Sertain Hi-Lo Care Chair

Instruction Manual

This instruction manual MUST be read and understood before use of this product.

Thank you for choosing another quality Sertain Product. This manual is your guide to operating, cleaning and routine maintenance of the Sertain S4540 & S4545 Series Hi-Lo Pressure Care Chairs. It must be kept with the chair at all times.

Safety Warning

This manual MUST be read and understood before use of this product.

- The electrical system of this chair is designed to be used with a 240V power source when supplied in Australian format. Ensure you have been supplied the correct format.
- Do not allow the battery back-up system to fully discharge before connecting to mains supply where this accessory is fitted.
- Do not continue to operate the handset by repeatedly pressing the buttons if any of the functions will not move.
- Do not continually operate the chair functions. Doing this may cause the thermal fuse in the control box to cut off power.
- Do not force the operation of any part of the chair. Doing so may cause damage. Refer to the manual for correct operation of the chair.
- Keep the chair away from any source of open flame.
- Do not use the system in the presence of flammable gases (such as anaesthetic agents). We recommend that this system is used under the guidance of a healthcare professional.
- The use of this system is only part of an overall care plan. The patient must still be re- positioned regularly.
- The control unit should only be serviced by authorized personnel. Return to your authorized distributor for repair.
- Switch off the electrical supply to the chair and disconnect from power source before cleaning and inspection.
- Brakes must be applied when transferring client into or out of chair and when not in use.
- Chairs are designed to be used on smooth, level paved areas.
- This chair must not be used for transport of a client in a taxi vehicle.
- The Backrest and Leg rest must not be sat on. Doing so may seriously damage the chair.
- Care should be exercised that power cords are not in the way of any mechanism or moving parts.
- Any damaged, worn, broken or non-functioning parts should be reported and repaired. If client or carers safety is at risk, the unit should be withdrawn from service until repaired and safe for use.
- Communication: Carers must always inform other carers, the client and any other person in the vicinity, when positioning, transporting or using any of the chairs functions.
- Never operate this chair while under the influence of alcohol or any other substances that could detract from your alertness or physical and intellectual acuity.
- This chair must not be used by more than one occupant at any time or for carrying any other loads.
- CHILDREN MUST NOT be allowed to operate chair or controls AT ANY TIME. Any child in the vicinity of the chair MUST BE SUPERVISED AT ALL TIMES.
- For any information on the Electrical System please turn to Section 5 – Technical Data.
- Make sure patient/user has been positioned correctly back on backrest, bottom on seat, legs on legrest

DO NOT LEAVE CLIENT UNATTENDED, ESPECIALLY WHILE SEAT IS RAISED.

IF YOU ARE UNSURE OF SUITABILITY OF USE FOR ANY PATIENT, USER OR CARER, IMMEDIATELY DISCONTINUE USE.

This manual does not override the OH&S Policy of any organisation using this product. Please refer to your organisation's OH&S Policy before using this product.

Product Description

The Sertain S4540/S4545 Series Hi-Lo Series Pressure Care Chair range provides comfort, assistive pressure care (via adjustability and positioning) and flexibility for those who are mobile / immobile, at risk of developing pressure injuries, and who spend a large part of their day sitting or lying down. It is both Client and Carer friendly, being used in some procedural and intensive care environments (model depending and subject to suitable assessment).

- Electrically operated reclining backrest.
- Electrically operated seat tilt.
- Electrically operated height adjustment.
- Electrically operated leg rest adjustment (includes spline function).
- Fold out padded footrest.
- Extendible footrest.
- Removable arms (range available).
- Swing-away 3-position head wings (S4540 model).
- Pressure area management seating system.
- Adjustable headrest cushion.
- Will lie in the supine position.
- Maximum weight capacity – 160kg (STD), 300kg (Large) & 350kg (Extra Large).
- 150mm castors.
- Emergency battery back-up system.Client and Response friendly operation

Operating Instructions

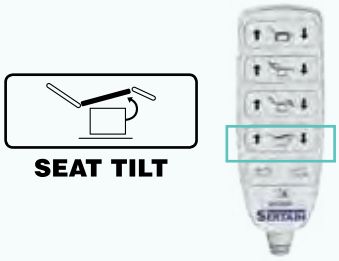
1. Power Cord Use and Storage

When not in use, the power cord is stored, as shown in *Figure 1*. To charge the chair batteries, park chair near to a power source, un-wrap the power cord, plug it into power source and switch on power. **Ensure that the chair and cord are not left in an unsafe/hazardous position.** Follow your organizations policy on the use of power cords. **Always STOW cord before moving chair.**

2. Seat Tilt Adjustment

Before tilting seat make sure it is safe to do so, make sure the client/patient and the carer are safe and the client is positioned correctly. Also make sure that no items, (equipment etc.), are placed over or under any part of the chair before operating this feature.

Tilt chair to desired position by depressing the left or right hand buttons on the handset either side of the **SEAT** icon as shown in *Figure 2*.



3. Seat Height Adjustment *(for models with this feature)*

Before adjusting seat height make sure it is safe to do so, make sure the client/patient and the carer are safe and the client is positioned correctly.

It is best to maintain this function, chair power cord should be connected to power supply. Power cord must be unplugged from power supply and stowed carefully on chair before transporting client or moving chair.

To Raise Chair: Make sure that no items, (equipment etc.), are placed over the chair. Raise the chair to the desired height by depressing the correct buttons on the handset either side of the HILO icon. HILO icon as shown in *Figure 3*.

To Lower Chair: Make sure that no items, (equipment etc.), are placed under the chair. Lower the chair to the desired height by depressing the correct buttons on the handset either side of the HILO icon as shown in *Figure 3*.

CLIENT/PATIENT must not be left unattended when seat is RAISED.

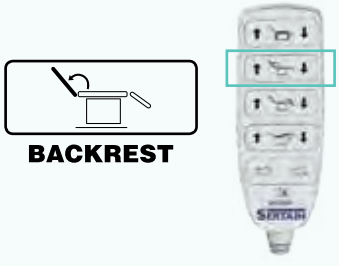
3. Backrest Adjustment

Before adjusting backrest, make sure it is safe to do so, make sure the client/patient and the carer are safe and the client is positioned correctly including limbs, clothing, etc. Make sure no item (equipment, persons, etc.) obstruct the path of the backrest, to prevent injury to client or carer, and also prevent damage to your chair.

Back Rest Adjustment – Electric (for models with this feature)
Adjust backrest to desired position by depressing the left or right hand buttons on the handset either side of the Back Rest icon as shown in *Figure 4.1*.

Back Rest Adjustment – Manual (for models with this feature)
Adjust backrest to desired position by supporting the backrest and operating the hand lever located on the push handle – refer to *Figure 4.2*

CLIENT/PATIENT must not be left unattended when seat is RAISED.



5. Swing Away Head Wings

Make sure client/patient and carer are safe and client is positioned safely.

Refer to Figure 5 - While applying light pressure on head wing at **'C'** lift at **'D'** and swing the wing outwards and relocate into the desired position. To return to the original position reverse this procedure. Assess need for brakes to be engaged.

6.1 Removable 2-Position Armrest - *Style 1*

First make sure that the brakes are applied and client/patient and carer are safe and client is positioned safely, including limbs, clothing, etc.

To operate 2 position feature – refer to Figure 6.1 - pull and hold the white release knob found near the front of the arm (down at the pivot bracket), and rotate the arm away from the chair. Release the knob and the pin will drop into the 2nd position (23°) as the arm is rotated. To return to the original (standard) position, reverse this process.

6.2 Removable 2-Position Armrest - *Style 2*

First make sure that the brakes are applied and client/patient and carer are safe and client is positioned safely, including limbs, clothing, etc.

To remove armrest - first **pull** and **hold** the white release knob (see arrow in Figure 6.3) and at the same time with the other hand swing the armrest down. When the arm stops, let go of the release knob. Then hold the armrest with both hands, lift it up slightly and then pull out and away from the side of the chair.

To replace armrest – while holding the armrest with both hands, line up the front and rear pivot points within the slots of the armrest bracket. Slide the arm down into this slot as far as you can go, and then rotate the armrest up towards the chair. The release pin at the front of the retaining bracket should automatically allow the armrest to move past it and then it will snap into the 2nd position location. **Pull** and **hold** the white release knob and rotate the arm further upward until the arm is in the 1st or standard position.

Make sure armrest is securely fastened before leaving the chair.

6.3 Drop-arm / Procedure Arm

First make sure that the brakes are applied and client/patient and carer are safe and client is positioned safely, including limbs, clothing, etc.

To lower armrest: Move the lever in the desired direction i.e. Unlock – refer to the label - See Figure 6.5 – and then push armrest down until it can go no further.

To raise armrest: Move the lever in the desired direction i.e. Unlock – refer to the label - See Figure 6.5 – and then lift armrest up until the locking mechanism automatically clicks into place. **Test the arm to make sure it is locked and cannot come out inadvertently.**

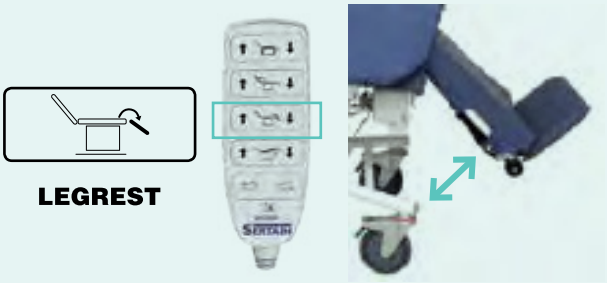
Make sure armrest is securely fastened before leaving the chair.

7. Leg Rest Adjustment – Standard & Deluxe

Before adjusting leg rest, make sure it is safe to do so. Make sure client/patient and carer are positioned safely and castors are out of legrest path.

Adjust Leg Rest to the desired position by depressing the left or right hand buttons on the handset either side of the **Leg Rest** icon as shown in Figure 7.

- Before lowering leg rest to forward transfer the client, or when using the stand-up lifter, Footrest must first be folded down under leg rest cushion. See Section 3.9 for instructions.
- Make sure no item (equipment, persons, etc.) obstruct the path of the leg rest.
- Client/patient must not sit or weight bear on the legrest at any time and must not egress over the leg rest when it is up (this includes partial elevation). Leg rest must be fully retracted before forward transfer is performed!



8. Leg Rest Length Adjustment

Type 1 - Unfasten the three 'hook and loop' straps from the underside of leg rest at Figure 8.1 – shorten or lengthen leg rest to desired position by sliding the footrest and its support in or out of the leg rest, and re-fasten straps. Always make sure the 'hook and loop' straps have been fully re-fastened.

Note: the footrest can be in the 'Away/Closed' position when performing this function.

Type 2 - Unfasten the two 'Press Stud closure retaining straps' from the underside of leg rest at Figure 8.2 – shorten or lengthen leg rest to desired position by sliding the footrest and its support in or out of the leg rest, and re-fasten straps when the desired position is reached. Always make sure the 'retaining straps' have been fully re-fastened.

Note: the footrest can be in the 'Away/Closed' position when performing this function

9. Fold-Out Footplate - (Models with this feature)

Make sure the client is correctly positioned. Unhook Cover eyelet at Figure 9.1 on both sides of the chair. Lift padded leg rest cushion only and then fold out footrest (see Figure 9.2). Cover tag eyelets (Figure 9.1) must then be re-hooked.

Before lowering leg rest, to forward transfer the client, or when using the stand-up lifter, Footrest must be folded away/down under leg rest cushion

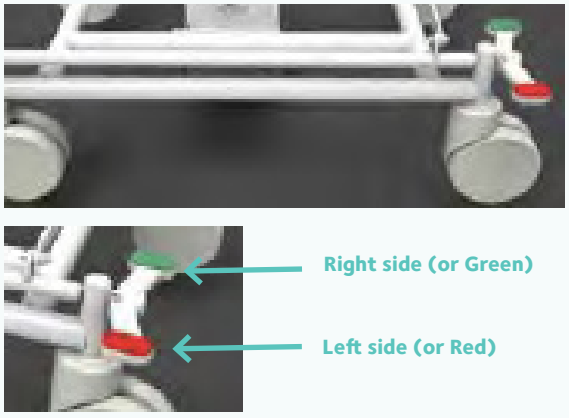
10. Central Locking Castors - (Models with this feature)

Brake - Press down on the left side (or Red) pedal to activate brake.

Directional Lock (tracking/steering) - Press down on the right side (or Green) pedal to activate tracking/directional lock.

Neutral - Mid-position is neutral.

Make sure you have the castors fully engaged in BRAKE position before any procedure.



11. Tracking Castors - (Models with this feature)

Operating Tracking Castors - (Models with this feature)

Refer to Figure 11.2 - Swing castor into position parallel with side frame. Press down green/silver tab and click into position. To disengage press top of green/silver tab. Tracking position needs to be engaged whenever the leg rest is down.

Activate brakes - (Models with this feature)

Refer to Figure 11.1 - Individual brakes on rear castors; to engage, press down red/silver tab. To disengage, press top of red plastic tab.

Figure 11.1

Figure 11.2

12. Auto Chair Function

WARNING: Before using this function, make sure it is safe to do so. Make sure no item (equipment, persons, etc) obstruct the path of any moving part of the chair during this function. Warn all persons before actioning this function.

This is an automatic chair position function – to operate, press and hold the 'Auto Chair' button, as indicated in Figure 12 (bottom right corner of handset button series). While holding this button (from any existing position), the chair will operate the backrest, seat tilt, hi-low, and leg rest functions simultaneously until the chair position is reached (Hi-Lo will be at its lowest height). Once this position is reached and all motors have stopped then release the button.

Release of the button before the chair has reached the pre-set sitting position, will stop all functions wherever they are at the time. The chair will not continue to operate automatically. Resuming pressure on the button will continue the function.

13. Auto Flat Function (this is not a CPR facility) - (Models with this feature)

Before using this function, make sure it is safe to do so. Make sure no item (equipment, persons, etc) obstructs the path of any moving part of the chair during this function. Warn all persons before actioning this function.

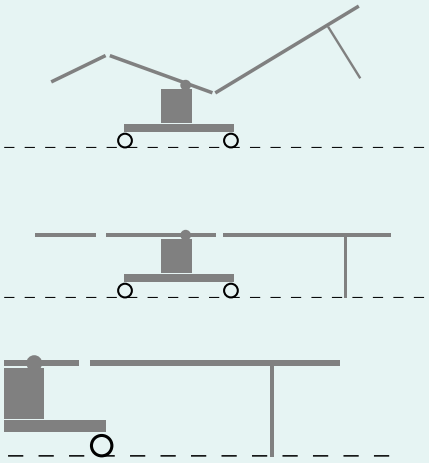
This is an automatic Bed / Lay Flat position function – to operate, press and hold the 'Auto Flat' button, as indicated in Figure 13 (bottom left corner of handset button series). While holding this button (from any existing position), the chair will operate the backrest, seat tilt, hi-low, and leg rest functions simultaneously until the bed/lay flat position is reached (Hi-Lo will be at its lowest height). Once this position is reached and all motors have stopped then release the button.

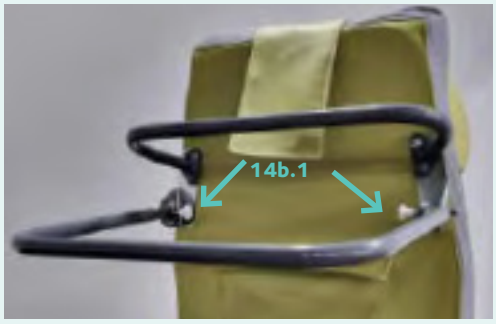
Release of the button before the chair has reached the pre-set bed/lay flat position, will stop all functions wherever they are at the time. The chair will not continue to operate automatically. Resuming pressure on the button will continue the function.

14. Lay Flat Support Bar Function – for backrest support when performing procedures (if fitted to your chair)

Before using this function, make sure it is safe to do so. Make sure no item (equipment, persons, etc) obstructs the path of any moving part of the chair during this function. Warn attendees before actioning this function. This item is NOT a push handle and is not to be used as such).

TO ENGAGE: Lift / swing out the Support Bar at 14a.1 (see Figure 14a) until it is 90° to the backrest. Make sure both locating Pins at 14a.2 are locked with the Support Bar at 90° to the Backrest. Now you may perform 'Auto Flat Function' (see Item 3.13) or pull red release lever. (B4 use see info on next page including warnings)





TO Release & Store: For safety, the chair should not be left in this position after procedure is completed.

Raise backrest first and restow. Check there is no damage done to the CPR Unit after use. Release Pins at 14b.1(see figure 14.b) and lower the SUpport Bar till it is held by retaining pin at 14c.1 (see figure 14c). Make sure the locating Pins are engaged ready for the next event.

WARNING:

When the chair is in, or close to complete LAYFLAT position (when performing Function Item 3.13) the **SEAT TILT**, Item 3.2 **MUST NOT BE ACTIVATED** or Figure 14e could occur, endangering persons or equipment.

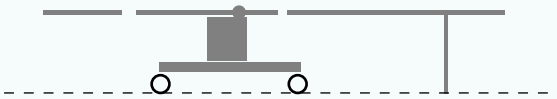


Figure 14d

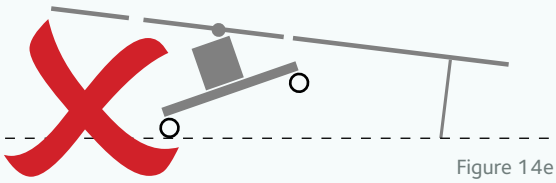


Figure 14e

CPR WARNING:

If you or your facility decides to use this chair for CPR purposes, it is only to be performed if the chair has a LAY FLAT SUPPORT BAR (see Section 3.14) fitted to manufacturers' specifications and the bar is at 90 o (degrees) to the BACKREST and the FLOOR – see following conditions.

In the event you need to perform CPR on a client in this chair you must have fully read and understood everything on this document and the following must be strictly adhered to;

1. If you have a **LAY FLAT SUPPORT BAR – SWINGDOWN STYLE** it must be fully engaged FIRST (see Section 3.14 & Figure 14a)
2. Then fully activate **AUTO FLAT SYSTEM (see Section 3.13 & Figure 13).**
3. You have assessed the need for a **CPR** assistance device such as a CPR board which may be required for effective CPR due to the Pressure Care Seating system in use on this chair. Your clinical team needs to assess this as the manufacturer provides the chair with multi-positioning outcomes but cannot guarantee or advise on the effectiveness of the patient outcomes from a CPR event due to a multitude of external factors.

CPR Quick Release Lever

Before using this function, make sure it is safe to do so. Make sure no item (equipment, persons, etc) obstructs the path of any moving part of the chair during this function. Warn attendees before actioning this function. This item is NOT a push handle and is not to be used as such).

To Engage:

Please Make sure that Seat is flat and layflat support bar is engaged prior to pulling the lever.

Pull the lever upwards, you will need to continue pulling this lever until the backest has fully reclined. Please note if you let go of the lever the backrest will stop in the position it is in that moment.

15. Headrest Cushion Adjustment

Raise or lower headrest cushion to desired position by adjusting the headrest flap via the fastening system (see figure 15).

16 Fitting Sliding Activity Tray

Apply brakes before fitting tray.

Tray locating lugs are situated on front of the chair arm underneath the tray retaining tube.

Disengage locating pins (pull pin down and ¼ turn), slide the table arms into desired position, engage locking pins (¼ turn in reverse).

NOTE: If tray is to be locked make sure pins are located and locked securely for client and carer's safety and that you have any relevant approvals for use of this type of device.

Assistance & Tips

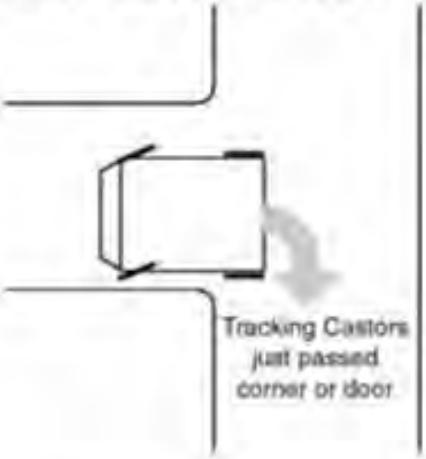
OH & S and Correct Equipment Use

NOTE: In any manoeuvre, the safety of the Client and Response is paramount. This is only a guide and does not take the place or override your OH&S training or Client handling techniques. This must be approved by those responsible persons in your organisation before use. E & OE

1 **(FOR CHAIRS WITH TRACKING CASTORS)**

Corridor Manoeuvring and through doorways

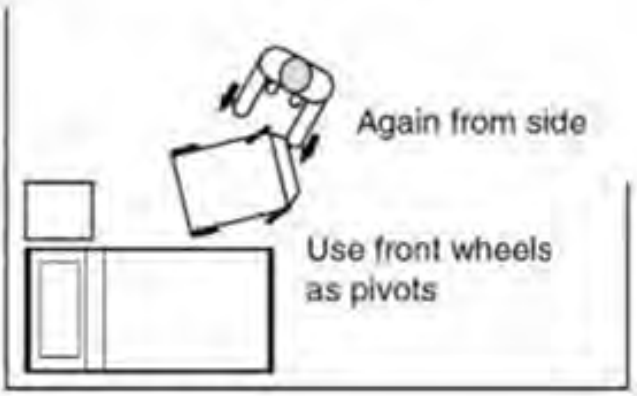
Stand at side and use body weight. "Back safety"



NOTE:
Tracking Castors are designated by the 'GREEN' tabs on the front castors.

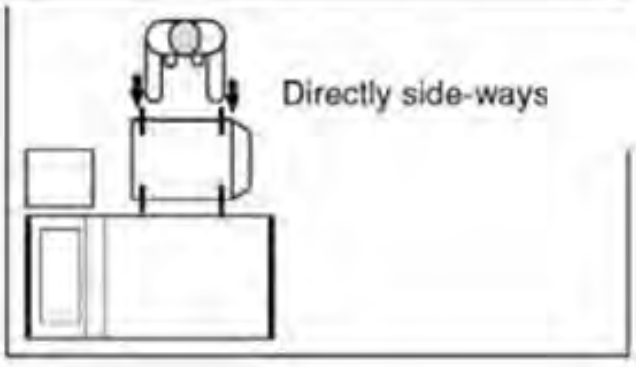
2

Tracking Castors – (Taking chair close to wall/Bed)



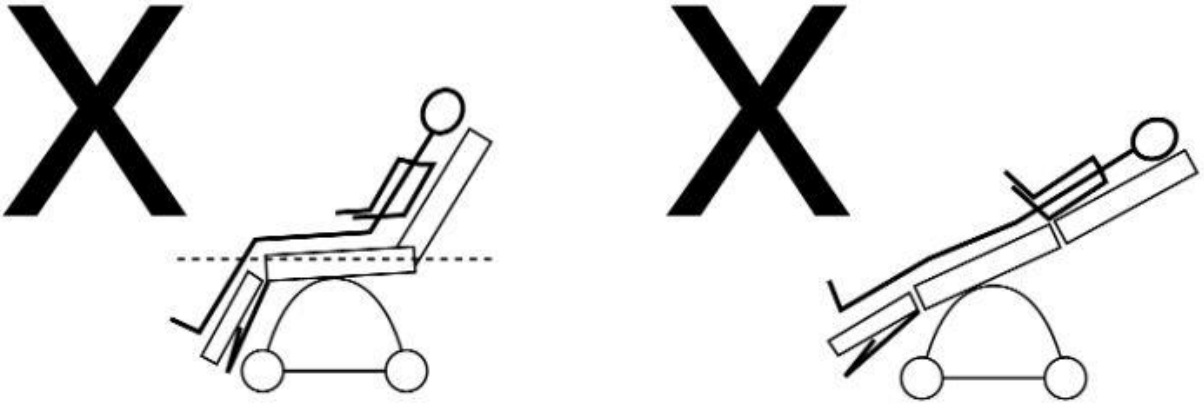
3

As above with tracking castors 'off'



REMEMBER! POSITION YOUR CLIENT CORRECTLY

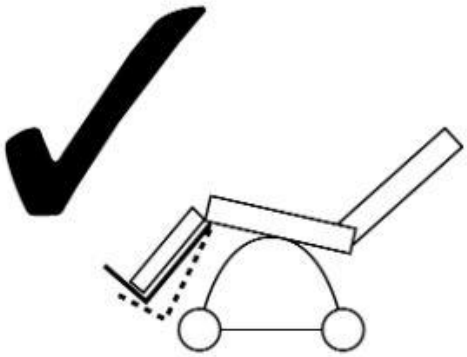
These simple ideas may decrease the incidence of the Patient/Client sliding forward in the chair and increase their safety



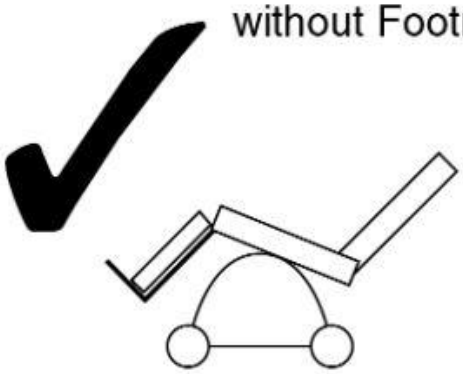
Patients/Clients tend to slide in the above positions …
'You can't go to sleep on a slippery-dip'

REMEMBER! Make sure Client is well positioned into the chair!

POTENTIAL SOLUTION 1: FOOTREST



POTENTIAL SOLUTION 2: SEAT TILT with/ without Footrest



OH & S and Correct Equipment Positioning

To ensure the safe operation of this equipment, please allow the sufficient operating space around the chair – refer to the diagram below.

Sufficient space is required so that:

- The functions of the chair can be used safely and without interference from surrounding equipment.
- Interference of surrounding equipment may cause serious damage to your equipment or safety issues for the client or carer.

Failure to comply with the space requirements, in the event of an incident involving this equipment, may void warranty.

NOTE: In any manoeuvre, the safety of the Client and Response is paramount. This is only a guide and does not take the place or override your OH&S training or Client handling techniques. This must be approved by those responsible persons in your organisation before use. E & OE

Technical Data

General Technical Data

Description	Model					
Please note that your particular model may have some of the features listed and not others, depending on the configuration chosen The list of technical specs. Below is not exhaustive, and if you require any further information please contact the Company that sold the chair to you.	**S4540** Standard	**S4540** Large	**S4540** Extra Large	**S4545** Standard	**S4545** Large	**S4545** Extra Large
Armrest Height - Drop Down (at hips - from seat cushion)	190 mm	190 mm	190 mm	190 mm	190 mm	190 mm
Armrest Height - Standard Removable (at hips - from seat cushion)	160 mm	160 mm	160 mm	160 mm	160 mm	160 mm
Auto Chair	✓	✓	✓	✓	✓	✓
Auto Lay-Flat	✓	✓	✓	✓	✓	✓
Backrest Height (from seat cushion)	730 mm	730 mm	730 mm	730 mm	730 mm	730 mm
Backrest (Recline Range)	96° - 180°	96° - 180°	96° - 180°	96° - 180°	96° - 180°	96° - 180°
Backrest (Width at Shoulders)	560 mm	660 mm	760 mm	570 mm	670 mm	770 mm
Castors (Central Locking 150mm)	Available	Available	Available	Available	Available	Available
Castors (Standard 150mm - DL & TB - Individual Locking)	✓	✓	✓	✓	✓	✓
Legrest Length (Deluxe)	440 mm	440 mm	440 mm	440 mm	440 mm	440 mm
Legrest Length (Fully Extended)	up to 150mm extra	up to 150mm extra	up to 150mm extra	up to 150mm extra	up to 150mm extra	up to 150mm extra
Legrest Length (Standard)	440 mm	440 mm	440 mm	440 mm	440 mm	440 mm
Overall Length (Supine Position) – Deluxe Leg Rest)	1320 mm	1320 mm	1320 mm	1320 mm	1320 mm	1320 mm
Overall Length (with Leg Rest Down, Backrest Up & Footrest away – depending on model)	1920 mm	1970 mm	2000 mm	1920 mm	1970 mm	2000 mm
Overall Length (without footplate)	1150 mm	1150 mm	1150 mm	1150 mm	1150 mm	1150 mm
Overall Width (Drop Down Arms)	1820 mm	1870 mm	1900 mm	1820 mm	1870 mm	1900 mm
Overall Width (Standard Removable Type)	760 mm	820 mm	920 mm	760 mm	820 mm	920 mm
Seat Depth	520 mm	570 mm	600 mm	520 mm	570 mm	600 mm
Seat Height Max (tilted forward)	820 mm	820 mm	820 mm	820 mm	820 mm	820 mm
Seat Height Min (tilted forward)	520 mm	520 mm	520 mm	520 mm	520 mm	520 mm
Seat Height Min (@ 0° degrees)	550 mm	550 mm	550 mm	550 mm	550 mm	550 mm
Seat Incline Range (Forward to Rear)	-2 to 13°	-2 to 13°	-2 to 13°	-2 to 13°	-2 to 13°	-2 to 13°
Seat Width (Between Arms - Drop Down Arms)	550 mm	650 mm	750 mm	550 mm	650 mm	750 mm
Seat Width (Between Arms -Standard Removable Arms)	520 mm	620 mm	720 mm	520 mm	620 mm	720 mm
Wings (Shoulder/Head)	✓	✓	✓	✗	✗	✗
Safe Working Load (SWL)	160 kg	300 kg	350 kg	160 kg	300 kg	350 kg
ARTG Number	136976	136976	136976	136976	136976	136976

- Dimensions are nominal and are measured in mm without covers depressed
- Specifications are subject to change without notice. E & OE

DO'S and DON'TS - General

DO'S

- Do plug the chair into mains power and charge the Emergency Battery Back-up system for 24hrs before the 1st use.
- Do keep the control box plugged into the mains supply whenever possible. This will extend the life of the Emergency Battery Back-up. A large number of cycles can be obtained from operating solely on the batteries; battery lifetime is reduced with frequent discharging.
- Do inspect all cables particularly the mains power cable for any damage; replace where necessary.
- Do make sure that the Handset coil cable is always free and not tangled up in the workings of the chair.
- Do stow the mains power cable and the HB handset when moving or transporting the chair.
- Do clean the actuators, control box, handset and attendant control panel at regular intervals to remove dust and dirt.
- Do maintain the batteries correctly, see Battery Maintenance & Replacement.

DON'TS

- Don't allow the batteries to fully discharge before connecting to the mains supply. The batteries are a lead-acid gel cell type that can be trickled charged continuously (batteries used for standby / emergency back-up) and have a high current discharge capacity. The batteries are not the nickel cadmium type and must not be periodically fully discharged. Life is greatly reduced by deep or complete discharging of the batteries. The best lifetime is obtained by charging the batteries as often as possible.
- Don't continue to operate the handset by repeatedly pressing the buttons if the chair function will not move, or the actuator will not function. If this occurs then the actuator has either reached its end position, the load is too great or there is a problem. Refer to troubleshooting guide.
- Don't exert excessive force on the handset cable as this may break off the wires inside the cable and prevent some or all of the operations.
- Don't continually operate the chair functions. The system is not designed as an exercise machine and continuous operation will cause the thermal fuse in the control box transformer to cut off power to the transformer; the control box will then require servicing. Refer to the manufacturer's manual for the specified duty cycle.

Safety Instructions

PLEASE READ THE FOLLOWING SAFETY INFORMATION CAREFULLY. IT IS IMPORTANT FOR EVERYONE WHO IS TO CONNECT, INSTALL OR USE THE SYSTEMS TO HAVE THE NECESSARY INFORMATION AND ACCESS TO THIS MANUAL.

Classification: The equipment is not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

Warning! The plastic parts in the system cannot tolerate cutting oil.

Warning! If faults are observed, the products must be replaced. Never spray directly on the products with a high pressure cleaner.

The LINAK products cannot tolerate the influence of strong solvents, basic or alkaline liquids.

The duty cycle printed on the label of the control box must always be noted. If this is exceeded, there is a risk of the control box being overheated and damaged. Unless otherwise specified on the label, the duty cycle is max. 10%: max. 2 minutes in use followed by 18 minutes not in use. Exceeding the duty cycle will result in a dramatic reduction in the lifespan of the product.

Linak Systems - Tech Data & Reset Info

Page 13-14

SWL 160kg Chairs

Page 15-16

SWL 160kg Chairs

Page 17-18

SWL 300kg & 350kg Chairs

Before connecting or disconnecting OPENBUS™ accessories or handsets to / from the system:

- Disconnect the CB from mains power.
- Wait at least 2 minutes after the last key press.

Only connect the originally specified type of Actuator to the appropriate port on the CB. Only connect the originally specified Handset to the system.

Wait at least 2 minutes after the last key has been pressed before removing the BA18 or BA20 battery from your system. Otherwise battery operation may be blocked for 30 minutes.

Do not connect / disconnect an Actuator while pressing any keys on the Handset or Foot Switch.

Use O-rings on all connectors (greasing them 1st) and secure all connectors / cables with the cable locking devices supplied.

Use blind plugs with O-rings to seal any unused ports on the CB and junction boxes. Do not stretch or unduly strain any of the cables and connectors.

In cases where a CU20 or CP20 requires replacement, in order to avoid damage to new components, replace the complete CB20, rather than individual components.

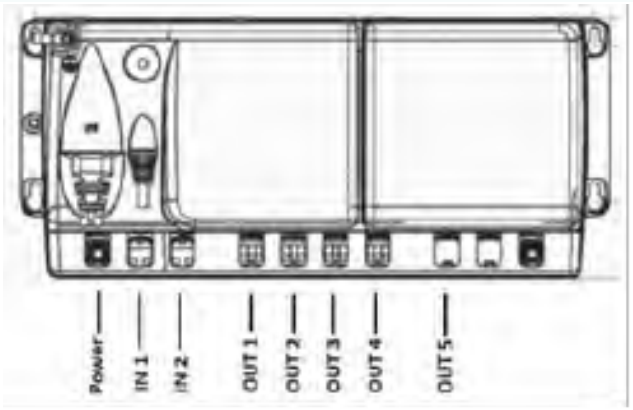
Ensure that the system is suitably protected from ESD (Electro Static Discharge) via the ESD drag chain/wire fitted to the base of your chair. If worn out, replace with an original part.

In the event of a breakdown of the chair electric functions, do not diagnose the fault by switching actuators around between different working ports, or use components from a working chair on the faulty chair. This system is not a 'Plug and Play' type. It is computerised and sensitive to faulty parts. A faulty or damaged component may cause ruin/damage to a working/new component. It is always best to call a technician with a Linak approved repairer qualification to diagnose the issue, if it is not obvious.

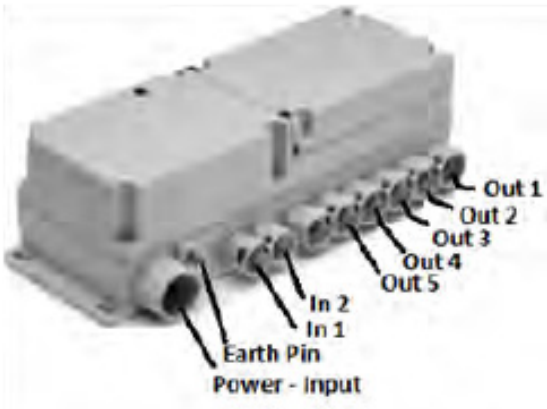
In the event components are replaced, it is always best to perform a Reset and System Initialisation after doing so, to enable correct function of the chair – refer to 5.7.1 and 5.7.2

Wiring Configuration Diagrams

1. CU20 System



2. CU20 System



Function	SE4325		SE4400 Standard		SE4400 Large	
	Item	Description	Item	Description	Item	Description
Power	CP2001000A01069	Control Power Unit	CP2001000A01069	Control Power Unit	HB8X135-00	Handset
IN 1	HB8X135-00	Handset	HB8X135-00	Handset	0821008	Port Plug
IN 2	0821008	Port Plug	0821008	Port Plug	BL131HA11300A or BL14HA11400A	HILO Column
OUT 1 / CH 1	BL131HA11300A or BL14HA11400A	HILO Column	BL131HA11300A or BL14HA11400A	HILO Column	BL131HA11300A or BL14HA11400A	HILO Column
OUT 2 / CH 2	31110H+101504K	Backrest Actuator – 150mm stroke	31110H+101504K	Backrest Actuator – 150mm stroke	31110H+101504K	Backrest Actuator – 150mm stroke
OUT 3 / CH 3	31110H+301004K	Leg Rest Actuator – 100mm spline	31110H+301004K	Leg Rest Actuator – 100mm spline	31110H+301004K	Leg Rest Actuator – 100mm spline
OUT 4 / CH 4	31120H+10050 04K(LAUS112092)	Seat Tilt Actuator – 50mm stroke	31120H+1005004K (LAUS112092)	Seat Tilt Actuator – 50mm stroke	31120H+1005004K (LAUS112092	Seat Tilt Actuator – 50mm stroke
OUT 5 / CH 5	N/A	N/A	N/A	N/A		

Reset/Initialisation Procedure for CU20 System

Use the handset to perform the following procedures:

RESET: Suits both Phase 2, 3 & 4 Software – Reset the system by simultaneously pressing the Row 2 UP / DOWN (Backrest Row) keys until the system stops beeping (approx. 5 seconds). Please note that the two keys must be activated at exactly the same time.

INITIALISE:

a. Phase 2 Software SW70133(MAU0204)/ SW70137(MAU0214 – Initialise the system by running the actuators to their end-stop position as per below (press and hold the button until the actuator has stopped):

SE4325	SE4400 Standard	SE4400 Large
a. Drive CH1 in	a. Drive CH1 in	a. Drive CH1 & CH2 in
b. Drive CH2 in	b. Drive CH2 in	b. Drive CH3 in
c. Drive CH3 in	c. Drive CH3 in	c. Drive CH4 in
d. Drive CH4 in	d. Drive CH4 in	d. Drive CH5 in

b. Phase 3 & 4 Software SW71071(MAU0349)/SW71022(MAU0330) – Initialise the system by pressing and holding simultaneously Row 1 UP / DOWN (Hi-Lo Row) buttons until all functions have ceased to operate and the buzzer sounds with 2 beeps (100ms ON, 100ms OFF).

MAXIMUM HEIGHT RESET AND STORE FUNCTION – for PHASE 3 & 4 SOFTWARE ONLY SW71071 (MAU0349) / SW71022 (MAU0330)

8.1 STORE/SET MAXIMUM HEIGHT

This function allows the reprogramming of the maximum height of the HI-LO function of the chair system. It allows for limitation, by supervisors, of the maximum height they wish the chair to function at for their circumstances i.e. 50mm, 100mm ... infinite up to the absolute maximum height of the system (default) - determined by the model of BL14 column fitted to your chair – i.e. 300mm or 400mm.

Using the handset, press and hold simultaneously for 5 seconds the Leg Rest UP Button (3rd row, Left button) & Seat Tilt DOWN Button (4th Row, Right button) until Buzzer beeps once – refer to the Purple Rings on the diagrams in Section 5.9

8.2 RESET MAXIMUM HEIGHT, to the default absolute maximum height

The absolute maximum height of the system - determined by the model of BL14 column fitted to your chair – i.e. 300mm or 400mm.

Using the handset, press and hold simultaneously for 5 seconds the Leg Rest DOWN Button (3rd row, Right button) & Seat Tilt UP Button (4th Row, Left button) until Buzzer beeps once – refer to the Green Rings on the diagrams in Section 5.9

Handset Functions / Channel Diagram

Blue indicate buttons to press and hold simultaneously for Reset procedure

Red indicate buttons to press and hold simultaneously for Initialisation procedure (Phase 3 & 4 software only)

Green indicate buttons to press and hold simultaneously for RESET MAXIMUM Height (refer to Section 5.8.2)

Purple indicate buttons to press and hold simultaneously for STORE/SET MAXIMUM HEIGHT (refer to Section 5.8.1)

CH 1 OUT
CH 2 OUT
CH 3 OUT
CH 4 OUT
Bed Position

CH 1 IN
CH 2 IN
CH 3 IN
CH 4 IN
Chair Position

HI-LO
Backrest
Legrest
Seat

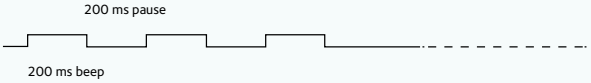
CH 1 & 2 OUT
CH 3 OUT
CH 4 OUT
CH 5 OUT
Bed Position

CH 1 & 2 IN
CH 3 IN
CH 4 IN
CH 5 IN
Chair Position

Buzzers

Position Lost:

POSITION LOST on an actuator is indicated via an intermittent beep 200msec ON / 200msec OFF. Try the RESET/ INITIALISATION procedure (refer to 5.7.1 and 5.7.2) and then in turn run all functions. If problem persists, locate faulty actuator or cable and replace.

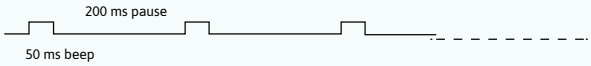


Fatal/System Error:

FATAL ERROR is indicated via an intermittent beep 50msec ON / 500msec OFF. Try the RESET/INITIALISATION procedure (refer to 5.7.1 and 5.7.2) and then in turn, run all functions. If problem persists, locate faulty actuator/cable and replace. This could also be caused by CB6/CU20 problems, replace as required.

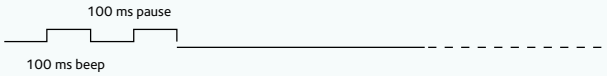
Error (5 Beeps):

Overload:



Manual Mode:

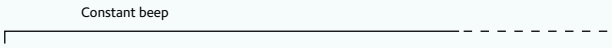
Confirm (2 Beeps):



Reset or Entering Manual Mode:

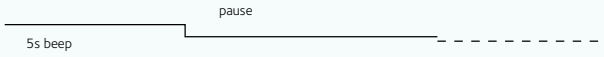
Hoot:

A CONSTANT BEEP when any button is pressed indicates power management error in the CB. Ensure the system is connected to MAINS 240V and leave without operating for minimum 6 hours. If, after 6 hours the problem still exists, replace the CB.



Overheating:

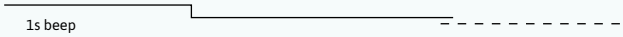
OVERHEATING is indicated by a 5 second beep when a function is activated. Allow the system to cool down before operating.



Medium level battery (only CB20):

BATTERY LOW is indicated by a 1 second beep when a function is activated. Charge or replace the battery.

(If the temperature exceeds a pre-defined level the driving stops followed by a 5s beep tone. If the next activation is carried out before the temperature level is at an acceptable level, driving is not allowed and the 5s beep tone comes up).



For Electric Models Only - SYSTEM INFORMATION

1. Backrest (LA27)
2. Hi-Lo (LC3)

B Battery (KB19)

3 Legrest (LA27)

4. Seat Tilt (LA27)

H1 Hand Control

Models with this control Box:

- -S4540D.L ...
- -S4545D.L...
- -S4540D.X ...
- -S4545D.X ...

If in doubt, please contact your supplier to confirm

HILO Up

Backrest Up

Legrest Up

Seat Tilt Up

Auto Flat M1

HILO Down

Backrest Down

Legrest Down

Seat Tilt Down

Auto Chair M2

Setup Control Box

This function must be performed when running a chair for the first time, when replacing a Control Box or when adding to or removing an actuator from the chair.

The function will automatically detect the actuators connected and run all connected actuators through a cycle of initialisation and stroke length checking.

Only actuators detected during this process will be able to work.

If the Control Box has already been setup and you wish to add or remove an actuator, the buttons must be held for approx. 10 seconds before movement starts.

Please note that if you have started but not completed the setup process, all functions will be disabled.

Simultaneously press and hold the **HILO UP** and **LEG REST DOWN** buttons until all connected actuators have run fully OUT and then fully IN at least once.

During movements, the control box may buzz POSITION LOST.

To indicate that all movements are complete, the control box will buzz CONFIRM.

INIT All

To be used after an actuator and/or actuator cable replacement.

Simultaneously press and hold the **HILO UP** and **HILO DOWN** buttons. The Leg Rest actuator will drive fully DOWN, then drive UP a few mm.

The Back Rest and Seat Tilt actuators will drive fully UP, then drive DOWN a few mm. During movements, the control box may buzz POSITION LOST.

To indicate that all movements are complete, the control box will buzz CONFIRM.

Fatal Error Reset

A Fatal Error is automatically RESET approx. 5 seconds after the last key press (no buzzer). As an alternative, do the following (will only work if there is a current Fatal Error).

Simultaneously press and hold the **Backrest Up** and **Backrest Down** buttons for 5 seconds. To indicate that reset is in progress, the control box will buzz RESET.

Please note that the two buttons must be pressed at the same time.

SET Max Height

Simultaneously press and hold the **LEG REST UP** and **SEAT TILT DOWN** buttons for approx. 5 seconds. To indicate a successful operation, the control box will buzz CONFIRM.

The max height is now set to the current HILO actuator stroke.

Reset Max Height

Simultaneously press and hold the **SEAT TILT UP** and **LEG REST DOWN** buttons for approx. 5 seconds. To indicate a successful operation, the control box will buzz CONFIRM.

The max height is now set to 400mm (the factory default is 300mm).

Set (Store)

Simultaneously press and hold **AUTO FLAT MI** and **AUTO CHAIR M2** buttons for approx. 5 seconds. To indicate that Store Mode has been enabled, the control box will buzz STORE.

Release the buttons and within 2 seconds press **AUTO FLAT MI or AUTO CHAIR M2** b2 to store the current actuator positions. To indicate that the positions has been stored, the control box will buzz CONFIRM.

Buzzers

STORE –
one short beep (l00mS)

CONFIRM –
two short beeps (200mS beep, l00mS pause)

RESET –
l0 beeps (S00mS beep, S0mS pause)

ENDSTOP ERROR –
continuous (S0mS beep, S0mS pause)

FATAL ERROR –
continuous (S0mS beep, S00mS pause)

POSITION LOST –
continuous (200mS beep, 200mS pause)

HOOT –
continuous beep (indicates an operation is disabled or illegal)

BATTERY LOW –
one beep (l second)

For Electric Models Only - SYSTEM INFORMATION

1. Backrest (LA27)
2. Hi-Lo (LC3)

B Battery (KB19)

3 Legrest (LA27)

4. Seat Tilt (LA27)

H1 Hand Control

Models with this control Box:

- -S4540D.L ...
- -S4545D.L...
- -S4540D.X ...
- -S4545D.X ...

If in doubt, please contact your supplier to confirm

HILO Up
Backrest Up
Legrest Up
Seat Tilt Up
Auto Flat M1

HILO Down
Backrest Down
Legrest Down
Seat Tilt Down
Auto Chair M2

Setup Control Box

This function must be performed when running a chair for the first time, when replacing a Control Box or when adding to or removing an actuator from the chair.

The function will automatically detect the actuators connected and run all connected actuators through a cycle of initialisation and stroke length checking.

Only actuators detected during this process will be able to work.

If the Control Box has already been setup and you wish to add or remove an actuator, the buttons must be held for approx. 10 seconds before movement starts.

Please note that if you have started but not completed the setup process, all functions will be disabled.

Simultaneously press and hold the **HILO UP** and **LEG REST DOWN** buttons until all connected actuators have run fully OUT and then fully IN at least once.

During movements, the control box may buzz POSITION LOST.

To indicate that all movements are complete, the control box will buzz CONFIRM.

INIT All

To be used after an actuator and/or actuator cable replacement.

Simultaneously press and hold the **HILO UP** and **HILO DOWN** buttons. The Leg Rest actuator will drive fully DOWN, then drive UP a few mm.

The Back Rest and Seat Tilt actuators will drive fully UP, then drive DOWN a few mm. During movements, the control box may buzz POSITION LOST.

To indicate that all movements are complete, the control box will buzz CONFIRM.

Fatal Error Reset

A Fatal Error is automatically RESET approx. 5 seconds after the last key press (no buzzer). As an alternative, do the following (will only work if there is a current Fatal Error).

Simultaneously press and hold the **Backrest Up** and **Backrest Down** buttons for 5 seconds. To indicate that reset is in progress, the control box will buzz RESET.

Please note that the two buttons must be pressed at the same time.

SET Max Height

Simultaneously press and hold the **LEG REST UP** and **SEAT TILT DOWN** buttons for approx. 5 seconds. To indicate a successful operation, the control box will buzz CONFIRM.

The max height is now set to the current HILO actuator stroke.

Reset Max Height

Simultaneously press and hold the **SEAT TILT UP** and **LEG REST DOWN** buttons for approx. 5 seconds. To indicate a successful operation, the control box will buzz CONFIRM.

The max height is now set to 450mm (the factory default is 300mm).

Set (Store)

Simultaneously press and hold **AUTO FLAT MI** and **AUTO CHAIR M2** buttons for approx. 5 seconds. To indicate that Store Mode has been enabled, the control box will buzz STORE.

Release the buttons and within 2 seconds press **AUTO FLAT MI or AUTO CHAIR M2** b2 to store the current actuator positions. To indicate that the positions has been stored, the control box will buzz CONFIRM.

Buzzers

STORE –
one short beep (100mS)

CONFIRM –
two short beeps (200mS beep, 100mS pause)

RESET –
10 beeps (500mS beep, 50mS pause)

ENDSTOP ERROR –
continuous (50mS beep, 50mS pause)

FATAL ERROR –
continuous (50mS beep, 500mS pause)

POSITION LOST –
continuous (200mS beep, 200mS pause)

HOOT –
continuous beep (indicates an operation is disabled or illegal)

BATTERY LOW –
one beep (1 second)

Troubleshooting Guide - Electronics

	Problem	Problem Cause	Possible Remedy/Action
1	**Power Indicator does not light up / No Functions at all**	No power to the system i.e. not connected to mains	Check the power cable is plugged into the mains power socket and that the power is switched on.
		The fuse has blown	Replace or send control box for repair
		- Defective Power Cable	Defective power cable - On control boxes with exchangeable power cable change the cable. On control boxes with fixed cable send it for repair
		Control Box Defective	Send control Box for repair
2	**Power indicator lights up, but actuators/functions do not run**	Actuator plug not pushed into control box properly	Push actuator plug into control box properly
		Control box/control panel defective	Replace or send control box for repair
3	**No functions at all when the power cable is disconnected from mains power**	Battery Pack is missing	Replace missing battery pack
		Bad Battery Connection	Check the battery connection
		Batteries are flat	Plug the power cable into mains power and charge for a minimum of 24hrs. If problem persists employ an approved Sertain/Linak qualified technician to check the batteries/charging circuit and/or replace the batteries.
		Batteries are damaged or at the end of their lifespan	replace the batteries with Linak approved batteries
4	**Relays in control box are heard clicking**	Actuator defective	Replace actuator
		Control Box Defective	Replace Control Box
5	**Actuator will drive OUT but not IN**	Position Lost on actuator	Try performing the Reset/Initialisation procedure. If problem persists, replace the actuator
6	**No relay noise is heard from control box (Not valid for CB20/CB6S OBF/CB16 OBF)**	Handset defective	Send handset for repair Replace handset
7	**Actuator does not run on battery power, but relay clicking is heard**	Actuator plug not properly pushed	Push Actuator plus properly into control box
		Actuator Defective	Replace actuator or send for repair
		Control box defective	Replace control box or send for repair
8	**Control Box functions okay apart from one direction**	Handset Defective	Replace handset or send handset for repair
		Control Box / Panel Defective	Send control box for repair or replace
9	**Actuator will not drive IN or OUT. Intermittent beeping from the control box when button is pressed**	Electronics need resetting	Perform the Reset/Initialisation procedure
		Cable of = actuator is either disconnected or faulty	Reconnect or replace the faulty component
		Actuator is faulty	Replace actuator or send for repair
10	**One or more actuators stop while operating them**	Actuator is overloaded	Reduce or remove load on the chair and try again
11	**HILO columns will not drive IN or OUT (if applicable)**	Electronics need resetting	Reduce or remove load on the chair and try again
		Cable to column is disconnected or Faulty	Reconnect or replace the faulty component
		Column is faulty	Replace column or send for repair
12	**POSITION LOST on an actuator is indicated via an intermittent beep 200msec ON / 200msec OFF**	If problem persists, locate faulty actuator or cable and replace.	Try the RESET/INITIALISATION procedure, and then in turn run allfunctions.
13	**FATAL ERROR is indicated via an intermittent beep 50msec ON / 500msec OFF.**	If problem persists, locate faulty actuator/cable and replace. This could also be caused by CB6/CU20 problems, replace as required.	Try the RESET/INITIALISATION procedure, and then in turn, run all functions

Cleaning & Maintenance

General Maintenance

Daily:

A daily visual inspection should be performed by any staff member that is going to use the chair. This is to make sure that the chair is in a safe operating condition. If there are any features/items that require attention that may affect the safety of the client or carer, the chair should be removed from service until these issues have been rectified.

Weekly:

Upholstery cleaning and maintenance must be carried out weekly (minimum) to ensure longevity and hygienic conditions are maintained. Please refer to section titled General Cleaning Instructions for recommended cleaning practices

Monthly:

The following should be checked and adjusted if required:

All nuts and bolts on pivot points:

- If they are loose, tighten without restricting pivot operation.
- If they are worn, replace with a Careleda P/L approved fastener.
- Mechanism and Gas Strut fasteners must be cared for in like manner to pivot point fasteners.

All functions of chair:

i.e. backrest, seat tilt, leg rest, footrest, wings and arms, directional lock, braking system – refer to supplier for any repairs required

- Cleaning and light oiling of cables and activating heads facilitates better operation of mechanisms and gas strut.
- Grease and oil points as needed, but DO NOT oil or grease gas strut shafts.

Upholstery inspection:

- any tears, rips, parts missing, etc – refer to supplier of chair for replacement parts

Castors (please check the following):

- The condition and ensure they are freewheeling and bearings are not loose.
- The wheels for any distortion or damage
- The tyres for any damage – i.e. cuts or chunks out of tyre
- The forks are straight
- Axle nuts are secure
- Wheel bushing and axle for wear and deterioration
- Remove any hair and grime build-up on castors
- Check that directional lock and brake functions both work correctly
- Please note: All pintles must be checked at regular intervals. They must be fully and firmly fitted in tube and locating device. Retaining screw must be tight
- If there is any doubt about the integrity of the castor, please contact your REGENCY™ distributor for repair advice

Electrics:

- All cables and motors to be inspected for damage.

Electrics - Maintenance

Valid for all LINAK products

- The LINAK products must be cleaned at regular intervals to remove dust and dirt and inspected for mechanical damage, wear and breaks.
- The LINAK products are closed units and require no internal maintenance.
- Only type IP66 are waterproof and type IP66W tolerates being washed in tunnels.
- This chair and its LINAK components are not rated IP66 washable.

Valid for all LINAK actuators and Lifting columns

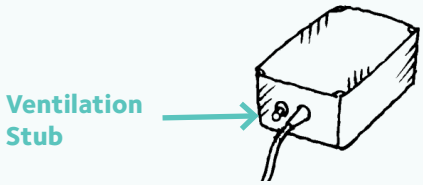
- Actuators / lifting columns must be inspected at attachment points, wires, piston rod, cabinet, and plugs, as well as checking that the actuator / lifting columns function correctly.
- To ensure that the pre-greased inner tube remain lubricated the actuator must only be washed down when the piston rod is fully retracted.

Valid for all LINAK control boxes and handsets

- Electronics must be inspected at attachment points, wires, cabinet, and plugs.]
- Inspect the connections, cables, cabinet, and plugs, and check for correct functioning (does not apply to battery versions).
- With the exception of the CS16 and CS18 PCB the control boxes are sealed and maintenance-free.
- Inspect at regular intervals that the ventilation aperture on the external battery is positioned correctly and is intact throughout its length, approx. 20mm, see figure 1.

Figure 1

- Ventilation of external batteries, BA18 (for models fitted with this type)
- Check at regular intervals that the ventilation stub is undamaged and intact. The construction of the ventilation stub permits the battery gases to get to get out, but does not permit penetration of water.



Maintenance of batteries

The batteries are to be replaced after 4 years at the latest - perhaps earlier, dependent on the pattern of use. Frequent and high-powered discharges reduce the battery life. For an optimum lifetime the product must be connected to the mains voltage as often as possible. The batteries must be charged at least every 3rd month - otherwise they will be damaged in due to self-discharge. It is recommended to test the battery function at least once every year.

Replacement and Maintenance of Batteries

The batteries must only be replaced with Linak approved battery types – please contact your supplier for further information. The batteries must be new or maintained by means of charging at least every 3rd month. The batteries, which make a set, must be supplied with identical production codes. Mismatching of production codes may lead to severely reduced life time expectancy.

Before mounting ensure that the battery set is correctly connected, compare with the drawing in the battery room, and check that no connectors are loose.

- From the factory the battery room is hermetically separated from the electronics room. When replacing the batteries this separation must not be damaged or modified as this may allow penetration of battery gas into the electronics room with risk of explosion.
- When replacing batteries in waterproof products (IP 65 and IP 66) precautions must be taken that the sealing material (silicone ring or joint filler) is not damaged and that it is correctly placed in the groove. Hereafter the screws in the cover are to be fastened with approximately 1 Nm. If the seal is damaged it must be replaced by a new silicone string (LINAK article no. 0008004 for a roll of 100 metres).
- If a non-LINAK battery is used, it is important to check that the current is not reversed (plus and minus swapped over) This applies to both control boxes, which always run off battery and control boxes with battery backup. Contact your nearest LINAK dealer for specification of type, size etc

Disposal

The batteries, which are lead-acid batteries, can be returned to LINAK or disposed in the same way as car batteries.

- The battery room is supplied with ventilation that ensures correct and necessary airing of the battery room. This airing must not be blocked or covered as a positive pressure may occur with risk of explosion.
- If the product has been exposed to mechanical overload (lost on the floor, collision/squeezing in the application or a powerful stroke) the product must be sent to an authorised workshop for control of the hermetic separation between the battery and electronics rooms.

Cleaning & Disinfecting of Electrical Components

IP	Cleaning Instructions
IPX0	Clean with a damp cloth.
IPX1	Clean with a damp cloth.
IPX2	Clean with a damp cloth.
IPX3	Clean with a damp cloth.
IPX4	Clean with a damp cloth.
IPX5	Wash with a brush and water, but not water under pressure.
IPX6	Wash with a brush and water. The water can be under pressure, but the system must not be hosed down directly with a high pressure cleaner. Max. 20°C.
IPX6 W*	Clean by the use of water tunnels

X can have a value of between 1 and 6.

* The following products can be marked with IPX6, but they are still allowed for wash tunnels: ACP, ACM (mini), ACM (new), BA18, CB12/14/18, DJB, FS2, HB40, LA28, LA32, LA34 stand, LA34 comp.

The materials are resistant to the majority of cleaners and disinfectants used in the hospital and nursing home sector. Cleaning with a steam cleaner, for example, is not permitted, as it will not be possible to maintain a minimum distance of 300 mm from the electrical parts. IP 66W products can be washed in wash tunnels that wash according to the "Machine Decontamination" provided that the following guidelines are complied with:

- The cleaning and disinfection cycle in the wash tunnel must not last longer than 10 minutes.
- The nozzle pressure in the wash tunnel must not exceed 10 bar.
- The distance between the nozzle and the electrical parts must be at least 300 mm.
- The handset and motor plug must be pushed right in.
- The water temperature must not exceed 85 °C.
- Cooling with cold water is not permitted.

To avoid degreasing of the piston rod, the actuator should be retracted to minimum stroke before washing

The following directions regarding cleaners and disinfectants must be complied with:

- They must not be highly alkaline or acidic (pH value 6-8).
- They must not contain caustic agents.
- Their contents must not be able to change the structure of the surface or adhesion of the plastic.
- They must not break down grease.

The systems must not be sprayed directly with a high pressure cleaner.

Any damaged, worn, broken or non-functional part should be reported and repaired immediately. If the client or carers safety is at risk, the unit should be withdrawn from service until repaired for safe use.

This general maintenance outline is a guide only, and the manufacturer does not accept any liability/responsibility for use thereof. The above maintenance program is comprehensive but not exhaustive.

General Cleaning Instructions

General Cleaning

For longevity, wiping the chair covers with a neutral detergent and a warm water solution is preferable, then dry with a soft, clean cloth. The use of mild non-abrasive pure soap is recommended. Stubborn grime may require gentle scrubbing with a soft brush. (Refer to standard instructions). Armrests, wings etc can all be easily hinged away/removed to allow cleaning access across the chair, for models with the features.

DO NOT MACHINE WASH. DO NOT DRY CLEAN. FOR TREATING SPECIFIC STAINS; ALWAYS REMEMBER THAT PROMPT ATTENTION YIELDS MORE COMPLETE REMOVAL.

Never use furniture polishes, abrasive cleaners or steel wool. Regular use of cleaners containing hydrocarbons or similar additives may cause damage to the vinyl and harden the surface. Strong solvents, e.g. Acetones are detrimental to the vinyl surface. Avoid exposure to excessive heat and non-colour-fast dye stuffs found in some articles of clothing as they may transfer to the fabric surface. Sunlight will also shorten the life of most vinyls. Oil, petroleum and solvent based products should not come in contact with the upholstery.

Replaceable Foams and Vinyl

Should it be necessary replacement foams and vinyls are available to keep the product up to standard. The modular design of the Regency™ Response Chair ensures that individual covers can be replaced without the need for full re-covering as per traditionally upholstered chairs.

Framework

The framework of your Regency® chair is manufactured from quality steel, coated with powder coatings for corrosion protection. In the event of soiling, spillages and contamination the most of the chair frame can be easily rinsed using a neutral detergent solution. Note: Do Not Rinse Electrical Equipment

Vinyl Protector

Distributors of the Regency, Regency & Sertain® ranges of high-dependency seating supply a vinyl Protectant treatment, containing a plasticiser. This easy to apply solution can be sprayed on and left to air dry, after cleaning, leaving the chair vinyl surface fresh and supple.

Product Disposal

Be environmentally responsible and recycle this product through your recycling facility at its end of life.

Disassemble the product and its components, so the different materials can be separated and recycled individually.

The disposal and recycling of used products and packaging must comply with the laws and regulations for waste handling in each country. Contact your local waste management company for information.