

KB2600

Height Adjustable Changing Table

Koala Kare™

Installation and User Guide



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Read all instructions before using this device

Section 1

The KB2600 height adjustable changing table is a wall mounted showering and changing table. A front guard is integrated for safety.

The height adjustable changing table is powered by a 110 - 240 V control system with battery backup. The battery enables the lowering of the changing table in the event of mains electrical supply failure. It is essential that mains electrical power is switched on at all times to maintain the charge of the backup batteries.

Intended use

No formal training is required to use the KB2600, but users must read and understand the user guide. To aid usage, a quick user guide should be clearly displayed on the wall at all installations.



CAUTION: Before installing or using this equipment you must read and fully understand these instructions.

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

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

Other than the weight of the patient using the changing table, there are no known contraindications associated with this device.

The maximum working load is up to 440 lbs (200kg). The recommended position for use of this equipment is shown in Fig 1.

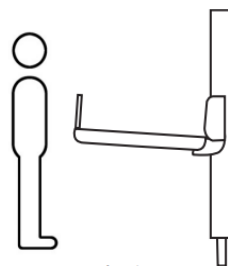


Fig 1

Operating environment

The KB2600 is designed for use in private homes, changing places toilets, schools and other public spaces. However, it could be used in any indoor facility at room temperature.

Section 2

The labels shown below are labels that will be placed on your KB2600. See Section 5 for where the label is positioned on the product. See Section 4.1 for full explanation of symbols.

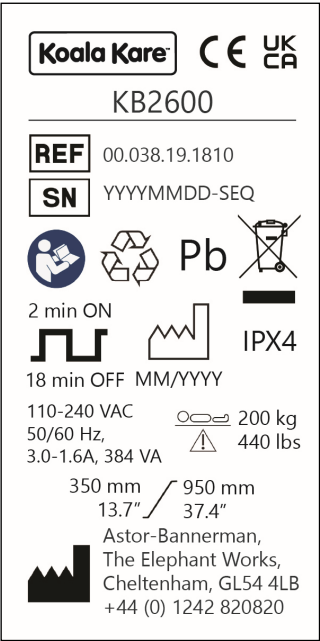


Fig 2a Product label

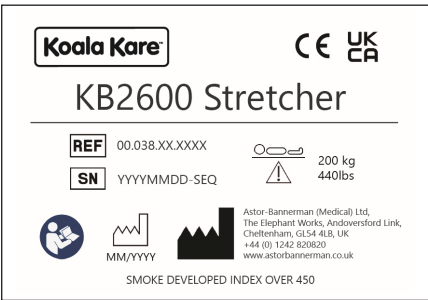


Fig 2b Stretcher label



Fig 2c Pod label

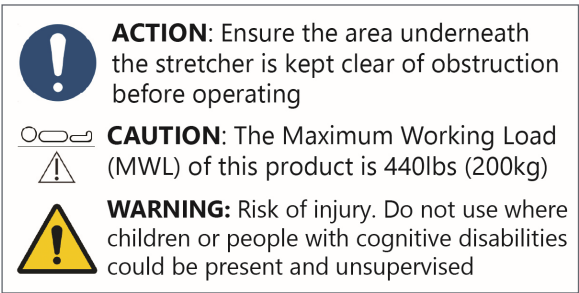


Fig 2d Warning label



Fig 2e UL label

The reference number identifies the model of your product.

Section 3

Once registered, this product has a **3 year warranty** against all defects in manufacture. 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:

online at: koalabear.com

email our support team: customerservice@koalabear.com

or call us on: Main: 303.539.8300 | **Toll Free:** 888.733.3456

This warranty is provided by Koala Kare to the registered Customer.

Koala Kare Products, a Division of Bobrick Washroom, Inc. warrants that this product will be free from defects in material and workmanship under normal use and service, with proper maintenance, for a period of three (3) years.

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.



Section 4.1 Standard Symbols

 This product is CE-marked and complies to the relevant standards outlined on the CE certificate.

 This product is UKCA Marked and complies to the relevant standards outlined on the UKCA certificate.

 Koala Kare product reference number.

 Koala Kare product serial number.

 **FOLLOW INSTALLATION & USER GUIDE:** Before installing or using this equipment you must read and fully understand these instructions. Failure to comply with these instructions may result in accidents resulting in serious personal injury or the product being damaged.

 **CAUTION:** To indicate that caution is necessary when operating the device or control close to where the symbol is placed, or to indicate that the current situation needs operator awareness or operator action to avoid undesirable consequences.

 **WARNING:** This symbol indicates a hazardous situation which could result in serious injury or even death if not avoided.

 **WARNING:** This symbol indicated a hazard relating to electricity/voltage.

 This product has a duty cycle of 2 minutes ON and 18 minutes OFF.

 This product is for indoor use only.

 **ACTION:** This sign is used to highlight a mandatory action that must be followed by the user.

 Battery contains lead



To signify a prohibited action.



Identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth (ground) electrode.



Parts of this product can be recycled.



Parts of this product must be separated when being disposed of.



Details of product manufacturer



Symbol indicating the date of manufacture.

IPX4

This product has been tested for water ingress in accordance with IPX4.



Maximum working load



Lifting range



Class I electronic protection.



Product Safety Electrical Appliance & Material recognised component.



C-Tick marked component.



This symbol indicates a hazard associated with EMC (Electromagnetic Compatibility).

IMPORTANT SAFETY INSTRUCTIONS

Section 4.2 Regular Checks

In order to ensure the continued safe use of the equipment, regular safety checks and servicing must be completed. A safety check and service record of the product must be maintained. Please ensure the service record at the end of this document is kept up to date.

We recommend the on-going maintenance and servicing of this changing table to conserve its longevity. The checks may only be conducted by competent technicians. The non-observance of this could lead to injuries and jeopardise the safety of the product.



DO NOT: Carry out these checks or complete a service when a person is on the stretcher

Carry out the following checks:	Start up:	Monthly	Every 6 months	Annually
Disinfect unit	✓			
Clean stretcher	✓			
Check stretcher is damage free	✓			
Check that there is no play in the stretcher (does not move or wobble freely)	✓			
Rise and fall: full function test of the equipment; smooth; no unusual noise		✓		
Check guard locks securely / unlock smoothly		✓		
Check guard rotates freely once unlocked		✓		
Corrosion: inspect the unit for any signs of corrosion		✓		
Cables: check that all cables from the power supply/control unit are securely fitted and show no sign of damage		✓		
Fixings: inspect all visible nuts, bolts etc. to see they are secure		✓		
Check the stretcher angle has not changed when the stretcher is deployed. Stretcher should not be leaning towards the floor. If so, arrange a service.		✓		
Service* (to be completed by a service engineer)				✓

Please note that the cover must be removed to complete servicing tasks (this includes all annual tasks) which must only be done by a qualified person.

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

For further information on servicing offered by Koala Kare contact:
customerservice@koalabear.com

Section 5

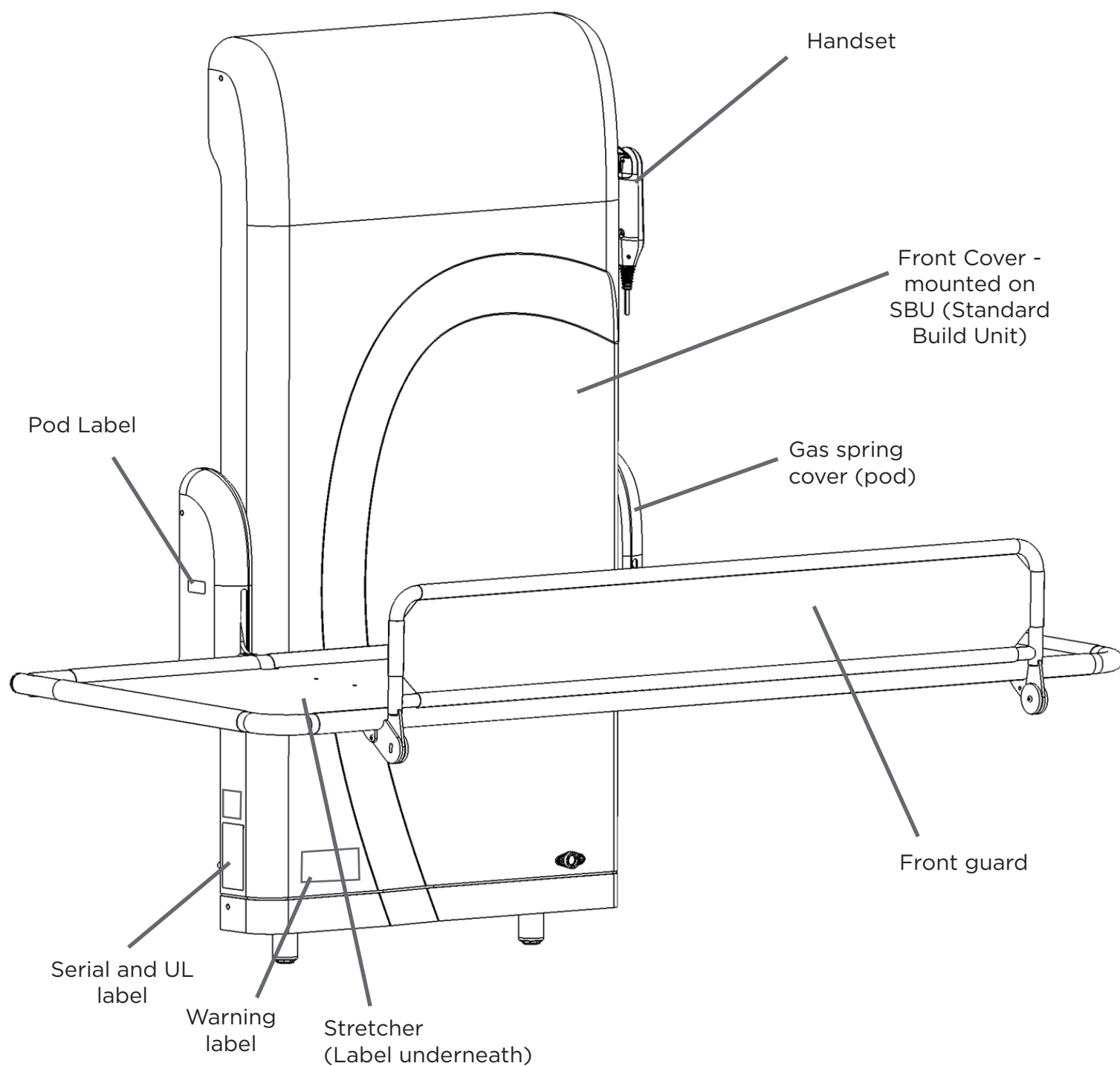


Fig 5

Section 6.1 Daily Checks

Carry out the following checks daily before using the changing table

- Check the weight of the client and ensure the equipment is rated for the weight to be lifted.
- Check the mains electrical supply is connected and turned on.
- Check there are no obstructions or items that may be trapped when the changing table is operated.
- Check that the changing table will raise and lower using the handset.
- Check that the fabric of the stretcher is intact.

Section 6.2 Preparing for use

The changing table is held in the stowed position by gas springs. There is no release mechanism to operate before deploying the bed.

To move the bed from the stowed position:

- Place your hand on the top edge of the bed.
- Pull gently forward and the bed will begin to rotate down.
- During the rotation, the bed will gain a little momentum, so position your hand underneath to aid it lowering slowly down.

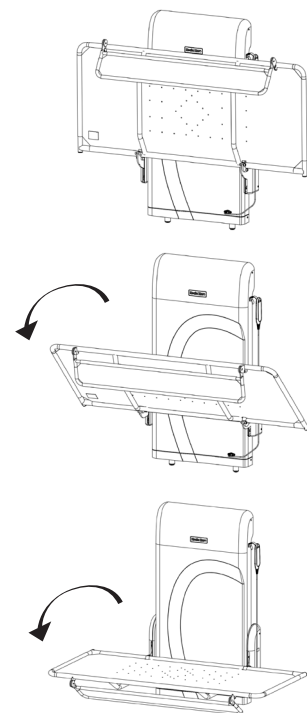


Fig 6.2

Section 6.3 How to stow the stretcher

The changing table is held in the stowed position by gas springs.

- Stow the guards as shown in Section 6.5
- Place your hand on the underside of the stretcher
- Pull gently upwards and the stretcher will begin to rotate up.
- During the rotation the bed will gain a little momentum, so position your other hand on the end on the stretcher to control the movement safely.



ACTION: Ensure the area around the stretcher is kept clear of obstructions before operating to prevent risk of injury.



CAUTION: Keep clear of moving parts when stretcher is being raised or lowered.

Section 6.4 Adjusting the height

The changing table is operated with a handset control.

- Pressing either of the top buttons will either raise or lower the changing table to the desired height.
- Use the raise/lower buttons to position the table at the most convenient height to transfer the client. Then adjust the height again to the best height to care for the client without causing back strain.

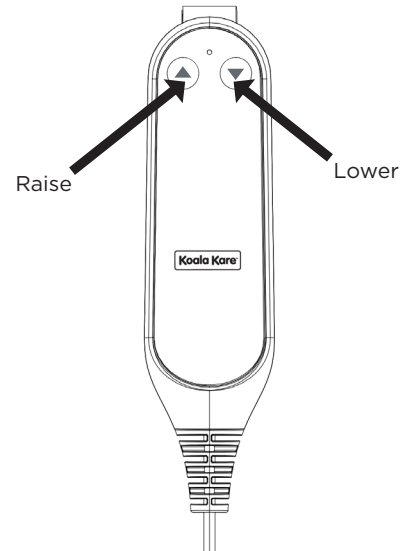


Fig 6.4



WARNING: Risk of injury by crushing. Ensure the area underneath the stretcher is kept clear of obstructions before operating. Keep clear of the area above the stretcher when stowing.



CAUTION: Keep clear of moving parts when operating. Ensure there are no obstructions when moving the guards into position.



ACTION: Always deploy the guards before moving the changing table with a person on the stretcher.



ACTION: Ensure the area underneath the stretcher is clear of obstructions before operating.



ACTION: Keep fingers clear of moving parts before operating.

Section 6.5 Using the guard

The KB2600 changing table is fitted with a front guard which can be stowed under the stretcher.



ACTION: Always deploy the guard before moving the changing table with a person on the stretcher.



WARNING: Risk of falling.
Stretcher occupant must never be left unattended.

To move the guard into place:

- Reach underneath the bed and take hold of the guard.
- Lift to unlock the guard in the direction of Arrow 1. Take care not to let go as it may swing around on its own.
- Rotate the guard forward and up into position, Arrows; 2, 3 and 4.
- Once upright, the guard will be able to drop down into its location and lock into place.

To stow the guard:

- Lift the guard up, Arrow 5, until it can be rotated back towards you.
- Rotate the guard down and back underneath the stretcher Arrow 6.
- Push the guard up underneath the bed until it slots into its locked position.



CAUTION: Ensure there are no obstructions while moving the guard into position.

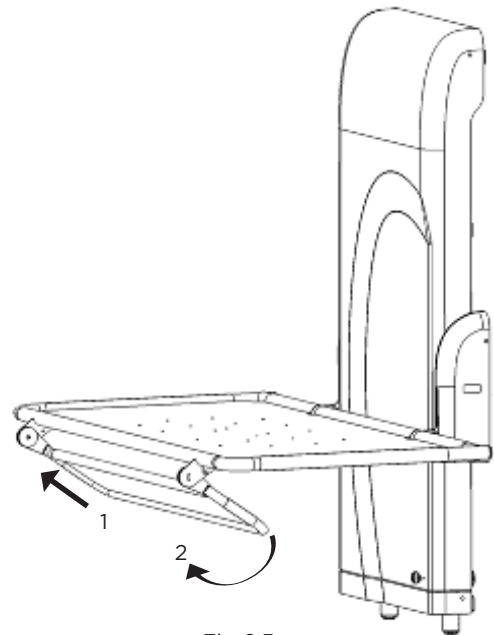


Fig 6.5a

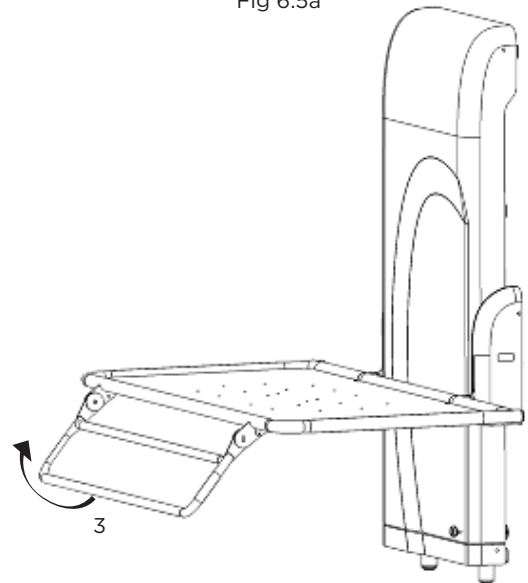


Fig 6.5b

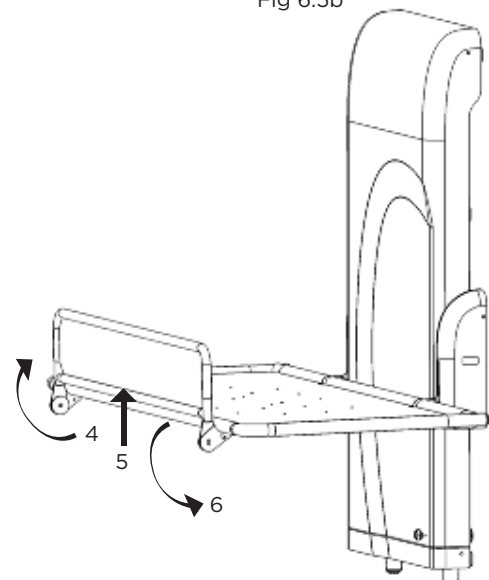


Fig 6.5c

Section 7

The KB2600 changing station should be regularly cleaned and must be cleaned between users to prevent the risk of cross contamination or infection.



CAUTION: The heavy use of oil based products may adversely affect the stretcher material. Oils and other petrochemical products should be avoided and any residue removed immediately. These products include, amongst others: Baby oil and emollient creams.

Cleaning:

- Before cleaning, try a small test first in an inconspicuous area with the cleaning agent you are proposing to use.
- The changing table may be cleaned using most mild cleaning agents or with a warm soapy water solution. The changing table should be rinsed off after cleaning and dried off with a soft cloth.
- Chemical agents, abrasive compounds and solvents must not be used, i.e. drain cleaners, acetone, oven cleaners or acids.
- Do not use an autoclave or other type of steam cleaner to clean any part of the product.
- Attention should always be paid to instruction labels for the cleaning agent.
- The main unit of the device may be cleaned with the same solution used on the stretcher.



ACTION: Ensure any cleaning product spillages are cleaned up correctly.



CAUTION: Always follow the instructions and comply with the safe use of the cleaning/disinfecting agent. Do not mix cleaning products.



CAUTION: Do not use flammable cleaning agents.



CAUTION: Do not use abrasive cloths or cleaners.



CAUTION: A dampened, non-wet cloth should be used for cleaning.



CAUTION: Do not pour or spray cleaning liquids directly onto the equipment.

Section 8

Problem: Pressing the handset results in no movement of the equipment.

Suggestion: Check the mains electrical power is connected and switched on.
Check handset is plugged in correctly.

Problem: Pressing the buttons on the handset results in the machine trying to move, but fails to operate correctly.

Suggestion: Check mains electrical power is switched on and connected.

Problem: Guard will stay locked in position and/or is difficult to use.

Suggestion: Check the mechanism for damage caused during use.

Problem: Stretcher will not stay upright and/or is difficult to lift into position.

Suggestion: The lifting gas spring has failed. Contact Koala Kare

Section 9

A.C. Input	110VAC-240VAC, 50/60Hz, 3.0-1.6A, 650W Maximum
D.C. Output	24 Vdc, 6 A Maximum
Power Supply	Class I (Class II Power supply with supplementary earth connection to frame). Internally powered when mains is not connected
Duty Cycle	10 % maximum: 2 min use & 18 mins rest
Product Weight (Dry)	154 lbs (70 kg)
Maximum User Weight	440 lbs (200 kg)
'A' Weighted Sound Emission	<70 dB(A)
Ambient Temperature Range	41 °F to 158 °F (5 °c to 70 °c)
Relative Humidity Range	10 - 80 % not condensed at 68 °F (20 °c)
Atmospheric Pressure Range	50 kPa to 106 kPa
Recycling - Battery	Recyclable. Not for disposal. Environmental danger
Recycling - Packaging	Wood and corrugated cardboard, recyclable
Recycling - The Product	Electrical components, batteries, steel and plastic parts to be separated and recycled to local requirements



CAUTION: Battery module and mains cord are not routinely replaceable and are expected to last for the full service life of the product. If replacement is required, contact Koala Kare.

Section 10

Note: The adjustable feet allow the installation height to be adjusted by up to 25/32" (20mm), which will allow adjustment to the operational height range. Should this adjustment not be enough, the changing table may be fully wall mounted so it can be installed further up the wall at the desired operational height.

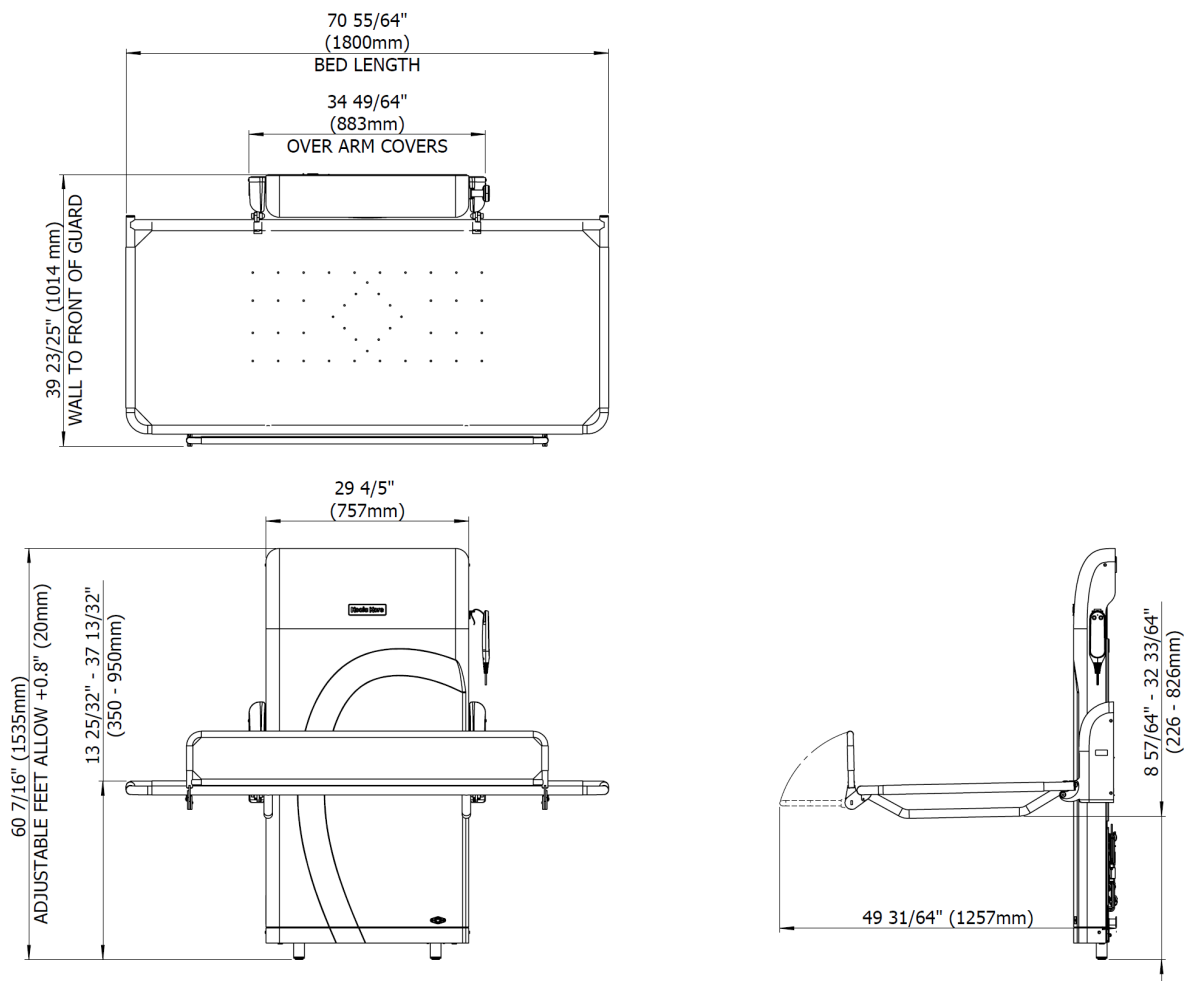


Fig 10

Section 11

Before the changing station can be installed, the wall and mains electrical supply must have been prepared as set out in this section. Pre-installation works should be carried out by a competent and qualified professional in compliance with local and national building code standards.

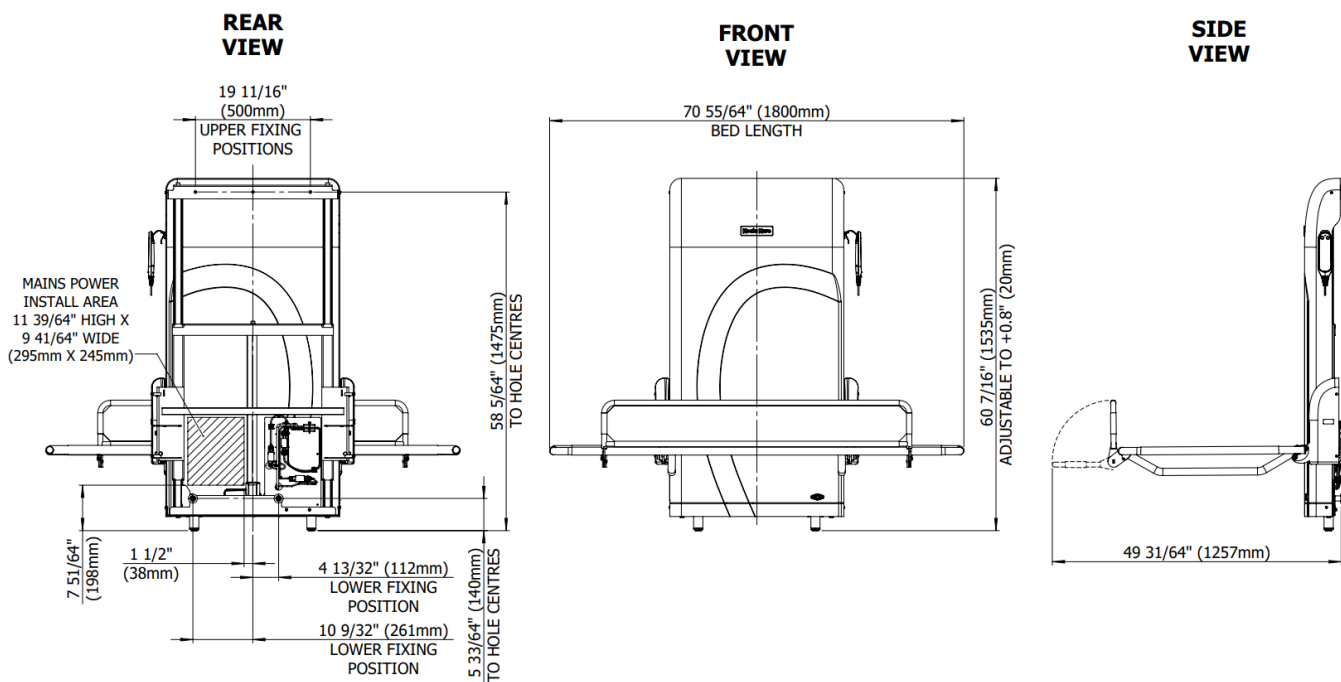


Fig 11

Electrical Requirement

- Ensure electrical hazards are fully understood before commencing pre-installation. This device is powered by a Class II power supply. A mains supply to suit the technical specification is required through an isolatable flex outlet that is fitted in compliance with local and national building code standards. This outlet needs to be part of a GFCI protected circuit.
- There must be an easily accessible mains isolation switch fitted for this device. It is recommended to be located in a separate room or in a cabinet. Ensure it is installed in accordance with local regulations.
- The changing table fixes to the wall and rests on the floor.
- This product must be connected to a suitable mains earth.



WARNING: Ensure the electrical mains supply is isolated from power while connecting the product to the mains supply.

Section 11.1 Preparing the wall



WARNING: Risk of collapse. Ensure supporting wall and fixings are suitable and correctly installed by a competent and qualified professional. Risk of collapse of equipment if the strength of the supporting wall structure is inadequate.

- There should be a minimum clearance of 1 9/16" (40 mm) at each end of the bed. If this is not available please defer to local/national building code for minimum clearance required around the unit.
- For solid masonry construction, it is expected that a wooden frame of 2" x 2" (50mm x 50mm) sections will be securely fixed to a solid load bearing concrete, brick or equivalent construction wall which is flat, plumb and free from obstructions from floor level to 59" (1550 mm) above the floor.
- The wall must be load bearing and strong enough to be able to bear a load of 1100 lbs (500 kg), with 220 lbs (100 kgs) on each of the wall fixings.
- This construction or equivalent must be faced with minimum 23 5/8" (600 mm) wide, 1" (25 mm) thick marine plywood which continuously extends from floor to ceiling.
- The marine plywood must be from floor to ceiling and secured every 7 7/8" (200 mm) around the perimeter and to at least 2 supporting horizontal cross members as shown in Fig 11.1.
- Ensure the horizontal cross members are not located at the same height as the changing station's fittings as shown in Fig 11.3 in order to avoid a future installation problem.
- For wooded stud walls additional framing will not be required as long as framing behind the installed unit matches that shown in Fig 11.1.
- Koala Kare cannot be held responsible for the strength of the supporting wall structure.

This unit CANNOT be fitted to (Gypframe) metal frame or similar type stud wall unless it has been fully reinforced with timber struts that are secured top and bottom and then reinforced with cross bracing or 1" (25 mm) plywood screwed in place (not nailed).

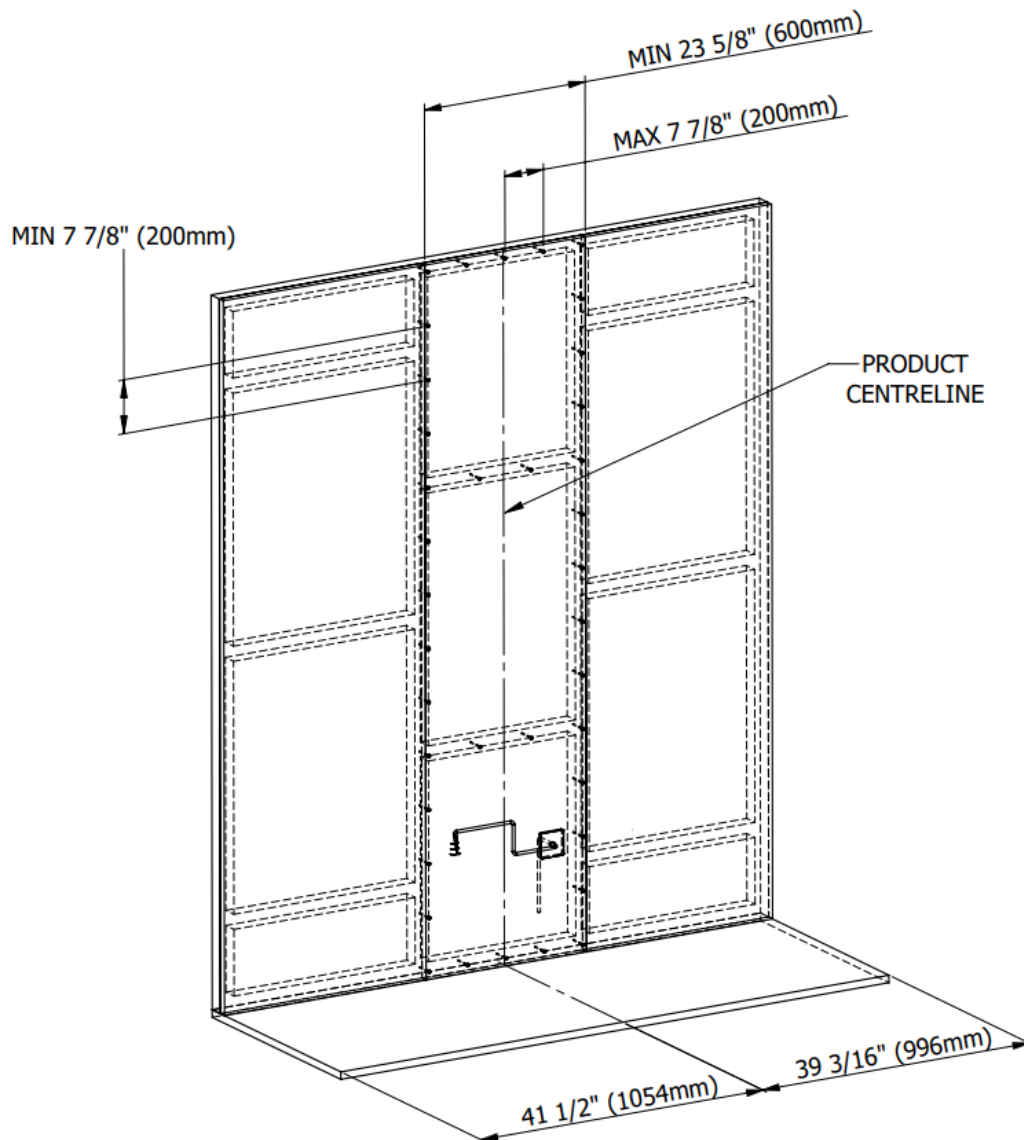


Fig 11.1

Section 11.2 Fitting the switched, waterproof, flex outlet

- An IP65 rated junction box is integrated into the product, within which a hardwired connection to mains power should be made using the provided Wago connectors. The mains power cord can be routed to the junction box from below or above.
- The mains power cord should be fit within the area specified in Fig 11.2. It is recommended to fit a suitable waterproof flex outlet cover/faceplate. This must be fitted sub-flush to the wall and within the clearance area shown in figure 11.2. The maximum dimensions for a surface mounted outlet are 3 5/8" (92mm) tall, 4 7/32" (107mm) wide and 2" (50mm) deep.

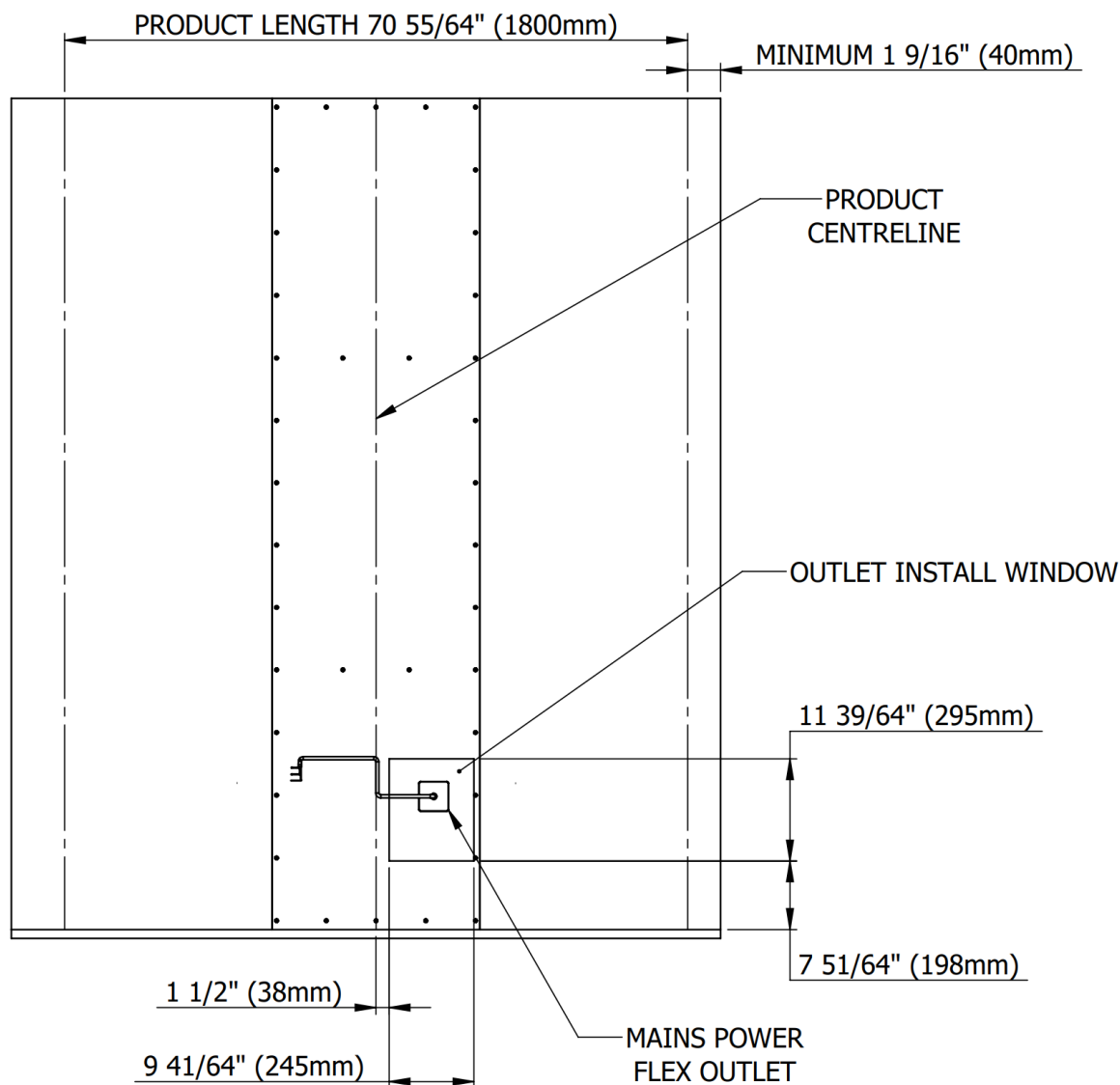


Fig 11.2

Section 11.3 Finished pre-installation & checks

- The finished pre-installation should appear like Fig 11.3.
- Drywall/plasterboard is fitted to appear flush with the marine plywood. This wall can then be blended/painted so to appear as a finished wall.

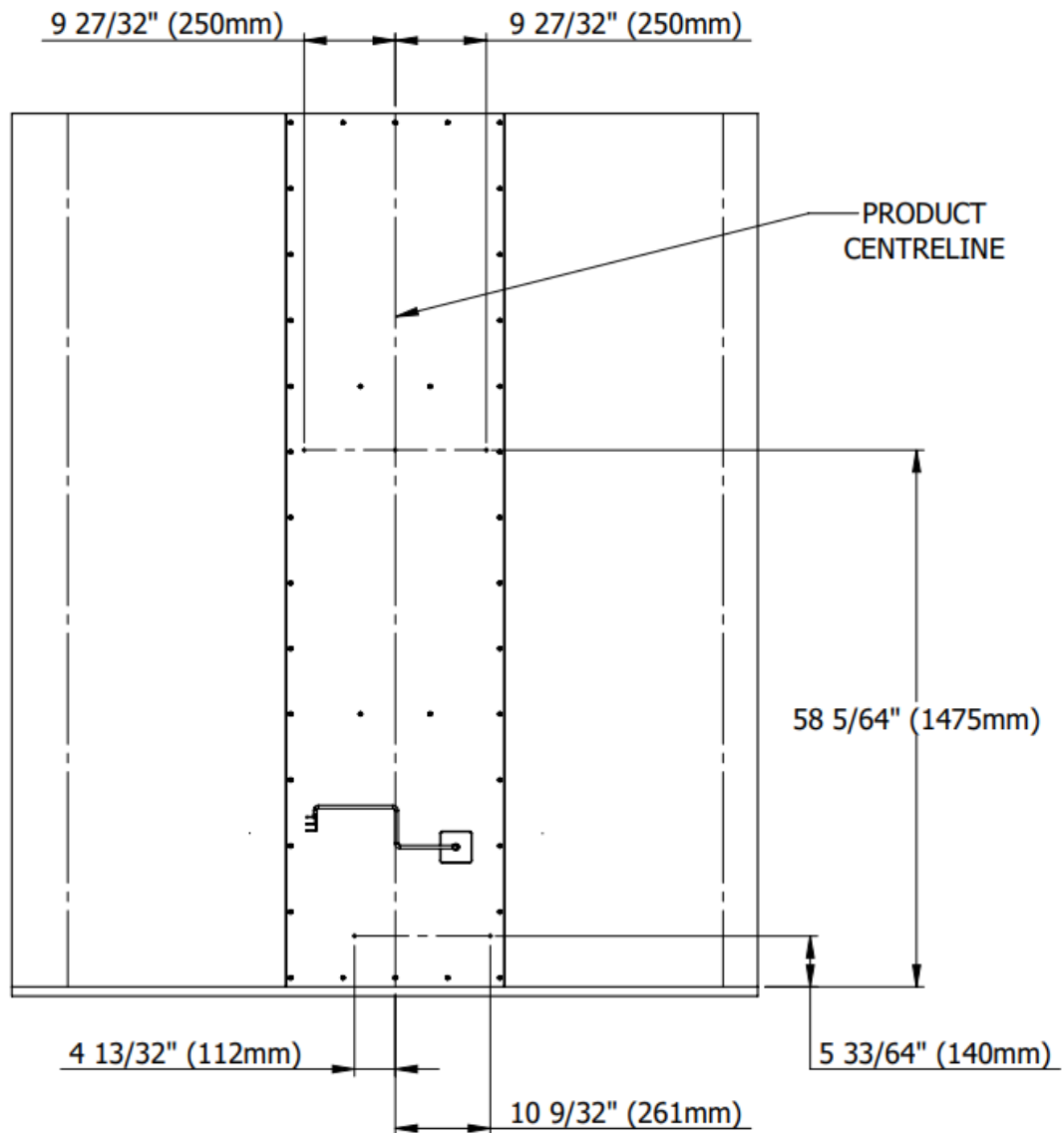


Fig 11.3

Checks:

- A sheet of 1" (25 mm) marine plywood which is at least $23 \frac{5}{8}"$ (600 mm) wide has been securely fitted in accordance with Section 11.
- The switched, waterproof flex outlet cover/faceplate has been fitted in the position shown in Fig 11.2, is no larger than the stated dimensions and flush or sub-flush with the wall.
- The entire wall has been painted and finished ready for product fitting.

Section 12

The KB2600 must be installed by a competent and qualified technician in compliance with local and national building code standards. Ensure that all pre-installation works have been carried out & checked in accordance to Section 11.

Section 12.1 Connecting the battery

The product has been supplied without the battery connected.

- Looking at the rear of the product, locate the female connector, as shown in Fig 12.1a.
- Locate the male connector coming from the battery, which is mounted on the front of the electrical board.
- Make the connection by rotating the female connector clip cover and fully insert the male connector.
- The female clip cover should then easily rotate back over to secure the connection.

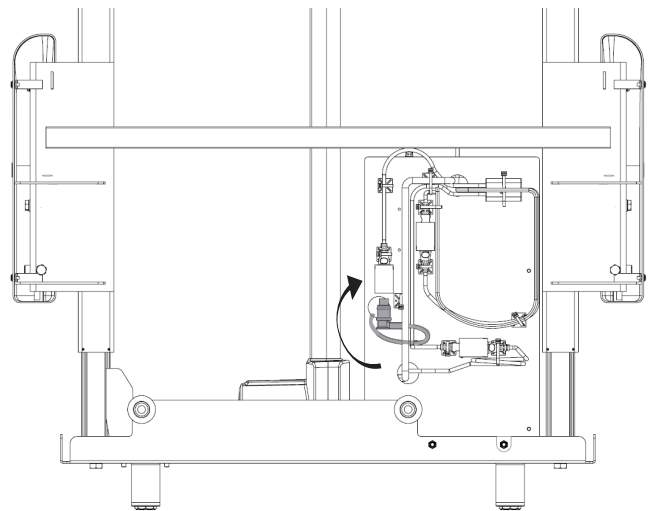


Fig 12.1a

- Tidy the cable behind the product so that it is not visible once the SBU is against the wall. Ensure it does not protrude further than any of the other cables.

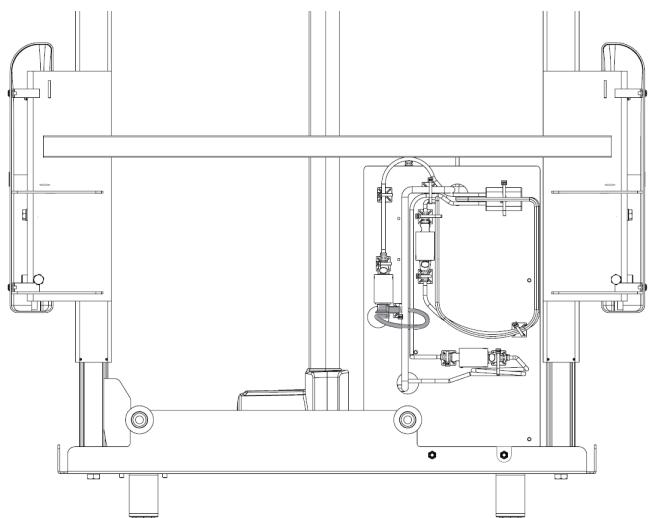


Fig 12.1b

Please note: The ON/OFF LED lights on the front of the battery are also control buttons and may turn the battery off if pressed.

Section 12.2 Connecting the power outlet



WARNING: Ensure the electrical mains supply is isolated from power while connecting the product to the mains supply.

In accordance with Section 11, the mains power supply will be wired directly into the junction box from a waterproof flex outlet.

- Position the SBU against the wall in the approximate mounting position which will allow the mains power cable to reach the junction box and puts the flex outlet within the defined area (Figure 11.2). Ensure it feeds behind the actuator.
- Remove the junction box cover to reveal three Wago connections on a single mount, this mount can be loosened from the box to facilitate making the connection to mains power.
- Feed the cable through one of the available ports on the junction box. Connect each of the mains power wires to the corresponding Wago terminal, ensuring that the connection is secure before replacing the mount within the terminal box.
- Replace the lid of the junction box.
- When the connection has been made from a flex outlet, ensure that there is minimal loose cable between the outlet and the junction box. If necessary, secure the cable against the wall to keep it safe from any moving parts.

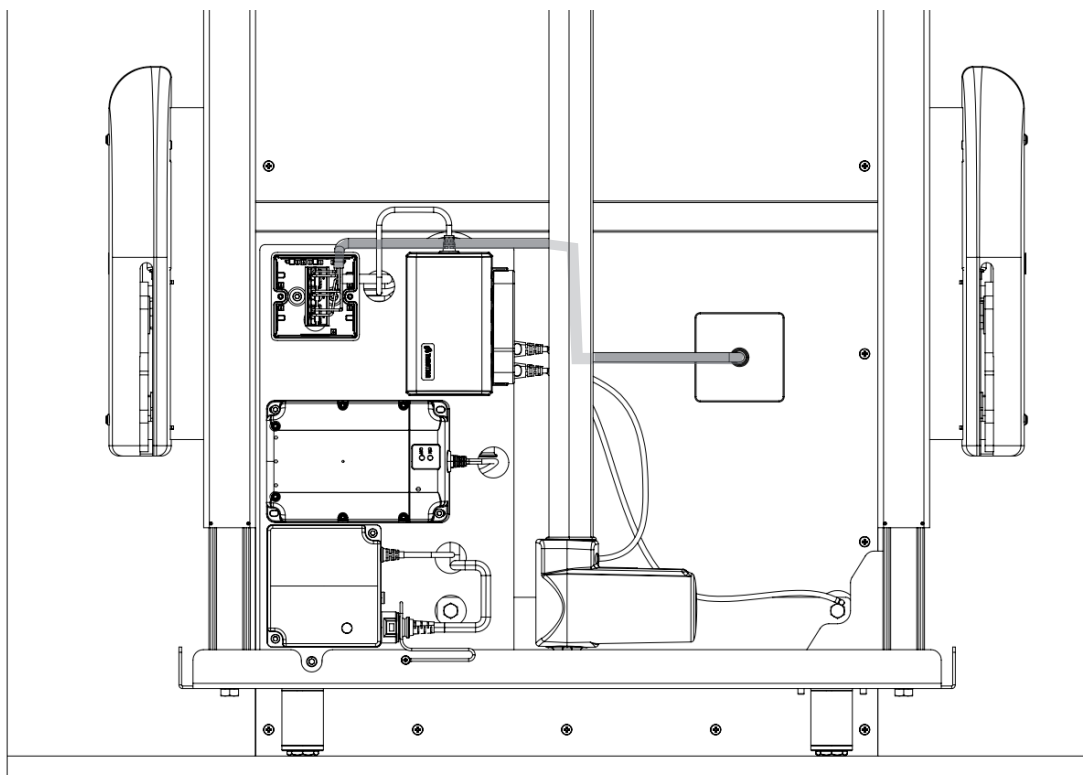


Fig 12.2

Section 12.3 Fitting the SBU to the wall

- The wall must have been suitably prepared and reinforced as explained in Section 11 during the pre-installation phase.
- Align the SBU to the wall about the centerline ensuring it is level.
- If the floor is uneven, the feet can be adjusted by rotating the black plastic screw head on the bottom of the foot up to 25/32" (20 mm).
- Position the frame against the wall in the required position. Ensure there is sufficient space to accommodate not only the stretcher, but also the clearance of 1 9/16" (40 mm) at either end of the stretcher.
- With the product in place, mark out the five fixing holes, set the SBU aside and then pilot drill with a 1/8" (3.5 mm) diameter bit.

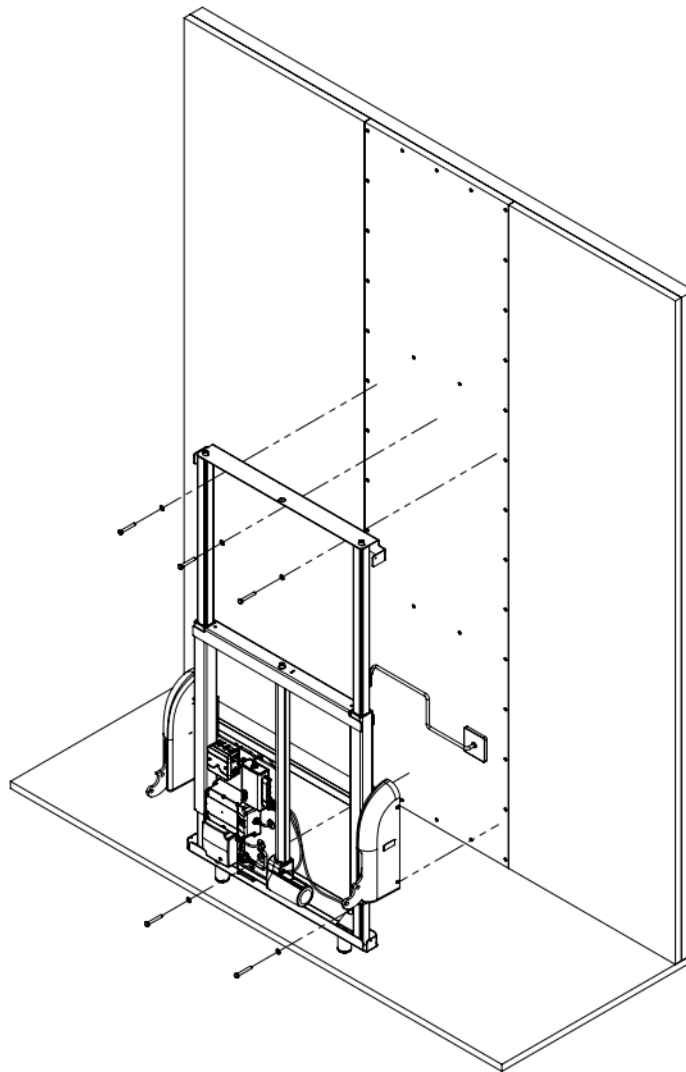


Fig 12.3a

- Reposition the frame into place.
- Using the screws and washers provided, No. 8 x 2 23/64" (60 mm) coach screws, fit the top three first and then the lower two, as shown in Fig 12.3b.
- Tighten all five screws until they are flush.

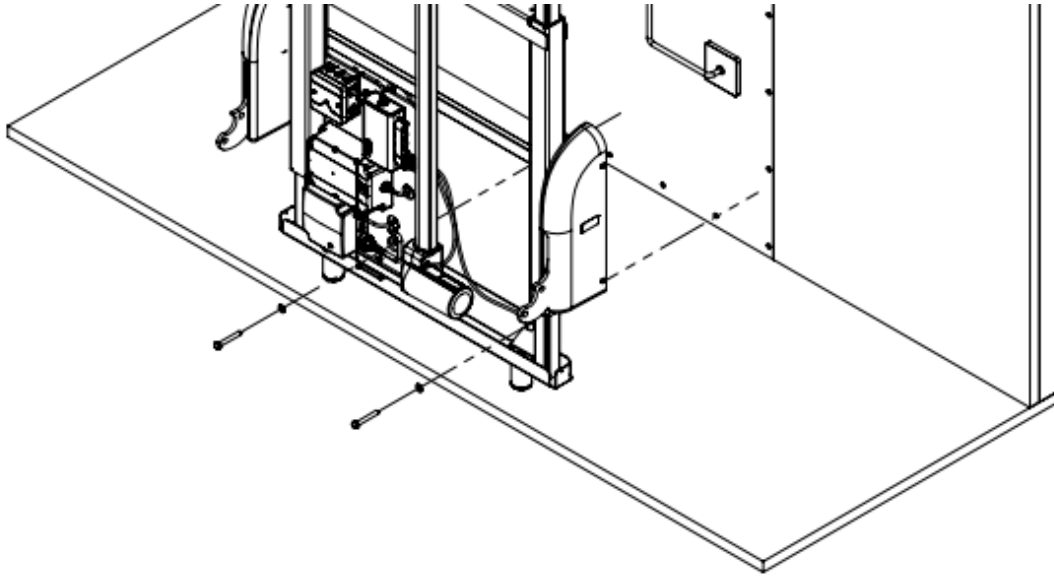


Fig 12.3b

Section 12.4 Installing the Handset and Front Cover

- The handset will need to be unplugged to allow the cover extension cable to be fitted instead.
- To remove the handset cable, the control box connector lock will need to be removed first. This may be released from the top and rotated to unhook from the bottom, Fig 12.4a.

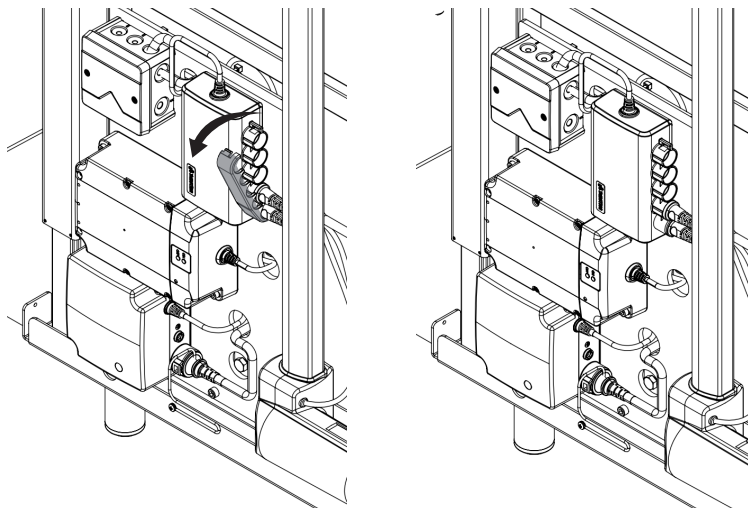


Fig 12.4a

- Remove the lowermost plug which is connected to the handset, which is shipped attached to the sliding frame.

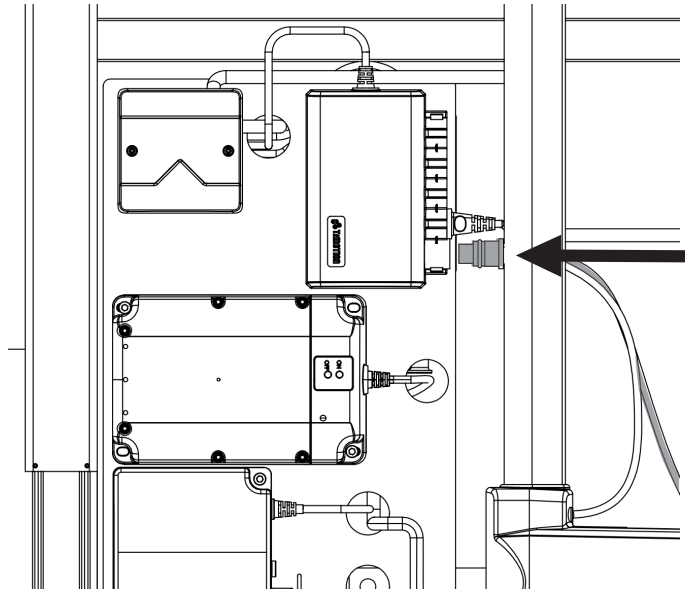


Fig 12.4b

- Locate the front cover assembly. A cable extension is fitted to the bottom right of the cover. This cable should be plugged into the port the handset was removed from.
- Ensure the cable from the cover is routed behind the actuator and plugged in fully. The connector lock should now be refitted in the same way it was removed (Fig 12.4a) . This ensures the cables are held in place and cannot pull free.
- The cover may now be fitted, using the 4 plastic rivets supplied in the packing kit. There are 2 holes located at the top and 2 at the bottom, the rivets fit through the cover and into the metal frame.

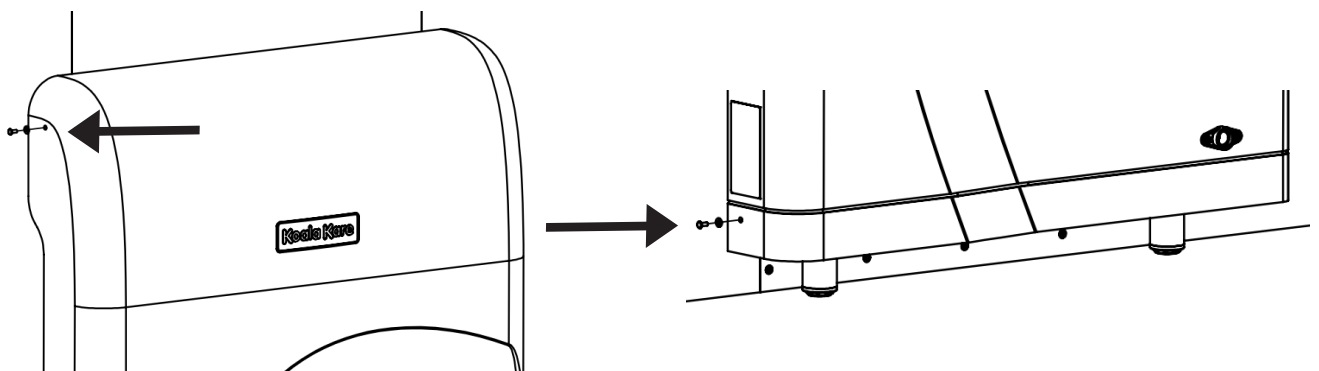


Fig 12.4c

- A Handset holder is also included in the packing kit, along with a square of 3M tape to allow it to adhere to the side of the cover.
- This should be fit high up on the right side of the cover, as shown in Fig 12.4d.

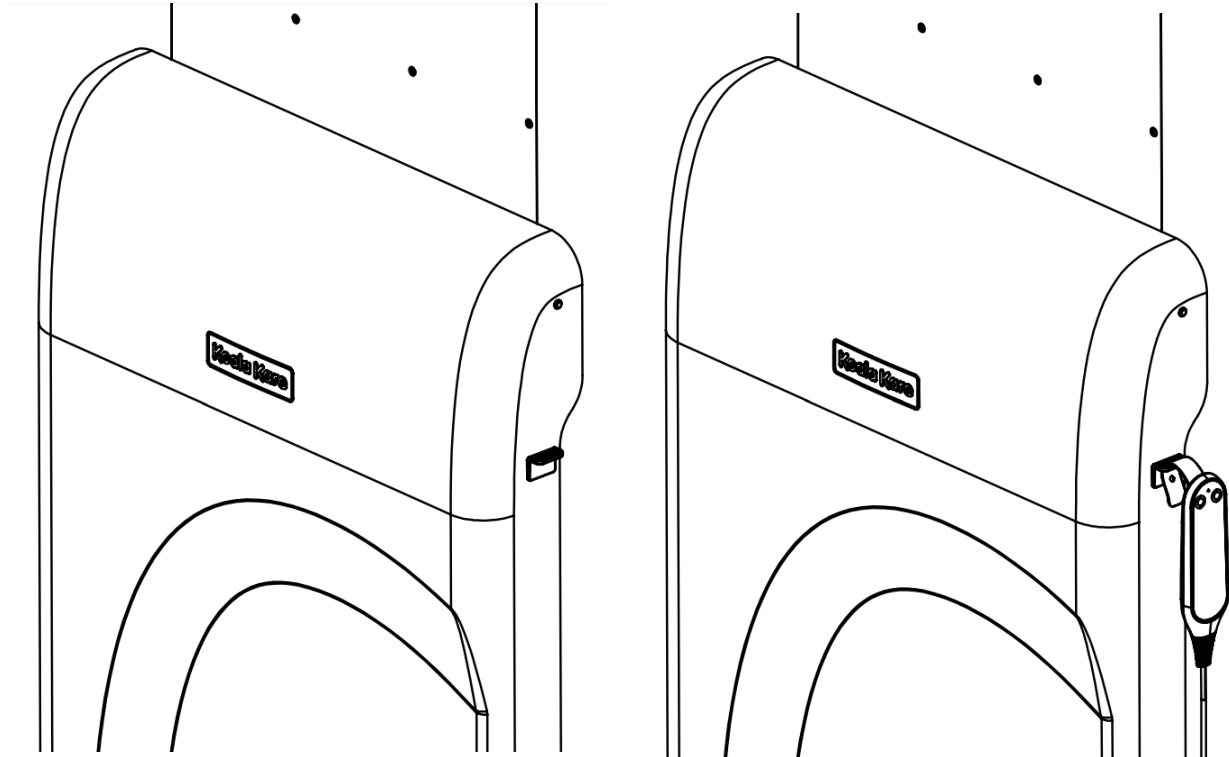


Fig 12.4d

- The handset may now be plugged in to the port at the base of the cover (Fig 12.4e) and stowed on this hook.

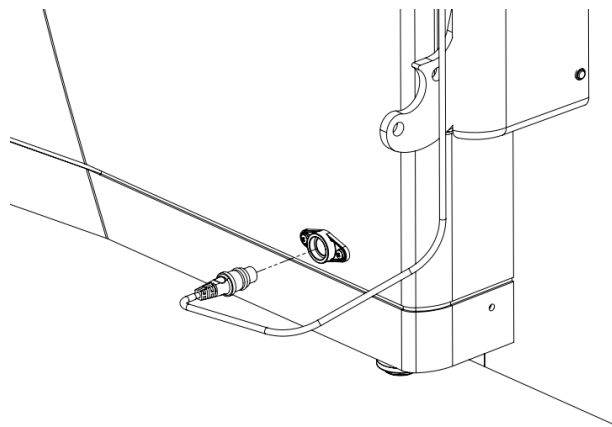


Fig 12.4e

Section 12.5 Fit the stretcher

Note: This may require two people, one to hold the stretcher and the other to secure the fixings.

- The stretcher bed brackets fit to the outside of the SBU arm plates.
- Once in position, fit the bolts, nuts, washers and caps in the order and orientation shown below.
- Ensure the handset cable does not get caught in the brackets.

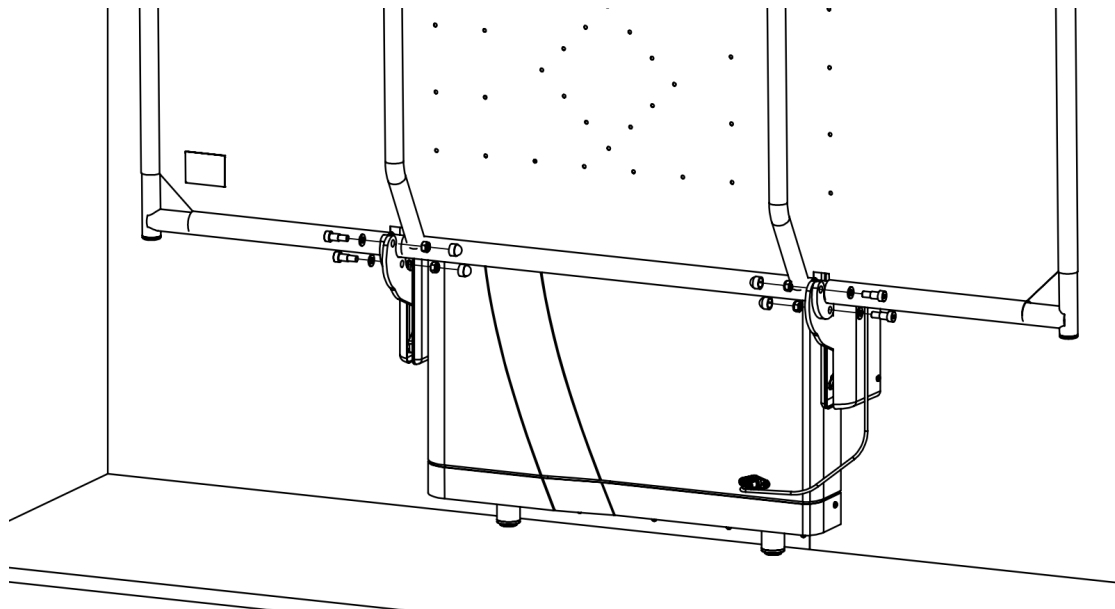


Fig 12.5

Section 12.6 Testing

Once complete, a full function test of the product is required.

Confirm the following:

- The stretcher stows vertically and deploys correctly.
- That the stretcher rises and falls with no obstructions through the full height range.
- Apply safe working load to stretcher and complete at least 3 cycles of the full height range checking for any excess noise or incorrect movement.
- The guard stows securely and is retained by the mechanism.
- The guard locks into position when deployed.

Section 12.7 Mounting the wall sign

The wall sign provided must be securely fixed to the wall in a clear and visible position near to the changing station.

- It is recommended that the wall sign be mounted next to the SBU.
- If your changing table is in the corner of a room, the wall sign can also be mounted on the perpendicular wall at a similar height.
- The wall sign must be clearly visible at all time. Ensure that the wall sign is not covered when the stretcher is stowed or by any other object in the room.
- Permanently fix the wall sign to your wall using appropriate fixings.

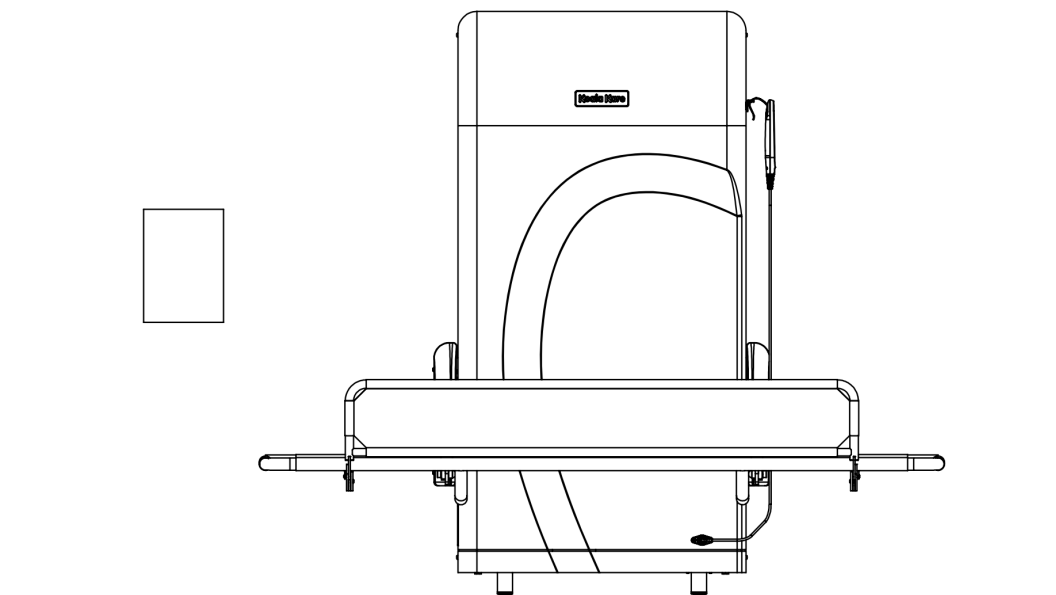


Fig 12.7

Section 13 Moving & transporting the equipment

It is anticipated that once installed, the equipment will not be transported. If you need to transport this equipment after unpacking it, please contact Koala Kare customer services team for advice (see contact details at the end of this booklet).

Section 14 Product disposal

- The steel frame is widely recycled.
- PVC material from the stretcher and guard can be recycled in some local authorities - please check and dispose of in accordance with state, federal and local regulations.
- The electronic components should be recycled in accordance with local WEEE regulations. For further advice, please contact Koala Kare:

email our support team: customerservice@koalabear.com
or call us on Main: 303.539.8300 | **Toll Free:** 888.733.3456



Section 15 Replaceable parts

The KB3000 is supplied for use with the following parts and accessories;

- **Handset** - 20.038.09.0002
- **Stretcher and Guard Assembly** - 00.038.03.0001

There are no detachable items as part of this product.

There are various parts of the product that may be replaced in the event of any failure or damage. In the event of any component failures or damage please contact us for advice;

email our support team: customerservice@koalabear.com
or call us on Main: 303.539.8300 | **Toll Free:** 888.733.3456

Section 16

Service Engineers Name	Date of Service	Actions Undertaken	Signature

Section 17

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

Notes



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