



## **Nivano battery powered height adjustable changing table**



**IMPORTANT  
READ THIS  
MANUAL  
BEFORE USE**

# **User Manual and Installation Instructions**

### **Guarantee**

This product is guaranteed against all defects in manufacture for a period of one year

This does not affect your statutory rights

Warranty Number:



# Operating instructions Nivano height adjustable changing table

## Product description.

The Nivano CTb is powered by a 24 Volt battery.

The changing table is intended for showering and changing children and adults, weighing up 135 KG, the changing table must not be used for any other purpose.

## Carry out the following checks daily; before using the changing table.

Check the changing table battery is fully charged.

Check there are no obstructions or items that may be trapped when the changing table is operated.

Check the changing table will raise and lower properly using the handset.

Check the function of the bed retaining catch.

## Instructions for use.

Before use check that the changing table will lift and lower using the handset.

### Adjusting the height of your changing table

The changing table is operated with a two-button handset. Pressing one of the buttons will either raise or lower the changing table as required.

Position the table at a convenient height to transfer the client.

### Using the platform

To release the changing platform push down the green latch on the right hand side of the platform. Once the latch is released, rotate the platform forward into a horizontal position. To stow the platform simply rotate the bed upwards until the bed is parallel with the cover, the latch will engage and will stop the bed from falling forward.

### Caution

The heavy use of oil based products may adversely affect the white stretcher material. Oils and other petrochemical products should be used sparingly and any residue removed immediately.

These products include : Baby oil and emollient creams,

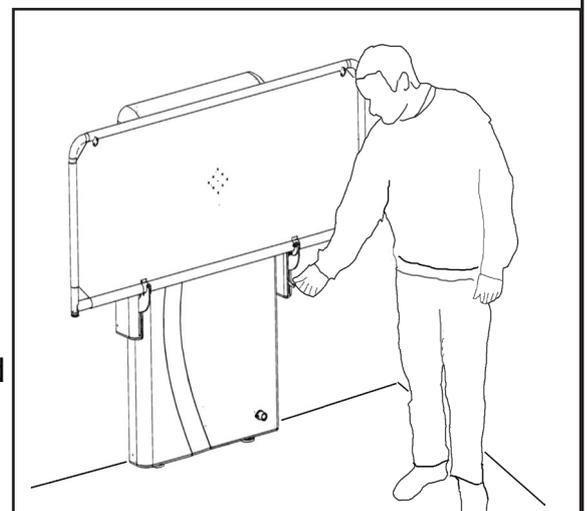
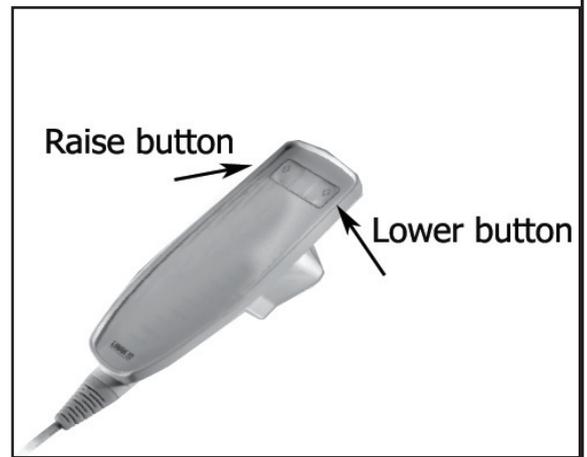
### Battery usage

When required the battery can be recharged by removing the battery from the unit and recharging using the remote charging station.

To remove the battery grasp as shown in the picture and lift upwards,

### If the system fails to raise or lower.

Check you are using a fully charged battery. If the battery is O.K then the bed may be lowered by using a pen tip or similar small round end implement to press the Emergency lowering button in the control box.



### Using the HT Vinyl bed with backrest.

Before transferring the patient to the bed preset the backrest to the desired position by lifting the back rest to the desired height and locating the support into the retaining rack, ensure the bar is secure and will not slip when the patient leans against the backrest.

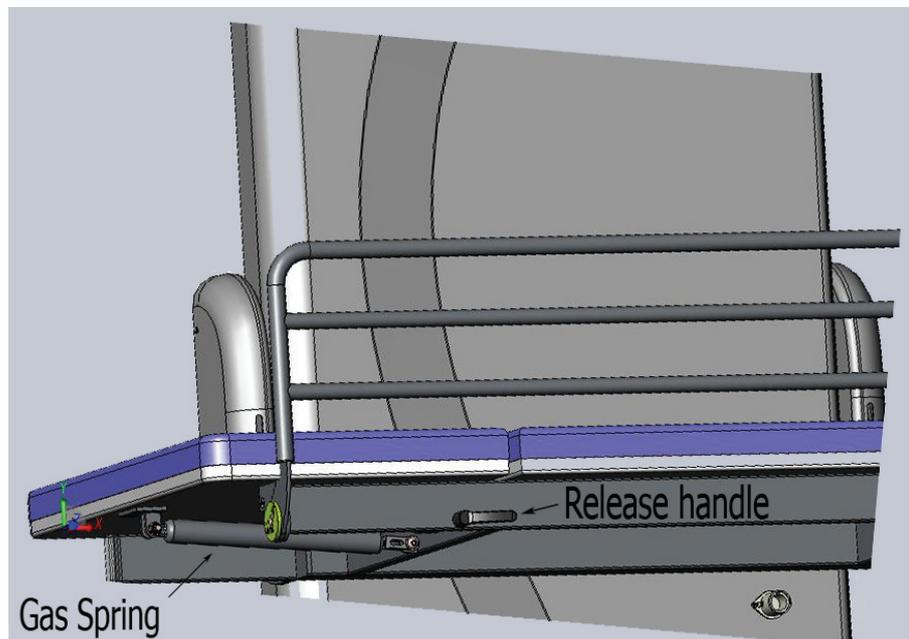
If adjustments are required the patient should sit forward and not lean on the backrest as it is adjusted.



### Operation of the padded bed backrest

Before transferring the patient to the bed preset the backrest to the desired position by turning the operating handle and raising the backrest against the pressure of your hand.

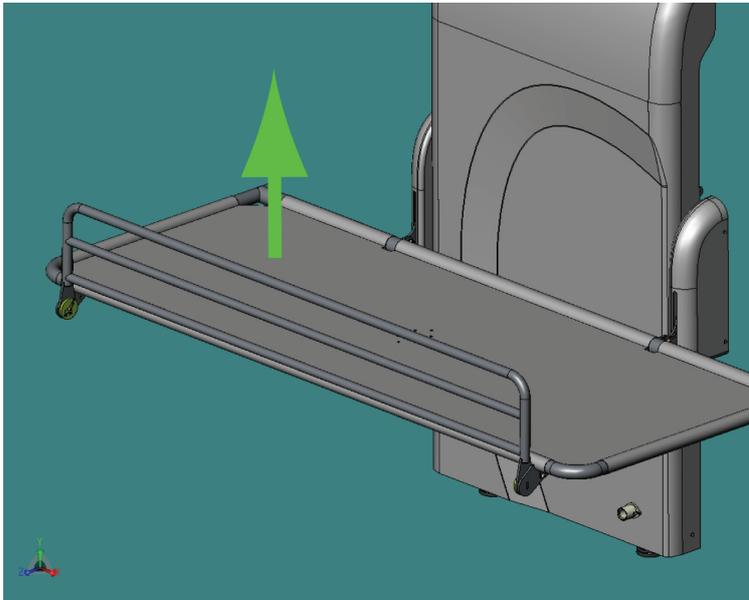
Small adjustments may be made with the patient in position, always ensure the patient is sufficiently supported before making any adjustments.



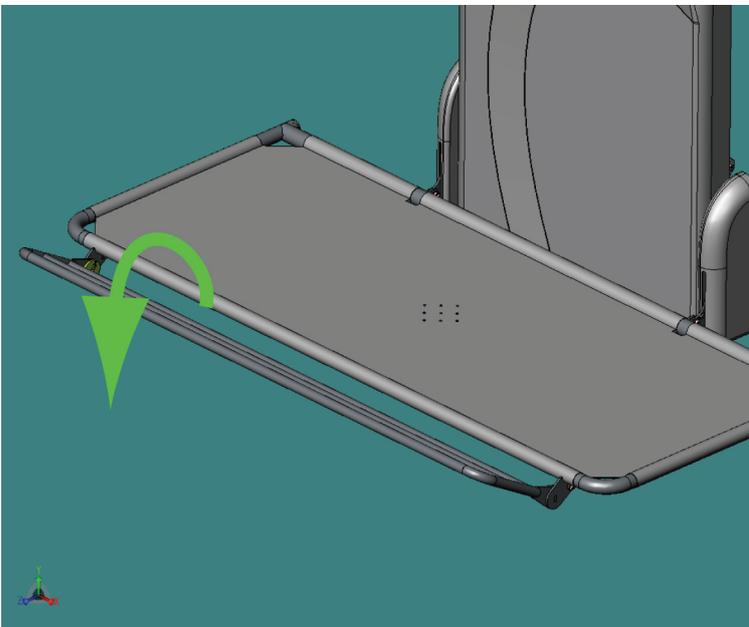
## Operating the guard (where fitted)

### Folding the guard

Lift the guard upwards

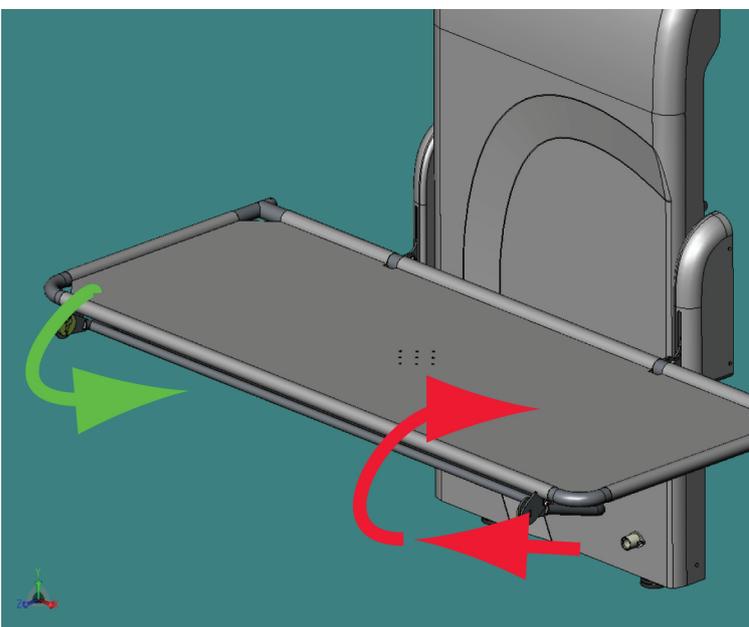


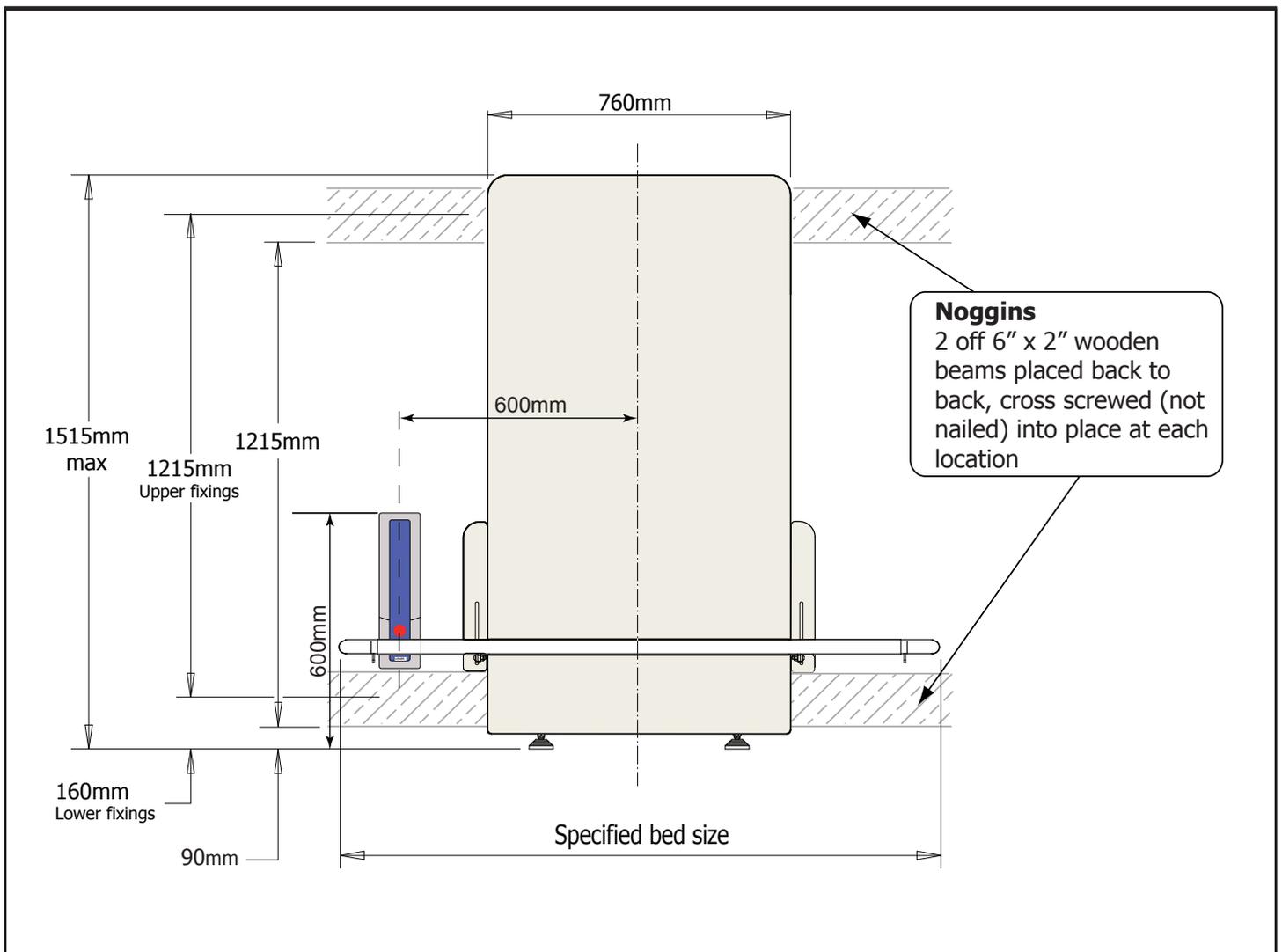
Then rotate it towards you and then fold under the bed.



It will then lock under the bed.

To replace the guard lift it slightly towards you, it will then release, rotate upright and drop into position





### Electrics.

The Nivano is supplied with a 24v Control/Battery Box and Charging Station. The Control/Battery Box is fixed adjacent to the table spine and the Charging Station is situated away from the unit in a convenient place for re-charging the batteries.

### Fixing.

The Nivano is fixed to the wall but also rests on the floor. The wall to which it is fitted should be load bearing (i.e. strong enough to carry a 100kg load on each wall fixing), flat and free from obstruction from floor level to 1550mm above the floor and a minimum of 50mm wider than the specified bed size. If the Nivano needs to be fitted to a stud wall, the wall will need special reinforcement; either noggins as shown above; or 25mm (1 inch) marine or exterior plywood, secured every 200mm, should be used to cover the area behind the unit and extend 100mm either side of the unit. The plywood support must be in contact with, and supported by the floor.

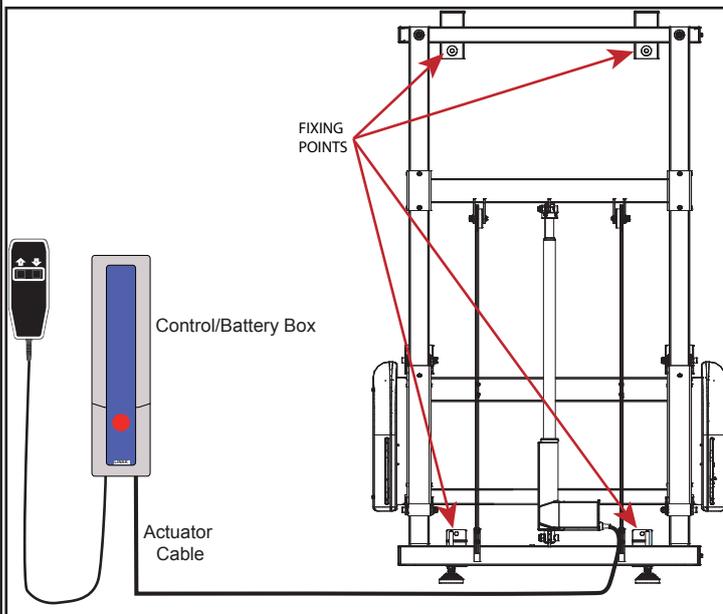
**Please Note: Due to the complexity of different building methods Astor Bannerman do not supply installation fixings and anchors.**

### Contents of Packages.

Nivano rise and fall assembly.  
 Battery/Control Box.  
 Bed assembly & Fixing bolts  
 Front cover.  
 LH & RH side covers  
 2 button handset.

Battery Charging Station  
 Handset retaining Bracket.  
 Plastic rivets.  
 User manual and installation instructions

# Installation Instructions.



## Installing the main frame.

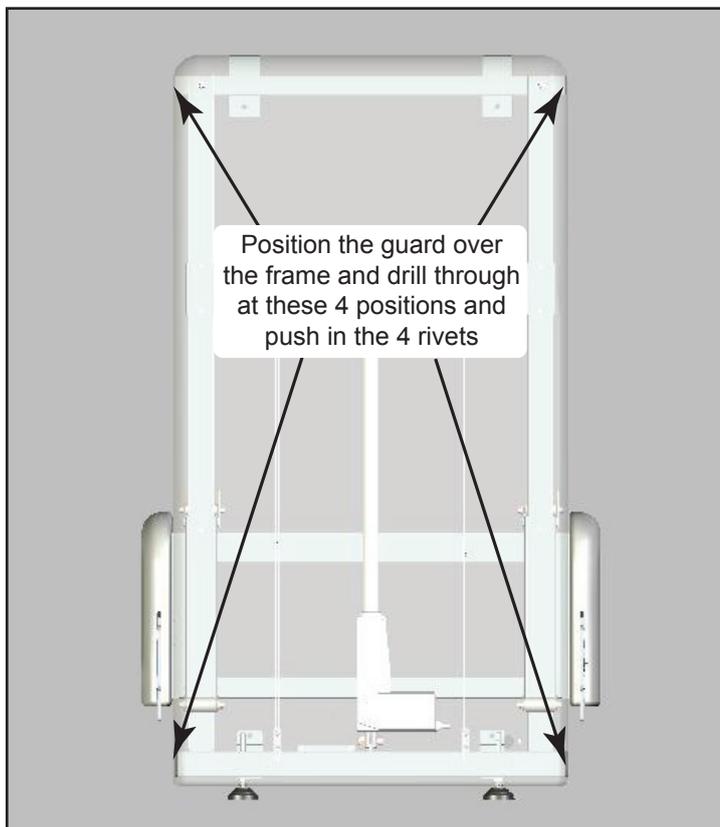
- Place the rise and fall unit against the wall in the required position, adjust the feet to level the unit at the required height and secure the foot locking nuts.
- N. B. The height of the feet affects the final position to which the bed will raise or lower.
- Mark through the four fixing points in the frame.
- Fix the unit securely to the wall.
- Fix the Control/Battery Box to the wall at the position shown.
- Feed the cable from the actuator along the bottom rail of the fixed frame and secure it with cable ties.
- Connect the Handset to the Control Box.

## Fitting The Cover

Position the main cover to fit neatly over the plastic bungs in the sides of the frame. It should rest with the top edge sitting on top of the two bungs in the frame of the unit.

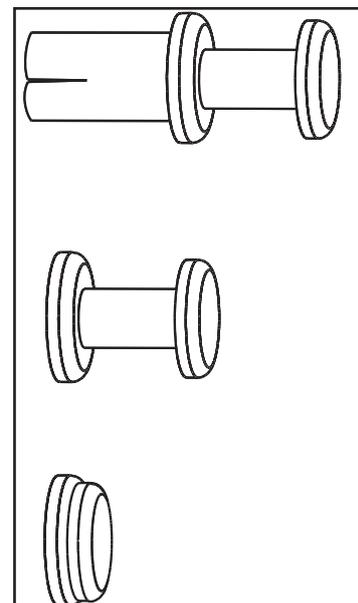
Drill four 4mm holes into the plastic bungs in the frame ends through the existing cover holes, in order to fit the plastic rivets that retain the cover.

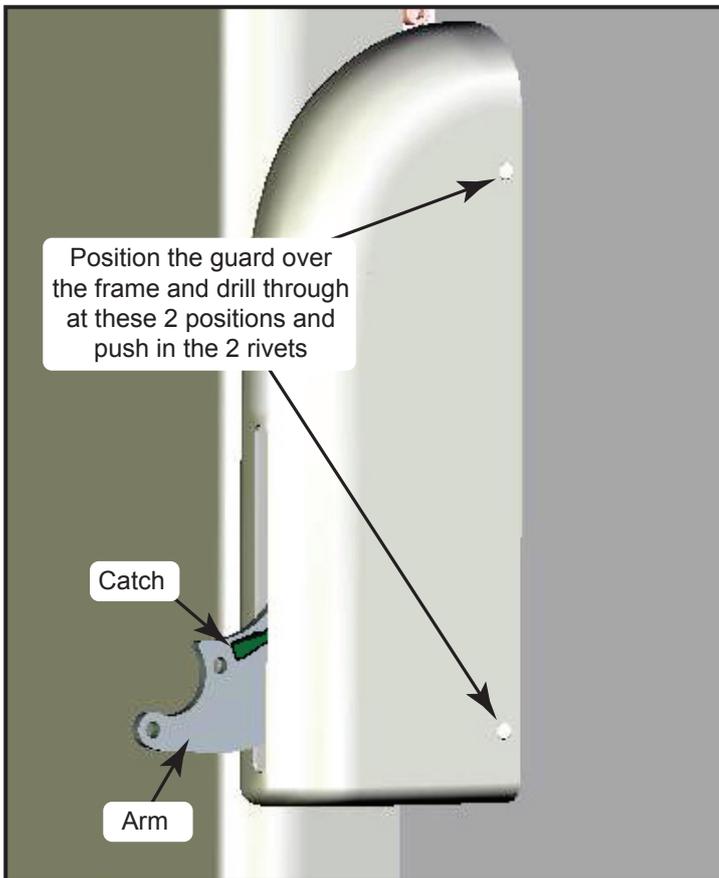
Locate the rivet bodies in the holes, then push each of the mushroom portions of the white plastic rivets into the rivet body. This will require a firm push, the mushroom is fully seated once the base of the mushroom head is flush with the cover.



## Rivet Fitting

N.B. Do not separate the two parts of the rivets. Place the rivet through the cover into the drilled hole and then press the mushroom head firmly in flush with the cover.





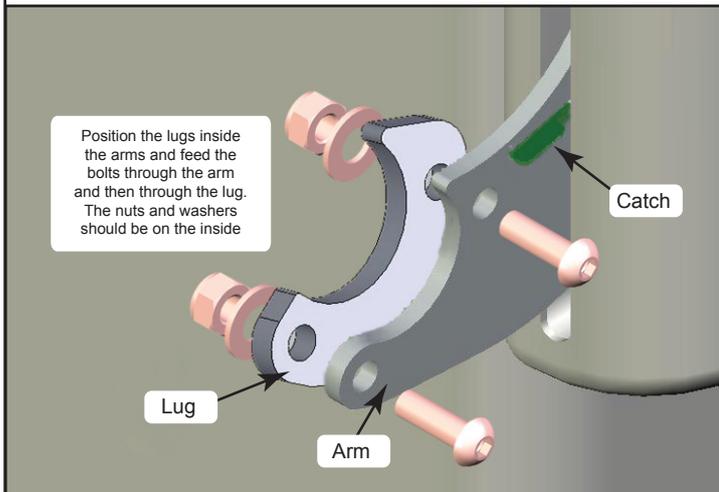
### Fitting The Arm Covers

Slide the Arm Cover over the arm and catch on the right of the spine (the arm and catch fit through the slot in the cover) and position it so that the arm and catch can move freely. It should rest with the right hand side of the cover sitting on top of the two bungs in the frame of the unit.

Drill four 4mm holes into the plastic bungs in the frame ends through the existing cover holes, in order to fit the plastic rivets that retain the cover.

Locate the rivet bodies in the holes, then push each of the mushroom portions of the white plastic rivets into the rivet body. This will require a firm push, the mushroom is fully seated once the base of the mushroom head is flush with the cover.

Repeat this procedure for the other side, there is no catch on the left side.

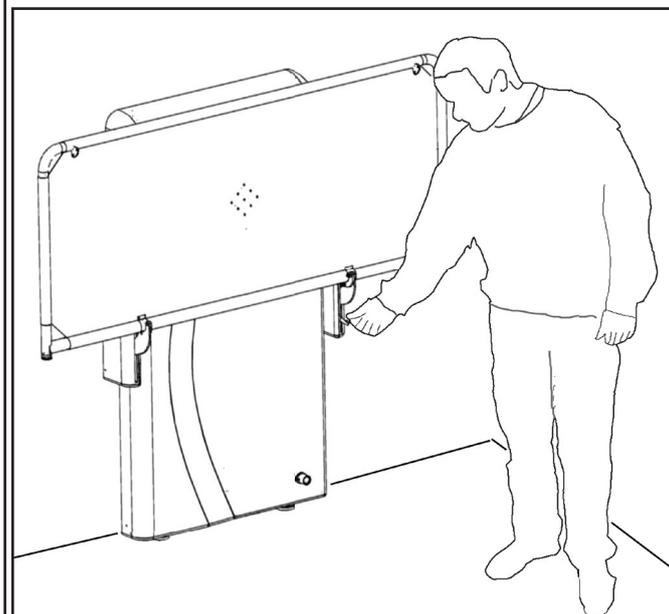


### Fitting the Stretcher.

The Stretcher is fitted in the vertical (stowed) position.

Unpack the Stretcher and locate the fixing screws.

Lift the Stretcher into position with the top surface facing the wall and the guard, if fitted, hanging down on the outside. Ensure the lugs on the Stretcher are inside the arms on the frame. It will rest inside the radius of the arm. Align the holes and fit the securing bolts. (4 x M8 domed hex head screws). Feed the bolts out to in with the nuts and washers on the inside of the lugs.



To fold the stretcher down, push it gently towards the spine and depress the green lever on the right of the unit, lower the bed to the horizontal position.

Fold the stretcher into its stowed/upright position and check that the lock lever engages and retains the bed in the upright position.

Check the guard rail operates correctly. (If fitted)

Lower the bed, protect the covering and using calibrated weights, Load test the installation to 1¼ times the safe working load.

Cycle the unit 3 times throughout the whole lifting range.

## Cleaning

The changing table may be cleaned using most mild cleaning agents.

Chemical agents and solvents must not be used, i.e. drain cleaners, acetone, oven cleaners or acids.

The changing table should be cleaned using a warm soapy solution and rinsed with a damp cloth.

Attention should always be paid to instruction labels for the cleaning agent.

## Technical Specification.

Maximum patient weight: 135 Kg

Duty cycle: 10%, Maximum 2 min/18 min

IP Rating: IP X4

Supply voltage: Battery:24V dc

Power consumption battery charger 400 mA

Dry weights:

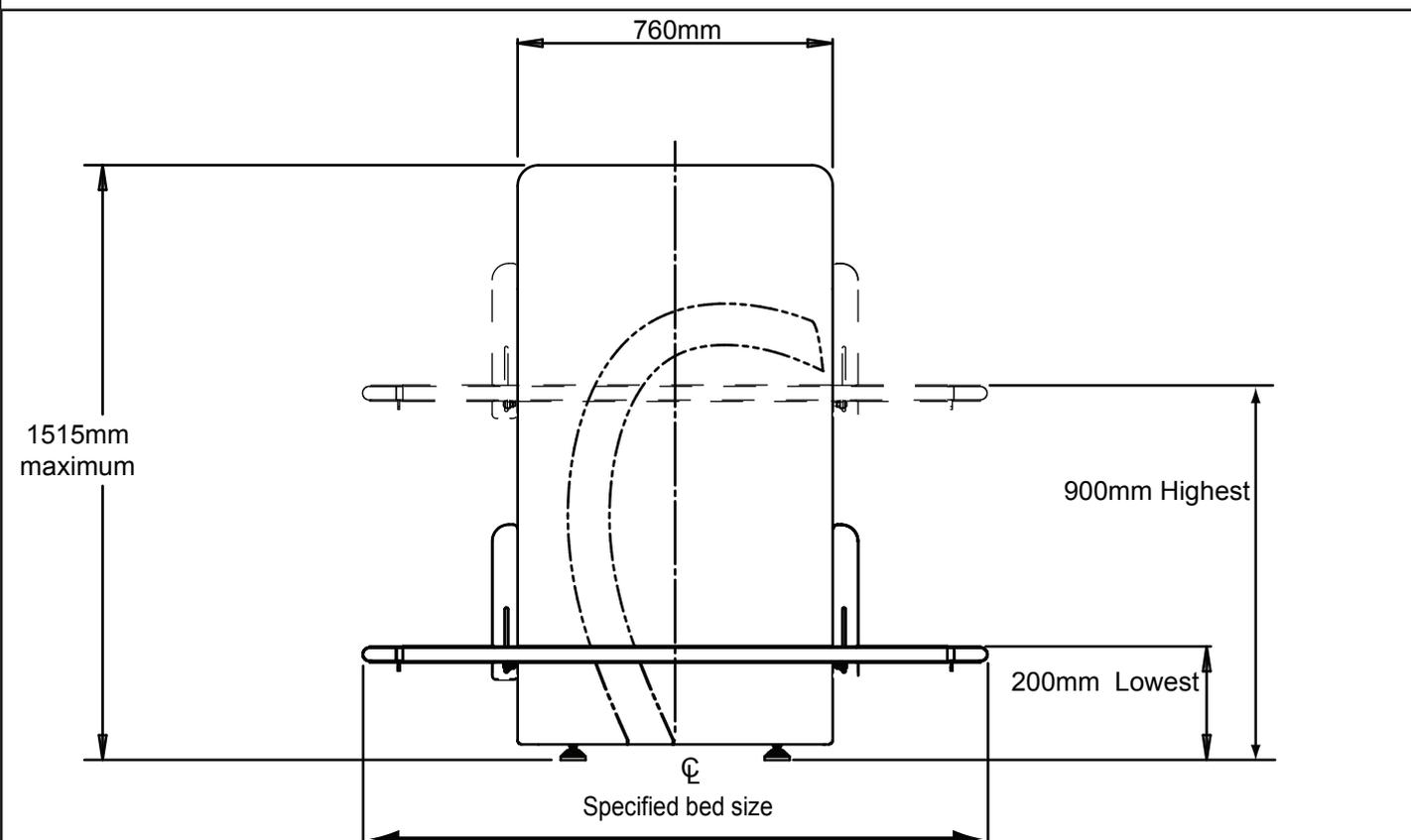
Lifting spine 38.5 kG.

1700mm high tension stretcher 18.5 kG

1700mm high tension stretcher with back rest and guard 20.2 kG

1700mm Padded bed 32.5 kG

A weighted sound emission <70dB(A)



The changing table is intended for showering and changing children and adults, weighing up to 135 KG, the changing table must not be used for any other purpose.

# Preventative maintenance.

Carry out the following checks:	Daily	Weekly	6 Monthly	Annually
Full function test of the equipment.	✓	✓	✓	✓
Check battery is fully charged	✓			
Check security of wall fixings			✓	✓
Check electrical safety				✓
Check condition of Battery			✓	✓
Carry out load test to 1 x SWL				
<b>Stretcher / Bed</b>				
Check the condition of the stretcher covering	✓	✓	✓	✓
Check the security and function of locking catch	✓	✓	✓	✓
Examine the optional guard for correct fitting and security	✓	✓	✓	✓
Examine the stretcher for wear or damage.			✓	✓
Check the stretcher is securely attached		✓	✓	✓

## Product Labels

Model: NIVANO		
CTB		
Lift range: 700 mm		
SWL 135 Kg		
24Vdc	250 VA	
IP X4		
	<small>Read Instructions before use</small> 	
		
<small>Made in England by: Astor Bannerman (Medical) Limited</small>		



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e mail: sales@astorbannerman.co.uk  
WEB: www.astorbannerman.co.uk

## CERTIFICATE OF CONFORMITY

**Manufacturers Name:** Astor-Bannerman (Medical) Ltd

**Manufacturers Address:** Unit 11F Coln Park  
Andoversford  
Cheltenham  
Gloucestershire  
GL54 4HJ

**Equipment Type:** Nivano CTb height adjustable changing table

I hereby declare that the above product conforms to the following specification:

93/42/EEC



**Signed:** \_\_\_\_\_ Technical Director

For and on behalf of Astor-Bannerman (Medical) Ltd

**Date:** 06 December 2010



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