



aurum[®]

bariatric bed

Quick Reference Guide
with Trouble Shooting

IMPORTANT!

This quick reference guide does not replace the bed's user manual, which can be provided by visiting www.benmormedical.co.uk or contacting us on 0333 800 9000.

Safety Instructions

Before using the bed, it is recommended: -

- All staff involved are familiar with the User Manual.
- All functions are tested.
- The bed is decontaminated and cleaned thoroughly before every use.
- The bed must be operated by personnel who have been properly trained or have suitable experience with equipment of this nature.
- The bed must only be used on clean, hard and flat horizontal surfaces.
- Never exceed the maximum load capacity of the bed, even for brief periods.
- Check there is no risk for the patient, carer other people or accessories to become trapped when adjusting any sections activating, raising or lowering of the bed.
- **Safe working load: 413kg / 65 stone / 910lbs**
Maximum Patient Weight: 413kg / 65 stone / 910lbs
- For side ingress / egress, position the patient in the middle of the bed.
- DO NOT ingress / egress the bed at the head or foot end.
- The power cable for the bed must be unplugged before moving, cleaning or maintenance activities.



1. Removable Expandable Head Board
2. Removable and Adjustable Safety Rails
3. Individual Width Adjustable Mattress Sections
4. Integral bed extension
5. 4 Section Profiling Platform
6. Supervisors Control Panel

7. Removable Foot Board
8. Weighing Scales (optional)
9. Protective Bumper Wheels
10. Integral Linen Shelf
11. Central Braking Lever
12. Central Locking 150mm Castors

Note: The above illustration is for reference purposes only. The specification of your actual Aurum bed may vary to the above illustration.

Expanding the Mattress Platform

The four-section, fully profiling mattress platform can be extended from 900mm to 1200mm (36" to 48") to provide flexible care options for specific patients.



900mm (36") width - standard hospital bed size

The bed has the flexibility to be used as both a standard hospital bed and a bariatric bed. If there are space restrictions when transporting the bed, it can be reduced back to this size to aid with getting through doors or corridors.



To extend the mattress platform

1. Locate locking pin underneath mattress platform and release the locking pin of the mattress section that you wish to extend.
2. Pull out the individual mattress platform section to the desired width.
3. Repeat this procedure for each mattress section as required.

Reverse the above processes to retract the bed frame and mattress surface.



1200mm (48") width - largest size

This setting gives the patient the most space on the bed. There may be difficulties when transporting the bed through doorways and corridors at this setting. If this is the case, reduce the size of the bed to smaller width.

Length Extension

To extend/retract



- Loosen left and right hand wheel screws located underneath mattress platform at foot end of the bed.
- Pull the extension out as far as it will go (or push in, if retracting).
- Tighten left and right hand wheel screws until they are locked in position.
- Lift footboard platform from mattress platform and place in horizontal position (reverse, if retracting).

Safety Rails

The Aurum bed is fitted with four plastic Safety Rails that can be individually removed from the bed.

Each Safety Rail is mounted into a fixed socket that is labelled with a position number, (1) or (2), this corresponds with the numbered label on the Safety Rail and ensures that each Safety Rail is correctly positioned.



Removing Safety Rail

1. To remove the Safety Rail, ensure it is in the 'up' position.
2. Depress the button as indicated.
3. Remove the Safety Rail.



Replacing the Safety Rail

1. To replace the Safety Rail, align the stem to the socket and let the Safety Rail drop into position.
2. The Safety Rail will automatically lock in position when replaced.



The safety rails shall not be used as support or leverage for the patient, when leaving or repositioning on the bed.

Expanding the mattress using foam inserts

Width adjustment is achieved using two 152mm (6") foam inserts, placed on either side of the mattress. The extensions pieces are kept securely in place through D-ring style straps and a Dartex box sheet.

Once the foam inserts have been placed on either side of the mattress, a 1220mm (48") fitted sheet is placed over the mattress.



Fig 3.
Remove stretch cover to reveal the foam extensions

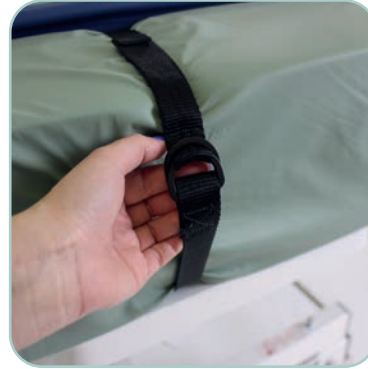


Fig 4.
Loosen and separate the D-ring on each retaining strap to allow removal of the foam extensions

Expandable Headboard



To adjust the width of the headboard

1. Locate the headboard pins in the middle of the headboard frame.
2. Push one pin in to release the side of the headboard you want to extend.
3. Whilst holding the pin in, gently pull out the end of headboard frame until the pin relocates to the outer fixing.
4. Repeat this procedure for the other side of the headboard frame.
- Ensure the headboard is retracted when at the 915mm (36") transportation width

Central Braking Lever



Down - Brake Position

All four castors are fixed



Centre - Neutral Position

Castors move freely in all directions



Up - Steering mechanism

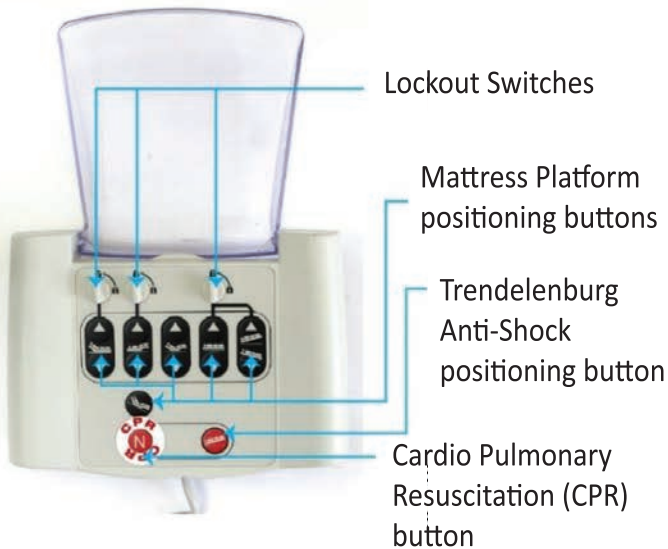
Head end castor fixed for easy steering

Operating the Control Units

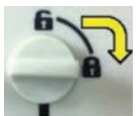


Before carrying out these operations, check there are no objects on or under the lower frame which could interfere with the bed movement. This function can be locked out by means of the Supervisor Control Panel.

Supervisor Control Unit



To operate the Supervisor Control Unit press and hold the desired Mattress Platform positioning button, Trendelenburg Anti-Shock positioning button or the CPR button. Ensure that all the 'Locking Switches' are in the 'unlocked' position (vertical).



Locking Procedure

1. Turn Lockout Switch clockwise (to horizontal) to lock required function.
2. When switch is in horizontal position bed function(s) will be locked from use.



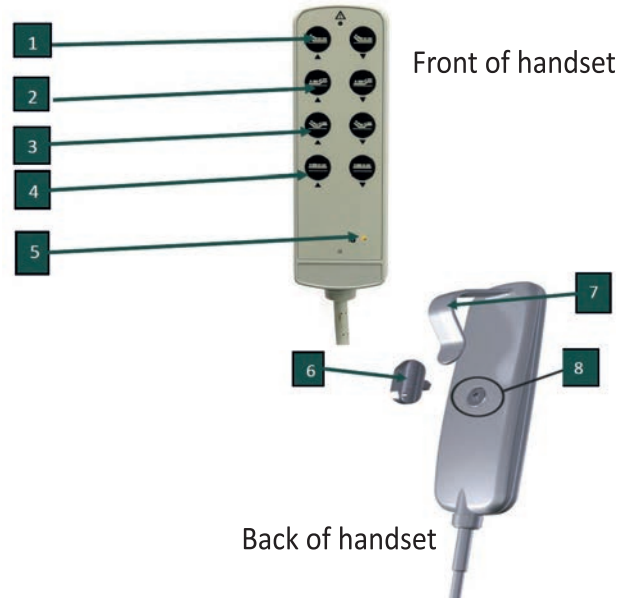
Unlocking Procedure

1. Turn Lockout Switch anti-clockwise (to vertical) to unlock required function.
2. When switch is in vertical position bed function(s) will be unlocked.



Note: When selecting individual Lockout Switches, the Supervisor Control Panel and Patient Handset will be locked out.

Patient Handset



The Patient Handset is connected by a flexible cable and can be positioned either side of the bed. It adjusts individual parts of the bed mattress platform and has limited functions opposed to the Supervisor Control Panel.

1. Backrest Positioning Buttons
2. Knee-break Positioning Buttons
3. Auto-contour Adjustment Buttons
4. Height Adjustment Buttons
5. Handset Lockout Indicator
6. Turnkey socket key
7. Mounting clip/hook
8. Turnkey lock with 2-stage locking function

✓ **Keep bed plugged into mains at all times in order to maintain the life of the battery back up**

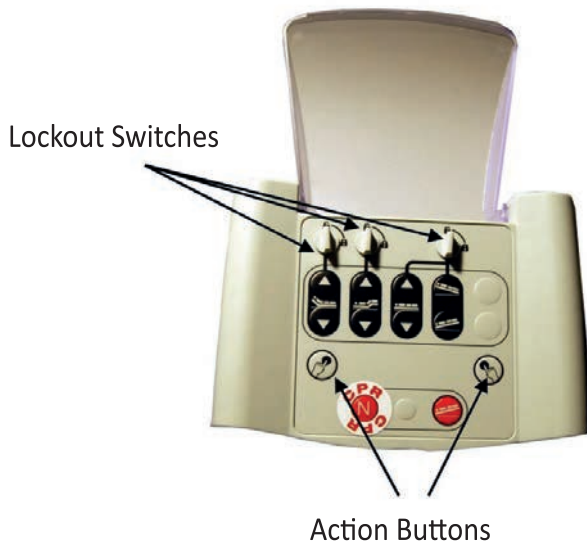
✓ **If the bed is operating slowly or not at all, it is likely the bed is no longer plugged in**

Operating the Control Units (*previous version*)



Before carrying out these operations, check there are no objects on or under the lower frame which could interfere with the bed movement. This function can be locked out by means of the Supervisor Control Panel.

Supervisor Control Unit



To operate the supervisor control unit, either of the action buttons must be held down before controls will be activated. For example, to raise the height of the mattress platform, one would hold down either action button **whilst** pressing the button that controls the mattress height. This is a safety feature and is designed to prevent individuals tampering with the bed (visitors, patients etc).

This also applies when using the emergency CPR and emergency Trendelenburg functions; one of the action buttons must be depressed while the emergency buttons are being used.

Patient Handset



To use the patient handset, ensure Light A is on. This indicates that the handset has power and is connected correctly.

The patient handset has an inbuilt 'lock out' function that enables carers/nurses to deactivate the patient handset in order to prevent the patient from adjusting the bed.

To enable/disable this 'lock out' function, take the small black magnet key (attached to handset cable approx 200mm from handset) and swipe it across Light B. When the 'lock out' function is disabled and the handset is unlocked for use, Light B will be illuminated.




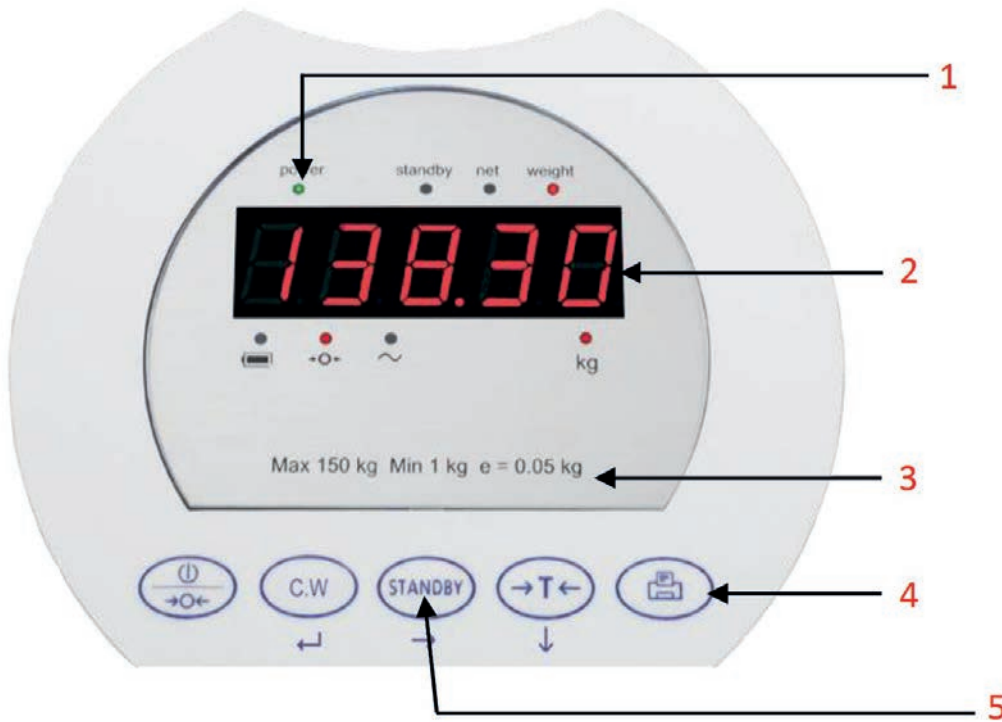
Note: The individual functions on the patient handset and supervisor can also be locked from the supervisor control unit using the locking switches shown above.

✓ **Keep Bed plugged into mains at all times in order to maintain the life of the battery back up**


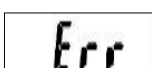





✓ **If the bed is operating slowly or not at all, it is likely the bed is no longer plugged in**

Operating the Scale Unit


1. Ensure bed has mattress and bedding on before setting the bed to Zero.
 - > If you do not set the bed to Zero then you will not have a correct weight for the patient.
 - > You cannot set the bed to Zero with the patient on the surface.
2. Press and hold down the Zero Button  and make sure the weight display shows 0.0kg.
3. Once scale unit is set, leave it turned on for constant weight monitoring.

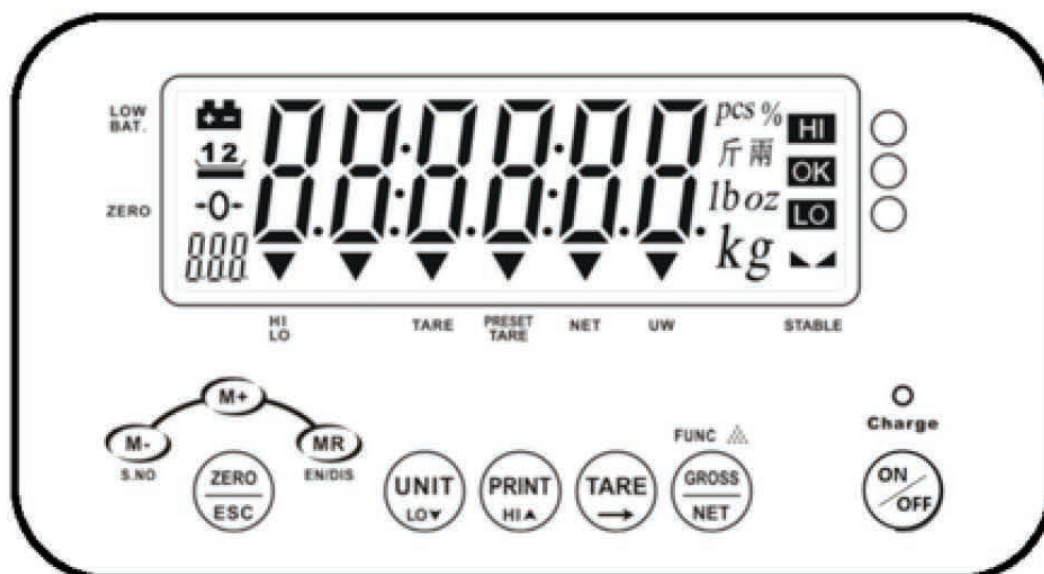



1. Power Indicator
2. 1° LCD weight display
3. Indication characteristics model
4. Function keys
5. Standby mode (Press to hide patient weight for dignity. Press again to show weight)

ERROR MESSAGE	REASON	ACTION
	Low Battery: This warning shows that the voltage of battery is too low to be used.	Plug in the AC adaptor for operation or replace with a new battery.
	Overload: the total load exceeds the maximum capacity of scale	Please reduce the loading and try again.
	Counting error (high): Indicates that the signal from the load cell is too high.	Error normally caused by a failure of the scale (cell or wiring). Contact Benmor Medical technical support.
	Counting error (low): Indicates that the signal from the load cell is too low.	Error normally caused by a failure of the scale (cell or wiring). Contact Benmor Medical technical support.
	Zero over the calibration: Zero Range over 10% during the ignition.	Contact a Benmor Medical technical support – scale unit requires recalibrating.
	Zero under the calibration: Zero Range over 10% during the ignition.	Contact a Benmor Medical technical support – scale unit requires recalibrating.
	Error EEPROM: Breakdown balance software.	Error normally caused by a failure of the scale (cell or wiring). Contact Benmor Medical technical support.

Operating the Scale Unit (*previous version*)

1. Ensure bed has mattress and bedding on before setting the bed to Zero.
 - > If you do not set the bed to Zero then you will not have a correct weight for the patient.
 - > You cannot set the bed to Zero with the patient on the surface.
2. Press and hold down Zero Button  until '-0-' sign appears on the left hand side of digital display. Ensure the weight display shows 0.0kg.
3. Place patient on mattress surface and digital display will show weight in Kg.

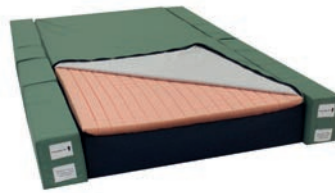


LCD Display	Explanation
<i>kg</i>	Weighing unit in Kilograms or Grams
-0-	"ZERO" sign
▼	Stable sign when the weight reading is stable
<i>pcs</i>	Piece counting function
%	Percentage function
▼	Indication sign for insufficient unit weight, net weight, tare, pre-tare, Hi-Lo limits, auto tare
000	Operation message display
HI OK LO	HI, OK and LO limits indication
<i>lb oz</i>	Additional weighing units
	Battery power is weak

Foam & Galaxy Air Mattress Systems (with foam extension)



Please ensure you are familiar with the Instruction Manual before using the Bari Foam+ and Galaxy Air Mattress System.



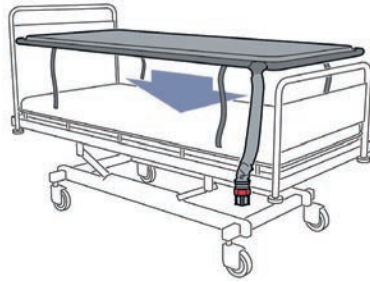
Bari Foam+ Bariatric Mattress



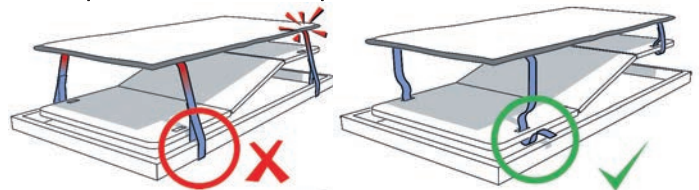
Galaxy Alternating Air Mattress

Installation of Bari Foam+ and Galaxy Air Mattress System onto Mattress Platform

1. Place the mattress onto the bed frame, ensuring the top cover is facing upwards and the air supply hose (applicable to the Galaxy Air Mattress) is positioned at the foot end of the bed.

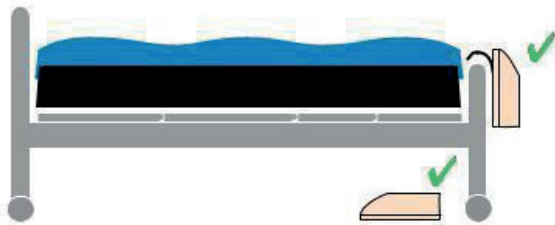


2. Secure the mattress to the bed using the straps and fasteners provided.

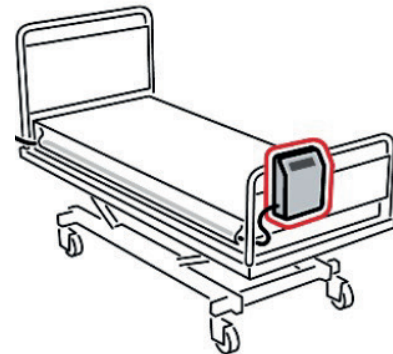


Ensure that fastened straps do not restrict the operation of any moving parts of the hospital bed. Straps attached around both moving parts and fixed parts of a bed frame will cause severe damage to the mattress. After installation carefully test the functions of the bed to ensure the mattress moves freely with the bed platform.

3. Position Control Unit by hanging hooks over foot board of the bed.



4. Hang the unit onto the bed frame at the foot end of the bed with the control panel facing outwards.



5. Connect the two air hoses with quick release couplings. Ensure air hoses do not kink between bed frame and Control Unit.



6. Insert power cord into the Control Unit, then plug into a power socket.



8. When initial inflation is complete, the first two Pressure LEDs plus Alternating Mode LED will illuminate to indicate the system is ready for use (system automatically defaults to Alternating Mode at start-up).

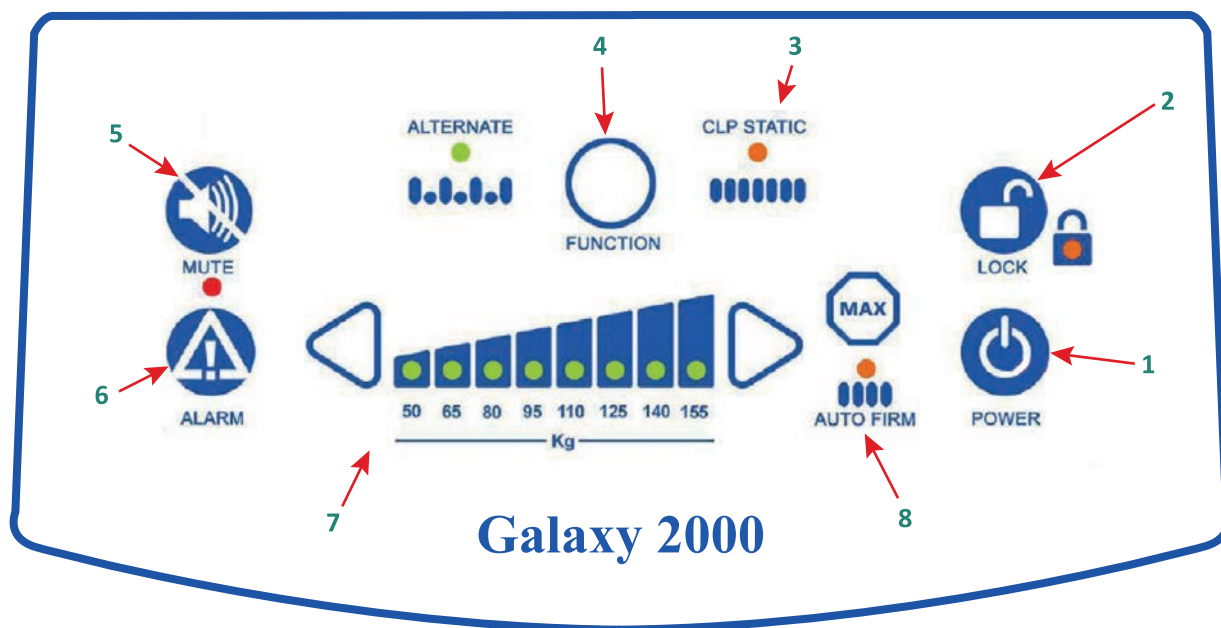
7. Press the power button for at least two seconds to activate the Control Unit. The pressure LEDs will flash indicating the system has activated. The system will be ready for use in 50 minutes.

For information on how to extend the mattress width, please refer to page 5.

Galaxy Alternating Air Mattress (cont.)

If alarm continues to sound: Check CPR and connections for air leaks. Check the mattress is plugged into the pump unit. Check mains plug is connected to wall socket and pump is switched on.

Pump Unit



1. To turn ON press and hold for more than 2 seconds until the LEDs have illuminated. To turn OFF press and hold for more than 2 seconds until the LEDs have turned off.
2. Press the LOCK/UNLOCK button for more than 2 seconds until the Lock LED has changed. A beep sound will remind you about the change.
3. "Continuous Low Pressure".
4. Switch between Alternate (Therapeutic mode) and Static (Low Pressure Mode). Static mode will switch back to Alternating mode after 1 hour to protect patient pressure areas.
5. Press the mute button during the alarm to turn off the sound for 20 minutes, it will resume after.
6. If an alarm sounds, check the CPR valve and connections for air leaks and check the mattress is plugged into the pump unit. Also check the mains plug is connected to the wall sockets and the pump is switched on.
7. Use the arrows to increase or decrease the pressure setting from 10-60mmHg (adjustable for Alternating/Static mode). Increase weight by 2 settings if the patient has the back rest in an upright position and is sitting in the bed for long periods of time (please remember to re-adjust the setting back to the correct weight when the patient returns to a laying position).
8. For nursing procedures such as patient transfers and patient turning, press the MAX AUTO FIRM button to auto inflate the mattress to maximum pressure providing a stable base. The mattress will reset to previous pressure setting after 20 minutes.

Emergency CPR

The system is equipped with an emergency CPR release which rapidly deflates the mattress so that cardiac resuscitation can be performed.

1. Gently pull and twist in the direction of the red CPR marked attachment at the head end of the mattress. Alternatively, disconnect the two air supply tubes from the power unit and the mattress will deflate.
2. To re-inflate the system by twisting CPR attachment to "shut" position and wait for the system to gain optimal pressure.

Transport Mode

1. Set to max firm (full static) mode and wait at least five minutes for cells to inflate. Switch off Control Unit and disconnect power supply.
2. Remove the hoses with the quick release couplings from the Control Unit. Allow air to escape for a few seconds before inserting the hose couplings one into the other to stop the air escaping.



IMPORTANT: Test to ensure the patient is adequately supported and not touching bed base.

Verto Low Air Loss Turning Mattress



Please ensure you are familiar with the Instruction Manual before using the Verto Low Air Loss Turning Mattress.

Installation & Inflation



1. Unfold the Mattress on the bed. Use the straps on the mattress cover to secure it to the moving parts of the bed frame to allow raising and lowering of the head and foot end without tearing the cover.
2. Hang the **Electronic Control Unit (ECU)** on the foot board, and make sure the mattress hose assembly is connected securely to the ECU.
3. Attach the power cord to the ECU and plug it into the electrical outlet on the wall. The amber **Standby** light will turn on. Press the **Power** Key, and the green light will turn on.

DO NOT OPERATE THE ELECTRONIC CONTROL UNIT WITHOUT IT BEING CONNECTED TO THE AIR CELLS.

4. Press the **Mode** Key to **Max Inflate**. The ECU will come on and quickly inflate the mattress to firm settings.
5. Press **Turn** Key and select desired turning mode. Press **Time** Key and select desired turning time. Press **Turn Angle** $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ or full turn. In this mode, the entire mattress is at a constant pressure.

EXAMPLE 1: If the following are selected: **Time:** 30 minutes; **Turn:** Both directions; Turning Angle: Full; - The patient will be turned left 30 minutes, then right 30 minutes at the full angle, and the cycle keeps on repeating.

EXAMPLE 2: **Time:** 30 minutes; **Turn:** Right or left; **Turning Angle:** Full; - The patient will be turned 30 minutes to the right or left, and no turn for 30 minutes, and the cycle keeps on repeating.

6. **Static Mode:** (No turning): The required patient comfort pressures can be achieved by pressing the **Soft** or **Firm** Keys. The set pressure is indicated by the number of green lights illuminated. Patient comfort levels can only be adjusted in the static mode.
7. **Static Therapy:** For wound treatment or personal hygiene, press the **Mode** Key to select Static mode. In this mode the entire mattress surface is at a constant pressure. To return to the turning mode, press the **Turn** Key.
8. For CPR or quick deflation, disconnect the three (3) long hoses from the ECU by squeezing the small grey levers on the connectors and by pulling the hoses off the ECU and the small CPR valve with the red tab. **CAUTION: DO NOT DROP THE ECU!**
9. When the patient is not in bed, press the **Standby** Key. Refer to instructions on following page.

Verto Low Air Loss Turning Mattress (cont.)

Electronic Control Unit (ECU)

POWER:	Press the Power Key to turn the ECU On or Off.
STANDBY:	When the amber light is on the power to the ECU is on, but is NOT yet operating.
ON:	When the green light and LED display is on, the ECU is on and is operating.
SOFT:	Press the Soft Key to decrease air pressure for patient comfort levels. <i>NOTE: ECU must be in <u>Static Mode</u> to adjust patient comfort levels.</i>
FIRM:	Press the Firm Key to increase air pressures for patient comfort levels. <i>NOTE: ECU must be in <u>Static Mode</u> to adjust patient comfort levels.</i>
MAX INFLATE:	For quick inflation of the mattress to maximum firmness. <i>NOTE: ECU has a 15 minute auto timer or can be disengaged by pressing the button.</i>
TIME:	Press Key to select 10, 20, 30 or 60 minute turning cycle time.
TURN:	Press Key to select “Left” only, “Right” only, “Both” or Static” (no turn).
PAUSE:	Will hold the turn function indefinitely if more time is needed to give personal care etc whilst the patient is on their side. Release the pause button for normal operation to continue.
STATIC:	This mode is selected to achieve static air therapy, and is recommended during wound treatment, personal hygiene and/or transfers. In this mode, patient comfort levels can be adjusted by using the Soft/Firm keys.
TURNING ANGLE:	Press Key to select $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, or full turning angles. <i>NOTE: Angles: $\frac{1}{4} = 10^\circ$, $\frac{1}{2} = 20^\circ$, $\frac{3}{4} = 30^\circ$, full turn angle = 40°.</i>
LOCK:	Locks in/out all ECU functions. To lock in selected settings, <u>hold down Lock Key until light turns on</u> . No changes on the selected settings on the ECU can be made until the Lock Key is once more held down until the light turns off.
POWER FAIL:	An audio visual alarm will sound during a power failure.
LOW PRESSURE:	An audio visual alarm will sound during hose disconnection or a major leak in the air chambers or side bolsters.

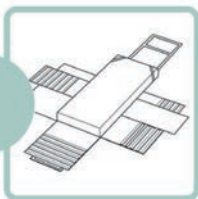
Transportation Mode

- 1) Turn the pump ECU unit off and unplug from the power supply with patient still in situ. Mattress will start to deflate. **DO NOT** pull the CPR valves as this will release all air from the mattress.
- 2) Once mattress starts to soften (max 2 minutes) reduce the bed platform (see bed instructions) to allow access through doorways/lifts. Both sides or one side of the bed can be reduced with the mattress attached depending on size of access points. **DO NOT** detach the mattress straps from the bed.
- 3) Repeat the above process in reverse order once the bed has arrived at its destination. It is important to **WIDEN THE BED PLATFORM BEFORE RE-INFLATION**. The mattress will re-inflate with the patient still on the bed to its previous pressure setting or adjust accordingly.

S-CAPEPOD Evacuation Sheet *Rapid and safe evacuation for bariatric bedridden people*

CAUTION: Proper use of the S-CAPEPOD requires training and periodic practice. Do not overestimate your skills, strengths and abilities. Staircase evacuations can be difficult. You must be able to control the patient's descent speed while sliding the patient down the staircase. In some instances (heavier patients, a staff member lacking training or sufficient strength) you should request the assistance of a second staff member. Periodic practice using the S-CAPEPOD should be an element of evacuation exercises. In all instances, compliance with the instructions below is important:

1



This is the unfolded Bariatric S-CAPEPOD.

2



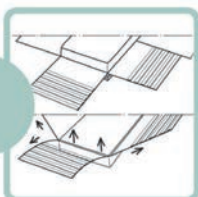
Pull the right end, the left end and the bottom flap of the Bariatric S-CAPEPOD from under the mattress. Small flaps are also attached to the left and right-flaps. Pull these along.

3



This operation is performed by two people. Each person should stand at one long side of the bed. Pull the small flaps towards each other and tack them together with Velcro. Position them under the abdomen of the patient. Do this as tight and powerful as possible.

4



The foot end has stitched corners. You place these around the mattress corners at the foot end. For wide mattresses you must partly dent the mattress corners in order to fit them into the stitched corners. The corners should end up above the mattress.

5



Pull both ends of the long flaps vigorously towards each other and tack the Velcro of the right end to the left end. Then attach the bottom flap with the Velcro onto the other already twinned flaps.

6



Grab the pull-tab at the foot end. This is located on the underside of the foot end in an envelope. The second staff member grabs the pull-tab at the head end. This is located at the head end of the Bariatric S-CAPEPOD. Now turn the mattress simultaneously. Do this slowly and turn the mattress about 80 degrees. Keep the mattress levelled as long as possible and then lower it. Pull alone or in pairs slowly until it is situated on the ground.

7



Move the person to a safe environment. Use two staff members for this. Ask a third person to assist while steering through tight turns.

8



In some circumstances you may have to evacuate using the stairs. Do this in a controlled way. You should stand a few steps lower, alone or with a second staff member, and pull the bedridden patient towards you. When his/her legs are above the stairs, one staff member goes up and assists the third staff member. Together they are the inhibitors who can slow down the operation by using the pull-tab at the head end. The staff member at the foot end now pulls the patient towards himself and ensures that the mattress stays in contact with the same leg and holds himself steady with one hand on the handrail. The two other staff members provide additional inhibition. If possible, they support themselves with one hand on the rail as well. Communicate with each other and descend step by step and continue towards a safe environment.

Troubleshooting - Aurum+ Bariatric Bed

Operating issues that can arise with the bed can usually be solved by following these simple steps: -

PROBLEM	POSSIBLE CAUSE	SOLUTION
None of the electric operating system is functioning	<ul style="list-style-type: none"> > Mains power supply failure > Control box or Supervisor Control Panel are in locked or off position > Loose electrical connections > Electrical unit failure 	<ul style="list-style-type: none"> > Is the power lead plugged in and switched on? > Check that the orange power light on the Handset is on > Switch the keys into the open position > Check all connections between the actuators and the control unit > Contact your technical service provider
Any individual electric functions are not responding	<ul style="list-style-type: none"> > Loose electrical connections > Unit failure 	<ul style="list-style-type: none"> > Check the individual connections to the control unit > Contact your technical service provider
Bed is vibrating		<ul style="list-style-type: none"> > Contact your technical service provider
Castor(s)	<ul style="list-style-type: none"> > The castor brake system may be worn out 	<ul style="list-style-type: none"> > Change castor – contact your technical service provider
The castor(s) do not swivel correctly	<ul style="list-style-type: none"> > The castors may be dirty 	<ul style="list-style-type: none"> > Clean the castors



Note: If any function of the bed becomes compromising or dangerous to the patient in any way, discontinue use immediately and report to your service provider.



Never try to repair an electrical fault if you are unqualified or have not been officially trained by Benmor Medical.

Troubleshooting - Galaxy Alternating Air Mattress

Should any problems arise with the operation of the mattress, please carry out the following checks: -

Is the mattress pump alarming/is there a red light flashing continuously?

NO



If NO then go through power checks

1. Check that the plug is inserted correctly into the electrical socket
2. Ensure the electrical socket is switched on
3. Try a different electrical socket
4. Check that the plug is not broken
5. Is the kettle lead secured correctly to the dynamic mattress pump?
6. Is the pump switched on?

YES



If YES then go through the following checks

1. Is the CPR valve closed?
2. Are the pipes into the pump unit secured correctly. Check they are not twisted/snagged or obstructed.

If the above checks do not solve the fault, please call our 24/7 customer support helpline on 0333 800 9000 to speak to an expert technician*



*Please note - if a technician is called out to solve a fault and discovers no issue with the equipment a call-out fee may be applied. Any faults caused by user damage may also result in additional costs. To discuss these costs and any other questions, please contact our team by phone or via email info@benmormedical.co.uk.

- Innovative products & services
- Expert advice
- Highest levels of product conformity
- Design and manufactured products in the UK
- CPD certified training courses
- UK nationwide rental coverage 24/7
- Training and installation
- Patient assessments



HEAD OFFICE

The Aurum Centre
Ham Barn Business Park
Farnham Road
Liss
Hampshire
GU33 6LB

SOUTH WEST BRANCH

The Iridium Centre
Unit B
7A4 Victoria Road
Avonmouth
BS11 9DB

MIDLANDS BRANCH

The Argentum Centre
Welland Business Park
Valley Way
Market Harborough
Leicestershire
LE16 7PS

NORTHERN BRANCH

The Aereus Centre
Rainton Bridge Industrial Estate
Mercantile Road
Houghton-le-Spring
Tyne and Wear
DH4 5PH

supporting bariatric care



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BS EN 13485:2016 - MD 607484
CE607483



ISO 9001:2015 - FM 607485