

K-Dee Bed Series - Electrically Operated Profiling Bed

K-Dee II Standard Single: B09-KDII

K-Dee II Standard King Single: B09-KDII-KS

K-Dee Classic Single: B08-KD-CLASSIC

K-Dee Classic King Single: B08-KD-CLASSIC-KS



User Instructions

K-Dee II – Single or King Single (shown with optional full-length metal rails)



K-Dee Classic – Single or King Single (shown with optional wooden rails)



Thank you for purchasing this product. The user manual should be read carefully before operating the bed. Please ensure that you understand all instructions. If you have any questions concerning the operation or maintenance of the bed please contact your provider.

1.1 Features

- Electrically operated backrest, height, and knee break angle
- Infinitely variable, electrically operated head and foot tilt functionality (Trendelenburg & reverse Trendelenburg).
- Auto contour-simultaneous adjustment of the backrest and knee-break.
- Manual foot angle adjustment/vascular support function.
- Patient handset with integral function lockout.
- Bed pulls apart into four separate sections. Major parts may be removed, easy to repair and replace.
- Optional Integral full-length steel or wooden side rails, three-quarter collapsible rails, half-length folding rails, and grab rails are available
- Optional back up battery available
- Transport stand to aid storage and bed transportation.
- Easy storage.
- Head/foot panel is beech and chipboard with melamine.
- The actuators from Dewert.
- Finish incorporates AkzoNobel Interpon® antimicrobial ingredient.
- Castors with brake.

- The bed length can be extended 200mm with an optional bed extension.
- Safety Standard is BS EN 60601-2-52:2010 and GB 9706.1-2007/IEC 60601-1:1998.European standards and quality control system

1.2 Optional Accessories

Optional Accessories in K-Dee II Standard

- Full Length Steel Rails
- $\frac{3}{4}$ Collapsible Rails
- $\frac{1}{2}$ Length Foldout Rails
- $\frac{1}{4}$ Length Grab Rail
- Self Help Pole
- IV Pole
- Extension bar
- Backup Battery

Optional Accessories in K-Dee Classic

- Full Length Wooden Rails
- Full Length Steel Rails
- $\frac{3}{4}$ Collapsible Rails
- $\frac{1}{2}$ Length Foldout Rails
- $\frac{1}{4}$ Length Grab Rail
- Self Help Pole
- IV Pole

- Extension bar
- Backup Battery

1.3 Warnings and cautions in this manual

Warnings in this user manual highlight potential hazards that if disregarded could lead to injury or death.

Cautions in this user manual highlight potential hazards that if disregarded could lead to equipment damage or failure.

2. Use

2.1 Typical use

Your bed is intended for use in the home environment, and at aged care and community care facilities. It has been designed to provide users with optimum independence and freedom of movement with a touch button handset. The bed offers greatly reduced manual handling requirements for the carer by providing a bed with a fully profiling platform and electrical height adjustment capability.

2.2 Risk assessment

Before a patient uses the bed a risk assessment must be performed on a patient by patient basis. The risk assessment should include, but is not limited to:

- Entrapment
- Falling out of the bed
- Small children (and adults)
- Patients with learning difficulties
- Unauthorised people

Warning



Bed functions must be locked out if there is any doubt about the ability of the patient to operate the bed safely

Warning



Removal or covering of the serial numbers and warning labels on the bed voids all warranties

Caution



If the bed is fitted with a backup battery the handset and control box must be unplugged while the bed is not used for an extended period and is not connected to mains power, such as when in storage

2.3 Bed load

The safe working load of the bed is: **213kg (33 stone)**

The maximum user weight of the bed is: **178kg (28 stone)**

2.4 General warning

Warning



- Misused electrical equipment can be hazardous.
- Accessories that have not been approved or designed for use with the bed should not be used.
- Electrically operated beds should not be used in the presence of flammable substances.

3. Symbol Definition

The following symbols are found on the bed:



Warning



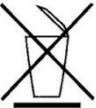
Refer to user guide



Maximum user weight & Safe working load



Place of manufacture

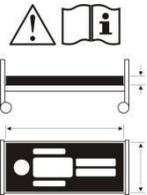


W.E.E.E Label

(Do not discard in general waste, follow local recycling policy)

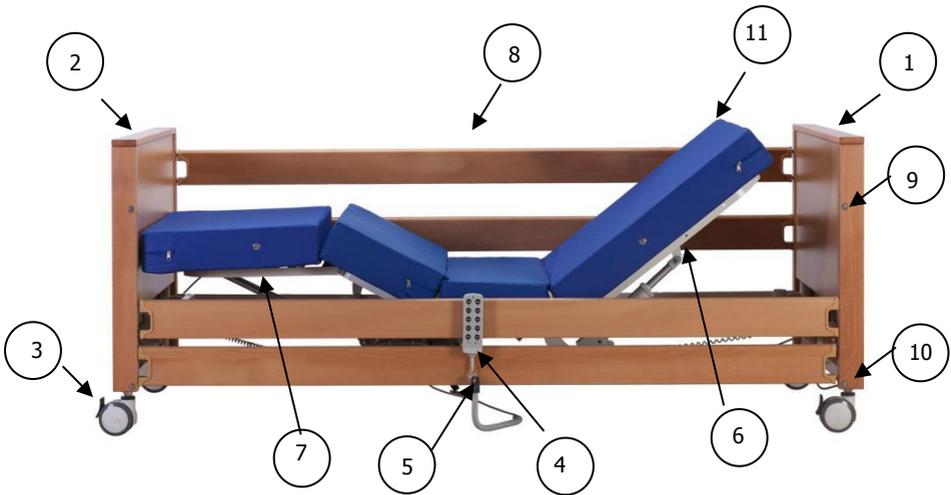


Class II, Type B



Refer to user guide for mattress suitability

4. Parts Identification



1. Head end (Classic model shown)
2. Foot end (Classic model shown)
3. Castor
4. Handset
5. Lockout fob
6. Mattress platform – Back section
7. Mattress platform – Foot section

8. Side rail
 9. Release button
 10. Install Button
 11. Mattress (Optional)
- (Transport stand not shown)

NOTE:

(1) ALL THE PHOTOGRAPHS AND PICTURES IN THE USER INSTRUCTIONS ARE FOR REFERENCE ONLY.

(2) SIDE RAILS, CASTORS, COLOUR AND HEAD/FOOT BOARD AS THE REQUIEMENT IN YOUR PUCHASE ORDER.

(3) LIFTING POLE, IV POLE, MATTRESS, SIDE RAILS AND COVERS, AND BED EXTENSIONS ARE OPTIONAL ACCESSORIES

5. Bed Assembly and Preparing for use

Warning



- Before attempting to assemble the bed, ensure these instructions have been read and fully understood.
- It is advisable to assemble the bed with a second able bodied person.
- Take care when disassembling the bed from the transport stand, the sections are of considerable weight.

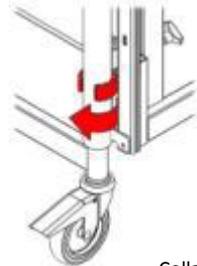
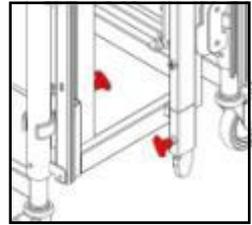


5.1 Removal from the transport stand

- **K-Dee II Standard**
 - Clear the area intended for the bed of any obstructions and ensure

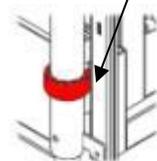
the surface is level.

- Apply the brakes to the castors.
- Loosen the hand wheels on the transport stand that hold the leg section in place and then lift this section off the stand and carefully place flat on the floor.
- Loosen the hand wheels on the backrest section (attaching it to the transport stand) and then lift this section off the stand and carefully place flat on the floor.
- Turn the locking collars on one of the bed ends so that they are both in the unlocked position.
- Carefully lift the ends of the transport stand away from the bed end and place carefully against a wall or on the floor. **Note, when the transport stands are lifted away neither bed end will be supported.**
- Turn the locking collars on the remaining bed end so that they are in the unlocked position.
- Carefully lift the ends of the transport stand away from this bed end.
- The bed has now been separated into its constituent parts.



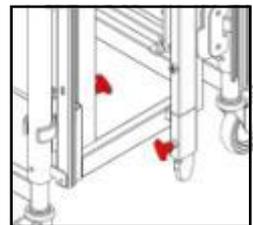
Collar

unlocked

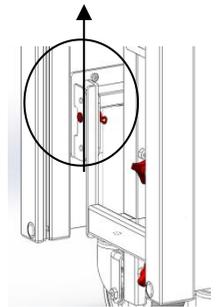


- **K-Dee Classic**

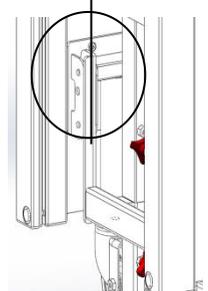
- Clear the area intended for the bed of any obstructions and ensure the surface is level.
- Apply the brakes to the castors
- Loosen the hand wheels on the transport stand that hold the leg section in place and then lift this section off the stand and carefully place flat on the floor
- Remove the clevis pins and R-clips to place the head ends and mattress platform.
- Carefully lift the ends of the transport stand away from the bed end and place carefully against a wall or on the floor. **Note, when the transport stands are lifted away neither bed end will be supported**



- Remove the clevis pins and R-clips to place the foot ends (on the remaining bed end) and mattress platform
- Carefully lift the ends of the transport stand away from this bed end.
- The bed has now been separated into its constituent parts.

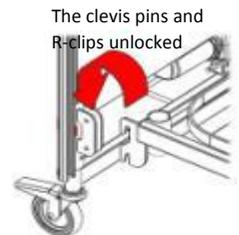


The clevis pins and R-clips locked

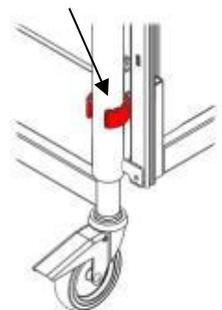


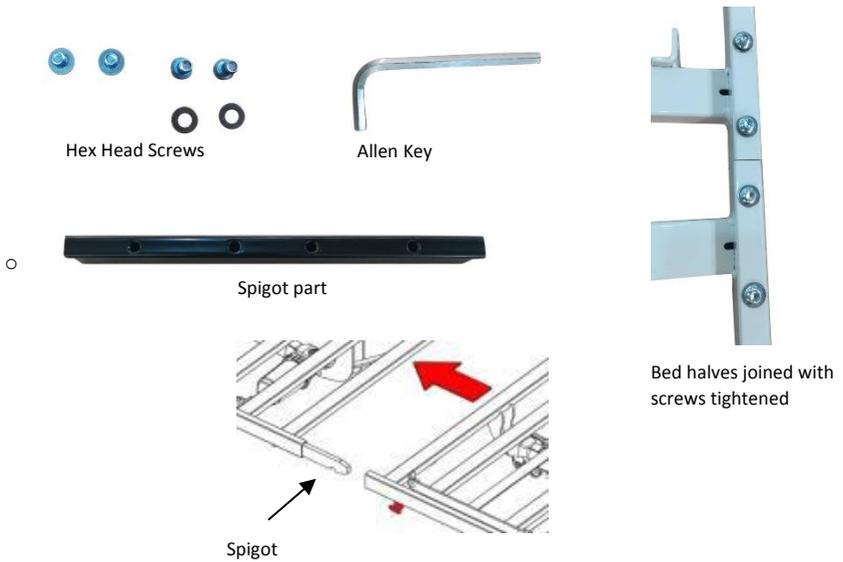
5.2 Assembling the bed

- Note: If this action is being undertaken by a single person **Cobalt Health** recommend that the castors are braked before assembly commences.
- **K-Dee II Standard**
 - Whilst supporting one of the bed ends lift one of the mattress platform halves and hook into the bed end. Turn the locking collars into their locked position.
 - Repeat for the remaining bed end and mattress platform half.
 - Release the brakes on the castors
 - Bring both halves of the bed together and align each section so that the spigots in the head end locate into the open tube ends in the foot end. Pull the two sections together and **tighten all the hex head screws with the supplied allen key**



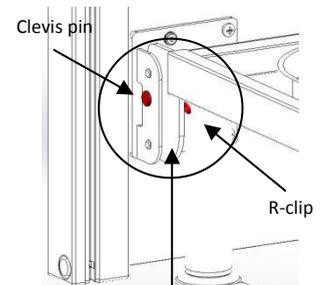
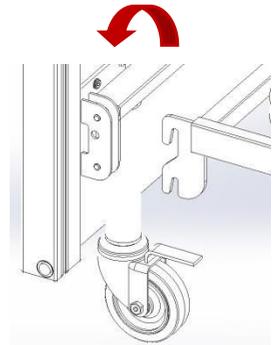
Collar locked



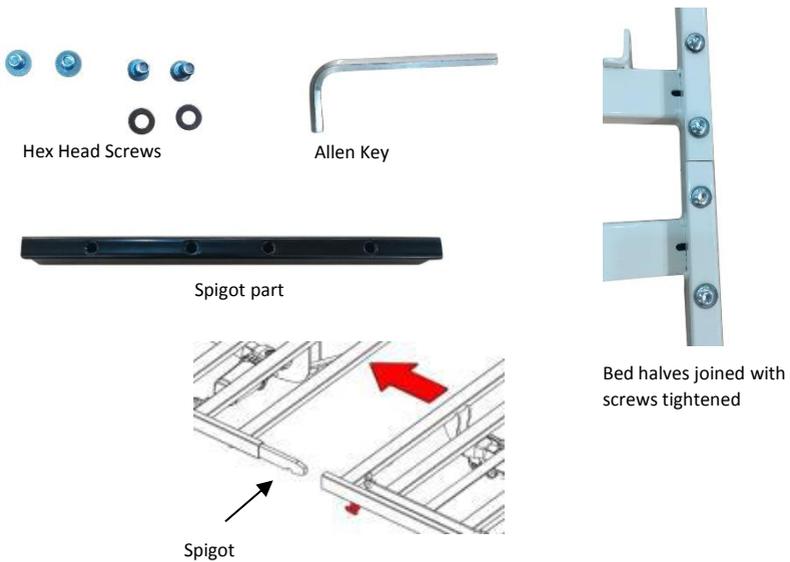


- **K-Dee Classic**

- Whilst supporting one of the bed ends lift one of the mattress platform halves and hook into the bed end.
- Insert the clevis pins and R-clips to place the head ends and mattress platform into their locked position.
- Repeat for the remaining bed end and mattress platform half.
- Release the brakes on the castors
- Bring both halves of the bed together and align each section so that the spigots in the head end locate into the open tube ends in the foot end. Pull the two sections together and **tighten all the hex head screws with the supplied allen key.**
-



The clevis pins and R-clips locked position



Warning



- The bed must never be used with the hand wheels loose or if missing.
- The bed must never be used with the locking collars/clevis pins and R-clips to place the head & foot ends and mattress platform in the unlocked position or if missing.
- The bed must never be used unless the bed has been correctly fastened in the centre using the spigot, hex head screws and allen key.

Caution



If the bed has been supplied with tie wraps/Velcro (or similar) securing any of the sections in place, ensure they are removed prior to operation.

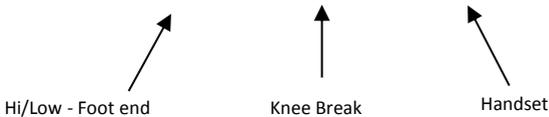
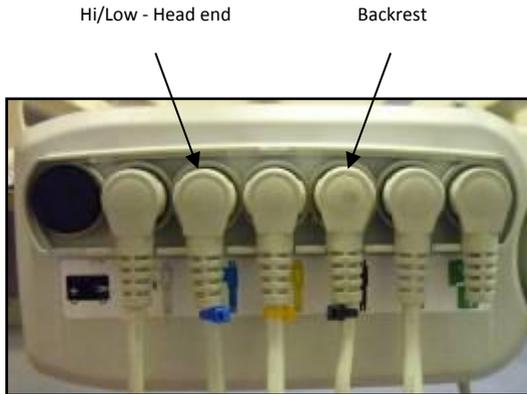
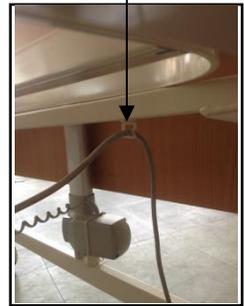
5.3 Fitting the electrical system

- Plug the actuator and handset cables into the control box. The cables are colour matched to the graphic on the control box. Using this, plug the cables into the corresponding ports. Note, the plugs only fit into the ports in one orientation. Ensure the cables are plugged fully into the control box.

Note: The two bed ends are identical but plugging them into the correct port is important. Note the cable tie colour before plugging in. (White cable tie is Hi-low foot end and blue is head end.)

- Once all the cables are connected, they are to be secured in place by attaching the supplied anti-removal clip.
- Clip the power cord into the hook on the head end section of the bed.

Power cable clip



Caution

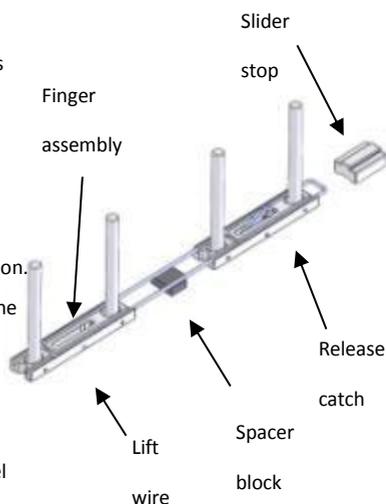


- Ensure all cables are free from moving parts and are not under excessive tension.
- Ensure the two hi/low actuators are plugged into the correct ports, if not the tilt function will not work correctly.

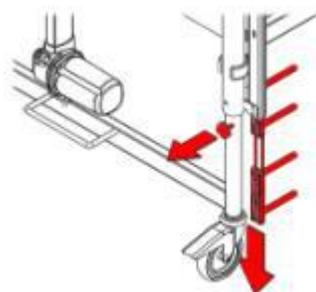
5.4 Fitting the full length side rails

* K-Dee II Standard

- Raise the bed to approximately the midpoint of its height range (see page 15 for operation of the handset).
- Lower the finger assemblies to their 'down' position. (see page 14 for an explanation of how to lower the fingers)
- Remove the hand-wheel from the side rail channel at the foot end of the bed.



- Remove the entire finger assembly set from the channel (as per top right image).
- Taking the first side rail slide the end of it into the top set of fingers that are still located in the channel at the head end of the bed. Carefully rest



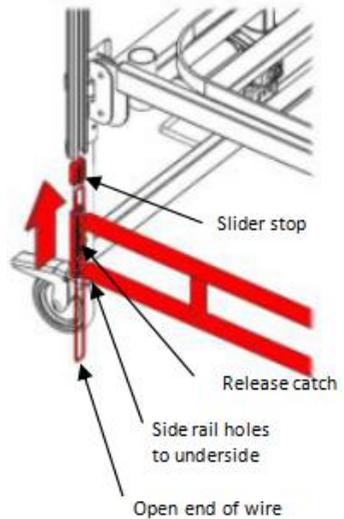
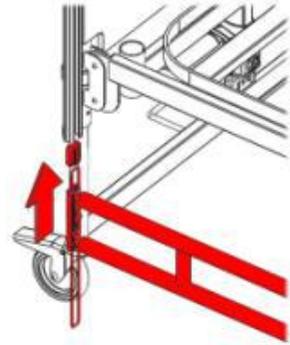
the unattached end on the floor taking care to ensure that the other end is sufficiently far into the fingers so that it will not fall out.

- Take the previously removed assembly and clip the wire into the top moulding (the top moulding is identified by the metal release catch in the middle). Ensure the open end of the wire loop is pointing towards the end of the moulding with the half moon in it.

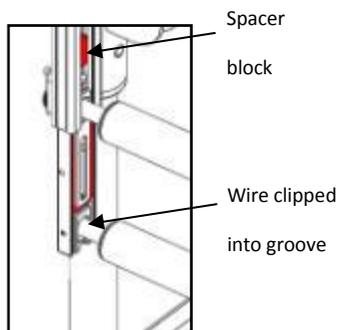
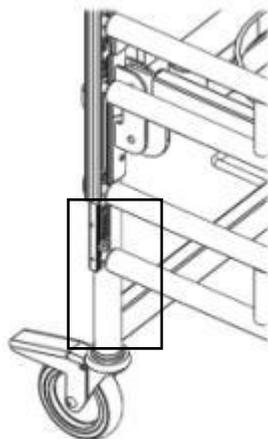
- Slide the fingers into the side rail.

- Whilst holding the fingers in the side rail, with the other hand slide the plastic slider stop into the channel. Slide the plastic finger assembly into the channel (after the slider stop). Lift the assembly until a click is heard and the mechanism locks into place, approximately 1/3 up the channel. Let go of the side rail.

- Take the second side rail and fit this into the remaining lower set of fingers that are still located in the channel at the head end of the bed. Carefully rest the unattached end on the floor taking care to ensure that the other end is sufficiently far into the fingers so that it will not fall out.



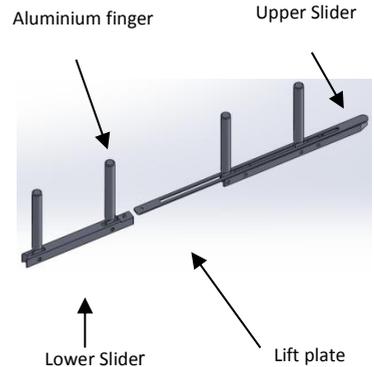
- Take the remaining finger assembly and position the top finger through the wire loop, so that the bottom finger is hanging freely under the loop. (Note, if there is no wire loop visible push it down the channel using the slider stop).
- Lift the remaining side rail and slide the fingers into the open end, ensuring that one finger remains within the wire loop.
- Whilst holding the fingers in the side rail, with the other hand slide the plastic spacer block into the channel.
- Slide the finger assembly partially into the channel. Clip the open end of the wire loop into the groove that is positioned just above the lower finger. Once clipped into place lift the complete side rail assembly to the top of the channel.
- Re-fit the previously removed hand-wheel. (The hand-wheel is orientated so that when fitted the threaded section is pointing towards the middle of the bed)



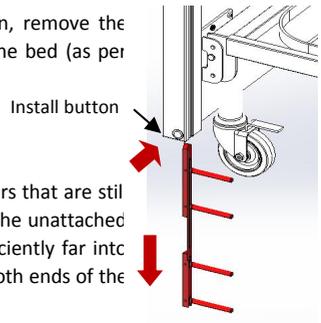
- Repeat the assembly process for the side rail on the other side of the bed.

K-Dee Classic

- Raise the bed to approximately the midpoint of its height range (see page 14 for operation of the handset).
- Lift the finger vertically upwards and depress the release button, Lower the finger assemblies to their 'down' position. (see page 13 for an explanation of how to lower the fingers/side rails).

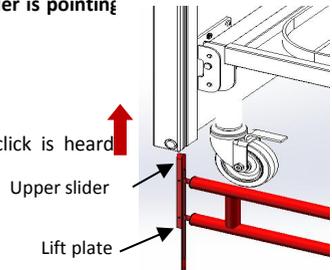


- Lift the finger vertically upwards and depress the release button, remove the entire finger assembly set from the channel at the foot end of the bed (as per top right image).
- Taking the first side rail slide the end of it into the top set of fingers that are still located in the channel at the head end of the bed. Carefully rest the unattached end on the floor taking care to ensure that the other end is sufficiently far into the fingers so that it will not fall out. Note, locate small holes on both ends of the steel side rails in bottom.



- Take the previously removed upper slider and slide the fingers into the side rail. **Ensure the cuspidal end of upper slider is pointing towards the top.**

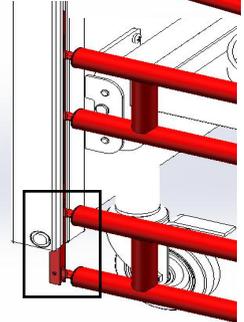
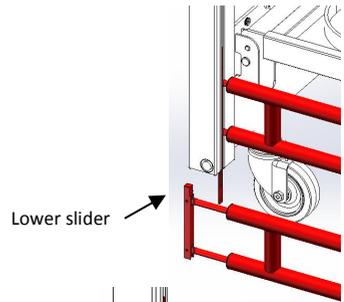
- Slide the upper slider into channel, lift the side rail until a click is heard ensure the upper slide have been held by install button.



- Take the second side rail and fit this into the remaining lower set of fingers:



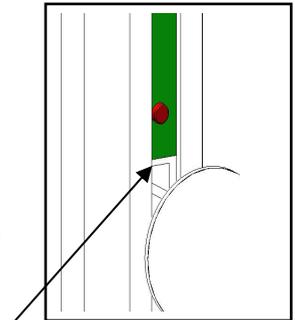
that are still located in the channel at the head end of the bed. Carefully rest the unattached end on the floor taking care to ensure that the other end is sufficiently far into the fingers so that it will not fall out.



- Take the previously removed lower slider and slide the fingers into the side rail. **Ensure the slider is facing the correct way with the upper slider at the top.**
- whilst holding the lower slider in the side rail, with the other hand place the locating pin into the hole under the lift plate.

- Slide the lower slider into channel, lift the side rail until a click is heard, ensure the upper slide have been held by install button.

- Repeat the assembly process for the side rail on the ^{Locating pin} other side of the bed.



Warning



If there is any doubt about the assembly of the side rails contact the provider of the equipment, incorrectly fitted side rails can lead to death.

5.5 Checking the bed

Once the bed is fully assembled, it is important to check the bed is correctly assembled to ensure safe use:

- Check that the locking collars on the corners of the bed correctly orientated in the locked position (K-Dee II Standard)
- Check that all clevis pins and R-clips for motors are present (K-Dee Classic)
- Check that all clevis pins and R-clips to place the head & foot ends and mattress platform are present (K-Dee Classic)
- Check that the hex head screws which tighten the two halves of the mattress platform fastened tightly
- Raise and lower the safety sides. Check that they move smoothly.
- Check the release button and install button move smoothly. (K-Dee Classic)
- Has all packaging been removed, e.g. cable ties/Velcro securing the platform sections?
- Are the cables free of all moving parts of the bed and is there sufficient slack in the cables to allow for movement?
- Is the bed clear of obstructions?
- Has a risk assessment been performed on the suitability of the bed for the user?

6. Operation of the Bed

6.1 General safety

- When the bed is operated, ensure that obstacles such as over-bed tables and other furniture are not causing an obstruction.
- Ensure the electrical cables are not in tension.
- Ensure that any mattresses used are of the correct size and type and have been fitted correctly. A range of suitable pressure relieving and pressure reducing mattresses are available from **Cobalt Health**.
- Before operating the bed ensure the patient is positioned appropriately.

- When a patient is left unattended ensure the bed is set at its minimum height.



Caution

Special care should be taken when fitting an air mattress to the bed as incorrect fitting could damage the bed frame.

6.2 Preparing for use

Prior to operating the bed for the first time the following simple checks must be performed:

- Ensure the bed and all accessories are at room temperature.
- Ensure the bed has been cleaned and disinfected (page 21).
- Ensure the power cord is plugged into an appropriate power socket.
- Ensure the brakes on the castors at the head end of the bed have been applied.
- Using the handset ensure the bed is level (see page 14 for handset operation).

Note, if the electrical functions do not operate ensure the handset has been 'unlocked' (see page 14 for handset operation)

6.3 Brake system

The bed has 4 braked castors.

- To apply the brakes: Press the brake pedal down.

- To release the brakes: Lift the brake pedal up.

When the bed is in use ensure the brakes on the castors at the head end of the bed have been applied.

Warning



- If the bed is to be pushed up/down a slope it is advised that two people move the bed, with one person at each end.
- If the bed is to be pushed with a heavy load it should be assessed whether or not two people should move the bed, this is dependent on the situation and load on the bed.

6.4 Side rails

Side rails can be added to the bed as an optional accessory to the bed. Cobalt Health offers a range of different options, including:

- Full length metal rails
- Full length wooden rails (K-Dee Classic only)
- ¾ Collapsible Metal Rails
- ½ length fold-out rails in either wood or metal
- Grab rails

When specifying a mattress and side rail combination a clinical assessment of the patient's needs must be carried out in line with the local policy.

If a bed length extension is used, the full-length rails cannot be used.

6.4.1 Mattress thickness

Warning



- Full length side rails in highest position = 270mm maximum mattress thickness
- Side rails must only be used with a mattress of the correct size and type that is approved for use with this bed.

If an overlay air mattress is used it may be necessary to use a thinner foam mattress for the combined height to maintain the 270mm dimension.

6.4.2 Operating the side rails

Warning

- Ensure the side rails are always locked in place when in the raised position.
- A risk assessment should be carried out to consider the age, condition and size of the patient to assess the suitability of side rails.
- Side rails are not designed to act as restraints for patients.
- Side rails are not designed to be used as a patient lifting aid.
- When operating the side rails ensure they are free from obstructions, to prevent injury/entrapment.



Caution

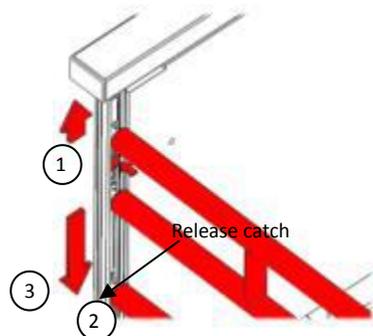
- Do not use the side rails to move the bed.
- When lowering do not drop the side rail.



- **K-Dee II Standard**

To lower:

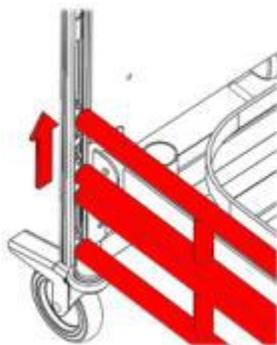
1. Lift the side rail vertically upwards.



2. Depress the release catch.
3. Gently lower the side rail (the release catch can be let go of when lowering side rail).

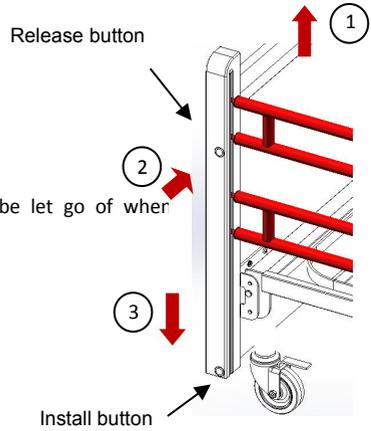
To raise:

1. Lift the side rail until it is heard to latch into position at the top height.



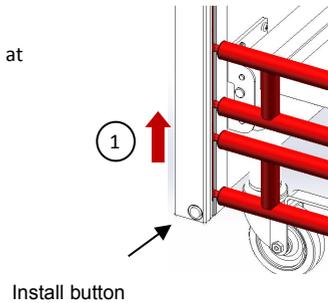
To lower:

4. Lift the side rail vertically upwards.
5. Depress the release button.
6. Gently lower the side rail (the release button can be let go of when lowering side rail).



To raise:

2. Lift the side rail until it is heard to latch into position at the top height.



6.5 Electrical operation

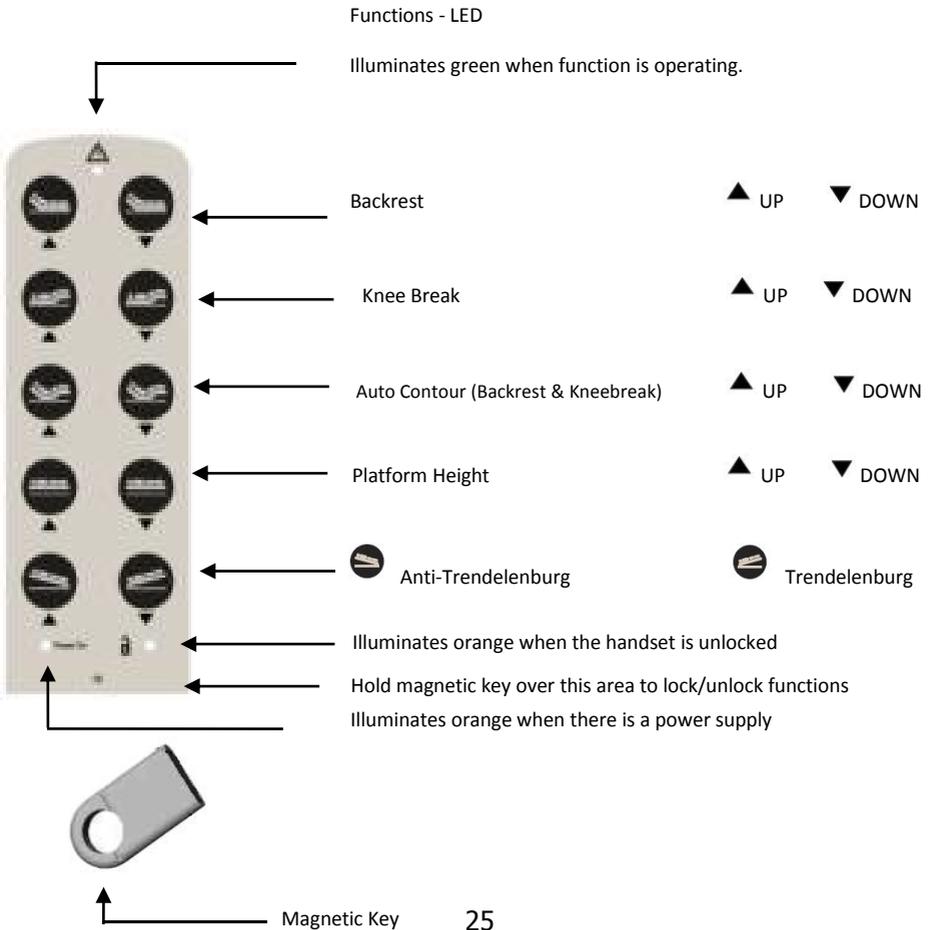
The bed is supplied with an easy to use handset, the handset can either be operated by the occupant or carer. If the carer is to operate the bed, ensure that the occupant is made aware of the action(s) about to take place.



Warning

- Ensure the risk assessment is undertaken to ensure the suitability of the occupant using the handset.

6.5.1 Handset function



6.5.2 Lockout function

The nurse handset is supplied a magnetic key with a lockout function which enables the carer to disable the handset if it is deemed unsuitable for the occupant. To lock/unlock the handset, swipe the magnetic side over the padlock symbol.



The handset is locked when the bed just has a power supply.

Warning



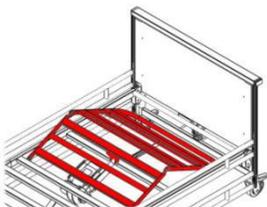
If the bed is not fitted with a battery backup facility, the bed must always be plugged into the mains power supply during normal use.

6.6 Knee break/leg section

Note: The operation of the knee break/leg section dependent on the position of the ratchet as detailed below.

The bed is fitted with an adjustable leg section. When the knee break function on the handset is operated the height or angle of the leg section is adjusted, depending on whether or not the leg section ratchet is set.

Knee break height/angle adjustment:

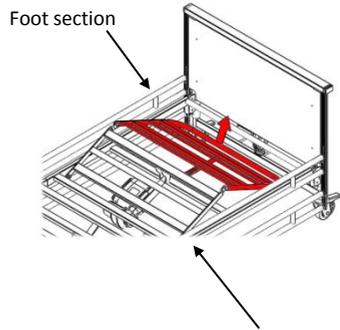


Leg section height adjustment:



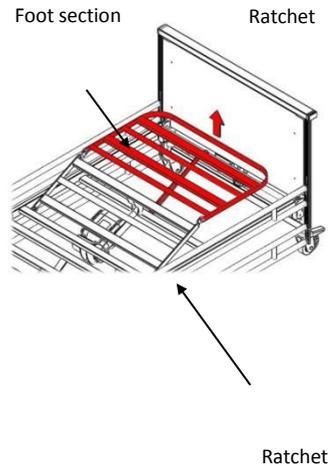
To set the bed so that the leg section is raised – Vascular Support Function

- Press the knee break button on the handset and raise the knee break (height not important).
- Lift the foot section a little so that the ratchet engages.
- The leg section height adjustment will now be set.



To set the bed so that the knee break is raised:

- Press the knee break button on the handset and raise the leg section (height not important).
- Lift the foot section a little so that the ratchet disengages.
- Gently lower the foot section down.
- The knee break height/angle adjustment will now be set.



7. Assembly onto the Transport Stand

Warning



- Before attempting to assemble the bed onto the transport stand ensure these instructions have been read and fully understood.
- It is advisable to assemble the bed with a second able bodied person.
- Take care when assembling the bed onto the transport stand, the sections are of considerable weight.

Side rails

- Raise/lower the bed to approximately its mid height (see page 14 for operation of the handset).
- Lift the side rail vertically upwards and depress the release button, lower the side rail to its bottom position (the lower slider will partially protrude from the channel).
- Lift the finger vertically upwards and depress the install button, while holding the lower side rail unclip the lift plate from the lower slider and carefully slide out of the channel.
- Carefully remove the lower side rail.
- Lift the finger vertically upwards and depress the install button, while holding the upper side rail press the install button and carefully slide the upper slider out of the channel.
- Relocate the finger assemblies into the channel (see page 9 & 10 for assembly operation).
- Repeat for the other side of the bed.

Electronics

- Flatten and lower the bed to its minimum height (see page 14 for operation of the handset).
- Unplug the power cord from the power socket.
- Using a flat bladed screwdriver remove the anti-removal clip from the control box.
- Unplug the hi/low and backrest actuator cables from the control box (see page 8).

Bed frame

- Release the brakes from the castors.
- Loosen the hex head screws in the middle of the bed frame with the provided allen key
- Whilst supporting both halves of the bed frame split the bed in half and gently lower onto the floor.
- Remove the clevis pins and R-clips to place the head ends and mattress platform into their unlocked position.
- Whilst supporting the bed end lift the platform half away and gently position both sections on the floor/against a wall.
- Repeat for the remaining half of the bed.
- Using the 2 orange Velcro straps that first came with the bed, secure the moving parts of the backrest and leg section to the bed frame halves.

Assembling onto the stand

- Position both transport stand brackets onto one bed end, taking care to ensure the brackets are both orientated in the same direction.
- Insert the clevis pins and R-clips to place the head ends and mattress platform into their locked position.
- Hook the remaining bed end onto the transport stands.
- Insert the clevis pins and R-clips to place the head ends and mattress platform into their locked position.
- Lock the castors.
- Loosen the hand-wheels on the transport stands.
- Carefully lift the backrest section and lower the spigots through the open tubes on the side of the transport stand brackets, ensuring the electrics are facing inwards.
- **Tighten the hand-wheels on the transport stands.**
- Carefully lift the leg section and lower the open end onto the vertical bars, ensuring the electrics are facing inwards.
- **Tighten the hex head screws on the leg section frame.**

- Ensure all cabling is neatly wrapped around the relevant bed sections and is not dragging on the floor or is under excess tension.



Warning

The bed must never be moved on the transport stand with the locking collars in the unlocked position or if missing.

8. Power Failures

The bed has an optional battery back-up which must be purchased at time of order. As standard, the bed does not have a battery backup. In the event of a power failure the bed will not function, resulting in the backrest and/or knee break remaining up, if previously raised.

The backrest and knee break are operated via two individual actuators that are located underneath the mattress platform.

- If either the backrest or knee break is raised, locate the actuator supporting the relevant section.
- Hold/support the section.
- Remove the pins that hold the actuator in place.
- Gently lower the section(s) to the flattened position.

Warning



- It is recommended that 2 carers support the section prior to removing the pin.
- When the pins are removed there is nothing supporting the section, the carer(s) holding the frame must be ready to support the weight on removal of the pin.

9. Decontamination

Infection control and routine cleaning must be carried out in accordance with your local Infection control policy or regulatory body.

Warning



Always disconnect the bed from the main power supply prior to cleaning.

It is advisable to remove any accessories that are fastened to the bed.

These instructions apply to all accessories apart from soft products (e.g. mattresses).

- All surfaces to be wiped down with a disposable soft cloth moistened with a mild detergent and diluted in warm water (40°C).
- The bed should be cleaned by starting with the cleanest parts of the bed and systematically moving to the dirtiest parts. Extra care should be taken around areas where excess dirt or dust may gather.
- The cloth should be changed during the cleaning process if it becomes soiled.
- Rinse down with clean water to remove detergent residue.
- Wipe surfaces down with 1,000 parts per million chlorine solution (0.1%)
- Dry off with a paper towel.
- Always ensure the cleaned parts are dry before putting the mattress back in place.

Note: If any of the 3 stages stated above (detergent, rinse down & chlorine solution) are omitted or combined it will reduce the effectiveness of the clean.

In cases of blood spills or other bodily fluids it is recommended that a chlorine solution of 10,000 parts per million (1%) is used instead.

Note: The use of neat bleach or similar surface cleaners are not recommended as damage may be caused to the cleaned surfaces.

Alternatively:

Cobalt Health recommended the use of Chlor-clean tablets. Follow the manufacturer's instructions for concentration guidelines and instructions for use.

Refer to the **Cobalt Health** infection control policy, copies are available from **Cobalt Health**. Contact details can be found on the back of this booklet.

10. Maintenance

Only authorised service personnel or **Cobalt Health** service engineers should carry out repairs or service activities. Failure to do so may result in the manufacturer's warranty becoming void. **The bed must be serviced once yearly, as a minimum. Cobalt Health** also recommends that the carer performs frequent visual and operational inspections. If there are any signs of damage or the bed is not performing as it should withdraw it from service until the bed has been repaired and is fit for use again.

Periodically check to ensure that:

- The bed operates as per its intended purpose.
- All parts are present.
- All fixtures and fittings are tight.
- The frame is mechanically sound.
- No parts show signs of excessive wear.
- The bed is cleaned following the guidelines in this user guide.

Disposal of components must comply with local policy.

10.1 Fault finding

Listed below are a set of electrical faults that may occur within the service life of the bed. If a fault does occur please try the following suggestions, as these may help in diagnosing the fault.

Fault	Possible Cause	Remedy
Electrical function(s) do not work	Functions locked out on handset	Unlock function(s)
	Power cord not plugged into the control box or wall	Check to see if the 'power on' light on the handset is lit and the power cord is plugged in at both ends

	Fuse has blown in the power cord	Check to see if the 'power on' light on the handset is lit, if not replace fuse
	Actuator/handset leads not plugged in	Check plug connections on the control box
	Damage to power cord, actuator cable or handset cables	Turn off at the socket and contact the approved service engineer
	Heavy load on the bed and the duty cycle has been exceeded	Remove load and allow control box to cool before re-operating
Electrical functions working slowly	Heavy load on the bed	Remove load

10.2 General maintenance

Cobalt Health recommended that the following maintenance procedure is performed every 12 months.

Warning



Always disconnect the bed from the main power supply prior to performing any maintenance procedures.

- Check that all electrical functions operate correctly on the handset.
- Check that all electrical cables are in good condition.
- Check that the power cord and plug are in good condition, if either is damaged it must be replaced as a complete assembly, the plug must never be re-wired.
- Check that all nuts, bolts and fasteners are tight and that none are missing or incomplete.
- Check that all clevis pins and R-clips for motors are present.
- Check that all clevis pins and R-clips to place the head & foot ends and mattress platform are present.
- Check that all hand-wheels are present and tight.

- Check that both the knee break and leg rest functions work correctly.
- Check the castors lock/unlock correctly and that when locked the castors do not move.
- Check that the frame is mechanically sound.
- Raise and lower the safety sides. Check that they move smoothly.
- Check the release button and install button move smoothly.
- Check that the lock on the safety sides automatically engages when raised.

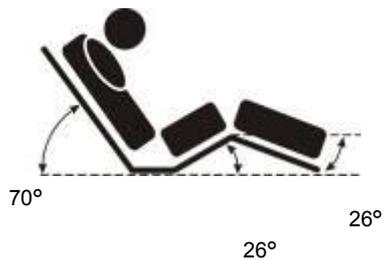
For more detailed service information please contact **Cobalt Health**.

11. Specification

11.1 Bed data – K-Dee II Standard

Overall length	Single & King Single: 2220mm
Overall height	Single & King Single: 850 – 1240mm
Overall width	Single: 980mm King Single: 1160mm
Mattress platform height	Single & King Single: 335mm – 725mm
Under bed clearance (to underside of frame)	Single & King Single: 295mm
Under bed clearance (to underside of actuator)	Single & King Single: 145mm
Mattress platform length	Single & King Single: 2010mm
Mattress platform width	Single: 880mm King Single: 1050mm
Head down tilt	0 – 11°
Foot down tilt	0 - 11°

Mattress platform angles (max)



Safe working load	213kg
Maximum user weight	178kg

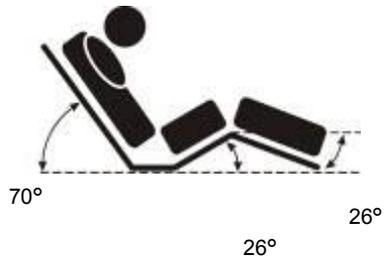
Product weight:

- Bed without side rails 75kgs
- Steel side rails (full length) 15 kgs

11.2 Bed data – K-Dee II Classic

Overall length	Single & King Single: 2160mm
Overall height	Single & King Single: 850 – 1240mm
Overall width	Single: 980mm King Single: 1160mm
Mattress platform height	Single & King Single: 315mm – 705mm
Under bed clearance (to underside of frame)	Single & King Single: 275mm
Under bed clearance (to underside of actuator)	Single & King Single: 120mm
Mattress platform length	Single & King Single: 2020mm
Mattress platform width	Single: 880mm King Single: 1050mm
Head down tilt	0 – 11°
Foot down tilt	0 - 11°

Mattress platform angles (max)



Safe working load **213kg**

Maximum user weight **178kg**

Mattress sizes:

Single:

- Length 2000mm –maximum
- Width 870-900mm – recommended (900mm – maximum)
- Thickness see page 12

King Single:

- Length 2000mm –maximum
- Width 1030-1060mm (1060mm – maximum)
- Thickness see page 12

11.2 Electrical data

Voltage in 100 - 240V, ~50/60Hz

Current in Max. 3,15A

Duty rating 10% Max, **2 mins** of continuous use followed by **18 mins** not in use.

Safety standards BS EN 60601-1: 2006

BS EN 60601-2-52:2010

EMC BS EN 60601-1-2:2002

Electrical shock protection



Liquid ingress protection IP54

The electrical system is only suitable for use when:

Ambient temperature	+5° to +40°C
Humidity	20% - 90% at 30°C

12. Warranty

Cobalt Health guarantees this product is free from defects in material and workmanship under normal use for 5 years on the frame, 2 years on electronics (excluding hand control), 1 year on the hand control (full parts and labour) from the date of purchase from **Cobalt Health** and its subsidiary companies or its authorised dealers. All implied warranties, including but not limited to those implied warranties of fitness and merchantability, are limited in the total duration of one year from date of purchase. Proof of purchase must be presented with any claim. Except as provided herein, **Cobalt Health** product warranty does not cover damage caused by misuse or abuse, accident, the attachment of any unauthorised accessory, alteration to the product, or any other conditions whatsoever that are beyond the control of **Cobalt Health**. **Cobalt Health** and its subsidiary companies shall have no liability or responsibility to customer or any other person or entity with respect to any liability, loss or damage caused direct or indirectly by use or performance of the product or arising out of any breach of this warranty, including but not limited to any damages resulting from inconvenience, loss of time, property, revenue, or profit or any indirect, special, incidental or consequential damages, even if **Cobalt Health** or their subsidiary companies or authorised dealers has been advised of the possibility of such damages.

In the event of a product defect during the warranty period you should contact **Cobalt Health** or their authorised dealer who will at its option unless otherwise provided by law; a) correct the defect by product repair without charge for parts and labour b) replace the product with one of the same or similar design or c) refund the purchase price. All replaced parts and products on which refund is made become the property of **Cobalt Health**. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover;

- a) damage or failure by or attributes to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alterations, lightning or other incidence of excess voltage or current.
- b) any repairs other than those provided by a **Cobalt Health** authorised technician.
- c) consumables such as fuses.
- d) cosmetic damage.
- e) transportation, shipping or insurance costs .
- f) costs of product removal, installation setup service adjustment or re-installation.

This limited warranty gives you specific legal rights and you may also have other rights.

Cobalt Health cannot be held responsible for any injury or incident which relates to the use of this bed in conjunction with accessories manufactured by companies other than **Cobalt Health**.

Cobalt Health has a policy of continual product improvement and reserves the right to amend specifications covered in this brochure.

No part of this brochure may be reproduced without the written approval of **Cobalt Health**.

The manual may be updated or revised without advance notice.

Warranty Card

Please retain this Warranty Card and your Invoice as proof of purchase. In the event of a warranty claim, please present these documents along with the product.

Purchaser's name	
Address	
Product Name	Single: B08-KD-CLASSIC King Single: B08-KD-CLASSIC-KS <input type="checkbox"/> <input type="checkbox"/>
Serial No	
Invoice No	
Invoice date	

COBALT

HEALTH

Contact information

Tel: +61 2 88531100

www.cobalthhealth.com.au

Showroom: Unit 34, 9 Salisbury Road
Castle Hill, NSW, 2154, Australia

Postal address: PO Box 502
Beecroft, NSW, 2119, Australia