



A2B Compact Ceiling Hoist

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1 A2B Compact Ceiling Hoist Manual - Introduction

1.1 About this Manual

The aim of this user manual is to enable client's to operate the A2B and to instruct them on how to carry out small (preventive) maintenance jobs.

This manual deals with the following aspects related to operating the A2B and A2B 400:

- Parts description
- Working principle description
- Step-by-step lifting instructions
- Maintenance of the A2B/ A2B 400; to be carried out by the client

Next to this manual the following documentation is available on the A2B:

- Technical manual. The technical manual is developed for the technical service department and contains:
 - maintenance procedures
 - repair procedures
 - parts lists with order numbers
- Installation manual. This manual can be used during the installation of the systems:
 - installation of rail and supports
 - installation of a gate (transition from fixed to mobile rails)
 - installation of carousel
 - part lists with order numbers of all components of the rail system.
- Quick Reference. The Quick Reference guide deals with the main safety and operating aspects relating to the A2B.

1.2 Symbols



Attention



Read the manual before operating the hoist



Attention, High Voltage



The producer of the product



With this, the A2B meets the European Standard, ISO 10535 and the GQ-quality mark T-02, cluster UTT.

1.3 Contents of the Package

The delivered package must contain:

- Cassette
- Hand-held control
- Charger
- Charging station
- Spreader Bar
- User manual
- Quick reference

Remove the packaging from the A2B and check the contents of the package.

1.4 The A2B Ceiling Hoist

The A2B/A2B 400 is a ceiling hoist for passive transfers of client's. The client can be lifted with the A2B and it is possible to transfer the client by means of a rail that is attached to the ceiling. The A2B can be delivered with a mechanical (balanced) or powered hanger bar. The A2B can also be equipped with an electrical drive for transportation along the rail.

The A2B/A2B 400 can be used for the following transfers:

- From a wheelchair to a bed and vice-versa.
- From a wheelchair to a toilet and vice-versa.
- From a wheelchair to a shower-bath-toilet chair and vice-versa.
- From the floor to a wheelchair or bed.



The A2B/A2B 400 cannot be used to help client's with standing up or walking (usually an active hoist like the Carlo will be used for these purposes).



The A2B /A2B 400 complies with the following standards (by KBOH):

- The user can be lifted from a sitting or lying position and will hang in a (semi) sitting position. After transportation of the hoist, the user can be placed back on the supporting element in a sitting or lying position.
- The hoist can be used in combination with wheelchairs, without having to remove foot, leg or arm supports.
- The hoist can be used in combination with an accessible bed, shower window or dressing table at working height. Next to this the hoist can be used for transfers to and from the floor.



With this the A2B also complies to the demands set by the European Standards, ISO 10535 and the GQ-quality mark T-02, cluster UTT.

Under normal conditions, and with the exception of slings and batteries, the expected life span of the hoist is 10 years (100.000 transfers), provided the hoist is maintained as instructed. Special circumstances, like using the A2B in humid environments or environments with aggressive vapours can shorten the life time of the hoist.

1.5 Points of Attention

- ☐ The A2B is designed to lift and transfer client's in combination with an appropriate sling, the A2B can only be used for this purpose. Any other form of use is not allowed.
- ☐ It is not allowed to lift more than 200kg (440lbs) with the A2B, unless otherwise stated on the lift. The A2B 400 can lift 400kg.
- ☐ It is not allowed to lift any object (e.g. a chair or wheelchair) together with the client.
- ☐ Special caution needs to be taken when the clips of a sling are attached to the hanger bar, incorrectly attaching these clips can cause a fall of the client and lead to severe injuries.
- ☐ Always make sure sufficient space is available above the client before lifting.
- ☐ Only use the A2B/A2B 400 in combination with a sling that is delivered by Astor Bannerman. Always contact Astor Bannerman before using alternative slings.
- ☐ Treat the lift with care and always make sure the working environment is neat and clean.
- ☐ Working with the hoist is only allowed to authorized personnel.
- ☐ The A2B/A2B 400 needs at least once a year a periodical inspection.
- ☐ Service and maintenance of the hoist is only allowed to be carried out by authorized personnel.
- ☐ Only use original parts (supplied by Astor Bannerman) for repairs or replacements.
- ☐ Replacing hanger bars or other constructive parts of the hoist is only allowed to authorized personnel.
- ☐ Charging the battery always needs to be done in well ventilated, dry rooms. Battery chargers need to be connected according to the installation demands.
- ☐ Battery chargers need a periodical inspection at least once a year.
- ☐ Never lift the client higher than necessary.
- ☐ When deformations occur to the hoist due to incorrect usage or transport, the hoist should not be used anymore, and will have to be sent back to the supplier.
- ☐ Avoid collision into end stops at full speed.
- ☐ Move the hoist carefully in order to prevent excessive movements of the client.
- ☐ Never leave the hoist unattended while loaded. In energy saving mode (after 10 minutes) the load will be lowered slowly.
- ☐ Do not use the hand-held control or the hanger bar wires as towing-lines to move the client as this will damage the wiring.

2 Description

The A2B ceiling hoist system consists of a number of components that are discussed in this handbook. In Figure 1 shows the main components. These are described in a separate section.

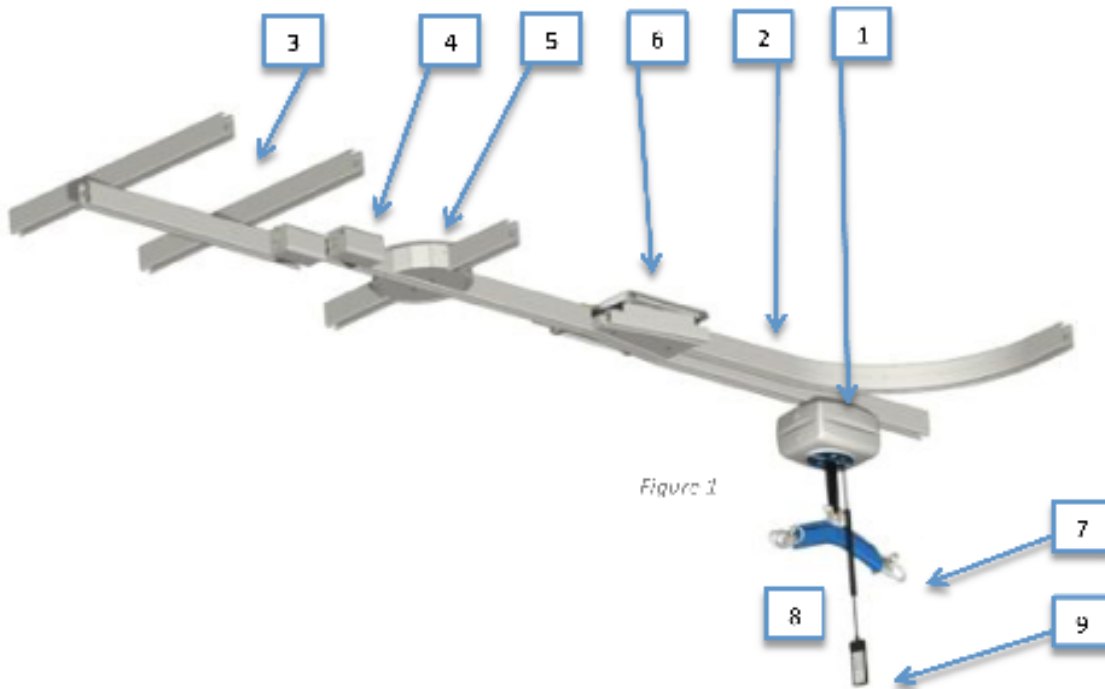


Figure 1

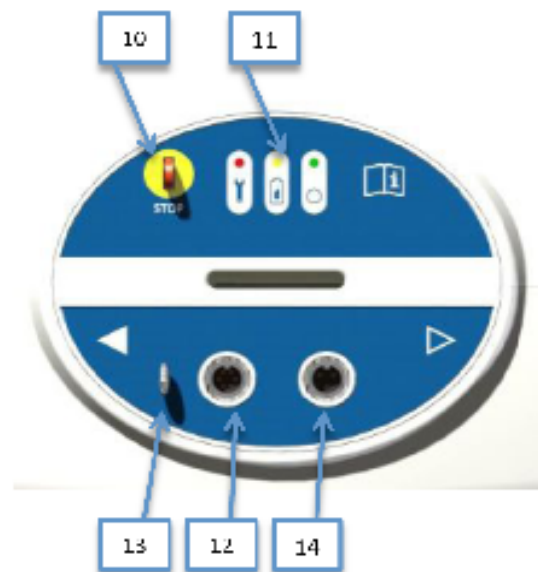
Figure 1

- 1 A2B Motor CassettePage 15
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- 4 Gate System.....Page 10
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- 6 Exchange JunctionPage 10
- 7 Spreader BarPage 11
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Figure 2

- 10 Emergency Stop and Lowering
- 11 Control LED. Green = Hoist in use.
Yellow Flashing = charging.
Yellow Constant = charging.
Yellow Off = battery 100% charged.
Red Spanner = Fault
- 12 Connection point for handcontrol
- 13 Handcontrol security hook
- 14 Powered cradle connection point

Figure 2



2.1 Charging and Life-Span of the Batteries



In order to maximize the life span of the batteries, it is advised to put the cassette into the charging station when the cassette is not being used, but the unique Gravity Powered Charging on the A2B will maximise the battery life of the hoist.

Always charge the battery when the yellow battery indicator is blinking.

Charge the batteries according to the following procedure:

- Make sure the charger is connected to the electricity supply.
- The red/amber/green indicator on the charger will light up depending on the state of the battery.
- Place the cassette below the charging strips (box on side of rail with two metal springs)
- After several seconds charging will start automatically and the yellow indicator on the cassette will light when charging and go-out when fully charged. The light on the charger will either show red/amber/green depending on the state of the batteries.
- Allow for a charging time of 6-8 hours.



2.2 Capacity

The number of lifting cycles that can be done with a fully charged battery depends on the time per lifting cycle, the lifted weight and the age and condition of the battery. The Astor Bannerman Gravity Powered Charging will maximise the lifecycle of the battery.

2.3 Emergency Cord (Figure 2:10)

By pulling the red emergency cord the hoist will immediately stop moving. The emergency stop is (de)activated as follows:

Activate emergency stop (figure 2:10) Pull the emergency cord.

De-activate emergency stop (figure 2:10). Press the red lip to which the cord is attached back into the cassette. After this the cassette will function as normal.



Do not use the emergency cord as an on-off switch. Reactivating the cassette is done with the red lip which is close to the ceiling. The cassette will automatically turn off when it has not been used for more than 10 minutes.

2.4 Emergency Control

(Only to be used in the case of an emergency)

The emergency control can only be used when there is no other way to get the client out of the hoist. The emergency control uses spare power that is available in the battery. The emergency control can only be used to lower a client and is controlled by pulling the emergency cord. As long as the cord is being pulled down the hoist will keep lowering the client.

The A2B is also equipped with several other safety systems. Examples are the rewind guard and a slack belt guard. A detailed description of these safety systems can be found in the technical manual.

2.5 Control Indicator Lights on the Hoist (Figure 2:11)

Green indicator on-off

The green indicator will light up when the cassette is activated. The cassette will automatically deactivate when it has not been used for 10 minutes. The green indicator will dim. The cassette will automatically reactivate when the hand-held control is being used.

Yellow battery indicator

The battery indicator tells when the batteries need to be charged. When this indicator starts to blink, the batteries will have to be charged following the description in paragraph 2.1. When the hoist is being lowered while loaded, the battery will charge and therefore the orange indicator will light up.

Red failure indicator

When the red failure indicator lights up there is a failure inside the cassette. Immediately alarm your technical service department.

2.6 Connecting the Hand-Held Control

The plug of the hand-held control has to be connected to the cassette by screwing the threaded plug into the cassette (Figure 2:12).

2.7 Connecting the Powered Hanger Bar

When the cassette is equipped with a powered hanger bar, the threaded plug of the hanger bar has to be screwed into the cassette (Figure 2:14). When the hanger bar is connected correctly it can be controlled with the hand-held control.

2.8 Hand-Held Control



Do not use the hand-held control as a towing line! Stand behind the client and steadily push him or her along the rail. The hanger bar can be used as a handle for transfers.

The A2B is operated with either a hand-held control or the optional infra-red hand control. This control is used to:

- Move the hoist up or down.
- Bring the hanger bar from a lying position into a sitting position (only with powered hanger bar).
- Move the cassette along the rail (only with powered drive of the cassette).



3 Rail System

The A2B is designed to run on the Astor Bannerman or approved other supplier's track. The track or rail should always be inspected according to local legislation (e.g. in UK LOLER and EN ISO 10535 inspected every 6 months).!



3.1 XY or H System for Room Coverage

An XY rail system is a system where two rails are put, where a movable rail angles below will be hung from the ceiling. The A2B will charge at the end of the moving rail and the moving rail needs pushing normally to the end of the fixed rail for charging to commence.

3.2 Turntable (Optional)

The system you have chosen might be supplied with a turntable, creating the possibility of running a cassette along more than one rail. A turntable operates automatically and makes a quarter-turn to the left or the right. A full turn is not possible.

Controlling the turntable is simple:"

- Place the cassette in the middle of the carousel.
- After approx. 2 seconds the turntable will beep will turn 90 degrees.
- Drive the cassette out of the turntable.
- If you do not want to make a turn but simply pass the turntable, you should not stop the cassette in the carousel.



3.3 Gate (with X-Y Systems)

If your system uses a X-Y system with a transition to a fixed rail (room to room) then a "gate" is placed where the rails join. This gate makes sure that the cassette cannot slide out of the rail when the joints are not aligned. The gate automatically connects the rails and enables a smooth transition from a mobile to a fixed rail. The Astor Bannerman gate is very safe with an electrical and manual security system.

Travelling from fixed rail to X-Y system:

- Move the cassette through the gate toward the mobile rail.
- The rail will de-attach and can be moved.

Travelling from X-Y or H system to a fixed rail:

- Place the cassette in front of the gate.
- Place the rail with the cassette opposite to the other gate. (keep moving slightly)
- The rails will connect and cannot be moved anymore. The guard will open and the cassette can be moved through the gate.



3.4 Exchanger or Junction

This is a more cost effective solution to the turntable if only 3 exits are required (or the track splits). Similar to the turntable the exchanger will operate automatically if you pause the motor in the Exchanger for 2 seconds or more. A sound will beep and the exchanger junction will move to the other track.



If you want to continue the A2B without changing tracks simply do not stop when passing through the Exchanger.

4 Hanger Bar

The A2B is provided with a hanger bar. The hanger bar is a construction to which the sling (in which the client will take place) can be attached. Several types of hanger bars are available, of which the balanced and the powered hanger bar are the most important types. Both hanger bars create the possibility of transporting the client in a sitting or a lying position. The way this is done is described below.

4.1 STANDARD – 2 Point Spreader Bar

For use with loop slings (Astor Bannerman and approved competitors). To operate this please ensure the sling strap (shoulder and leg) are individually placed on the hook with the sprung disc preventing the strap from coming off. An extra hip tape can be used on the 3rd hook on the end of the Spreader Bar



4.2 OPTIONAL – Manual Cradle

A balanced hanger bar is influenced by the client. The client can bring himself/herself into a sitting or a lying position with simple movements. The balanced hanger bar is most efficient when used with client's who have sufficient stability in the hip-joint and sufficient body balance. This unique expanding cradle keeps the patient at the centre of gravity and expands and changes shape with the patient as he/she lies down/sits up.

4.3 OPTIONAL EXTRA - Powered Cradle

The powered hanger bar is moved from a sitting to a lying position by means of an actuator on the hanger bar. This enables automatic positioning of the client into the desired position, which has high benefits for client's with a low hip-stability. The powered hanger bar is controlled by two buttons on the hand-held control.



4.4 A2B 400 Hanger Bar

This is a different hanger bar for the A2B 400 and is re-enforced for the extra capacity. **WARNING.** Do not use the A2B hanger bar on the A2B 400.



Do not use the hanger bar cord as a towing line! This might damage the wiring. Stand behind the client and steadily push him or her along the rail. The hanger bar can be used as a handle for transfers.

5 Slings

5.1 Sling Attachment

- ☐ Read the sling guidelines carefully before using the sling. It is **ESSENTIAL** that you fully understand how to attach the sling in the correct way. Always check the sling for signs of wear or damage before use.
- ☐ Always complete a risk assessment and check the capacity of the sling as well as the hoist. The lower SWL should be the one adhered to.
- ☐ Never use a loop sling on the Manual Cradle (4.2) or the Powered Cradle (4.3). These are designed for Clip Slings Only.
- ☐ Never use a Clip sling on the Standard 2 point Spreader Bar. These are designed for approved Loop Slings Only



5.1.1 LOOP SLINGS

- ☐ Attach the loop over the hook, taking care that the same length of loop is attached on either side.
- ☐ Ensure the sling is past the safety spring disc and the spring disc is clicked in place to prevent the sling coming off.
- ☐ Ensure both leg and shoulder loops are attached (min of 4 loops on any sling).
- ☐ Always refer to the sling user guide.
- ☐ Always check the weight capacity of the sling and ensure it is not more than the A2B.

5.1.2 CLIP SLINGS (depends on clip sling used – please refer to sling instructions)

- ☐ Hold on to the strip on the clip with one hand and pull the large hole in the clip over the attachment point. Check whether the belt on which the sling is hanging is not turned or twisted.
- ☐ Take the belt under the clip and pull this down until the clip falls into the secure position.
- ☐ The attachment point is now locked into the hole in the top side of the clip.
- ☐ Attach all clips in the same way before lifting.

6 Using the A2B Ceiling Hoist

Check the A2B on the following points before use:

- ☐ Check that status of the batteries on the cassette's display
- ☐ Is the emergency stop de-activated?
- ☐ Check whether the used sling fits the purpose and the transfer (see tables page 11 and 12)
- ☐ Check the condition of the sling and the clips and whether the whalebones are placed
- ☐ Carefully place the sling on the spreader bar
- ☐ Is the client able and comfortable to be lifted?
- ☐ The cassette will automatically activate when any button on the hand-held control is pushed
- ☐ When using a standard sling, always place the arms of the client inside the sling on the client's lap.
- ☐ When using a toilet sling always make sure the arms of the client are outside the sling so that the upper slips with clips pass beneath the arms!
- ☐ Always work in a neat and clean environment.
- ☐ The A2B is now ready to be used according to the instructions in this manual.



- ☐ Always make clear to the client what is happening with every step of the process!
- ☐ Pay attention to the danger of getting entangled between the hinging points of the hanger bar.

6.1 Lifting From a Chair

- Place the sling behind the back of the client down to the seat. Let the client sit slightly forward during this handling. Make sure the sling is placed with the washing instructions facing to the outside.
- Pull the leg slips slightly forward, this way the client already sits 'inside' the sling.
- Lift one of the client's legs and bring one leg slip of the sling to the inside of the leg. Use the same method to apply the other leg slip.
- If necessary, pull the head side of the sling up to the correct height. The sling will now fit around the client like a 'tank chair'.
- When using a toilet sling apply the circular belt (leg-side) like a belt around the waist of the client. Put the arms of the client through loops on the head-side of the sling.



Toilet slings can only be used with client's with sufficient shoulder functioning and body stability.

6.2 Lifting From a Bed

- Roll-up one side of the sling for about half the total width of the sling.
- Roll the client over on one side, facing the carer.
- Put the sling with the rolled-up side against the back of the client.
- Make sure the sling is placed with the washing instructions facing to the outside (currently the down side).
- Roll the client over the sling onto his/her other side.
- The rolled-up part of the sling will now be on the side of the client.
- Unroll the rolled-up part of the sling and pull this to the correct position.
- Roll the client back on his or her back, making sure he or she is now lying on the sling.
- Lift one of the client's legs and bring one leg slip of the sling to the inside of the leg.
- Do the same with the other leg slip.
- If necessary straighten the sling in order to make sure the client will lie stable during lifting.

6.3 Moving the Patient



Do not use the hand-held control as a towing line! This might damage the wiring. Stand behind the client and steadily push him or her along the rail. The hanger bar can be used as a handle for transfers.

- ☐ Lift the patient by means of the hand-held control.
- ☐ While moving, walk with the lift. Stay as close to the client as possible.
- ☐ Approach the bed, chair or toilet and then determine the required height for bringing the client to the final position.
- ☐ Never lift the patient higher than absolutely necessary during a transfer.

6.4 Taking the Patient Out of the A2B / A2B 400

6.4.1 Step 1a Lifting Towards a Bed

- Bring the client into a lying position. Position the patient as good as possible above the bed.
- Lower the client onto the bed until he or she completely lies flat on the bed.

- Undo the clips of the sling from the hanger bar and remove the hoist.
- Always use a special bath sling when lifting towards a bath.

6.4.2 Lifting Towards a (Wheel) Chair

- Make sure the brake of the wheelchair is applied.
- Lower the patient into the chair at low speed.
- Make sure the patient is properly positioned into the back of the chair.
- Undo the clips of the sling from the hanger bar and remove the hoist.

6.4.3 Lifting Towards a Toilet

- Follow the same instructions as when lifting to a chair.
- Always use a toilet sling when lifting to a toilet.
- Lower the client's pants to the knees before placing the client on the toilet. Further lower the pants after placing the client on the toilet.
- Undo the toilet sling from the attachment points of the hanger bar while using the toilet.
- Raise the client's pants after the toilet use again to the knees, lift the client and fully raise the pants.



Toilet slings can only be used with client's with sufficient shoulder functioning and body stability.

7 Maintaining the A2B Ceiling Hoist



If any doubt occurs about the condition or functioning of the A2B always alarm the technical service department.

Astor Bannerman hoists should **ONLY** be serviced by an authorised Astor Bannerman partner or Astor Bannerman themselves. Failure to do this will invalidate the warranty.

7.1 Cleaning Instructions

Cassette and hanger bar- The best way to clean the A2B/A2B 400 is with a moist cloth. Use normal (house) cleaning detergents.

Slings - Always see washing instructions attached to sling. Do not use aggressive solvents when cleaning the hoist or the slings.

7.2 Daily/Weekly Maintenance

For normal use the A2B hardly requires maintenance. We do however advice to pay attention to the following points daily in order to prevent or recognize problems in time.

Action

Clean the hoist:

Wash the slings:

Charge the batteries regularly:

Check whether the hoist operates smooth:

Check for irregular sounds:

Remark

See cleaning instructions paragraph 7.1

See washing instructions on sling.

Make sure the cassette is in the charger when the hoist is not being used.

Alarm the technical service department in order to let them grease or change parts that hinder smooth operation.

Alarm the technical service department

7.3 Annual Inspection and Maintenance

The hoist needs to be checked once a year according to the local-guidelines (UK LOLER every 6 months). This needs to be done by Astor Bannerman or another Astor Bannerman authorized institution. Astor Bannerman offers you the possibility of an annual inspection by means of a Service Agreement. If maintained by an authorised person the A2B hoist should have a sticker tells you when the hoist is due for inspection. For more information about inspections you can always contact Astor Bannerman.

7.4 If the A2B Does Not Function

- Check whether the emergency cord is pulled out
- Check whether the batteries are sufficiently charged.
- Check whether the plug of the hand-held control is connected correctly.
- Check whether the plug of the hanger bar control is connected correctly.
- Check whether the belt is slack, if necessary tighten it.
- Check whether the belt has been pulled up too much, the hoist will only go down.
- Check whether the belt has been rolled out too much, the hoist will only go up.
- If the hoist is still not working, alarm the check technical service department.

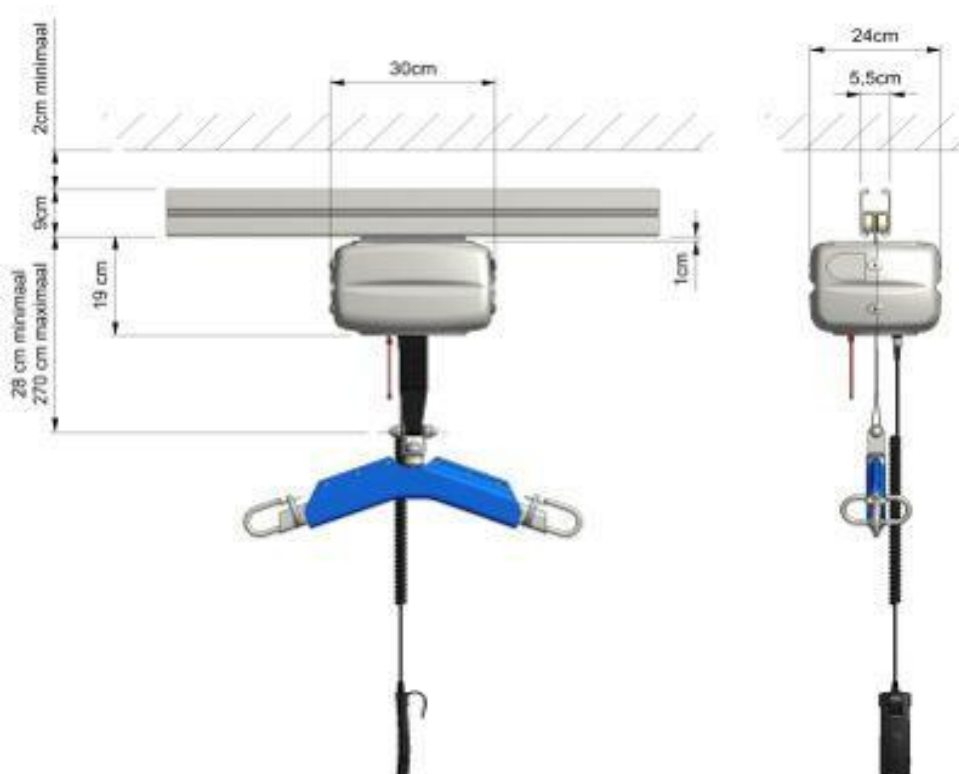
7.5 Disposal

For disposal the A2B can be returned to Astor Bannerman. This is also possible with batteries, chargers, slings etc. If you choose to dispose the batteries yourself, be aware of the fact that these batteries are chemical waste.

8 A2B Specification

8.1 Technical Summary

Maximum hoist capacity 200kg (400kg for A2B 400)



Sound pressure level 47 dB
 (A) IP rating 54
 Duty cycle 10%
 Hoist motor 24Vdc 9,5 A
 max Drive motor 24Vdc 2.1A
 max 2x Battery 2x 12V 5AH
 Manual control 6 functions - IP65
 Electrical hanger bar 24Vdc - 5.5 A maximum

Battery
 Switching power supply energy efficient
 Primary 240V AC 50/60Hz
 Secondary 27.6 Vdc - 1.5 A maximum.
 IP62, EN60601-1

Gate
 Sound Level 58dB (A)
 IP rating 54
 Duty cycle 10%
 Operating voltage 24 Vdc

Turntable
 Sound pressure level 60 dB (A)
 IP rating 54
 Duty cycle 10%
 Operating voltage 24 Vdc

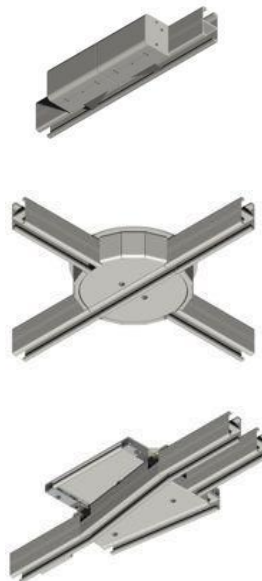
Junction
 Sound Level 55dB (A)
 IP rating 54
 Duty cycle 10%
 Operating voltage 24 Vdc

"
 "

The expected life of the A2Bs, in normal use under normal conditions and apart from slings, slings and batteries, is 10 years (100,000 transfers) for maintenance according to specifications.

Use of the A2B in a humid environment or in an environment with aggressive vapours are not "normal circumstances" and can shorten the life of components. If the motor is used in such environment please ask for our Humid Environment Upgrade.

"



9 Warranty statements

- ☐ Astor Bannerman gives a 1 year warranty on the A2B/A2B 400. Astor Bannerman does not give warranty on any parts that are exposed to wear, like wheels, slings, hoisting belts or batteries.
- ☐ This warranty does not apply to damage or failure of the A2B/A2B 400 which is caused by improper or un-professional use or repairs done by others than Astor Bannerman. The judgement on this part lies with Astor Bannerman or an by Astor Bannerman appointed representative.
- ☐ The Warranty is invalid if the A2B has been serviced by an unauthorised person.
- ☐ Astor Bannerman is free to change the product in any way, also not according to this manual. Astor Bannerman does not need to inform the customer of this in any way.

10 About Astor Bannerman

Transferring and lifting client's in the health care sector asks a lot of energy and high professionalism from several parties and especially from carers. Astor Bannerman delivers services and products for people who are involved daily with these transfers. The mobility of the client is our starting point: together with the client's and carers, we develop solutions to improve or maintain the client's mobility. By taking into account and using the moving possibilities of the client we aim at delivering an optimal quality of care and an improvement of labour conditions for the carer.

Astor Bannerman can deliver the following products/services:

- | | |
|---------------------------------|----------------------------|
| • Hoists | • High-low baths |
| • Standing aids | • Toilet and shower chairs |
| • Bed hoists | • Shower trolleys |
| • Ceiling hoists | • Other transfer aids |
| • Accessories for transfer aids | • Training and advise |

The vision, services and products of Astor Bannerman make Astor Bannerman the perfect partner for carers.

10.1 Contact Details

Astor Bannerman (Medical) Ltd
11F Coln Park
Andoversford
GL54 4HJ
T: 01242 820820
F: 01242 821110
E: sales@Astor-Bannerman.co.uk
W: www.Astor-Bannerman.co.uk

11 EG - Statement of Conformity

We:

Astor Bannerman (Europe) Ltd
11F Coln Park
Andoversford
GL54 4HJ

Hereby declare under our own responsibility that the:

The A2B/ A2B 400 ceiling hoist system and all attached parts

to which this declaration relates and which fall within Class I of the European Medical Devices Directive, in accordance with the provisions of the following directive:

11.1.1.1.1.1.1.1

Guideline 93/42/EEG

and also complies with the following standards or normative documents:

ISO/DIS 14971
EN 10535 NEN-
EN-60601-1
NEN-EN-60601-1-2
(EMC) pr EN 980
BS 12182

On behalf of Astor Bannerman Ltd,

Place and date : Andoversford, Gloucestershire. 13 August 2014

Name and function : Peter Deverson. Technical Director



Signature :

12 Notes

[illegible]



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Astor Bannerman supplies and installs high-quality ceiling hoists and patient handling equipment for the hospital, nursing home and domestic environment