



SEERS
MEDICAL

OPERATING INSTRUCTIONS

SEERS Shower Trolley

ST7700, ST7600 Hydraulic Models

ST7500, ST7800 Battery Operated Models



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SEERS SHOWER TROLLEY – OPERATING INSTRUCTIONS		
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1. GENERAL INFORMATION.

CONGRATULATIONS on the purchase of your **SEERS MEDICAL** Product. If these operating instructions are adhered to, this product will provide many years of safe use.

IF THESE OPERATING INSTRUCTIONS ARE NOT FOLLOWED - YOUR WARRANTY COULD BE INVALID!

Always keep these Operating Instructions available for reference.

ALL User Interfaces are identified by the **DARK GREY COLOUR**.

WARNINGS!

Warnings identify potential hazards which if not followed correctly, could result in serious injury, or possibly even death!

- Ensure battery operated trolleys are not used in the presence of flammable gasses such as an anaesthetic agent.
- DO NOT EXCEED the Maximum Safe Working Load of 240 Kg (528 lbs) – which must be distributed evenly across the working surface
- Do not concentrate uneven weight on either side of the trolley.
- Use only accessories that have been designed or approved for use with this trolley.
- Children must not play with the couch at any time.
- Adequately supervise children in the proximity of the trolley.

WARNINGS! BATTERY OPERATED MODELS ST7500 & ST7800

- Handle batteries carefully.
- LINAK battery packs may emit flammable gases. Do not bring fire or a heated object close to the battery pack, and never use the battery near a spark, fuses and/or equipment that emits sparks.
- Do not store the battery in a closed environment or incorporate it into a closed structure of an enclosure. Doing so can cause an explosion, fire, equipment damage and bodily injury.
- Do not connect the positive terminal and the negative terminal of the LINAK battery packs with a wire or other metals.
- Be careful with tools and do not wear jewellery when handling batteries. Short-circuiting the terminals of the battery can cause burn injuries, damage to the storage battery or trigger explosions.
- Never connect the LINAK battery packs directly to a power supply socket or an automobile's cigarette lighter without using a charger

as a medium. Connecting the battery directly can cause the battery to leak fluid, generate heat, explode, cause fires or bodily burns and injuries.

- LINAK battery packs contain toxic substances. If the battery's internal fluid leaks out and gets onto your skin or clothing, make sure it is washed off with clean water. Additionally, if the fluid gets in your eyes, wash them with clean water immediately, and see a doctor. If battery fluid gets into your eyes, it can cause a loss of eyesight and when it gets on your skin, it can cause a burn on your skin.
- Do not use or store LINAK battery packs where the surrounding temperature exceed 50°C, such as inside a hot automobile, in direct sunlight, or in front of a stove or a source of intense heat. Doing so can shorten battery life, lower its performance level, cause the battery to leak fluid, be damaged or deformed.
- Do not use a LINAK cord set for other devices than LINAK control boxes or LINAK power supplies.

CAUTIONS!

Cautions identify circumstances which if not followed correctly, could result in failure or damage of the equipment!



Attention refer to these Operating Instructions for further information

2. HOW TO USE.

a. WHEEL SYSTEM

LARGE MOBILE WHEEL DESIGN



Wheel Lever Down
All castors locked



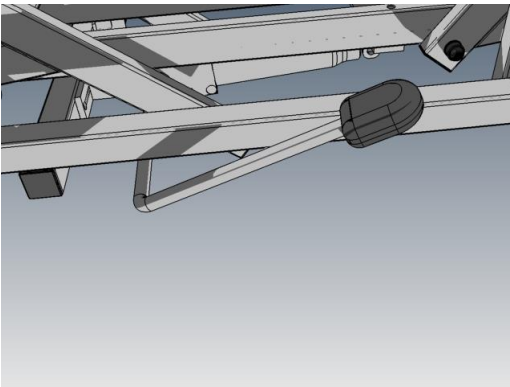
Wheel Lever Horizontal
Castors un-locked



Lever Up – Directional steering
castor engaged at rear of trolley

b. ADJUSTING THE HEIGHT OF THE COUCH

Hydraulic Operated Models (ST7600 & ST7700)



1. To elevate the couch, push the pedal downwards with your foot. Repeat until correct height is achieved.
2. To lower couch, raise the pedal upwards, by putting your toe underneath the lever, lifting the lever upwards.

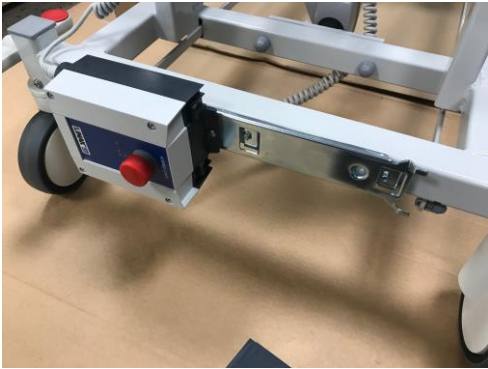
Battery Operated Models (ST7500 & ST7800)



1. To elevate the trolley, press and hold the 'Up Arrow' on the handset until correct height is achieved. Release the button to lock the trolley at that height.
2. To lower the trolley, press and hold the 'Down Arrow' on the handset until lowered height is achieved. Release the button to lock the trolley at that height.

c. BATTERY OPERATED MODELS (ST7500 & ST7800)

Battery Fitting and removal



1. To fit the battery, simply offer it up to the mounting bracket, aligning with the connection point at the control box end.



2. Once aligned simply click the battery into the bracket until secure.
3. To release the battery, activate the metal release clip behind the battery and support the battery as you lift away.

CAUTION! DO NOT DROP BATTERY and be READY TO TAKE THE WEIGHT OF THE BATTERY ONCE REMOVED FROM FIXING BRACKET

d. CHARGING UNIT



4. The trolley is supplied with a separate charger which can be wall mounted by fixing the plate to a wall if desired.
5. The battery status is indicated on the handset. Charge when required.
5. Do not use the mains charger in an environment where it could get wet!

Further information with regards to the battery charging/performance is included at the end of this User Manual

e. SIDE SUPPORTS RAILS

WARNING!

Children must not play with the trolley at any time.

Adequately supervise children in the proximity of the trolley.

Ensure the Side Support Rails are Fully Engaged into Socket prior to use



To **Raise** the side support rail, simply lift and rotate 180 degrees, and then engage fully into socket.



To **Lower** the side support rail, simply lift out of socket and rotate down 180 degrees to disengaged position.

f. BUMPER REMOVAL



If necessary, to narrow the width of the trolley (for narrow doorways) the bumpers can be removed from the ends of the trolley.

Simply loosen the thumb knob on the underside near the bumper, until loose enough to slide the bumper out of the steel frame.

3. CLEANING INSTRUCTIONS

WARNING!

DO NOT SATURATE PRODUCT

IF PRODUCT GETS SATURATED DURING CLEANING, THIS COULD ACCELERATE CORROSION, REDUCING PRODUCTS LENGTH OF SERVICE.

General Cleaning:

To get rid of any dust or marks on the surface the Faux Leather **MUST** be wiped **DAILY** with a moist soft cotton cloth. Visible and loose dirt can be picked up with a vacuum cleaner (Do not use a brush type vacuum) Use a soapy cotton cloth and gently rub stains with circular movements.

For more stubborn marks a dilute bleach solution can be used 5% Bleach to 95% Water.

Stain Removal:

Blot excess liquid as quickly as possible with a clean 100% cotton white absorbent cloth or sponge. If necessary use clean warm water. Clean the entire area where the spot occurred on the cushion, arm etc. Water may dissolve dirt particles and make cleaning easier. Spills that are still moist are the easiest to remove. Leave to air dry naturally, do not use a hair dryer etc to speed up the drying.

Coffee, tea etc spills: Use an absorbent white cloth or piece of paper. **DO NOT RUB.** Allow the stain to be absorbed and removed from the material surface. Then rub gently with white tissue paper in circular movements to remove any remaining dampness and residue.

Ink, Ball point pen, Denim, hard stains: Rub the stain by means of gentle circular movements with tissue dampened with 96°alcohol and water (1:1) After this rub the surface with gentle circular movement with tissue paper to dry it.

Butter, oil, grease stains: Wipe excess butter, oil or grease off the surface with a clean 100% Cotton white dry cloth. Use a soapy cotton cloth and gently rub the stain with circular movements. Use a clean damp cloth to wipe the area and dry the surface.

Chewing gum: Place ice cubes in a plastic bag and apply on the chewing gum. Wait several minutes, lift the ice bag and remove the chewing gum.

DO NOT USE CHEMICALS, SADDLE SOAP, CLEANING SOLVENTS, FURNITURE POLISH, OILS, VARNISH, ABRASIVE CLEANERS OR AMMONIA IN WATER.

Frequency of routine trolley cleaning will depend on exact application.

1. Ensure the trolley is in a suitable area for cleaning.
2. The trolley should be locked by activating the wheel locking as previously described.
3. Prepare a solution from the guidelines detailed above.
4. **DO NOT SATURATE PRODUCT** – This should be a wipe down – not a soaking!
5. Start by cleaning the top surface of the trolley, working down onto the frames below, ensuring to not accidentally activate any of the release levers, or user interface parts.
6. Ensure the trolley is dry before re-use.
7. Safely discard of cleaning materials.
8. Wash hands thoroughly.

If *DECONTAMINATING* the trolley then repeat steps above using a dilute Hypochlorite & warm water mixture (mixed at 10,000ppm) instead of warm water and soap. It is crucial that any staining is treated as soon as possible but never later than 24 hours. Delays in cleaning will give stains time to react with the plasticiser in the liner making it more and more difficult to remove.

Note: These are recommended or suggested methods of cleaning. The manufacturer is not responsible for damage incurred while cleaning. Always try the cleaning method in a hidden area first to see the results.

Remember if you are not sure contact your customer representative before proceeding.

4. MAINTENANCE

1. A visual inspection should be carried out daily prior to use.
2. Regular servicing should be carried out a minimum of every six months or more frequently if the trolley is in constant use.
3. Routine servicing or repair must only be performed by suitably qualified people.
4. Look for any visual signs of damage. Ensure all nuts, bolts and other fasteners are present and fitted where expected. If loose (can be undone by hand), re-tighten using suitable tools – but taking care to not over tighten as this could cause binding, juddering, identifiable by a likely noise.
5. Check all pivot points – ensuring they are secured correctly by the securing nuts. **IF THESE ARE MISSING DO NOT USE THE TROLLEY** – retighten where necessary – but do not over tighten.
6. Check hydraulic pump (hydraulic variant only) for smooth operation and any signs of leakage.
7. Ensure wheel system operates correctly – locking when activated, and the directional castor activates when lever is in up position.

5. WARRANTY

SEERS MEDICAL Limited standard terms and conditions apply to this device.

A copy of this is available upon request. This contains full details of warranty terms and does not affect your statutory rights.

For any further information on this product, regarding spares, warranty, service or maintenance information, please contact:

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As part of our ongoing development programme **SEERS** MEDICAL Limited reserves the right to alter or modify specifications and materials without prior notice.

6. TECHNICAL DATA

Index	ST7500 (Junior)	ST7600 (Junior)	ST7700	ST7800
Configuration				
Elevation Control	Battery Operated	Hydraulic	Hydraulic	Battery Operated
Overall Length (cm)	160	160	195	195
Width (cm)	74			
Minimum Height (cm)	41			
Maximum Height (cm)	94			
Safe Working Load & Lifting Capacity	240 Kg (528lbs)			

Battery Operated Models ST7500 & ST7800 Usage:

- Duty cycle: 10% or 2min. continuous use then 18min. not in use
- Ambient temperatures: +5° to +40 °C
- Approvals: IEC60601-1:2005 3rd edition, ANSI/AAMI ES60601:1 2005 3rd edition, CAN/CSA-22.2 No 60601-1:2008.

7. BATTERY INFORMATION, HANDLING & PERFORMANCE

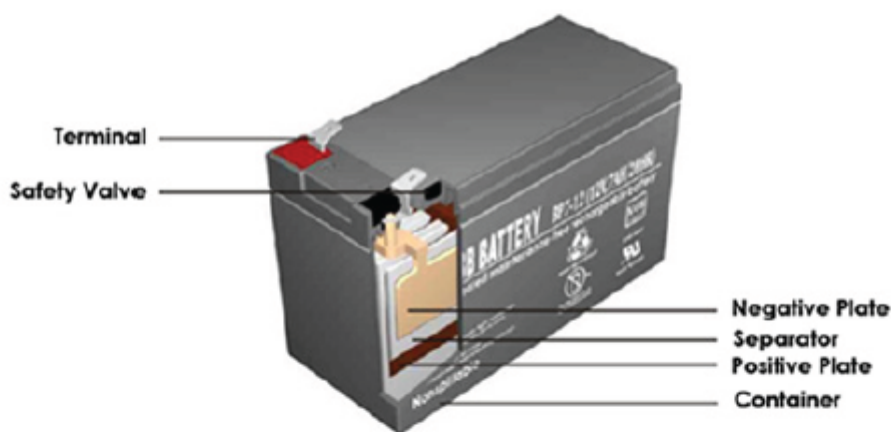
Valve-Regulated Lead Acid (VRLA) batteries

How to handle LINAK rechargeable sealed lead acid batteries to obtain the longest possible life.

Battery Construction

In a VRLA battery, a pressure relief valve will be activated when the battery starts building up hydrogen gas pressure which is generally a result of recharging. Valve activation allows some of the gas or electrolyte to escape, and in this way it decreases the overall battery capacity.

The hydrogen and oxygen produced in the cells extensively recombine into water. Leakage is minimal although some electrolyte will still escape if the recombination cannot keep up with the gas generation. Since VRLA batteries do not require and make regular checking of the electrolyte level impossible, they are called maintenance-free batteries. However, VRLA cells require maintenance. As electrolyte is lost, VRLA cells dry out and lose capacity.



Battery Capacity

Battery capacity is the amount of supplied electric charge at the rated voltage.

The rated battery capacity is usually 20 hours multiplied by the current that a new battery can consistently deliver for 20 hours at 20 °C while remaining above a specified terminal voltage per cell.

The fraction of the stored charge that a battery can deliver depends on multiple factors, including battery chemistry, the rate at which the charge is delivered (current), the required terminal voltage, the storage period, ambient temperature and other factors. The higher the discharge rate, the lower the capacity.

Charging

Theoretically, it takes about 6 to 9 hours to reach 80 % of the battery capacity level if the battery capacity is approx. 0 % SoC. It is recommended that the batteries are discharged as little as possible to optimise battery life.

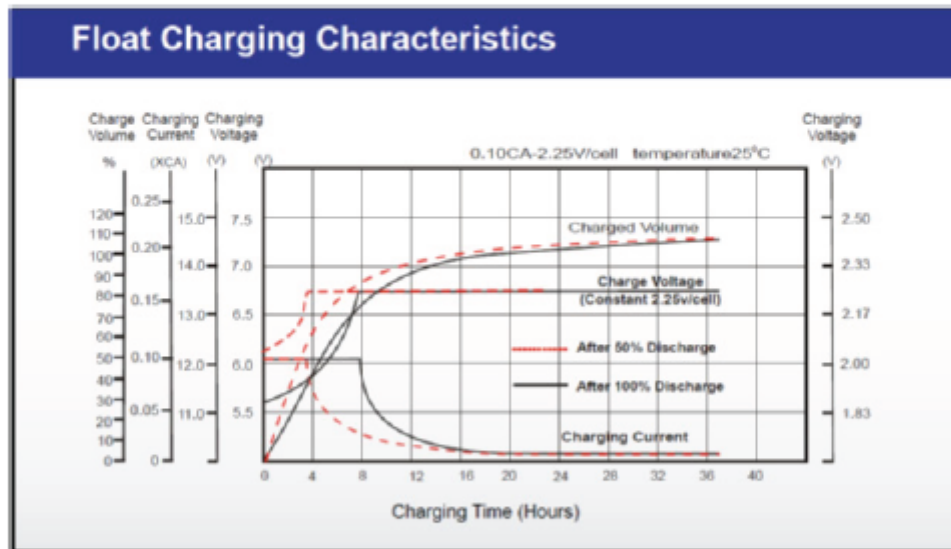
The battery discharging time and capacity level depend on the load characteristics of the application and the way in which the battery is used.

LINAK recommends a charging time up to approx. 14 hours which gives 100 % capacity.

At full charging capacity, the battery will not discharge as fast as at 80 %.

The internal and external battery charging characteristics are identical.

The battery alarm on a LINAK control box will be activated at approx. 17 to 18 V. The battery charging must be started before it reaches this level to maintain as long a battery life as possible.



80 % capacity ~ up to 6 to 9 hours charging time depending on the discharge level.

100 % capacity ~ up to 14 to 17 hours charging time depending on the discharge level.



It is not advisable to use larger batteries than the LINAK product range as this will result in overloading the LINAK battery charger.

Maintenance of batteries

Prior to first use of LINAK batteries, please make sure that they are being charged at least 24 hours and longer if possible in order to reach proper function and prolong the lifetime of the batteries.



Warning

Please observe the following maintenance, replacement, and disposal requirements to ensure a safe and reliable operation.

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. It is recommended that the batteries are to be charged at least every 6 months - otherwise will the batteries have reduced capacity due to self-discharge. It is recommended to test the battery function at least once every year.

Replacement of batteries

The batteries must only be replaced by the same type of batteries or mechanical and electrical equivalent types. The batteries must be new or maintained by means of charging at least every 6 months. The batteries, which make a set, must be supplied with identical production codes.

Mismatching of production codes may lead to a 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.



Warnings

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 (IPX5 and IPX6) 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 approx. 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 meters).

Disposal

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



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