



# DEUTSCHER HEALTHCARE

## FLOORLINE BED

### ROSE II



#### FLOORLINE MEDICAL BED

For Aged Care, Hospital and Home use

Models: WMR 1080 (HC, LC)  
WMR 1090 (HC, LC)  
WMR 1090BT

## OPERATION & MAINTENANCE MANUAL

Manufactured by Deutscher Healthcare | Ballarat VIC, Australia  
[www.deutscherhealthcare.com.au](http://www.deutscherhealthcare.com.au)



# DEUTSCHER HEALTHCARE



**QUALITY BEDS & ACCESSORIES**



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# INTRODUCTION

The Deutscher Floorline bed has been designed to provide years of trouble free service. It's very low minimum height reduces the need for side rails and reduces the harm risk associated with falls. Designed and tested to **IEC 60601-2-52:2010+A1:2015** to support a rated load of 220Kg\* and extensively tested, this bed has a folding, robust, steel frame supported on stable end towers, facilitating easy storage and transport.

\*Maximum patient weight of 190Kg + 30Kg (estimated) for mattress and bedding.

WMR1090BT Bariatric Version

Supported rated load 350kg (Max patient weight 310kg + 40kg for mattress and bedding)  
This bed is referred to as the BT bed in this manual.

# GENERAL INFORMATION

The bed is not intended for use by children or psychiatric patients. Caregivers must use their professional judgment to determine the risk of patient injury when using this bed, while taking into consideration not only the physical, psychological and medical needs of the individual, but also the patient's preference.

**IMPORTANT:** Ensure the end of the bed nearest the wall is at least 400mm from the wall with the mattress base horizontal. This will allow room for the end to clear the wall if the Bed is reverse Trendelenberg tilted.  
(BT does not have Trendelenberg)



**SAFETY WARNING :** To eliminate the risk of electrocution, only connect the power plug to a power socket fitted with a residual current device (safety switch). Ensure the power supply cable cannot be caught in the mechanism when the bed is fully raised and lowered. If the cable is caught or damaged under the wheels or in the bed mechanism, do not touch the frame of the bed. Immediately switch off the power supply at the wall socket. Withdraw the plug from the socket and do not use the bed until it has been inspected by an electrician and passed as safe for use. Ensure the power supply cable is lifted clear of the floor when moving the bed.

# BED SPECIFICATIONS & COMPONENTS

- Mass of bed without mattress or bedding = 93 Kg.
- Mass of WMR 1090 = 135kg BT=145kg
- Maximum backrest angle 70 degrees to the horizontal.
- Maximum angle of the knee break, thigh section, 30 degrees to the horizontal.
- Maximum tilt, head up and head down, 17 degrees to the horizontal (Trendelenberg) (This option is not available in the BT bed)
- Mattress Base Width - Single bed - 900mm wide. (King Single/BT bed 1070mm wide)
- Mattress Base Length - Single bed - 1930mm, 2300mm overall.
- Mattress Base Length - King single/BT bed - 2030mm, 2400mm overall.
- Bed height 125mm minimum (from floor to top of mattress base) to 750mm maximum. (BT Bed - 140mm minimum to 765mm minimum)
- Size of bed when in folded position 1400mm high, 900mm wide  
King Single & BT Bed 1500mm high x 1070mm wide.
- Powder coated finish in Pearl White.
- Quick release head board and foot board panels.
- Dual Castors Wheels - 100mm with independent total lock control tabs  
Dual Castors Wheels - 125mm on BT Bed with control Bar, semi central locking control

## Optional extras include

- Additional Mattress retainers
- Over-bed tables
- Bedside lockers
- Mattresses
- Self-help pole
- Bed sticks
- Battery backup
- Side rails 3 bar and 4 bar
- Alternative hand sets
- Manual CPR release backrest

## Model No. and Description. Deutscher – Floorline

<b>WMR 1080 HC</b>	Standard bed with electrically operated hi-lo, tilt, backrest and knee break.
<b>WMR 1080 LC</b>	Added features to meet DHHS requirements
<b>WMR 1090 HC</b>	King Single with electrically operated hi-lo, tilt, backrest and knee break.
<b>WMR 1090 LC</b>	Added features to meet DHHS requirements
<b>WMR 1090 BT</b>	King single/BT with electronically operated backrest and knee break, hi-lo adjustment

# BED COMPONENTS

## SEE FIGURE 1.

- |                            |  |
|----------------------------|--|
| 1. Removable headboard     | 7. Removable footboard (full width on BT bed)                                      |
| 2. Back rest               | 8. Bed Column  |
| 3. Control box (under bed) | 9. Handset Control (Plugs into control box under back rest at head end of the bed) |
| 4. Power Lead              | 10. Mattress Pump Bracket  |
| 5. 'Knee break'            | 11. Control Panel (Foil switch)  |
| 6. Locking castors         |  |

FIGURE 1

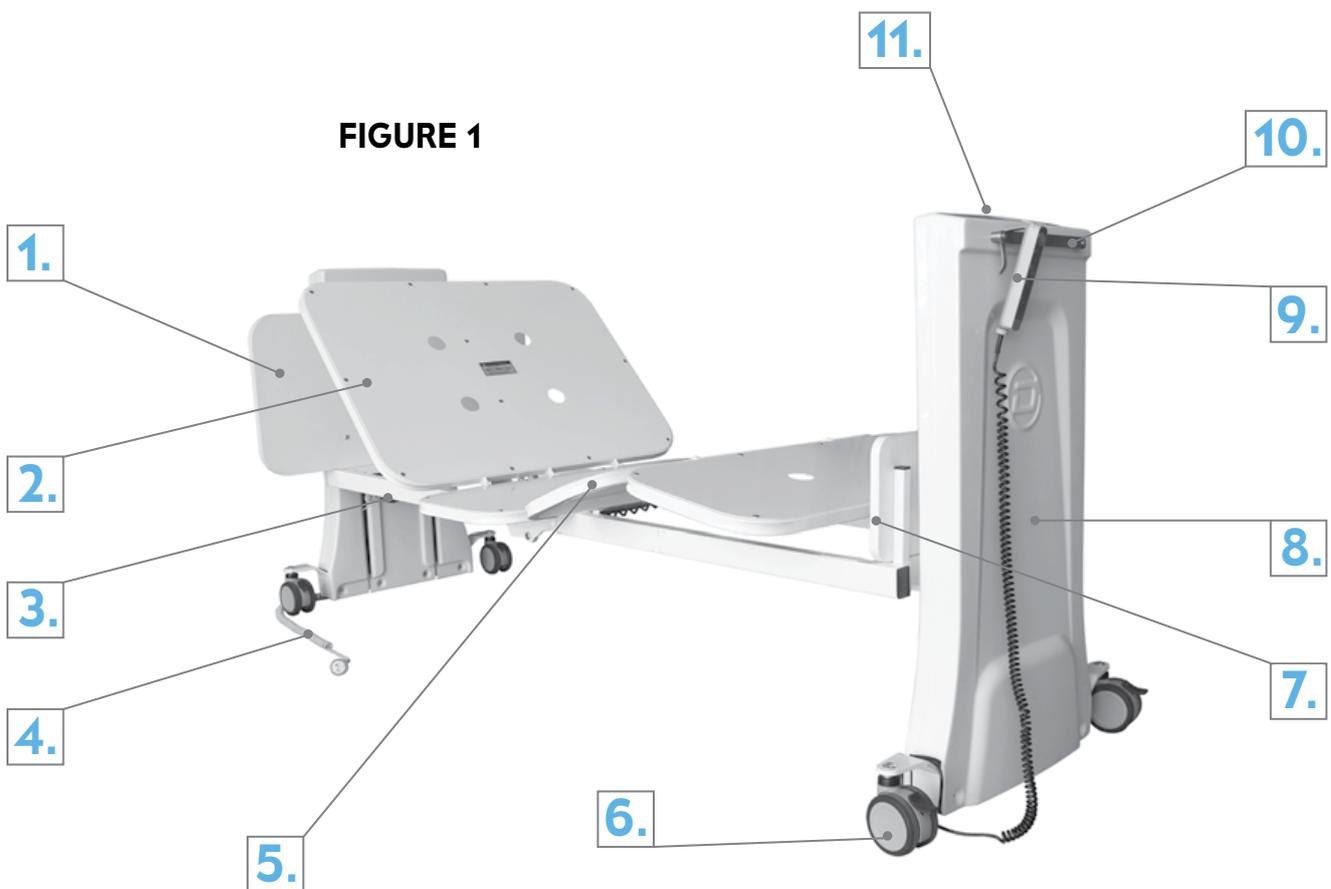


FIGURE 1a

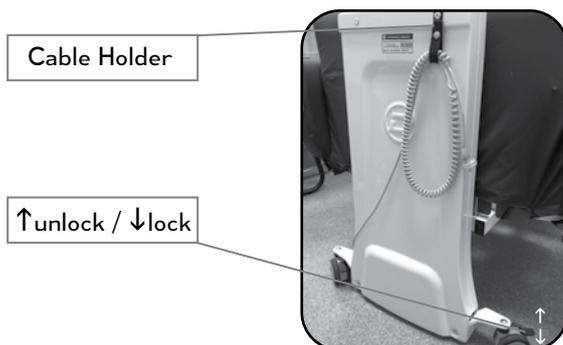
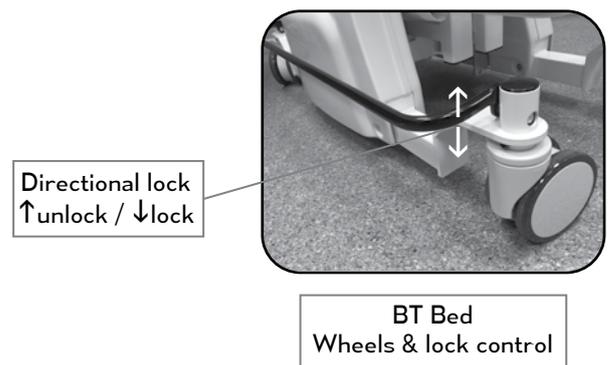


FIGURE 1b



# ASSEMBLING THE BED

\* A video of this process is available on our website - [www.deutscherhealthcare.com.au](http://www.deutscherhealthcare.com.au)

## NOTE: TWO PEOPLE ARE REQUIRED TO ASSEMBLE THE BED

Tools required: 16mm spanner, 17mm spanner, 4mm allen key

Ensure there is sufficient space in the room for the fully extended bed.

Take care not to damage cables or hand control.

**Step 1.** Lock castors at head end of the bed and unlock at the other end (See figure 2).

Remove Transit Bolt from hinge (see figure 2a).

**Step 2.** Have one person hold the top of the column vertical while standing at the end with the locked castors.

FIGURE 2

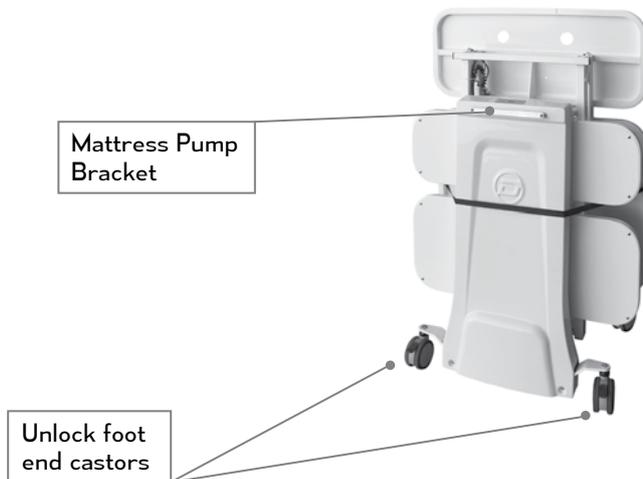
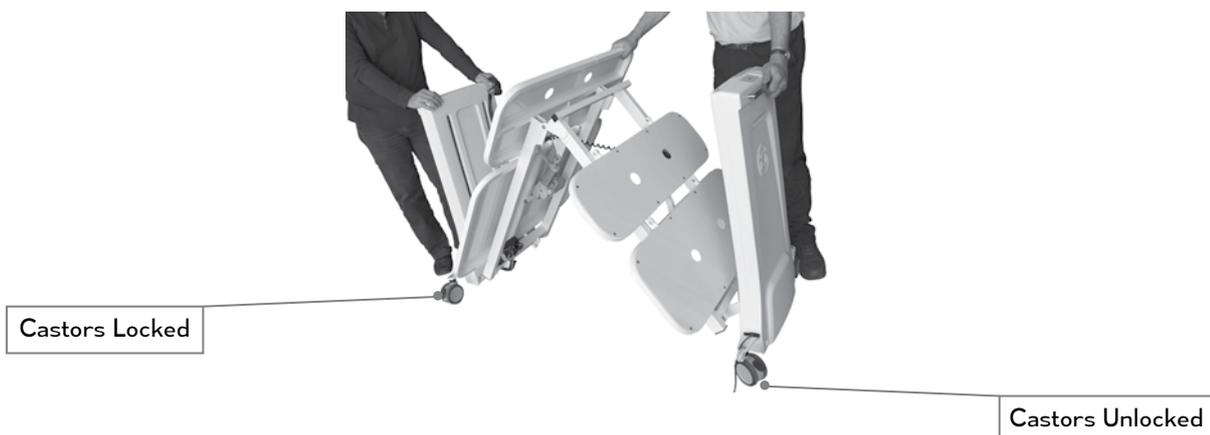


FIGURE 2a



**Step 3.** The second person can remove the strap around the centre of the bed, then stand at one side of the bed while firmly holding the outer edge of the mattress base, and the foot end tower (See figure 3).

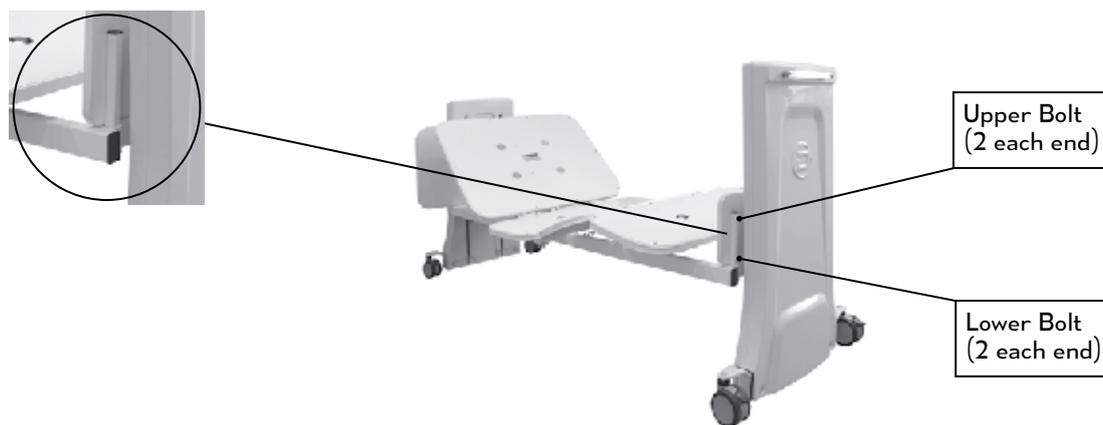
FIGURE 3



**Step 4.** Ensure ALL cables and fingers are clear. Keep foot end tower vertical and allow the mattress base to unfold.

**Step 5.** While one person continues to hold the column with the free castors, the other inserts the two lower bolts at the base of that column and loosely attaches the nuts. See Figure 4 below.

**FIGURE 4**



**Step 6.** Plug the power supply plug into a wall socket and turn the power switch on. Press the 'bed raise' button on the Control Panel and raise the bed fully. Ensure the columns are vertical and firmly tighten the upper and lower bolts on both ends.

**Step 7.** Attach head and foot boards at each end of the bed.

**Step 8.** Checking bed function. Check that all buttons on the Control Panel perform their function correctly. See 'Operation of the Bed' below. Lock all four castors once the bed is in position, and ensure the people who will operate the bed understand it's safe operation and have access to this manual.

\* Additional step for BT Bed - Fit hinge bracing brackets to chassis as per instructions supplied with the bed

## FOLDING THE BED

Folding is the reverse of the process above, but before you start, place a blanket or similar soft material on the mattress base to protect the powder coated finish. Ensure the power cables are not pinched between the bed end brackets before strapping the bed together.

# OPERATION OF THE BED



**IMPORTANT.** Do not operate or use a bed that appears to be damaged or is not functioning correctly. Contact your service personnel for technical advice. Before operating controls, ensure no people (especially children) or pets are near the mechanism or under the bed.

Check that the power supply cord is clear of the mechanism and wheels at all times.

## **TO OPERATE THE BED USE THE CONTROL PANEL LOCATED AT THE FOOT END TOWER OF THE BED OR USE HAND SET CONTROL.**

To Control the Bed using the **Control Panel** (See Figure 5a) press the movement direction indicator arrow above or below the required function. Only press one button at a time.

The **Hand Control** (See Figure 5b, ON PAGE 9) has five pairs of buttons, a 'Power-On' indicator light and a 'Fault' indicator light. The bed will only operate when the Power-On indicator light is glowing.

To control the bed, press the up or down arrow beside the required function. Once again, only press one button at a time.

### **Tower Control:**

- When the CPR button is pressed, both the backrest and knee break will lower and the mattress will be raised.
- When the chair mode button on the control panel is pressed the bed will go into cardiac chair position. Not available on the BT Bed.
- When both red and blue buttons are pressed together a long beep will be audible and all functions on the control pad will be locked. Press both buttons together again and the controls will be unlocked.

**PLEASE NOTE** - There are 3 main options of handset offered for use on these beds. Please see page 9 for information. Other options regarding handsets are also available on request. These include handsets with options like Blue Tooth, Cardiac Chair functions.

**BEFORE USING THE TILT FUNCTION, ENSURE THAT THE TOWERS HAVE CLEARANCE FROM THE WALL OR OBJECTS BY AT LEAST 400mm and that BOTH CASTORS AT ONE END OF THE BED ARE UNLOCKED. GENERALLY THE TWO CASTORS NEAREST THE WALL ARE THE TWO WHICH REMAIN LOCKED. Relock the castors once the bed is in it's desired tilted position.**



**Warning:** Do not operate the bed more than 6 times per hour as this can cause premature failure to the electrics. The bed should be left in its lowest position when unattended in order to reduce the risk of patient injury due to falls whilst lying on the bed.

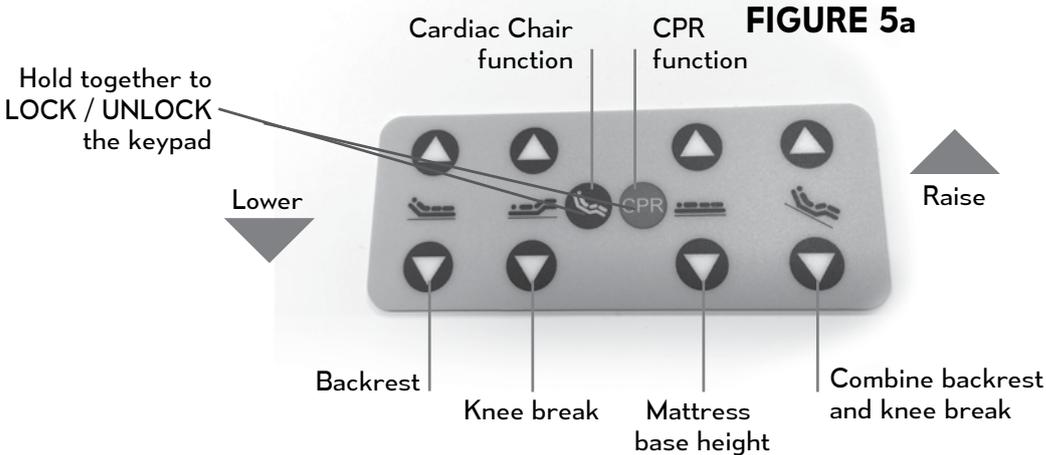
\* Bed electrical componets have a maximum Duty Cycle: amount of time they can be used in a period. Typically 2 minutes ON, 18 minutes OFF - Exceeding this will cause damage and void warranty.

# INSTALLATION OF ACCESSORIES

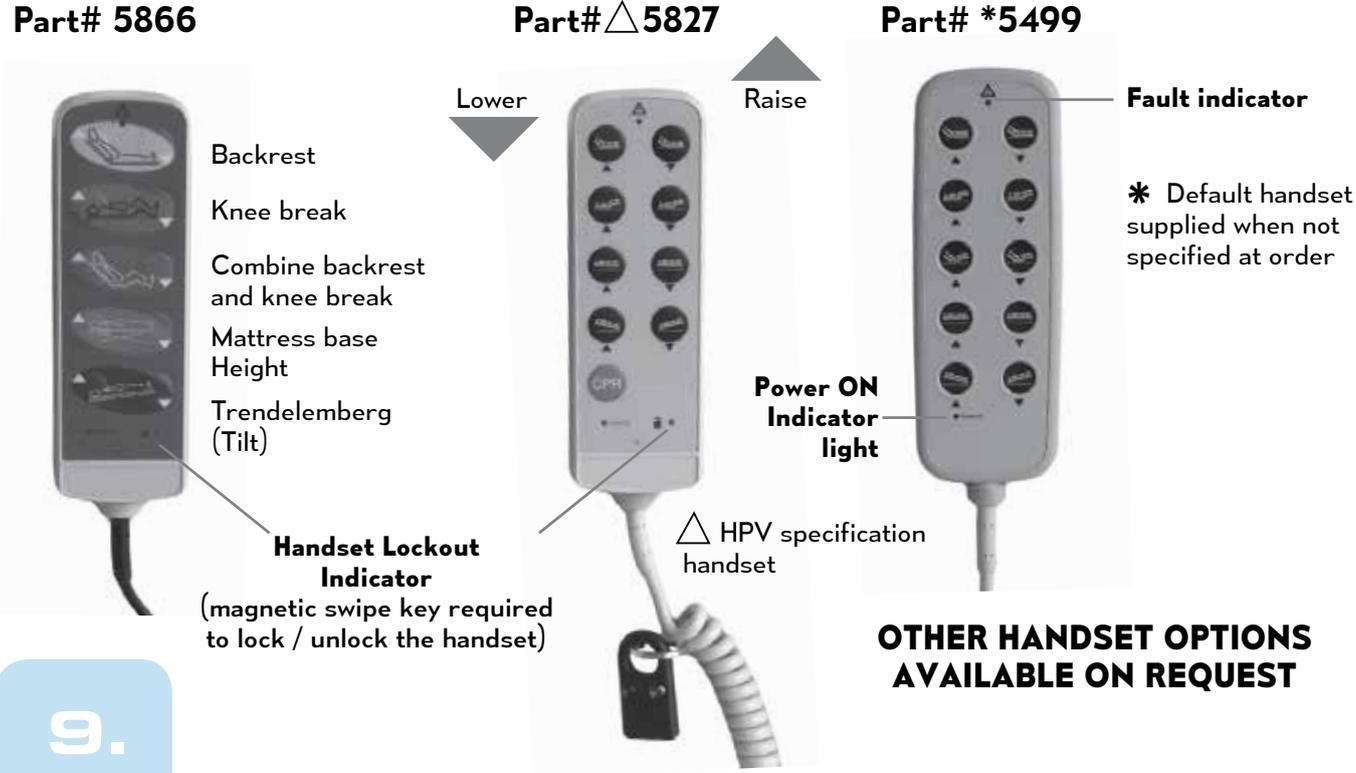
Use only accessories designed specifically for this bed.  
**ENSURE THE BED STICK IS SECURELY CLAMPED.** Mattress pumps can be attached to the bracket shown in Figure 2.

- WLR1050S/K**      Side Rail sets - 3 bar
- WLR1055S/K**      Side Rail sets - 4 bar
- WLR1045**         Bed Stick with ball knob
- WLR1045F**        Bed Stick with ball knob Folding Pole
- WLR1060**        Self help pole and handle
- WLR1062**        Self help pole socket

# OPERATION OF THE BED



**FIGURE 5b**  
**Part# 5866**



## CLEANING, STORAGE & HANDLING

When cleaning the bed frame, it must not be immersed in water or washed with a high pressure cleaner, as the water may find its way into the steel tubing and cause rusting. Clean the powder coated surfaces with detergent and water.

The bed must be stored in a dry environment. The safest method of storage in a limited space is to fold the bed as described above, castors locked and towers tied together.

- Completely disconnect from the mains supply before cleaning
- Wipe or swab to clean the bed frame, do not immerse in water or wash with a high-pressure cleaner
- This bed is not compatible with bed washing machines or tunnels
- Ensure all surfaces are dry after cleaning and before storage
- Clean the powder-coated structural surfaces and plastic components with a neutral detergent solution
- Store in a clean, dry environment between 0 and 45°C, away from direct sunlight

## DISINFECTION GUIDANCE

The following compounds and processes are approved for disinfecting the bed frame and bed components.

Sodium Dichloroisocyanurate (also known as NaDCC, troclocene sodium dehydrate, sodium troclocene or sodic troclocene) used as a washing solution at concentrations between 1000 and 10000 ppm (eg SoChlor)©

Benzalkonium chloride 0.45%, Didecyl dimethyl ammonium chloride 0.40%, polyhexamethylene biguanisde (PHMB) 0.10% (eg. Clinell Universal Wipes)©

Sodium Percarbonate, Citric Acid and Tetra acetyl ethylene diamine (eg. Clinell Sporicidal Wipes)©

Sodium chlorite 35-50%, Sodium dodecyl sulphate 10-20%, Sodium carbonate 10-20%, Citric acid 50-75%, Troclocene sodium dehydrate 15-30% (eg. Difficil-S)©

Hydrogen Peroxide vapour (eg. Bioquell)©

Ultraviolet - C radiation wavelength 100nm - 280nm (eg. Clinell UV360)© Note: excessive exposure to UV radiation may result in crazing and discolouration of plastic materials

# BED MAINTENANCE

## Troubleshooting Chart

SYMPTOM	POSSIBLE CAUSE	REMEDY
Bed will not operate	<ol style="list-style-type: none"> <li>1. Mains not connected.</li> <li>2. Mains fuse needs re-setting.</li> <li>3. Broken lead, handset.</li> <li>4. Broken lead, mains supply.</li> <li>5. Control box defective.</li> <li>6. Control panel has been locked.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure plug fully connected and switch turned on.</li> <li>2. Re-set breaker/fuse</li> <li>3. Replace handset.</li> <li>4. Replace lead.</li> <li>5. Replace control box.</li> <li>6. Un-lock control panel or handle control</li> </ol>
Not all functions of the bed operate	<ol style="list-style-type: none"> <li>1. Actuator plug not fully engaged.</li> <li>2. Actuator motor defective.</li> <li>3. Actuator cable damaged.</li> <li>4. Control box defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Push plug fully in.</li> <li>2. Replace the actuator.</li> <li>3. Replace the cable.</li> <li>4. Replace the control box.</li> </ol>
Power indicator light on Hand Control but no sound from the control box.	<ol style="list-style-type: none"> <li>1. Control box defective.</li> <li>2. Handset defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace control box.</li> <li>2. Replace handset.</li> </ol>
Control box ok except one direction faulty on one channel.	<ol style="list-style-type: none"> <li>1. Control Panel defective.</li> <li>2. Hand Control defective.</li> <li>3. Faulty control box.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace control panel.</li> <li>2. Replace hand control.</li> <li>3. Replace control box.</li> </ol>
Motor is running but actuator spindle does not move. Or... The actuator cannot lift the rated load. Or... Actuator spindle moves in one direction only.	Actuator faulty.	<ol style="list-style-type: none"> <li>1. Replace actuator</li> </ol>
Bed makes clicking noise when tilting.	Castor wheels locked.	Unlock castor wheels at one end.



### NOTE:

Servicing and maintenance of this bed may only be performed by personnel who have received the necessary training and instruction.

# ROUTINE MAINTENANCE

## Every 6 Months

- Check for any visible damage of electrical or mechanical parts.
- With Actuators fully extended, clean the back rest and knee break actuator shafts with a soft, dry cloth.
- Check all electrically controlled functions.
- Check wheels for damage and brake lock function.
- Raise and lower the bed fully, then tilt the bed fully in both directions. Listen for unusual noises in the mechanism and watch for 'jerky' action. Call for maintenance personnel if anything unusual is discovered.
- If fitted with battery back-up, check that the battery is charged and able to operate the bed.
- Check all bolts and nuts are not worn or missing

## Every 12 Months

- Remove the mattress from the bed. With the bed 100mm raised from its lowest height, remove the column covers. Carefully examine the lifting screw for wear. Replace linear actuator if faulty or screw is worn.
- Check mains cable, ensure there are no breaks in the lead and the strain relief is intact.
- Check all wiring for kinks, damage, dislocation or worn insulation. Replace where necessary.
- Operate all controls of the bed through the full movement of each function. Listen for noise in the bearings and ensure the operation is smooth.
- Check the wear on back rest and knee break pivots. Replace pivot bolts if they appear worn.
- Any pivot bolts attached to the ends of the actuators must be fitted with new nyloc nuts if nuts are removed. The nuts must not be tightened against the clevis - leave about 1mm of side play.
- Look closely at all welds, especially around the backrest and knee break actuator connections. Overloading may cause these welds to crack. Replace any faulty components or send the bed for repair.
- Check all wheels for wear, flat spots or damage.
- Check for correct castor brake function.
- Check for damage to paint work or significant rusting. Repair where necessary.
- Check mattress base sheets for signs of wear and looseness. Replace bolts where necessary.

# REMOVING END COVERS FOR SERVICING

## Head end

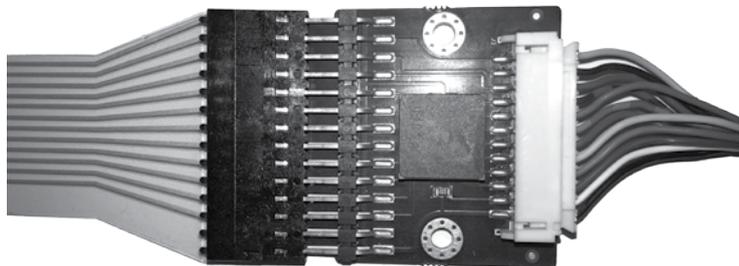
- Remove six M6 flat head cap screws at base of cover and two M6 screws at the top of the cover. (M4 Allen key required)
- Raise cover gently – using fingers to prise the cover over steel work.
- Re-fitting is the reverse of removal process.

## Foot end

- Remove eight M6 flat head screws attaching cover, including mattress pump bracket screws
- Raise cover gently - using fingers to prise the cover over steel work.
- As cover is raised the header plug will detach from the Attendant Control Panel.
- When reassembling - lower the cover over the tower assembly, reach up inside the cover and reconnect the plug.

ENSURE POLARITY IS CORRECT AS SHOWN IN FIG 6.

**FIGURE 6**



**ALL SERVICING IS TO BE CARRIED OUT BY A SUITABLY QUALIFIED OR TRAINED TECHNICIAN**

# WARRANTY

Deutscher Health Care will repair or replace, free of charge, any part of the steel frame that is defective in material or workmanship (or both) for a period of 10 years.

The actuators and electrical components are covered by the manufacturer of these parts and have a 1, 3 or 5 year warranty (depending on the part).

If parts are replaced, the replacement period will be no longer than 4 months from time of notification.

This warranty does not cover normal wear, abuse or over loading. Warranty will not be honoured if servicing is not performed in accordance with this manual. Warranty will not be honoured if non-genuine parts have been used or repairs or modifications have been made without the manufacturer's written authority.

This warranty does not obligate the manufacturer, agent or dealer to cover transport costs incurred in the repair or replacement of any defective part. Also, it does not obligate the manufacturer/agents of dealers to cover any other costs associated with making this warranty claim.

Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The benefits to the owner given by this warranty are in addition to the rights and remedies of the owner under the law in relation to goods or services to which the warranty relates.

# SPARE PARTS

PART NO.	PART DESCRIPTION
5575	Touch-up spray paint, PEARL WHITE
5484	Centre Section Sheet (Std)
5451	Mattress Base (Foot End) (Std)
5449	Backrest Assy complete (Std)
5452	Thigh Section complete (Std)
5474	Foot/Calf section complete (Std)
5283	Plastic end plug (20mm square)
5056	Plastic Plug (25mm square)
5059	Plastic Plug Rectangle (50 x 32)
5855	Head board single 5857 King single
5856	Foot Board
5716	Castor Wheel (100mm diameter)
6135	Mattress Pump Support Bar
6136	Mattress pump Support Bush
5060	Hi-Lo Actuator Bolt (special M10 X 45)
5749	Tower Actuator (600 stroke) (Hi-Low) LC=5797 (630 stroke) BT=5817 (600 stroke)
5497	Actuator 100 Stroke (Back Rest) (BT= 5608)
5750	Actuator 50 Stroke (Knee Break)
5751	Power Supply Transformer
5774	DC cable ( 24V Power Supply - controller)
5866	Hand Control - Coloured handset with back light plus magnetic lock out
5827	Hand Control - with magnetic lock out and CPR function
5499	Hand Control - Ten button
5500	Controller box BT=5818
5707	Power Lead (240V) AUS Plug
5752	Control Panel foil switch
5753	'Y' Junction & EXT Lead
5755	Actuator EXT Lead
5532	Flat head screw, special M6 x 16 - for tower cover
5359	Flat head screw, special M6 x 30 - for head/foot board panel
6150	Foil switch lead
5748	Tower Cover (head end)
5609	Tower Cover (foot end)
5481	Wear Pads for Knee Break

Contact for Technical Assistance  
Spare Parts etc.

**DEUTSCHER HEALTHCARE**  
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**Thank you for purchasing an Australian made**



**DEUTSCHER**  
HEALTHCARE

**BED**

**Instructional videos available on our website for your reference are:**

**Deutscher Healthcare Profile Video**

**Floorline bed assembly video**

**Fitting handset control to a floorline bed video**

**Fitting self help pole to a floorline bed video**

**Fitting side rails to a floorline bed video**

**Please contact us if you have any questions or further information**

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# **DEUTSCHER** HEALTHCARE

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