locked out from the Bed Motion Control Panel.

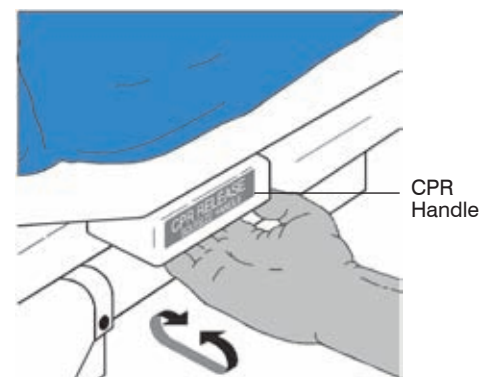


**NOTE:** Bed must be connected to the facility's main system in order for TV Radio, Volume and Room lights functions to operate. Some items depicted above are optional and may not be available on all bed models.

## CPR

Use CPR Quick Release Lever to deflate cushions and bladders and automatically lower and level bed to facilitate CPR procedures.

1. Squeeze red CPR handle located on underside of head-end of bed, as shown at right.



### WARNING

**Head of bed (if elevated) will drop abruptly when CPR handle is squeezed.**

- Air is switched off; cushions will deflate.
- The message shown at right will appear and flash in the Nurse Display.
- The display shown at right will appear and flash on the Main Control Panel.

CPR Activated !

CPR Activated !  
Air Switched OFF!

- Lower Side Rails (if used).
- Ensure caster brakes are locked.
- Remove Headboard, as needed.
- Begin CPR. Crash board is not needed. Patient's weight and CPR process will deflate cushions.
- After CPR is performed and patient is clinically stable:
  - Press CANCEL CPR button on Main Control Panel to inflate cushions and resume bed functions.
  - Re-install headboard, as needed.
  - Raise and lock Side Rails, if used (refer to related **Warnings, Risk and Precautions** and **Safety Information**).
  - Adjust bed for patient comfort.

## POWER-DOWN PROCEDURES

### Power-Down for Storage

- Adjust bed height to lowest position.

**NOTE:** *Store bed positioned at lowest height so hydraulic piston will be lubricated during storage and will be less likely to dry out. If lubrication is maintained, bed functions will operate more quietly.*

- Press ON / OFF button located on Footboard Display Membrane Switch to OFF.
- If bed must be moved away from electric outlet, unplug Power Cord from wall outlet. The display shown at right will appear.

**NOTE:** *Wrap Power Cord around Power Cord Hangers.*

- Press button for CANCEL to deactivate Battery Back-Up Power to allow for bed storage.
- Move bed to storage and plug into wall outlet to maintain battery charge. See **Safety Information** on Batteries.

TRANSPORT MODE  
Battery Back Up !  
Reserve Power: █ : █ : █ : █ █  
Shut OFF Battery Backup ----->

## Power-Down for Maintenance

1. Press ON / OFF button located on Footboard Display Membrane Switch to OFF.
2. Unplug Power Cord from wall outlet. Transport Mode display will appear on Main Control Panel.
3. Press button for CANCEL to deactivate Battery Back-Up Power and allow for bed maintenance.
4. Deactivate Inverter / Charger:
  - Remove four Phillips-head Screws that secure Tray Top Cover to Metal Tray.
  - Kneel on patient left side of bed and lift cover slightly. Reach in under cover to find Inverter / Charger Switch.

**NOTE:** *The Inverter / Charger Switch is a toggle type button located in the middle of the right side of Inverter / Charger. The head-end of switch is the OFF position.*

5. Reactivate Inverter / Charger and plug Power Cord into wall outlet to restore power after maintenance.

# SPECIFICATIONS

# 6

\*Specifications subject to change without notice.

**Maximum Recommended Patient Weight** ..... 300 lb (136 kg)

## Patient Support

Overall Dimensions (L x W) ..... 93 in x 43 in (236 cm x 109 cm)

## Bed Width

Overall: With Side Rails Up. .... 43 in (109 cm)

Overall: With Side Rails Stowed. .... 36.5 in (93 cm)

## Bed Length

Overall: ..... 93 in (236 cm)

Overall Retracted ..... 79 in (200 cm)

Patient Surface ..... 84 in (213 cm)

## Bed Height

Lowered ..... 21.5 in (55 cm)

Raised ..... 31.5 in (80 cm)

## Side Rails

Height (Above Litter Surface)

Head ..... 15.5 in (39 cm)

Foot ..... 13.5 in (34 cm)

Length

Head ..... 33.5 in (85 cm)

Foot ..... 25.5 in (65 cm)

## Bed Weight

Total Weight ..... Approximately 700 lb (317.5 kg)

## Bed Function Articulation

Fowler ..... 0 - 60°

Knee Gatch ..... 0 - 40°

Trendelenburg / Reverse Trendelenburg ..... +8° / -8°

Cardiac Chair:

Fowler ..... 60°

Knee Articulation ..... 40°

Reverse Trendelenburg ..... -8°

## Electrical

Voltage ..... 115 VAC

Frequency ..... 60 Hz

Ampere Rating ..... 12 Amps

Maximum Electrical Leakage ..... Less than 100 Micro Amps

## International Electrical

Voltage ..... 230 VAC

Frequency ..... 50 Hz

Ampere Rating ..... 7 Amps

Maximum Electrical Leakage ..... Less than 200 Micro Amps

## Scale Accuracy

With 0° Trendelenburg ..... + / - 2% of total patient weight

**Scales / patient weights are for reference only. Scale readings should not be relied upon for medication dosage.**

## SYMBOLS USED



Waste in Electrical and Electronic Equipment



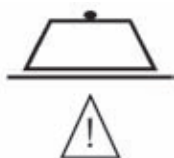
Type B Equipment



Alternating Current



Refer to accompanying documents



Maximum Patient Weight



Equal Potential



Grounded Equipment



Power On / Off



Dangerous Voltage



Equipment not suitable for use in the presence of a Flammable Anesthetic Mixture with Air, Oxygen or Nitrous Oxide



When using half bed type oxygen administering equipment, ensure that side rails are not contained in oxygen-enriched environment.



Danger, Crush Point



Brake



Not A Step

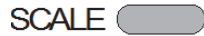


Not A Shelf - Do Not Place Equipment Here



#### BOOST (on Side Rail Nurse Control Panel)

Display used to increase air pressures in all seat cushions to help maintain 1.50 in minimum clearance below side-lying patient.



#### Scale (on Main Control Panel)

Displays the Scale Menu on the Main Control Panel.



#### Cardiac Chair (on Side Rail Nurse Control Panel)

Automatically adjusts patient to 60° Head Articulation, 40° Knee Articulation and -8° Reverse Trendelenburg. Button is always active.



#### Bed Exit Alarm (on Bed Exit / Scale Panel, on Footboard below the Main Control Panel)

Display Arms and Disarms buttons to activate or deactivate the Bed Exit Alarm.



#### Arm (on Bed Exit / Scale Panel)

Arms the Bed Exit Alarm. Button is always active.



#### Disarm (on Bed Exit / Scale Panel)

Disarms the Bed Exit Alarm. Button is always active.



#### Scale On / Off (on Bed Exit / Scale Panel)

Activates the Scale and displays current patient weight in the Scale Display. Button is always active.



#### Zero (on Bed Exit / Scale Panel)

Recalibrates Scale to 0.0 lb (0.00 kg). Button is always active.





#### Menu Mode (on Bed Exit / Scale Panel)

Changes Scale Display to Menu Mode. Button is always active.



#### Lb / kg (on Bed Exit / Scale Panel)

Changes Scale Display from pounds to kilograms. Button is always active.



#### Change Equipment (on Bed Exit / Scale Panel)

Holds current patient weight while equipment is added or taken away from weighed portion of the unit. Button is always active.



#### Trendelenburg and Fowler Angle (on Bed Exit / Scale Panel)

Use to review Trendelenburg / Reverse Trendelenburg and Fowler angle. Used in connection with Scale On / Off button. Button is always active.



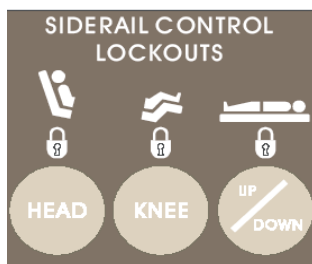
#### Side Rail Control Lights (on Bed Motion Control Panel)

Turns Patient Control Panel back light to low, medium, high or off. Button is always active.



#### Bed Motion Lock (on Bed Motion Control Panel)

Locks-out all bed motion functions. Button is always active.



#### Side Rail Control Locks (on Bed Motion Control Panel)

Lock-out all side rail control functions. Buttons are always active.



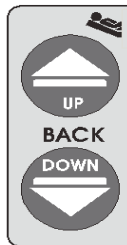
#### Bed Height, Up / Down (on Bed Motion Control Panel)

Adjusts height of patient surface from 21.5 in to 31.5 in / 55 cm to 80 cm between patient frame and floor.



#### Trendelenburg / Reverse Trendelenburg (on Bed Motion Control Panel)

Adjusts patient surface from +8° Trendelenburg to -8° Reverse Trendelenburg.



#### Back (Head) Up / Down (on Motion Control Panel)

Adjusts Fowler position from 0° to 60°.



#### Knee Up / Down (on Bed Motion Control Panel)

Adjusts Knee Gatch from 0° to 40°.



#### Knee Up / Down (on Side Rail Nurse Control Panel)

Adjusts Knee Gatch from 0° to 40°.



#### Head Up / Down (on Side Rail Nurse Control Panel)

Adjusts Fowler position from 0° to 60°.



#### Bed Height (on Side Rail Nurse Control Panel)

Adjusts height of patient surface from 21.5 in to 31.5 in / 55 cm to 80 cm between patient frame and floor.



#### Trendelenburg / Reverse Trendelenburg (on Side Rail Nurse Control Panel)

Adjusts patient surface from +8° Trendelenburg to -8° Reverse Trendelenburg.



#### Cardiac Chair (on Side Rail Nurse Control Panel)

Automatically adjusts patient to 60° Fowler Head Articulation, 40° Knee Gatch Articulation and +8° Trendelenburg.



#### Scale (on Side Rail Nurse Control Panel)

Press to display patient weight in Nurse Display. Button is always active.



#### Boost (on Side Rail Nurse Control Panel)

Press to increase air pressure on all seat cushions. Button is always active.



*Instaflate* (on Side Rail Nurse Control Panel)

Press to increase air pressure in all cushions and create a firm surface. Button is always active.



Seat Deflate (on Side Rail Nurse Control Panel)

Press to reduce air pressure in seat section cushions by 50%. Button is always active.

## MISCELLANEOUS

### EMC

The *KinAir IV* uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause interference in nearby electronic equipment. *KinAir IV* (Serial numbers: KAUK-XXXXXX and KAVK-XXXXXX) were tested to the following standards:

- IEC 60601-1-2: Second Edition
- EN 55011: 1998 Group 1, Class B
- EN 61000-3-2: Class A
- EN 61000-3-3
- EN 61000-4-2: 1995 (6 / 8 kV)
- EN 61000-4-3: 1995 (3 V / m)
- EN 61000-4-4: 1995 (1 / 2 kV)
- EN 61000-4-5: 1995 (2 / 1 kV)
- EN 61000-4-6: 1996 (3 VRMS)
- EN 61000-4-8: 1994 (10 A / m)
- EN 61000-4-11: 1994 (>95% - 0.5p, 30% - 25p, >95% - 250p)

## Classification, UL-544 (Serial Numbers)

Classification in accordance with UL 544, Serial Numbers: KAPK, KAQK and KARK.

- Class 1 and Internally Powered
- Type B
- Ordinary Equipment
- No Sterilization
- Equipment not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.



Operation: Continuous Therapy and Intermittent Mechanical Articulation (2 minutes On, 5 minutes Off).

## Classification UL-60601 (Serial Numbers)

Classification in accordance with UL 60601-1, IEC 60601-1 and EN 60601, Serial Numbers KAUk and KAVK.

- Class 1 and Internally Powered
- Type B
- Ordinary Equipment
- No Sterilization
- Equipment not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.



Operation: Continuous Therapy and Intermittent Mechanical Articulation (2 minutes On, 5 minutes Off).

## Environmental Operating Conditions

Temperature Range: +10 to 40° C (50 to 104° F)

Relative Humidity Range: 30 to 70%

Atmospheric Pressure Range: 500 to 1060 hPa

## Environmental Storage / Transit Conditions

Temperature Range: 0 to +60° C (32 to 140° F)

Relative Humidity Range: 10 to 95%

Atmospheric Pressure Range: 500 to 1060 hPa

## **Hospital Grade Power**

Unstable electrical ground may exist. Grounding reliability can only be achieved when the power cord is connected to an equivalent receptacle marked Hospital Grade. Where the integrity of the external protective conductor in the installation or its arrangement is in doubt, equipment shall be operated from its battery.

## **Nurse Call System**

Nurse Call function is disabled from this product. Interconnection is not recommended.

# QUESTIONS AND INFORMATION

# 7

For additional information concerning the *KinAir IV* unit or its operation, please contact 1-800-343-0974 or visit [www.ArjoHuntleigh.com](http://www.ArjoHuntleigh.com).

NOTE: SEE SPECIFICATION SECTION FOR CLARIFICATION OF MARKS BELOW.



ETL Listed to UL 60601-1,  
CSA C22.2 NO 601.1 M90



LISTED TO  
UL-544

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# ARJOHUNTLEIGH

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[www.ArjoHuntleigh.com](http://www.ArjoHuntleigh.com)

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