



Astor Shower Trolley

Installation and User Guide



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Contents

1	Introduction.....	4
2	Warranty.....	6
3	Caution, Safety info	7
3.1	Regular checks.....	8
4	Finding your way round the product.....	9
5	Quick guide to operation	10
5.1	Transfers and transport	10
5.2	Emergency stop button.....	10
5.3	Lowering the side guards	11
5.4	Raising and engaging the side guards	11
5.5	Raising and lowering the trolley	12
6	Charging.....	13
6.1	Charging with the charging cable	13
6.2	Charging with the charging cradle.....	13
7	Cleaning & Care	14
7.1	Suitable cleaners and disinfectants.....	14
7.2	Cleaning the drain	14
7.3	Removing the mattress for cleaning and disinfecting.....	14
8	Troubleshooting.....	15
9	Technical specification.....	16
10	Overall dimensions	17
11	Installation	18
12	Moving and transporting the equipment.....	18
13	Product disposal	18
14	Certificate of Conformity	19
15	Replacement parts and accessories	20
16	Declaration	20
17	Service Record	21
18	Training Record	22
19	Contact details	24

Contents: Figures

Figure1	Finding the way around your product - end view	9
Figure 2/2a	Finding the way around your product - side view	9
Figure 3	Emergency stop button	10
Figure 4	Resetting the emergency stop button	10
Figure 5	Side guard plunger pin release	11
Figure 6	Lowering the side guard	11
Figure 7	Raising the side guard	11
Figure 8	Re-engaging the side guard plunger pin	11
Figure 9	Handset controls	12
Figure 10	Control box controls	12
Figure 11	Charging port	13
Figure 12	Metal release lever on battery pack	13
Figure 13	Battery in charging cradle	13
Figure 14	Charged green light indicator on charging cradle	13
Figure 15	Removing the flexible waste hose	14
Figure 16	Removing the waste drain	14

1 Introduction

The Astor Shower Trolley is designed for showering and changing in wet room environments. It has a single actuator lifting system ensuring a smooth and quiet height adjustment to enable safe transfers and appropriate carer working heights. With four twin lockable castors and side guards with a double lock mechanism, and a waterproof mattress with anti-microbial coating, hygiene and safety have been considered well within the design.

The Astor Shower Trolley also has a drain and waste hose to enable waste water from showering to be easily directed into a nearby drain or toilet.

Intended Use

No prior knowledge is required to use the Astor Shower Trolley.

The product is intended to be used by people trained or experienced in health care for a family member or client that:

- needs to be changed or cleaned in a lying position
- is older than a child able to use a standard baby changing facility
- is likely to require a hoist to transfer to the changing table

The maximum user load for the Astor Shower Trolley is 200 kg.

Operating Environment

The Astor Shower Trolley is intended to be used in an indoor facility at room temperature and is designed for showering and changing in wet room environments.

1 Introduction

Product Label



2 Warranty

Once registered, this product has a **3 year warranty** against all defects in manufacture of the product. This does not affect your statutory rights.

To **validate your warranty** and for full terms and conditions, please register your product and your details immediately:

on-line at: <https://www.astorbannerman.co.uk/services/>

email our support team: support@astorbannerman.co.uk

or **call** us on +44 (0)1242 820820

This warranty is provided by Astor Bannerman to the registered customer.

Equipment requiring commissioning must be commissioned by a competent, factory trained technician for this warranty to be valid.

To maintain the warranty, the equipment must be serviced at least on an annual basis by a competent, Astor Bannerman trained technician. Service or repairs undertaken by persons other than competent qualified technicians will invalidate this warranty.

This product has been designed using quality components and tested under standard usage conditions to give a 10 year service life based on regular servicing and average usage patterns and conditions. This does not alter the warranty offered.



Mattress and battery are covered by a 12 month warranty.

3 Caution, safety information and checks

Please read this user guide, especially the safety instructions, before using the Astor Shower Trolley. Keep the operating manual near the trolley for future reference.

- Before raising/lowering the trolley, check that the area above/below and around is free from obstructions and that nothing is caught on the trolley or the guard rails.
- Please check that the side guards are securely engaged to ensure the safety of the person being cared for.
- Never leave the person being cared for unattended on the trolley.
- For maximum stability, ensure that the person being cared for is positioned centrally in the trolley – do not allow anyone to sit at either end of the trolley.
- Take care with any sharp objects around the trolley mattress – this includes items of jewellery, such as rings.
- Only charge the battery in a suitable dry environment (see Section 6 for further detail).
- Take care when cleaning and disinfecting the product (see Section 7 for further detail).
- **The Maximum Working Load for the Shower Trolley is 200Kg**

The manufacturer Astor Bannerman shall not accept any liability for any damages, failures or faults caused by improper operation or handling.

3.1 Regular checks

Tasks to be completed:	Between Users	Daily	Monthly	Every 6 months	Annually
Disinfection of unit	✓	✓			
Check mattress is clean and undamaged	✓	✓			
Check mattress press studs securely fastened	✓	✓			
Check battery is fully charged (green light)		✓			
Check castors are clean and securely attached with no play (i.e. do not wobble)		✓			
Check castor locks operate freely		✓			
When the castor locks are engaged, do they stop the trolley moving?		✓			
Does the platform feel secure with no play (i.e. does not wobble)?		✓			
Does the trolley rise and lower smoothly - lower to its lowest point and rise to its highest point and check there are no unusual noises		✓			
Do the side guards lock securely /unlock smoothly?		✓			
Once unlocked, do the side guards swing freely?		✓			
Check the waste hose is clean with no leaks		✓			
Bungs: Check all the bungs are present - in the ends of the side and end rails and under the platform (12)			✓		
Cables: Check all cables from the battery/control unit are securely fitted and show no signs of damage			✓		
Inspect the unit for any signs of corrosion			✓		
Fixings: Inspect all visible nuts, bolts etc. to see that they have not worked loose			✓		
LOLER test				✓	
Check the battery is in good condition with no signs of being dropped or damaged					✓
Service *					✓

* To maintain your warranty, and for your safety, this product should be fully serviced annually by a competent, factory trained technician.

For further information on servicing offered by Astor Bannerman, contact:

service@astorbannerman.co.uk

4 Finding your way round the product

Figure 1

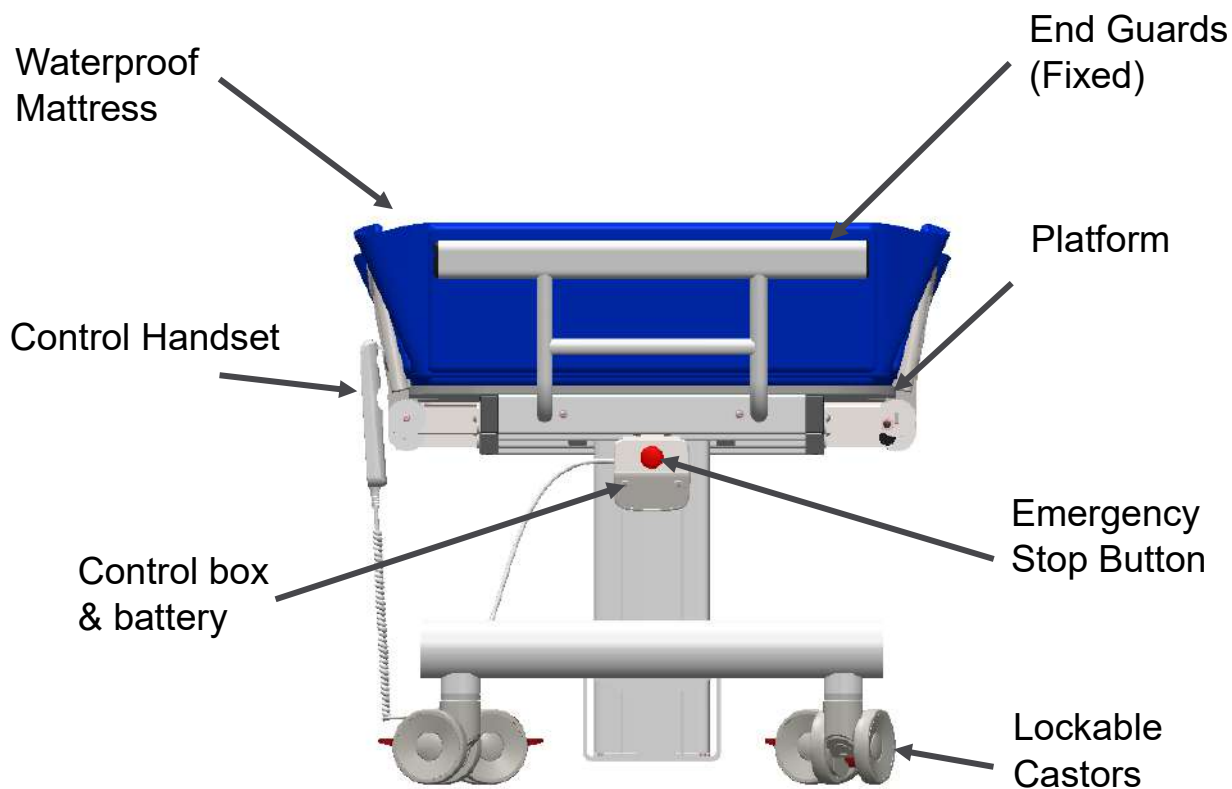
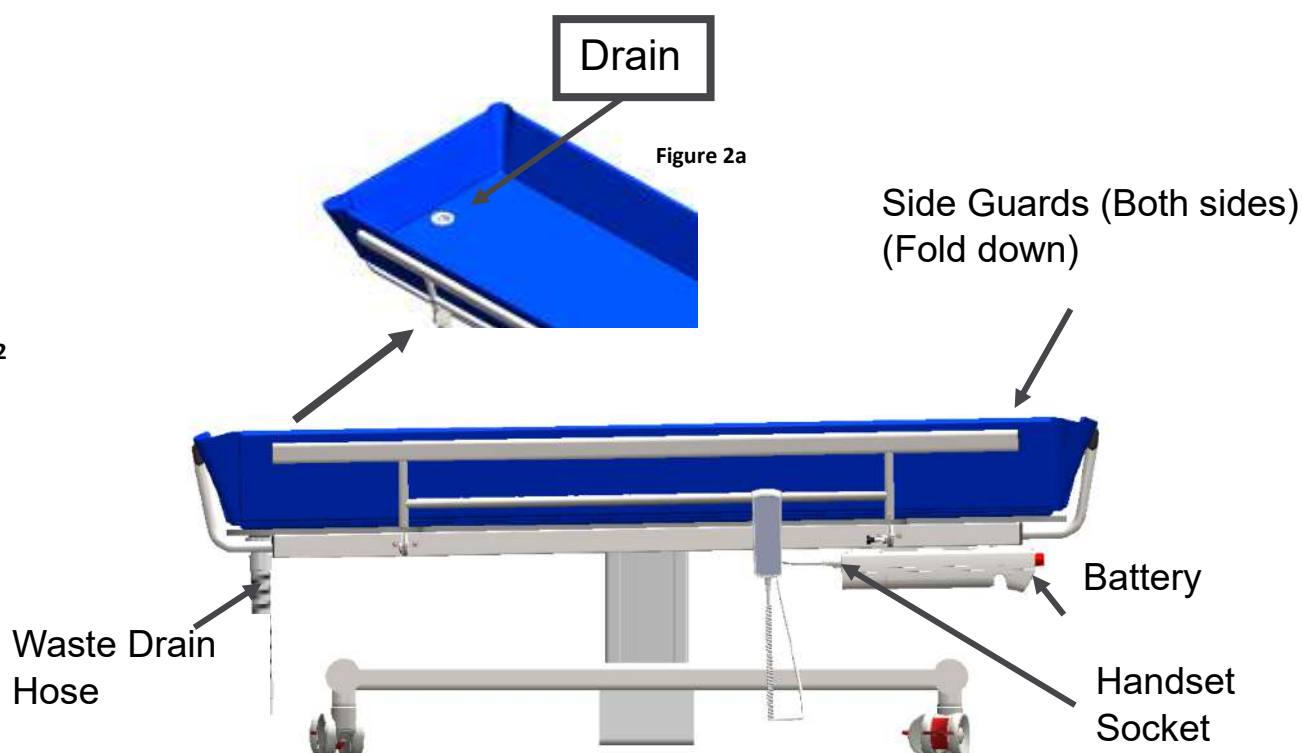
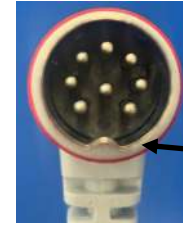


Figure 2



5 Quick guide to operation

IMPORTANT: Please insert the battery and plug in the handset to get started (see page 8)



Take care to align the pins correctly with the dimple at the bottom.

5.1 Transfers and transport

Prior to transferring someone onto or from the Trolley it is important to:

- ⇒ ensure all four of the trolley's castors are locked
- ⇒ set the trolley to a comfortable working height for transfer
- ⇒ release and fold down the guard rail on the transfer side

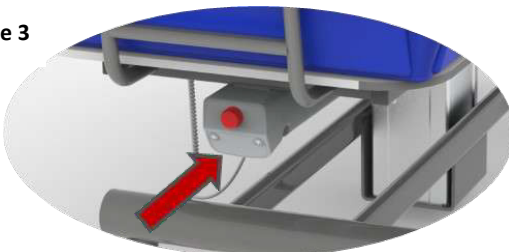
Please follow current moving and handling best practice for transfers and use an appropriate transfer method.

The guards/hand rails may be used to manoeuvre the trolley. Ensure there are no obstacles or debris in the way before moving the trolley.

5.2 Emergency stop button

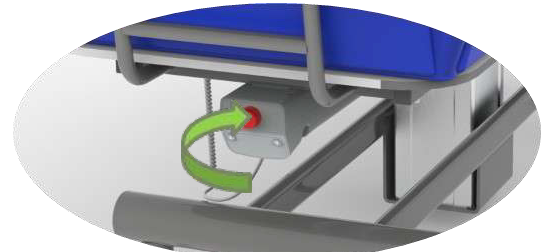
The emergency stop button is a large red button located on the control box, underneath the trolley platform (see figure 1 for location). It is intended to be used in an emergency situation to immediately stop the trolley moving up or down until the emergency stop button is reset (see figures 3 & 4).

Figure 3



Push in red button
for emergency stop

Figure 4



Twist clockwise and
release to reset

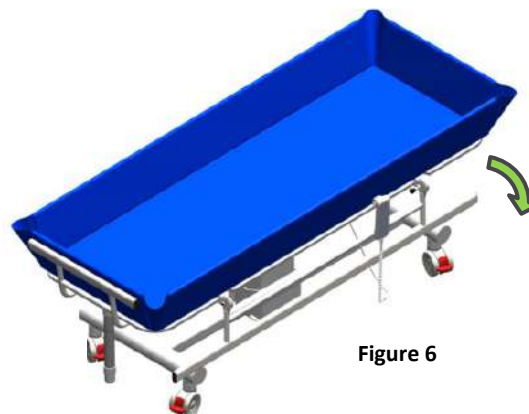
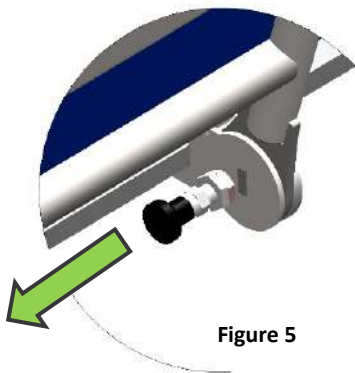
5 Quick guide to operation

5.3 Lowering the side guards

The side guard on the transfer side will need to be folded down prior to making a transfer.

To lower a side guard:

- ⇒ Release the lock by pulling out the black plunger pin (See Figure 5)
- ⇒ Lift the guard up
- ⇒ In the same movement, continue to rotate the guard round to fold down in front of the trolley (See Figure 6)

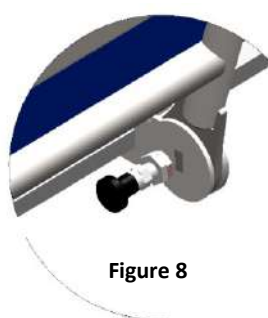


5.4 Raising and engaging the side guards

The side guards should be engaged as soon as any transfer onto the trolley is complete.

Raise the guard of the trolley into the upright position and it will naturally drop it into the lock. (See Figure 7)

The plunger pin will **CLICK** into place. (See Figure 8). Always check that the guard is secure and is locked.



Pin will **CLICK**
into place

CAUTION:

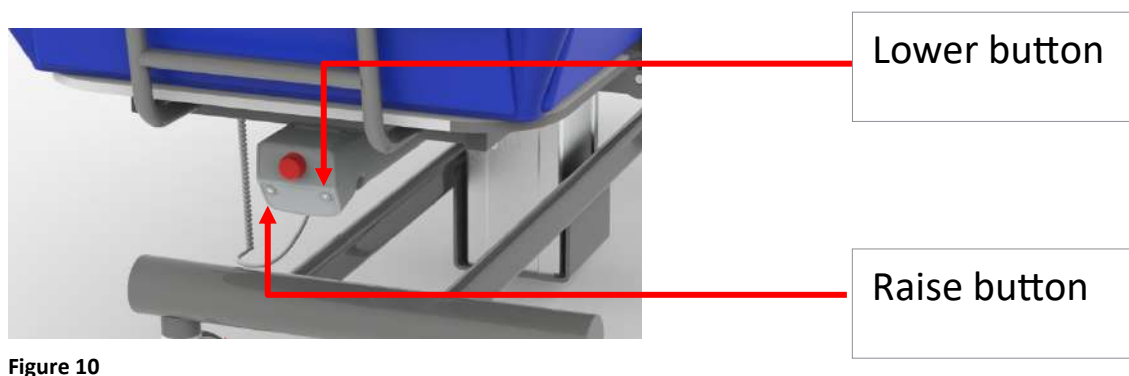
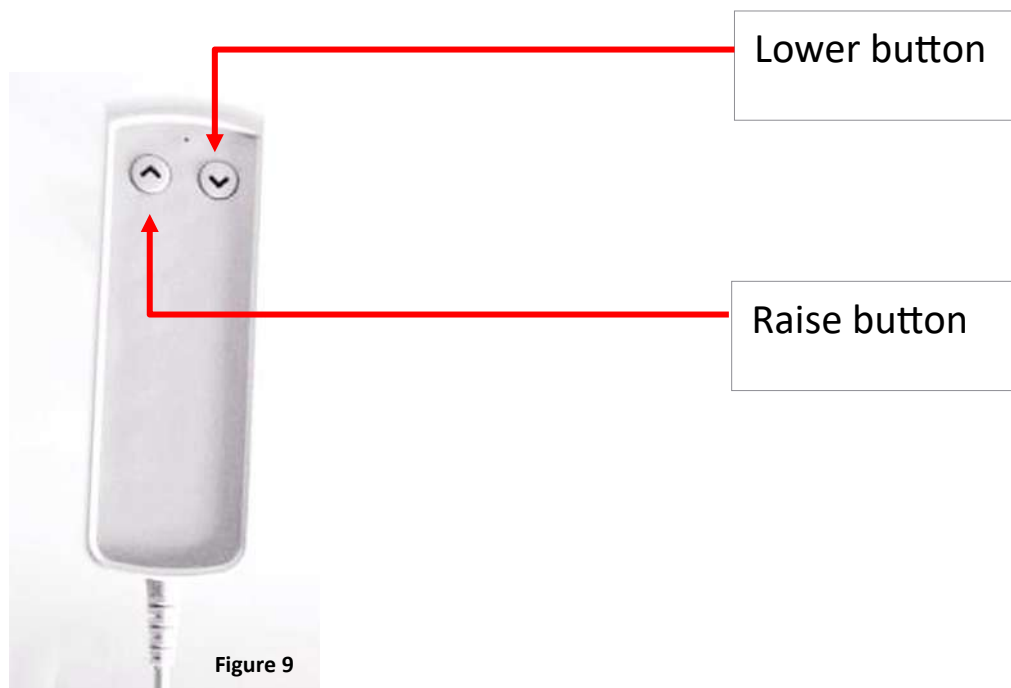
Ensure the side guard is locked when returned to the upright position!

5 Quick guide to operation

5.5 Raising and lowering the trolley

There are two ways the shower trolley height can be altered:

- ⇒ Use the handset – press the button with the upward pointing arrow (see Figure 9)  
- ⇒ Use the fixed control panel on the control box under the platform of the trolley (see Figure 10)



6 Charging

Your Shower Trolley battery will arrive fully charged and ready to use. On average use, the battery should last for 30 - 40 lift cycles. Please insert before use.

Ensure that the battery is regularly charged to avoid a flat battery during use; the battery can be charged using two methods: using the charging port or the charging cradle.

The battery should be charged in a dry environment where there is no chance of water splashing, and care should be taken to avoid the chance of falls or ligature by the charging cable.

6.1 Charging with the charging cable

Leave the battery fitted to the trolley. Remove the bung from the charging port.

Using the charging cable supplied as standard, plug the power supply into the charging port on the control unit under the platform, and plug the other end into a standard three-pin socket.

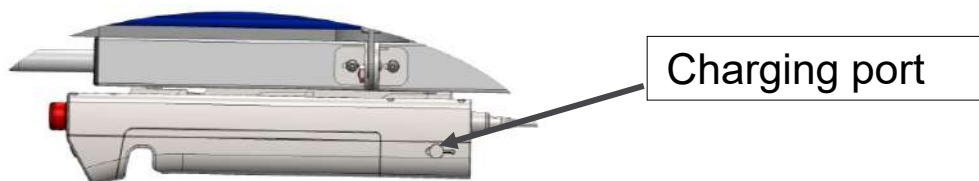


Figure 11

6.2 Charging with the charging cradle

To remove the battery:

Support the battery with one hand. Squeeze the metal lever at the top of the battery pack (Figure 12) with the other hand, to release the battery.

Lower the battery away from the control box.

Once removed, place the battery into the charging cradle (Figure 13) – check that the amber indicator LED has lit up, showing that the battery is correctly positioned and is charging.

When the battery is charged, the green LED will light up. Remove the battery from the cradle and replace the battery into the control box



Figure 12



Figure 13



Figure 14

Charging indicator
LED

Caution: Battery is heavy; take care when removing from control box.



7 Cleaning and Care

7.1 Suitable cleaners and disinfectants

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

Most mild cleaning agents are suitable; chemical agents, solvents and bleaches must not be used, e.g. drain cleaners, acetone, oven cleaners or acids. Test new cleaners and disinfectants on an unobtrusive area first. Attention should always be paid to instruction labels for the cleaning agent/disinfectant.

7.2 Cleaning the drain

The drain and flexible waste hose should be thoroughly cleaned and disinfected on a regular basis. If it is contaminated and cannot be cleaned please contact Astor Bannerman +44 (0)1242 820820 to purchase a replacement.

7.3 Removing the mattress for cleaning and disinfecting

The trolley should be disinfected regularly and always between users. To do this, the mattress must be removed in order to be able to clean and disinfect the platform and the underside of the mattress.

To remove the mattress for disinfecting:

Release the press studs on the shower trolley mattress.

Unscrew the nut under the trolley bed that secures the flexible waste drain hose (see Figure 15); remove & retain the flexible waste drain hose.

Unscrew, remove and retain the plastic nut on top of the trolley bed that secures the waste/drain (see Figure 16); remove and retain the strainer.

Once the flexible waste and waste/drain are completely removed the mattress may be removed to clean/disinfect the platform and the underside of the mattress.

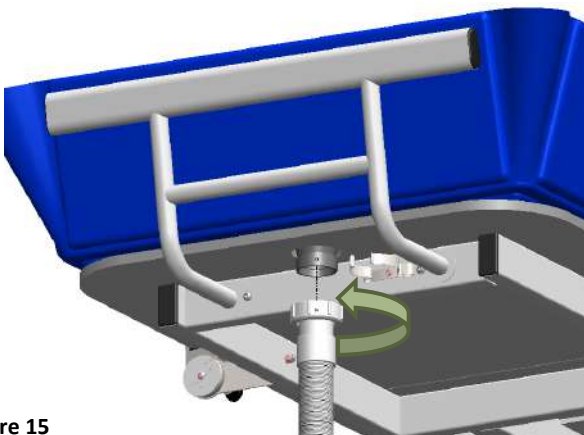


Figure 15

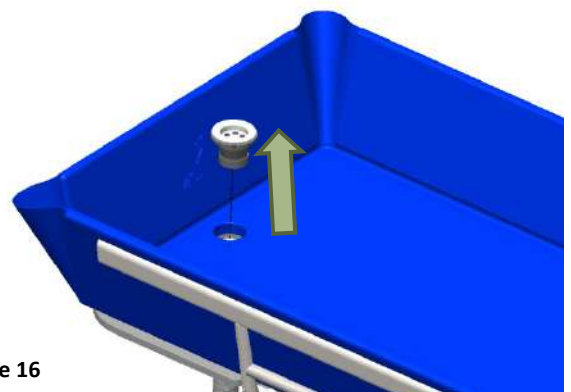


Figure 16

8 Troubleshooting

Problem: The trolley does not move up/down when I press the handset buttons

Suggestion: Check the emergency stop switch is released; Check the battery is charged

Problem: The side guard will not move

Suggestion: Check the plunger pin has been released to unlock the guard (see section 5.3); Check the plunger is not damaged; Check the side guard is not damaged. If there is damage, this will need to be fixed before the trolley can be used

Problem: The trolley will not move

Suggestion: Check that all castor brakes are disengaged; Check whether all castors can run smoothly (no obstructions in castors and castors are clean); Replace the castors if necessary - Please contact Astor Bannerman service team on +44 (0)1242 820820 or support@astorbannerman.co.uk to discuss or purchase any replacement parts.

Problem: The side guard will not lock into place

Suggestion: Ensure there are no obstructions preventing the plunger to lock into place; Check that the side guard is being pushed back up far enough for the guard to click into place.

Problem: Water is not draining correctly when using my shower trolley

Suggestion: Clean the waste/drain, ensure there are no obstructions; If damaged, replace Shower Trolley drainage part - Please contact Astor Bannerman service team on +44 (0)1242 820820 or support@astorbannerman.co.uk to discuss or purchase any replacement parts.

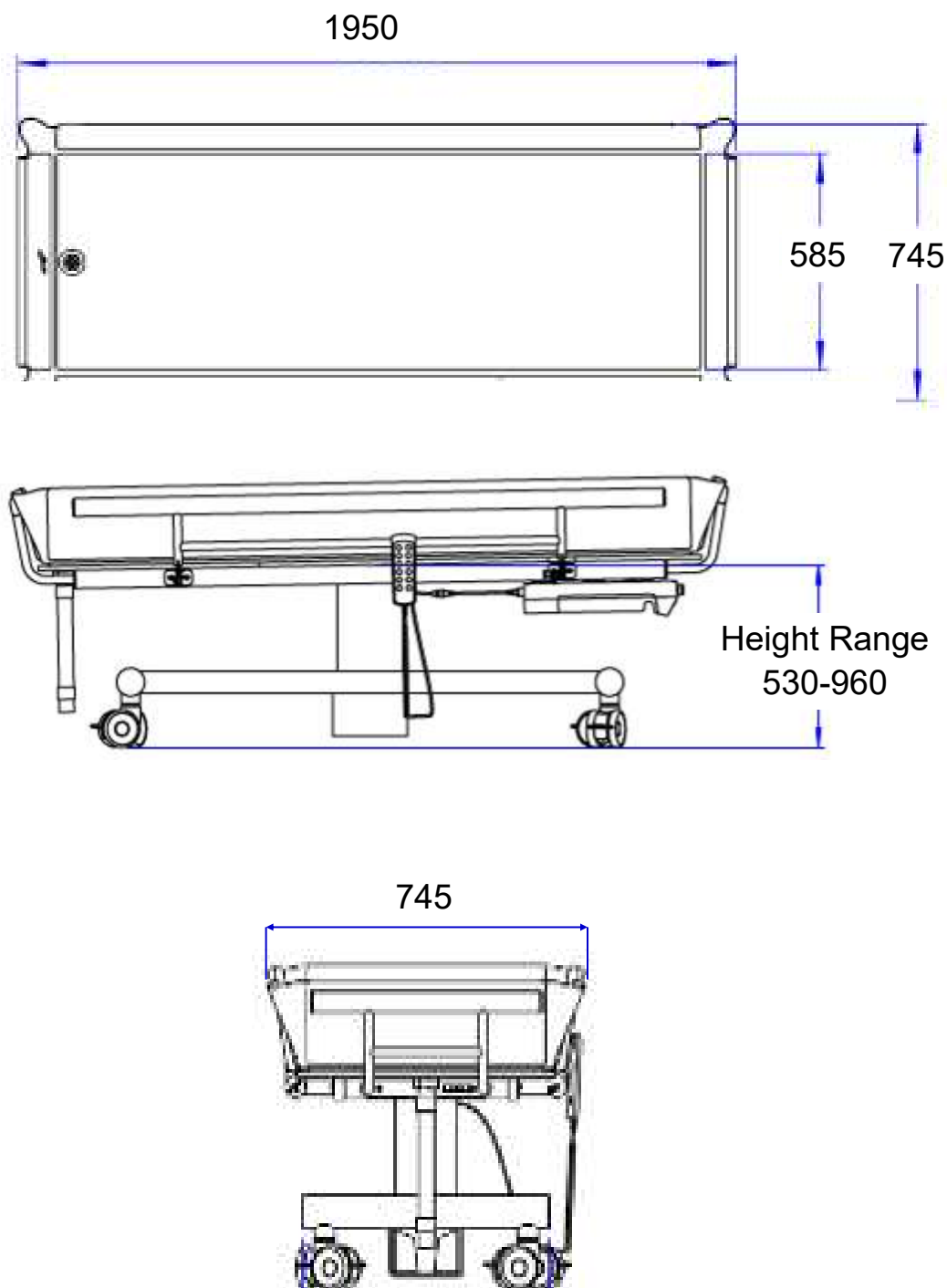
Problem: I have an idea for improving my product, some feedback, or there's something that doesn't work as expected

Suggestion: Astor Bannerman are committed to continuous improvement. Please contact our service department with suggestions, improvements, feedback or to let us know of any problems with your product on +44 (0)1242 820820 or support@astorbannerman.co.uk

9 Technical specification

Duty cycle	10% maximum; 2 min use & 18 min rest
IP Rating	IP x 4
Supply voltage	Battery: 24V dc
Power consumption	0.25 kW
SWL/max weight of user	200kg
A weighted sound emission	<70dB(A)
Widest Point	745mm
Length	1950mm
Highest Mattress Position	960mm
Weight of Product (Dry)	80.4kg
Ambient temp range	5°C – 70°C
Relative humidity range	10 - 80% not condensed at 20°C
Atmospheric pressure range	50kPa to 106kPa
Operating Conditions	0-50°C, ambient pressure, up to 90% humidity
Mains Disconnection Device	None required
Water Connections	None required
Waste Connections	Flexible hose to empty into WC or shower sluice/drain or similar
Recycle/Disposal	Battery: Dispose of in accordance with WEEE regulations Packaging: Wood and corrugated cardboard, recyclable Product: Batteries, steel and plastic parts to be separated and recycled to local requirement.

10 Overall Dimensions (all dimensions are in mm)



11 Installation

The trolley is not designed to be installed in a fixed position and therefore requires no installation, however if it is to be used with water it should be positioned in a suitably designed room (e.g. bathroom, wet room or pool area), close to a suitable drainage point (e.g. so that the flexible waste hose reaches a WC or the drain/sluice of a wet room or pool).

The charger requires a standard 3-pin plug socket and should be positioned where it cannot be splashed, sprayed or otherwise exposed to water (or excessive humidity).

Prior to use, please insert the battery and plug in the handset.

12 Moving and transporting the equipment

It is anticipated that once installed, the equipment will not be transported to a different site. If you need to transport this equipment after unpacking it, please contact Astor Bannerman for advice on +44 (0)1242 820820

13 Product disposal

The electronic components should be recycled in accordance with (I.A.W.) local WEEE regulations. For further advice, please contact Astor Bannerman:

email our support team: support@astorbannerman.co.uk

or call us on +44 (0)1242 820820



14 Certificate of Conformity





Astor-Bannerman (Medical) Ltd.
Andoversford Business Park,
Cheltenham Gloucestershire
GL54 4LB
+44 (0) 1242 820820
sales@astorbannerman.co.uk
www.astorbannerman.co.uk

CERTIFICATE OF CONFORMITY

Manufacturers Name: Astor-Bannerman (Medical) Ltd

Manufacturers Address: Andoversford Business Park
Cheltenham Gloucestershire
GL54 4LB

Equipment Type: Astor Shower Trolley

Astor-Bannerman (Medical) Ltd solely declares the above product complies with the essential requirements and meet the conditions for CE marking. The design of products complies with the Machinery Directive 2006\42\EC Machinery. The following standard / directives was used for the assessment:

Directive 2006\42\EC Machinery
Directive 2014/30/EU Electromagnetic compatibility (EMC)
BS EN 12182:2012 Assistive products for persons with disability. General requirements and test methods
BS EN ISO 10535:2006 Hoists for the transfer of disabled persons (With Reference to BS ISO 17966:2016)
BS EN 349:1993+A1:2008 Minimum gaps to avoid crushing of parts of the human body
Directive 2014/35/EU Low voltage directive (LVD)
BS EN ISO 12100:2010 Safety of machinery — General principles for design — Risk assessment and risk reduction

Signed:



Technical Director
Peter Deverson

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

Date of Issue: 19/08/2020



This declaration applies to all CE marked devices manufactured from the date of its issuance on until it is either superseded by another declaration or withdrawn.

Company registered in England No. 2849299 VAT No. 630 6090 68

15 Replacement parts and accessories

15.1 Replaceable parts available

- Replacement Mattress
- Drain
- Flexible waste pipe
- Castors
- Handset

15.2 Accessories Available

The following optional accessories are available for the Astor Shower Trolley:

- Docking or charging station
- Spare Battery – 2A or 5A
- Knee support

If you require any further replacement parts, and for further information, please contact Astor Bannerman:

email our support team: support@astorbannerman.co.uk

or call us on +44 (0)1242 820820

16 Declaration

- I certify the installation & operation manual detailed in this book is true and correct as of Version 2 2020-11.



Peter Deverson, Technical Director Astor Bannerman

17 Service Record

Service engineer's name	Date of service	Actions undertaken	Signature

18 Training Record

Trainee's name	Date of Training	Type of Training	Trainee's Signature	Trainer's Signature

Notes Page:

+44 (0)1242 820820

sales@astorbannerman.co.uk

support@astorbannerman.co.uk

www.astorbannerman.co.uk



Astor Bannerman, The Elephant Works, Andoversford Link, Cheltenham GL54 4LB

