



SORRENTO
USER MANUAL

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Warnings, Cautions & Notes

Warnings given in this manual identify possible hazards in procedures or conditions, which if not correctly followed could result in death, injury or other serious adverse reactions.

Cautions given in this manual identify possible hazards in procedures or conditions, which if not correctly followed could result in equipment damage or failure.

Notes given in this manual are used to explain or amplify a procedure or condition

WARNING

Do not use accessories that have not been designed or approved for use with the bed.

Electrical equipment can be hazardous if misused.

Do not use electrically powered beds in the presence of flammable gases such as anesthetics agents.

1. Introduction

The **Sorrento** is an electrically actuated nursing home and community care bed with multiple functions to aid the best nursing position for both patient and care giver.

The following features, dependent upon the bed configuration, are available within the range:

- Four section electrically operated profiling mattress platform with independent adjustment of backrest angle, thigh section angle and calf section angle.
- Height adjustment.
- Manually operated calf elevation.
- Integral mattress platform extension.
- Detachable 3/4 length folding safety sides.
- Steel sheet mattress support surface.
- 100mm or 125mm individual locking castors, 125mm or 150mm castors with central operation for braking and steering.
- Choice of removable head and foot panel designs.
- King Single - extra wide mattress platform.



2. Clinical Applications

Area of Use

General medicine, general and specialist surgery, care of the elderly, community care and nursing homes.

Indications

The use of the bed is to assist in patient positioning whilst reducing lifting and handling stresses for the care giver.

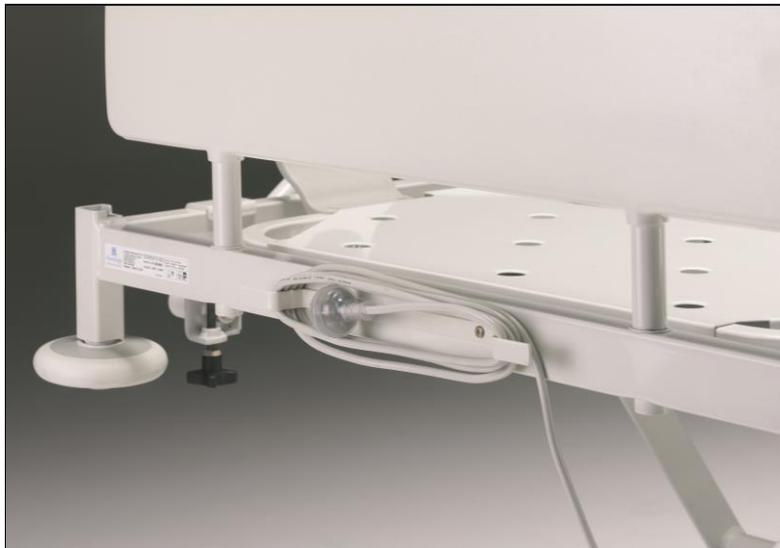
Contra-indications

The total safe working load of the bed is 200kg

3. Installation

Connect the electrical power cable to a suitable socket outlet.

Wrap the electrical cable around the cable retainer only when the bed is in transportation. The cable retainer is located at the head end of the bed.



WARNING

Make sure that handsets and electrical power cables cannot become entangled with moving parts of the bed.

Disconnect the electrical power cable from the mains supply and store before transporting the bed.

4. Operations

Safety

- Always use a mattress of the correct size and type. A range of suitable pressure reducing and pressure relieving mattress are available from ArjoHuntleigh.
- When the bed is operated, make sure that obstacles such as bed side furniture do not restrict movement.
- Before operating the bed, make sure the patient is positioned correctly to avoid entrapment or imbalance.
- Always apply the brakes when the bed is stationary.
- Lower the bed to minimum height when the patient is left unattended.
- Keep these instructions handy for reference.

Brakes and Steering

Central Operation

There are two coupled brake pedals at the foot of the bed. When they are pushed down from the horizontal free position they operate all brake castors simultaneously.

When the linked pedals are raised from the horizontal free position they engage one head-end castor so that it cannot swivel. Push the bed in the direction of travel so that the castors are all in-line and trailing, then lift either pedal to engage the steering castor.

For easy access of brake/steer pedals it is imperative to apply brakes before lowering the bed to its extreme low position, and raising the bed before attempting to release the brakes or engaging track lock (steer) so that the bed can be moved.

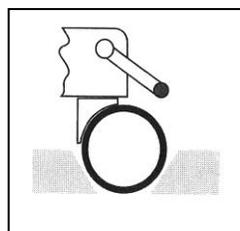
WARNING

**Brakes should be activated at all times whilst bed is stationary.
Track lock will self-disengage when fully lowered.**

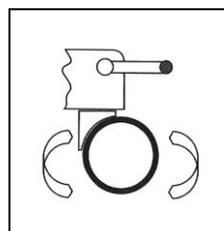
Individual Operation

To operate braking, push down on the brake lever on each castor.

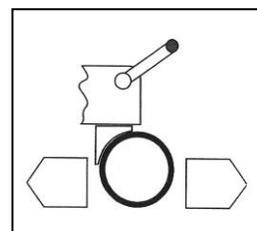
When moving the bed, push from the foot-end holding the foot panel.



Brake



Free



Steer

Castors, brakes and steering

Safety Sides

WARNING

Safety Sides must only be used with an ArjoHuntleigh mattress of correct size which is approved for use with the bed. Maximum mattress thickness should be 170mm.

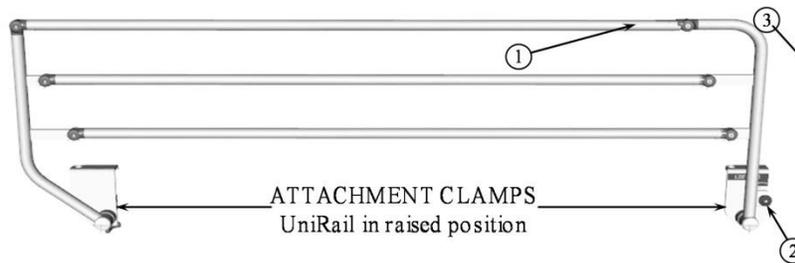
The Clinically qualified person responsible should consider the age, size and condition of the patient before using Safety Sides.

WARNING



ENTRAPMENT
HAZARD
REFER
USER GUIDE

Safety Side contact points are identified by this symbol. Care should be taken to keep hands and fingers away from these areas.



Operation

To raise the Uni-Rail Folding Safety Sides: From the collapsed or closed position simply lift the top rail until the operating knob automatically clicks into its locked position at maximum height.

The Safety Side release mechanism contains a yellow band (1) When the operating knob is viewed from above, if the yellow band can be seen it is an indication that the Safety Side is **NOT** securely locked in the upright position.



The Safety Sides are supplied in pairs, left and right and must be fitted in such a way that they fold down toward the foot of the bed. They are attached to the side of the mattress platform by means of clamps.

WARNING

Do not leave the Uni-rail Safety Side in the upright position with yellow band showing.

Caution

Do NOT use Safety Sides to lift or move the bed.

Bed extension (optional)

To extend the bed: Apply the brakes, pull the latch lever (1) and pull out the foot-end of the mattress platform (3)

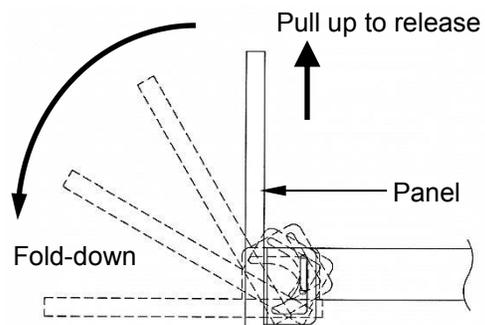


Fold Down Foot Panel (optional)

The Fold Down Foot Panel is to be strictly used as a bed stripper only, and should be returned back to its upright position thereafter

To fold down; pull up Panel to release and slowing lower down to a horizontal position.

To raise; slowly lift Panel to a vertical position ensuring it is securely locked once upright.



WARNING

Fold Down Foot Panel Safe Working Load is 20kg

Calf Adjustment

The calf adjustment can be manually adjusted whenever the thigh section of the mattress platform is raised.

Adjusting the calf angle:

Holding the mattress retainer (located on the footrest frame at the end of the bed) lift the panel upwards to lock the foot panel at any angle the catch allows.

To release the panel, pull up to its full extension and then lower slowly.



Operation

The bed height, backrest angle and leg elevation functions are all electrically operated using control handset.

To operate a function, press and hold the appropriate pushbutton until the desired position is achieved. To stop at the required position release the button. The Auto-contour button operates both backrest and leg elevation simultaneously.

WARNING

Some functions may cause injury to the patient if unintentional movement occurs.

WARNING

If the Handset is dropped to the floor, caught between bed parts or sustains any damage or suspected damage in any way, immediately stop using the Handset and perform the full Handset Checks as detailed in Section 6 – Maintenance.

Handset

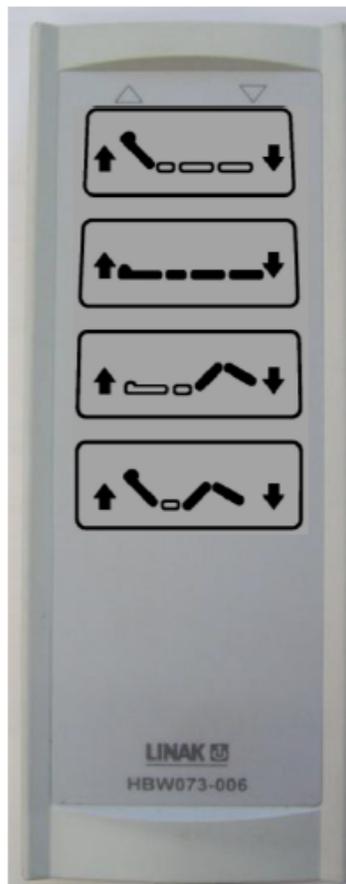
Handset is accessible to either the patient or the nursing attendant. From this handset the patient can control all bed functions as illustrated below.

Backrest Raise

Bed Height Raise

Leg Elevation Raise

Auto-contour Raise



Backrest Lower

Bed Height Lower

Leg Elevation Lower

Auto-contour Lower

Batteries (battery back-up model only)

The emergency back-up battery automatically switches on if the bed is disconnected from the mains power supply. The batteries will enable emergency power operation for short periods of time. To ensure the batteries are kept fully charged the bed must be connected to the mains power supply at all times during normal use.

Patient Transfer

If the patient is to be transferred by means of a patient hoist, the bed will need to be raised enough to allow hoist access underneath the bed.

WARNING

Bed functions, particularly Hi-Lo are not to be used during patient transfer.

5. Cleaning

Warning

Disconnect the bed from the mains power supply before cleaning. Gloves and protective clothing should always be worn when carrying out cleaning procedures.



These instructions also apply to accessories but not to mattresses.

Wipe all surfaces with a soft cloth moistened with hot water and mild detergent (or the hospital's recommended cleaning solution). Take extra care with areas that may harbor dirt or dust. Rinse with clean water and dry with a paper towel.

To remove potentially infectious material such as body fluids, or even when the bed has been used by somebody with a known infection, clean afterwards with NaDCC (e.g., Presept, Actichlor) at 10,000 ppm of available chlorine. Rinse and dry.

Caution

**Do not use abrasive compounds or pads.
Do not use hypochlorite or phenolic cleaning solutions.**

6. Maintenance / Troubleshooting

The following preventative maintenance procedures should be carried out at intervals of 12 months or as specified.

All service or repair activities must only be performed by properly qualified and trained persons who are approved by ArjoHuntleigh.

Disposal of product and components should be compliant with local regulations.

Warning

Disconnect the bed from mains power supply before starting any maintenance activity.

The bed will still operate on battery backup power if handset buttons are pressed (battery backup model only).

General

Examine the bed for obvious signs of damage. All aspects of the equipment should operate as intended. Make sure that all nuts, bolts and other fastenings are tight and are not missing.

Examine flexible cables for cuts, abrasions, kinking or other deterioration. Make sure that the electrical power cable plug is not damaged. If either the plug or cable is damaged then both the plug and cable must be replaced as a complete assembly by an approved service agent.

Individual Locking Castors

Routine checks should be carried out every six months on the castor assemblies checking for looseness and general wear and tear. To do this, apply the brakes and lift the bed off the floor. Castors should be securely fixed within the castor tubes.

If a problem is found, re-tighten the castor fixing bolts.

Castors and Brakes

Apply the brakes and push the bed forwards. If any of the three or four braking castors rotate, the brake is not fully effective.

Check the steering lock for efficient operation (central operation only).

If either the brakes or the steering lock (central operation only) are not working as they should, contact an approved service agent.

Batteries (Battery back-up only)

If a beeping sound is heard when operating the bed it means that the battery is at low charge. Re-connect the bed to a mains power supply for a minimum of 24 hours so that the batteries can recharge,

Check the battery condition every six months using the following procedure: Make sure that the bed has been connected to the mains power supply for an uninterrupted 24 hour period.

1. Disconnect the bed from the mains supply.
2. Apply a load of 80 kg to the mattress platform.
3. Raise and lower the mattress platform from minimum to maximum height, three times.

Lifting Poles

Examine the handle and strap for signs of damage, fraying or loose stitching. Replace the strap and handle if either are faulty.

Safety Sides (if fitted)

Raise the Safety Side to the upright position until the operating knob clicks into place at maximum height. Refer to section 4 of this manual for Safety Side operation.

Make sure the yellow band (1) on the operating knob **CANNOT** be seen.

The yellow band should **NEVER** be visible from above when the safety side is correctly in the locked position.



Safety side operation knob shown in unlocked and locked

If the yellow band is visible when the Safety Sides are in a raised and “locked” position, contact ArjoHuntleigh for service advice. See the Warranty and Service section.

Inspect Safety Sides for wear and tear on fittings including pivot joints and clamp brackets every six months. The locking pin mechanism and striker plate should be inspected every three months. Check for rust, structural integrity of welds and paint finish every twelve months.

HANDSET Checks

Between each patient, ArjoHuntleigh strongly advises that the Handset is visually inspected for obvious damage before each use if practicable and that Preventative maintenance checks are conducted on the handset. When using a specific function staff should be aware of, and checking for, any of the symptoms listed in point 3 below.

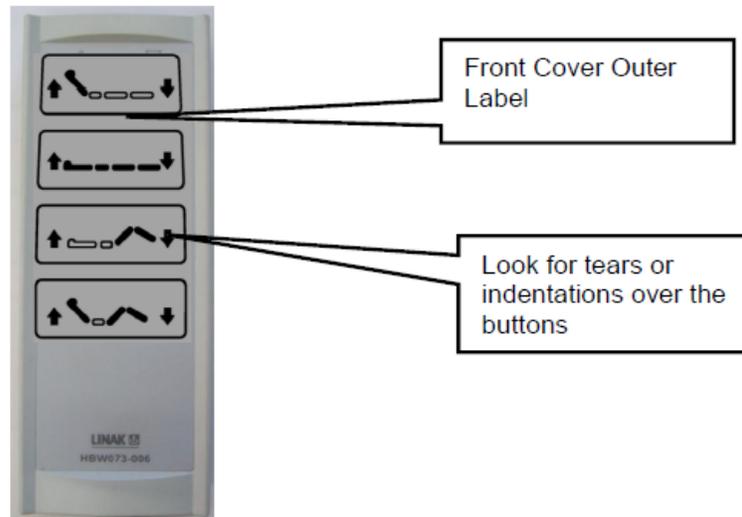
Preventative Maintenance Checks

ArjoHuntleigh recommends that the full check and testing regime is conducted between each bed use or worst case during annual Preventative Maintenance. This should take no more than one (1) minute to complete.

1. Visual inspection of handset casing

1.1 Inspect the outer plastic casing for any obvious cracks or damage.

1.2 Inspect for damage to the front cover (outer label) particularly over the buttons where the label may be torn or indented.



If any damage is identified while conducting checks 1.1 and 1.2, immediately
Quarantine the bed and report the damage to maintenance staff or replace the Handset.

2. Visual inspection of the cable and Cable insulation:

2.1 Inspect the cable for any nicks or cuts in the insulation

2.2 Inspect for any evidence that the cable may have been squashed or flattened.

Squashed or flattened cables may indicate a possible break in the internal conductors or insulation causing conductors to short together which could cause unwanted movement of the bed. Any handsets are found with obvious damage to the cable insulation, immediately report the damage to maintenance staff or replace the Handset.

3. Tactile inspection of the buttons:

All buttons should be operated and response tested.

Depress each button on the handset. Each button should have a positive audible click that is also felt. The function being pressed should also operate.

If the button:

- Does not have a click feel
- Does not have an audible click sound
- Does not immediately operate the function
- Feels soft offering no resistance
- Feels different to the rest of the buttons
- Travels further when depressed

Immediately quarantine the bed and report the damage to maintenance staff or replace the Handset, otherwise contact an ArjoHuntleigh approved Technician.

Troubleshooting

The following table identifies some fault symptoms, their possible cause and suggests some simple checks and corrective actions. If these actions fail to solve the problem consult the ArjoHuntleigh Service Department on Freecall 1800 072 040.

Symptom	Possible Cause	Action
All actuators fail to work	Power disconnected or batteries discharged (battery backup models only)	Ensure mains supply lead is connected
	Handset disconnected	Check the handset plug is fully inserted in the control box
	Blown fuse	Contact ArjoHuntleigh Service Department on 1800 00 ARJO (2756)
	Damaged handset cable	Replace handset
One actuator does not work	Actuator plug disconnected	Check the actuator plug is fully inserted in control box.
Brakes or steering lock not effective	Wear or damage	Adjust or replace castor

7. Accessories

Description	Product Code
Pentaflex bolster	SQB1
Pentaflex pressure mattress 1980 x 880 x 170mm	PM1
Clamp-on ¾ length folding safety rails	UNI-FSR
IV Pole – Straight	93011755
Self help pole with handle	SHP-SS38

8. Warranty & Service

ArjoHuntleigh's standard terms and conditions apply to all sales. A copy of the document is available upon request. The document contains the full details of warranty terms and conditions and does not limit the statutory rights of the consumer.

For service, maintenance and any questions regarding this, or any other ArjoHuntleigh product, please contact:

ArjoHuntleigh
FreeCall: 1800 072 040
Service Hotline: 1800 00 ARJO (2756)

9. Dimensions and Electrical Data

Dimensions

Overall Length	2145mm
Extended	2325mm
In-bed length	2035mm
Extended	2215mm
Overall width (incl. buffers)	1015mm
	1145mm - King Single

Height to mattress platform	
100mm single castors	265 to 660mm
125mm single castors	295 to 695mm
150mm single castors	320 to 715mm

Deck angles (Max.)



Mattress Size

1980 x 860 x 150 - 170mm	Standard
1980 x 1010 x 150 - 170mm	King Single
2070 x 880 x 150 - 170mm	Four Seasons range
2070 x 1010 x 150 - 170mm	Four Seasons KS range

Product weight (approx.)

Without safety sides	110kg
	116kg - King Single
With safety sides	128kg
	134kg - King Single

Safe Working Load

200kg

Electrical Data (230V)

Power in	2 Amp Max. at 230V~, 50Hz
Duty Rating	Intermittent 10%, Max (2min/18min)
Electrical Safety Standards	Complies with EN60601-1/ UL60601-1
Electrical Shock Protection	Class 2
Liquid Ingress Protection	IP54
Batteries (battery back-up only)	2 x 12V series connected batteries Sealed, rechargeable lead/acid gel 1.2 amp hrs.

10. Transportation and Storage

Handle with care. Do not drop. Avoid shock or violent impact.

The equipment should be stored in a clean dry and well ventilated area. The following limits apply during transport and for a storage period of up to 15 weeks.:

Ambient temperature:	-25°C	to	+70°C
Relative humidity:	10%	to	75%
Air pressure:	50k Pa	to	106kPa

The following limits apply to operating conditions on longer periods of storage:

Ambient temperature:	+10°C	to	+40°C
Relative humidity:	30%	to	75%
Air pressure:	70k Pa	to	106kPa

Storage for beds with battery back up

When storing the bed, or when the bed is not in use for long periods of time it is recommended that the beds battery power capacity is topped up periodically following the guidelines set out below.

Storage Temperature

Charging Interval

20°C or less	Charge batteries for 24 hours every 9 months
20-30°C	Charge batteries for 24 hours every 6 months
30-40°C	Charge batteries for 24 hours every 3 months

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As our policy is one of continuous improvement, we reserve the right to modify designs
without prior notice.