Alrick.

# Nino Bed Instruction Manual

**Product Code: 7-NINOBF**

Please carefully read instructions before using the bed.

AUSTRALIAN MADE AND OWNED

# INTRODUCTION

This instruction manual contains information on the instructions for use and explanations of the signs and symbols used. These instructions for use contain instructions for operating the medical care bed.

These instructions for use may contain inaccuracies or printing errors. The information provided here will be updated periodically and changes due to product maintenance will be included in later editions. Changes or improvements are possible at any time without prior notice.
If you have any questions, please contact our customer service team.

The instructions for use must be read and used by every person who operates the medical bed.

### PURPOSE

The intended purpose of the Alrick Nino Bed is to be used for patients in hospital and healthcare facilities. These beds are electrically powered to allow the bed to be placed in various positions suitable to the patient. It is a medical device intended for human medical use only.

The Alrick Nino Bed moves on castors and features infinitely adjustable motorised height settings. The bedding area can be adjusted by multiple motors, allowing for positions such as sitting or exiting position.

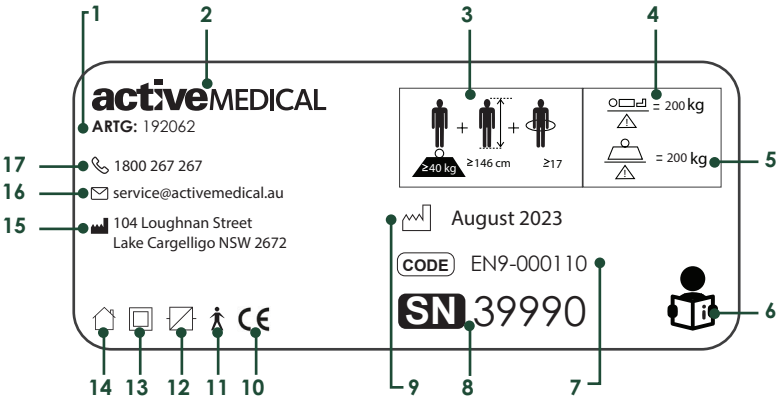
The intended user of the Alrick Nino Bed is any peadiatric, adolescent and individual who has a disability or a health condition.

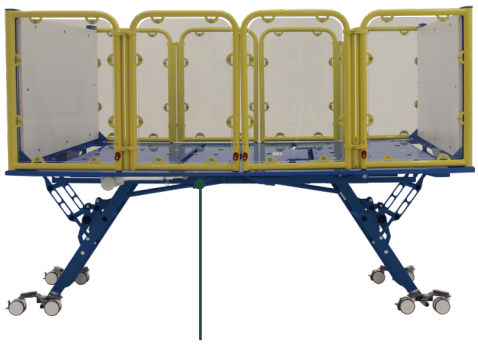
The bed should only be used by individuals trained or experienced in proper handling. Users must be instructed on its correct use and familiarize themselves with these instructions. Common users include nursing staff, physicians, therapists, family members, technicians, residents, and cleaning staff.

## SYMBOLS EXPLAINED

| | |
|---|---|
| | Manufacturer |
| | For Indoor Use (house) |
| | Type B Application Part<br>(classification according to the degree of protection against electric shock) |
| | Product with a Thermofuse |
| | Safety Isolating Transformer |
| | Device Protection Class II<br>(classification according to the type protection against electric shock) |
| | Demko Approval |

## PRODUCT SERIAL NUMBER PLATE



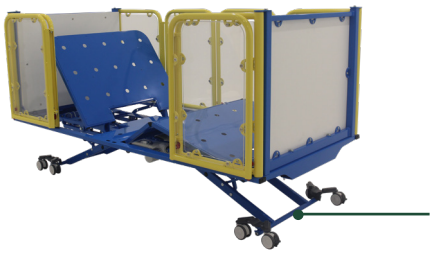



Serial Number Plate

## SERIAL NUMBER PLATE EXPLAINED

| | |
|---|---|
| **1** | ARTG Number |
| **2** | Company Logo |
| **3** | Adult Identification (minimum weight, minimum height, minimum BMI) |
| **4** | Maximum Occupant Weight |
| **5** | Maximum Safe Working Load |
| **6** | Read Instruction Manual - Follow Instructions For Use |
| **7** | Product Code |
| **8** | Product Serial Number |
| **9** | Manufacture Date |
| **10** | CE Marking |
| **11** | Type B Application Part<br>(classification according to the degree of protection against electric shock) |
| **12** | Switching Power Supply Unit |
| **13** | Device Protection Class II<br>(classification according to the type protection against electric shock) |
| **14** | For Indoor Use Only |
| **15** | Manufacturer Address |
| **16** | Company Service Email Address |
| **17** | Company Phone Number |

## OLD POSITIONING OF SERIAL NUMBER PLATE (2024 MODELS)



Serial Number Plate
(same style as above)

## PRE OPERATION CHECK

**With the bed in position, check the following:**

Electric beds should ONLY be used where earth leakage is fitted to the power source.

- Check power cord is plugged into 240V supply and is active.
- Check power cord is clear of castors and any moving part of bed.
- Ensure power cord has enough slack so cord is not strained when the bed is raised and lowered.
- Position bed at least 50mm from the wall in the lowest position. Lock castors. This position is critical for not damaging the wall when raising the bed.
- Before using bed, perform all functions to ensure they are working properly. If not please call your service technician or call the Active Medical Technician Team on 1800 282 001

** When fitting safety sides to this bed, please beware of the possible crushing points. The clamps can create crushing points on the rails. **

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## NINO BED - MODELS AVAILABLE

NINO Single (900mm)

NINO King Single (1070mm)

NINO Double (1370mm)

## SPECIFICATIONS

| | Single | King Single | Double |
|---|---|---|---|
| **Height Range (mm)** | 100 - 725 | 100 - 725 | 100 - 725 |
| **Backrest Angle (degrees)** | 62 | 62 | 62 |
| **Kneebreak Angle (degrees)** | 35 | 35 | 35 |
| **Trendelenburg Angle (degrees)** | 15 | 15 | 15 |
| **Reverse Angle (degrees)** | 15 | 15 | 15 |
| **SWL (kg)** | 200 | 200 | 200 |
| **Overall Dimensions (mm)** | 1070 x 2170 | 1240 x 2170 | 1440 x 2170 |
| **Sleeping Surface (mm)** | 900 x 2000 | 1070 x 2000 | 1370 x 2000 |
| **Mattress Size (mm)** | 860 x 1960 | 1050 x 1960 | 1350 x 1960 |
| **TGA Number** | ARTG 192062 | | |
| **Manufacturer** | Active Medical, 104 Loughnan Street, Lake Cargelligo NSW 2672 | | |

## ELECTRICAL DATA

| | |
|---|---|
| **U In** | 230V ~, 50Hz |
| **I In** | Max. 1.5A |
| **U Out** | 24V ... , max. 70W |
| **Op.** | 10%, Max. 2min./18min. |
| **Protection Class** | 1Px4 |
| **Insulation Class** | II Type B |
| **Noise** | 48DBA |

For indoor use (house)

Safety isolating transformer

Type B equipment, as per EN60601+1

Device Protection Class II

Product with a thermo fuse

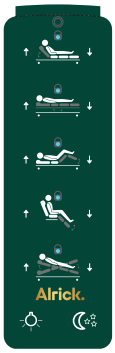
Demko approval

**RE-Tuv Approval**

## IMPORTANT

- Check electric cords regularly and notify an electrician or Active Medical on 1800 282 001 immediately. If any damage occurs, cease to use and remove mains power until checked and repaired.
- No wiring is to be modified without authorisation from the manufacturer.
- Ensure the small extension cable is correctly connected to the bed socket and to the 240 volt supply when the bed is in a stationary position. A small light on the control box will illuminate showing a power supply.
- Low Low model beds should be left in the lowest position when a nurse is not in attendance.
- Nurses, cleaners or anyone using Alrick Electric Beds must make sure that the main power cord is clear of any moving parts on the bed before turning the power on.
- Electric Beds should ONLY be used where earth leakage is fitted to the power source.
- When patient condition could lead to patient entrapment, the mattress support platform should be left in the flat position when unattended.

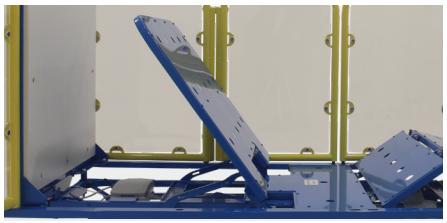
# OPERATOR CONTROLS




**OPERATOR CONTROLS:**

Electric Beds are controlled by a handset, which is plugged into the connection port. (Normally located below and at the edge of the mattress base towards the head end).

Handset Code: HB8X255-00

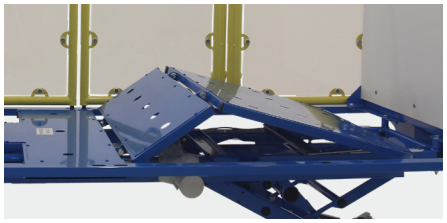


**UPPER POSTURE, ELECTRIC BACKREST:**

The top pair of push buttons control the electric upper posture as indicated on the handset.
Beware of potential pinch points when lowering backrest.

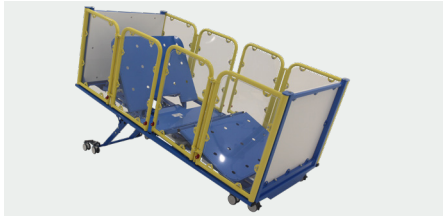
**HI-LOW OPERATION:**

The second pair of buttons on the handset control the smooth operation of raising & lowering the bed. When raising and lowering the bed, ensure that no person of part of his or her body is under the bed. Failure to do so could cause serious physical injury.



**ELECTRIC KNEEBREAK:**

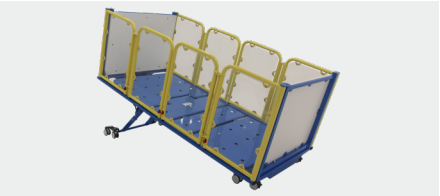
The third pair of push buttons on the handset control the operation of the kneebreak.
Beware of potential pinch points when lowering kneebreak.



**CHAIR POSITION:**

The fourth set of buttons operate the chair function.

hello@alrick.au

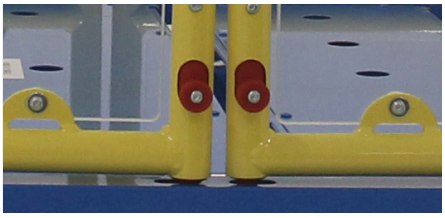


**ELECTRIC TRENDELENBURG:**

The last pair of push buttons on the handset control the operation of the tilt.
Beware of potential pinch points when using the tilt function.

**NIGHT MODE:**

Night Mode returns all functions to the lowest position.
WARNING: The bed stops at approx 170mm from the floor, at this point, it is the responsibility of the carer to make sure there is nothing under the bed. Once checked, they can lower the bed to its lowest point of 100mm.



**OPENING AND CLOSING THE GATES:**

To open the gates, lift the red release knob up. This is found at the bottom of each gate & each bi-fold section.
When closing the gates, please test the gate to ensure that it has latched securely before leaving the bedside.

## CASTORS

**STANDARD CASTORS:**

To activate breaking, place your foot on the small grey pedal and press down. To release this put your foot underneath the pedal and flick it upwards until it unlocks.

**DUAL LOCKING CASTORS:**

To activate breaking, place your foot on the grey bar pedal and press down firmly. To release this, put your foot underneath the grey bar pedal and flick it upwards until it unlocks.

## OPTIONS & EXTRAS

**UNDER BED LIGHT:**

The last button on the bottom left controls the under bed light (optional extra). The under bed lighting feature provides the user with ease of movement and access to the bed in dim conditions or at night. This will assist in the prevention of falls.

**BATTERY BACK UP:**

This allows you to safely change the patients position during a power shortage.

## SAFETY & WARNINGS

- Electric Beds should ONLY be used where earth leakage is fitted to the room or building.
- If any cords are cut or damaged the bed MUST not be used until checked, fixed and tagged.
- No patient, service personnel or any person must lie underneath an Alrick bed while power is turned on, if not obeyed this may result in serious bodily injury or death if the bed controls are actuated.
- Please check no person or object is under the bed before using.
- Hand control to only be given to fully competent patients.
- Never leave hand control unattended with bed switched on unless patient is fully competent.
- Fit optional nurse lockout for safety of incompetent patients.
- Only one person is to be on the bed at any time.

## MAINTENANCE

- Beds should be inspected monthly for abnormal wear. For example, bolts loose or missing, castors, rubbers or brakes damaged.
- Rails must be inspected regularly for any wear or movement that may cause injury, do not use if unsure.
- If one or more of the bed functions is found not working correctly, notify the manufacturer for advice.

**EVERY 6 MONTHS:**

1. Check there is no visible damage to electrical system or mechanical parts.
2. Check wiring is secure and not interfering with bed movement.
3. If actuator shafts are not clean - wipe chromed shaft of actuators to remove lint, grease & dirt.
4. Extended actuators fully. (Do not wash as this removes fine layer of oil).
5. Correct operation of all bed functions including castor locking.
6. Check all accessories including rails are still functioning properly.
7. Check all pivot points on the bed for wear. Replace pivot pins or bolts and removable bushes (where fitted) if a pivot has a significant play.
8. Check all functions still run smoothly.

**ANNUALLY:**

- Professional service of product to be carried out annually & documented in 'Record of Performed Service Procedures and Regular Service Maintenance in the back of this instruction manual.

## CLEANING

- Cleaning can be done often - using domestic detergents.
- Do not use acids, alkaline or any other chemical solvents
- When cleaning actuators, disconnect from mains power before wiping down with a moist cloth.
- When cleaning, be careful of entrapment, as it could cause physical injury.

# FITTING THE BI-FOLD GATES

## CONTENTS LIST

- 2 x end boards
- 4 x gates
- 4 x M10x20 button head bolts
- 4 x M10x40 button head bolts
- 4 x M10x75 hex head bolt
- 12 x steel flat washer
- 12 x M10 nylon washer
- 4 x 1/2 inch steel flat washer

## TOOLS

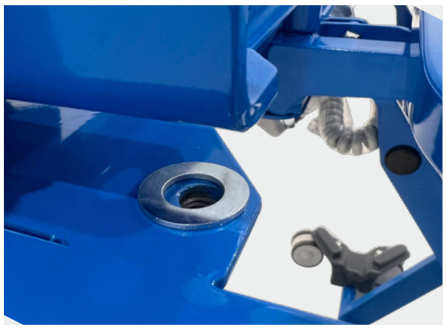
- 6mm Allen Key
- 15mm Spanner
- 16mm Spanner

## INSTRUCTIONS

**Note:** (Please pair gate identification stickers when fitting bi-fold gate to the Nino - please use the drawing on the next page.)

### STEP 1

Place end board at head end of bed with the laminate/padding facing in.



### STEP 2

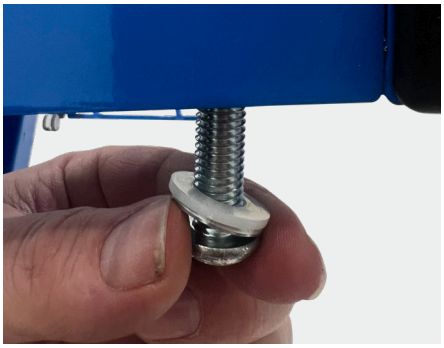
Place 2 x 1/2 inch steel flat washer over the pre drilled holes in the corner of each side of the frame and sit the bed head on top.

### STEP 3

Secure M10x20 button bolt with steel washer then nylon washer into the pre drilled holes at each side of the bed frame (don't fully tighten).

### STEP 4

Insert 2 M10x75 Bolts with steel & nylon washer through the pre cut holes in back of the head board frame (don't fully tighten).

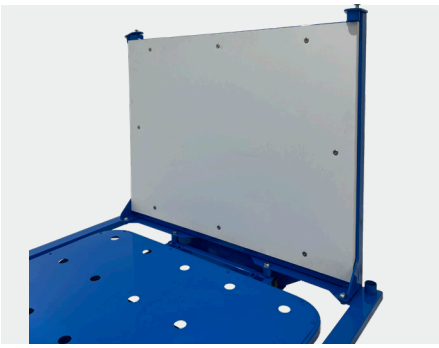


### STEP 5

Insert 2 M10x40 Bolts with steel & nylon washer through the pre cut holes in the under side of the head board frame (don't fully tighten).

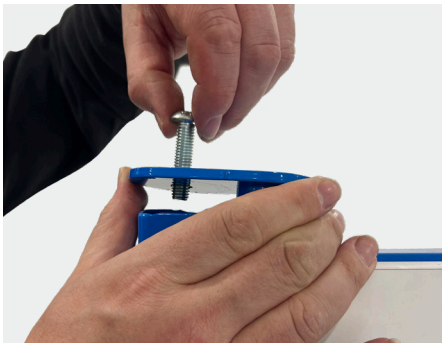
### STEP 6

Tighten all 6 bolts in previous Steps 3, 4 & 5.



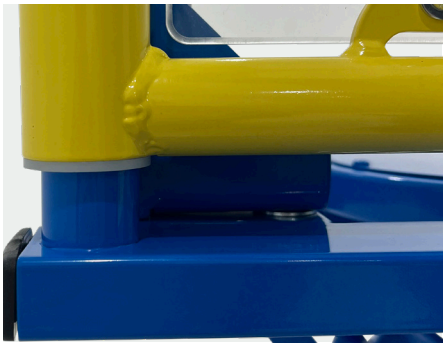
## STEP 7

Repeat steps 1-6 for the foot end board.



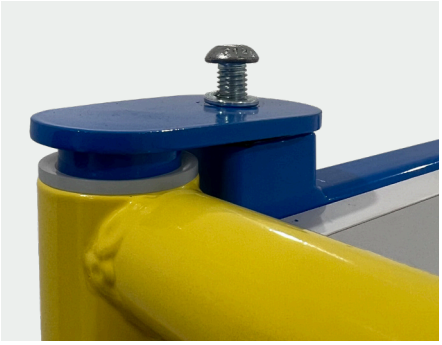
## STEP 8

Loosen gate hinge, located on each side of the end board.



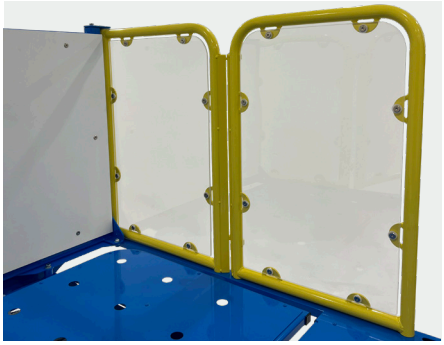
## STEP 9

Slot gate over hinge pin located on the bed frame.



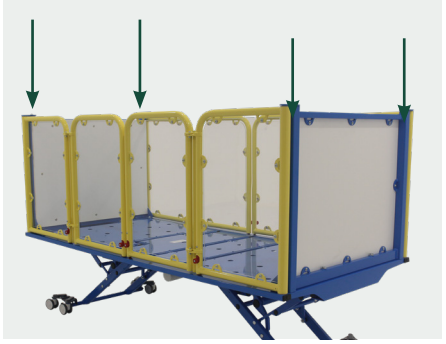
## STEP 10

Place hinge into tube at the top of the gate and secure loosely with provided bolt.



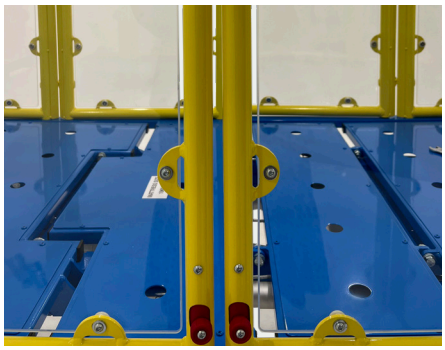
## STEP 11

Repeat steps 8, 9 & 10 for the remaining 3 gates.



## STEP 12

Tighten all hinge bolts.



## STEP 13

Check the gates sit parallel and tighten bolts on hinges until parallel.

## STEP 14

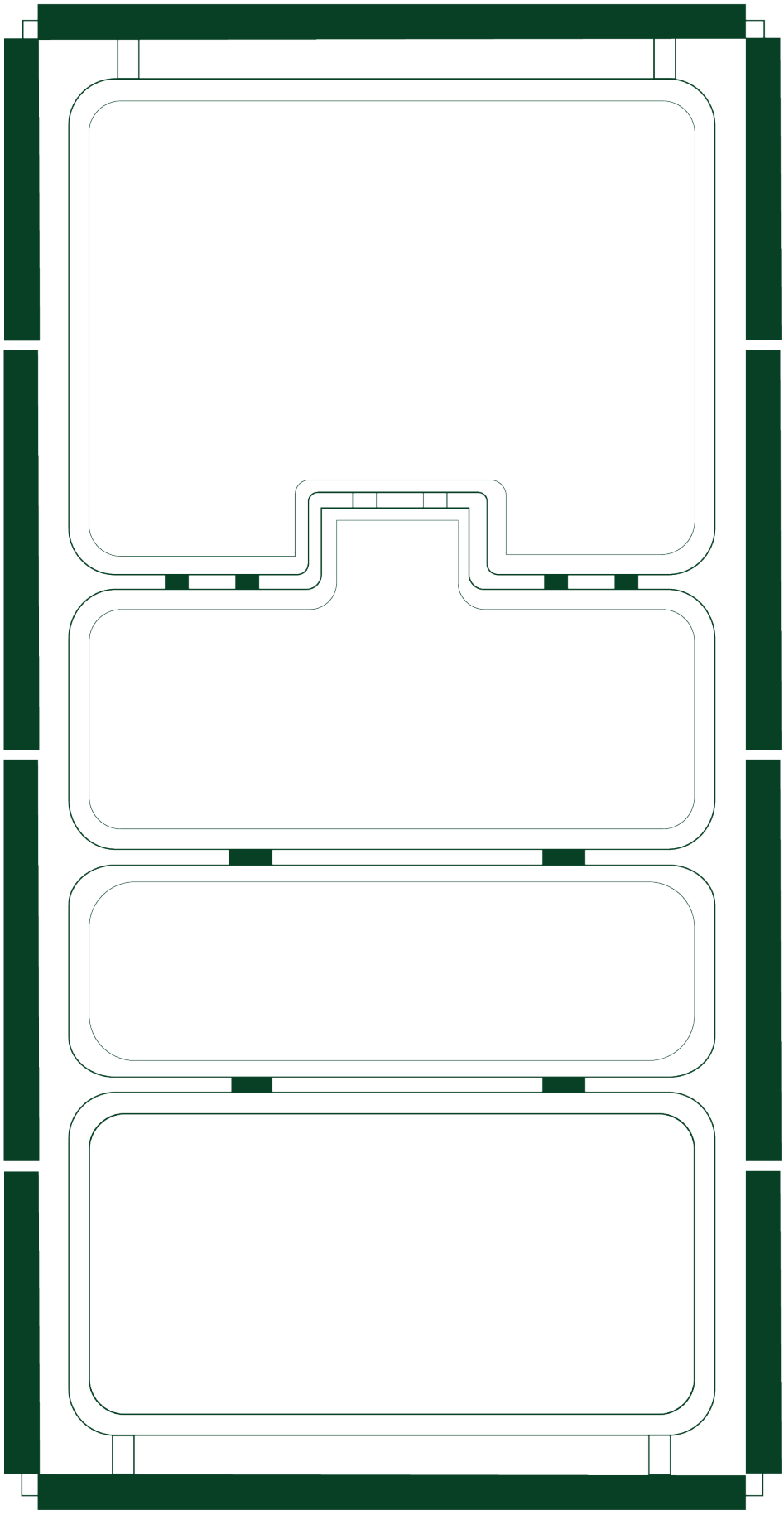
Gently swing gate to see if it's free from hitting & latches on easily. Adjust as needed by rotating top hinge (outwards to lift gate and inwards to lower gate).

## BI-FOLD GATE CONFIGURATION

**Head End**

**RG1H**
Right Hand
Gate 1
HeadEnd

**LG1H**
Left Hand
Gate 1
HeadEnd



**RG2F**
Right Hand
Gate 2
Foot End

**LG2F**
Left Hand
Gate 2
Foot End

**Foot End**

1800 282 001

# RESET/INITIALISATION

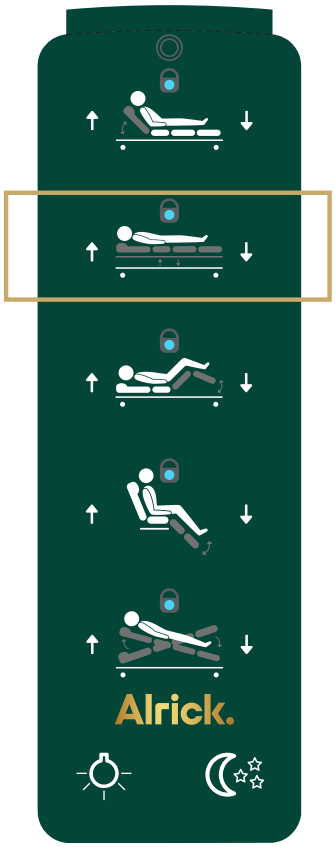
This function must be performed when running the application for the first time, when replacing a Control Box or actuator or when adding to or removing an actuator from the application.

First stage the CB will automatically detect which actuators are connected to the system and run them through a cycle of setup. If one of the HILO or BACK actuators are not working, the control box will buzz ENDSTOP ERROR or FATAL ERROR. If the setup us not completed, some (or all) functions may be disabled.

## RESETTING THE BED FITTED WITH A CO71 LINAK SERIES CONTROL BOX

Press both Hi-Low buttons (up and down) together.

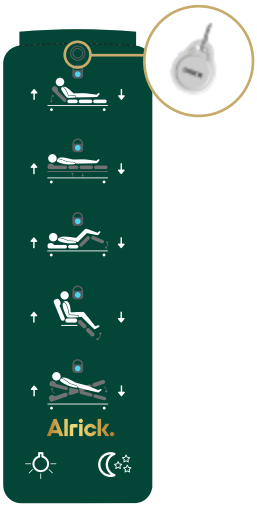
- It will beep for 5 to 10 seconds.
  **Don't let go of the buttons once the beeping has stopped.**
- After another 10 sections, the bed will start to rise, it will go right into the maximum height and return to the minimum height.
  **Throughout this process, don't let go of the buttons.**
- Once at the lowest position, the back and knee function motor will retract right in, once this is complete, you will hear a double beep.
  **Only let go of the buttons once you have heard the double beep.**



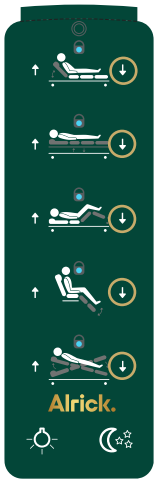
## LOCKING AND UNLOCKING LOCK OUT FUNCTIONS (optional)

**HB400 HANDSET:**

1. Locate the fob over the top of the handset as shown.




2. Then press the down key of the function to be locked out or unlocked. When locked, the LED function will be illuminated.

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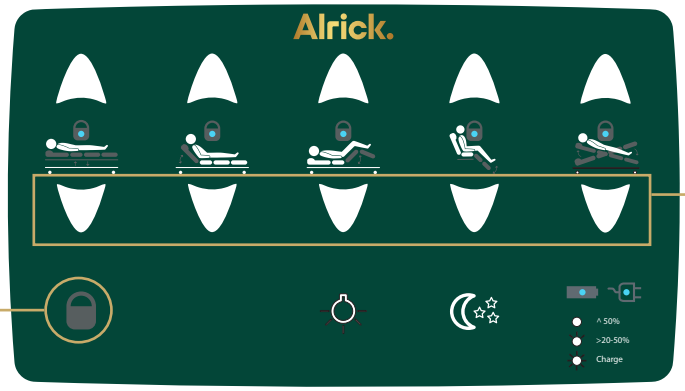
**ACOM ATTENDANT CONTROL:**




1. Press and hold the key button.

2. Then press the down key of the function to be locked or unlocked.

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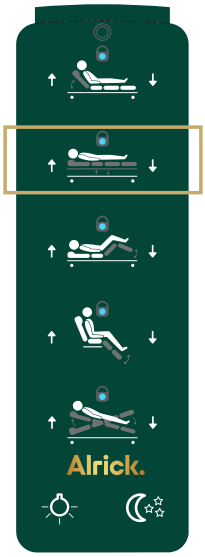
## RESETTING THE BED FITTED WITH A CO71 LINAK CONTROL BOX:

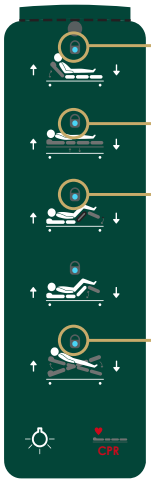



Press both hi-low buttons (up and down) together

- **It will beep for 5 to 10 seconds**
  - don't let go of the buttons once beeping has stopped.
- **After another 10 seconds the bed will start to rise, it will go to the maximum height and return to the minimum height.**
  - through this process don't let go of the buttons
- **Once at the lowest position the back and knee function motor will retract right in, once this is complete, you will get a double beep.**
  - only let go of the buttons once you have heard these beeps

# TROUBLESHOOTING

## TROUBLESHOOTING WITH A HB400 HANDSET:




Lock LED flashing on backrest function - issue with either the backrest actuator or cable.

Lock LED flashing on hi-low function - issue with the head end hi-low actuator or cable.

Lock LED flashing on the kneebreak function - issue with the kneebreak actuator or cable.

Lock LED flashing on tilt function - issue with either the foot end hi-low actuator or cable.

**If all LED lights are flashing - issue with either handset or the cables connecting it to the control box.**

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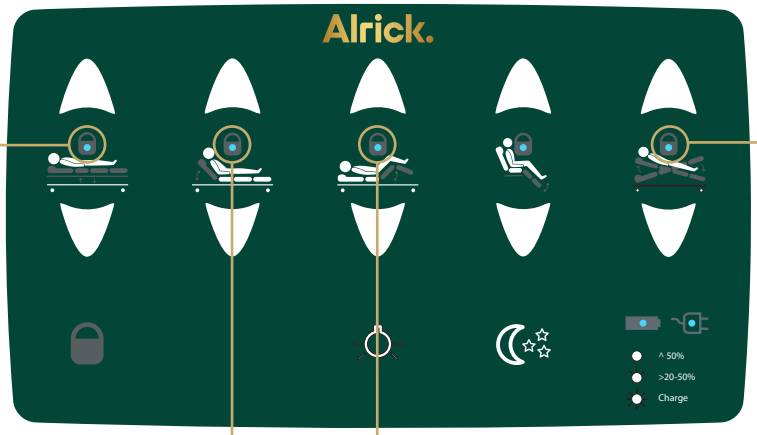
## TROUBLESHOOTING WITH ACOM ATTENDANT CONTROL:

If all LED lights are flashing - issue with either handset or the cables connecting it to the control box.




Lock LED flashing on hi-low function - issue with the head end hi-low actuator or cable.

Lock LED flashing on tilt function - issue with either the foot end hi-low actuator or cable.

Lock LED flashing on backrest function - issue with either the backrest actuator or cable.

Lock LED flashing on the kneebreak function - issue with the kneebreak actuator or cable.

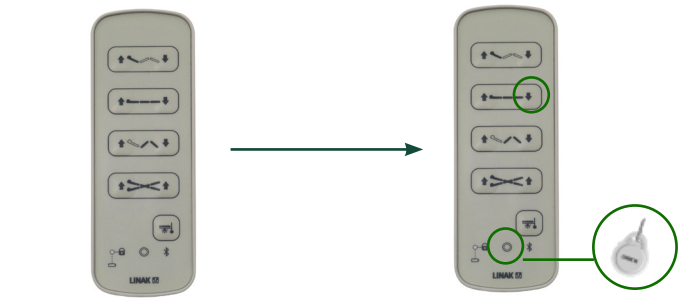
# PAIRING BLUETOOTH DEVICES (optional)

## DIRECT PAIRING

Direct Pairing is used for pairing a LINAK control directly to a LINAK control box that supports BLE.

1. Enter pairing mode
2. Move the hand control closer to the control box you want to pair it with
3. Pair the hand control with the control box

## ENTER PAIRING MODE

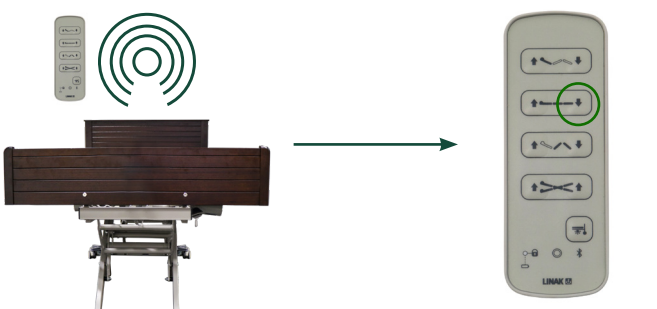


Place the magnet key over the **Hall Element** (O) and press **Hi-Lo Down Button** for 3 seconds to enter the pairing mode.

When in pairing mode, the control box buzzer will begin to beep, and the LED will begin to blink. The control unit LED will also begin to blink with the same frequency as the nearest control box.

*In pairing mode, the light/sound frequency will increase when the HB200 gets closer to a control box.*

## CONNECTING TO THE CONTROL BOX



*Press KEY 1 to connect the hand control box*

When the hand control LED is blinking fast and the control box gives a high frequency sound in the same speed, the devices are ready for pairing. To finalise the pairing, press **Hi-Lo Down Button** on the hand control. Then, adjust your application with the handset.

## TROUBLESHOOTING

| ENGINEER AND SERVICE - FAULT FINDING | | |
|---|---|---|
| **Problem** | **Cause** | **Remedy** |
| No functions | No power to system | Check the mains and/or battery connections |
| No functions LED indication ON | Possible loose connection | Check handset/foot switch connections |
| Actuator will drive OUT but not IN | Position lost on actuator | Try initalisation procedure, if problem persists, replace actuator |
| Actuator will drive IN/OUT. Intermittent beeping from control box when button is pressed. | - Cable to actuator disconnected or faulty<br>- Actuator is faulty | - Replace faulty component<br>- Perform reset and initalisation procedure |
| One or more actuators stop while driving | Actuator is overloaded | Reduce or remove load on chair and try again |
| HILO columns will not drive IN/OUT | - Cable to column disconnected or faulty<br>- Column is faulty | - Replace faulty component<br>- Perform manual reset procedure |

## OPEN BUS DO'S AND DON'TS

1. Before connecting or disconnecting OPENBUS TM accessories or handsets to/from the system:
   - Disconnect the CB from mains power.
   - Wait at least two minutes after the last key press.
2. Only connect the specified type of Actuator to the appropriate port on the CB, refer to section 'System Overview' and section 'Assembly'.
3. Only connect the specified handset to the system, refer to section 'Assembly'.
4. Wait at least 2 minutes after the last key press before removing the BA18xx battery from the system. Otherwise battery operation may be blocked for 30 minutes.
5. Do not connect/disconnect an actuator while pressing any keys on the handset or foot switch.
6. Use O-rings on all connectors and secure all connectors/cables with cable locking devices supplied.
7. Use blind plugs with O-rings to seal any unused ports on the CB ard junction boxes.
8. Do not stretch or unduly strain any of the cables and connectors.

## RECORD OF PERFORMED SERVICE PROCEDURES AND REGULAR SERVICE MAINTENANCE

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| RECORD OF PERFORMED SERVICE PROCEDURES AND REGULAR SERVICE MAINTENANCE | | |
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I confirm that technical staff have undertaken the repairs as described in the Record of Performed Service Procedures and Repairs Maintenance, and the equipment is now functioning properly.

Date_____ Customer Signature _____

## ALRICK NINO BED WARRANTY

**CONDITIONS**
Your Alrick NINO Bed is guaranteed for 10 years on the frame from the date of purchase, 5 years on the electrics (LINAK), 1 years on castors, and 1 year on the battery. Professional service of product to be carried out annually and documented in the 'Record of Performed Service Procedures and Regular Service Maintenance. This warranty applies only on the parts manufactured or approved by Active Medical.

**EXCLUSIONS**
This warranty does not extent those items that may need replacement due to normal wear and tear, or to damaged caused by misuse or accident, for which Active Medical or it's distributors cannot be held responsible.

If your bed should need attention due to failure as defined under the warranty above, please contact the distributor from whom you purchased your bed.

Please fill in the below and retain for your own records.

| | |
|---|---|
| **Date Purchased** | |
| **Model** | |
| **Serial Number(s)** | |
| **Distributor** | |
| **Distributor Address** | |
| **Distributor Contact Number** | |

# ACCESSORIES

Mattresses

EN T-Bar Buffer

**Warranty:** 12 Months

Emergency Bed Power Unit

**Warranty:** 12 Months

Issue Date: 291024
Revision Date: 110626
V5

Alrick.

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