savaria®

M-Series Clinical

Fixed Ceiling Lift

OWNER'S MANUAL

To Be Retained by Owner After Installation by Authorized Savaria Dealer

Part No. 001452-EN
Rev. 001 17-m09-2025

REVISION HISTORY

Rev. 000	Initial release.
Rev. 001	Description and image updates to Menus and Error Codes sections. Information clarification to Wireless Connectivity Specifications section.

FOREWORD

Savaria Patient Care provides products designed for safe patient movement and positive outcomes for long-term care, hospital settings and homecare environments. The company's research and clinically-based product line-up includes therapeutic surfaces for pressure management and positioning, medical beds and a complete portfolio of innovative ceiling lifts and slings.

Built from a heritage of brands including Span, Handicare and Silvalea, Savaria Patient Care is a division of Savaria Corporation (TSX:SIS), a global leader in accessibility.

IMPORTANT

Be sure to read this entire manual before using the M-Series Clinical Ceiling Lift. The information in this manual is important for the safety of the person being transferred and the operator, and for the proper use and maintenance of the device. Transfer always presents a potential risk and this manual provides important safety information that must be read and understood to help prevent injuries.

Unauthorized modifications to the device may affect its safety. Savaria Concord Lifts, Inc. will NOT be held responsible for any accidents, incidents or performance deficiencies that occur due to any unauthorized modification to the device. To avoid potential injury due to the use of inadequate parts, always use only Savaria replacement parts.

Regularly scheduled maintenance must be performed on your device by an Authorized Savaria Dealer to ensure safety and proper operation of the device. Refer to the *Maintenance* section in this manual.

NOTE

If a serious incident occurs in relation to the device should be reported to the manufacturer or distributor of the device. In the European community, the incident shall be reported as well to the competent authority of the Member State in which the user and/or patient is established.

Legal Manufacturer:

Savaria Concord Lifts, Inc.
2 Walker Drive
Brampton, Ontario L6T 5E1
Canada

European Representative:

Advena Ltd.
Tower Business Centre,
2nd Flr., Tower Street, Swatar,
BKR 4013 Malta

UK Responsible Person/Northern Ireland Authorised Representative:

Advena Ltd, Pure Offices, Plato Close,
Warwick. CV34 6WE UK

Australian Sponsor:

KD&A PTY LTD
286 Flinders St, Adelaide
South Australia, 5000

STANDARD NOTATIONS

The following notations may be used throughout this manual to emphasize important safety information, mechanical concerns, and other important information. Please review and follow all of these messages.

DANGER	Danger messages indicate an imminently hazardous situation, which, if not avoided, results in death or serious injury. All danger messages feature a standard ISO safety alert symbol followed by the signal word DANGER in capitalized black lettering on a red background.
WARNING	Warning messages indicate a potentially hazardous situation, which, if not avoided, could result in death or serious injury. All warning messages feature a standard ISO safety alert symbol followed by the signal word WARNING in capitalized black lettering on a dark yellow background.
CAUTION	Caution messages indicate a potentially hazardous situation, which, if not avoided, could result in minor injuries. All caution messages feature a standard ISO safety alert symbol followed by the signal word CAUTION in capitalized black lettering on a yellow background.
NOTE	Note messages provide information, such as reminders, general information about a previous statement, or additional guidelines that do not fit into the flow of the preceding text. All note messages include the signal word NOTE in capitalized white lettering on a blue background.

CONTENTS

1. OVERVIEW

Intended Use

The M-Series Fixed Ceiling Lift is designed for use by caregivers and health care professionals to lift and transfer a person in a homecare, assisted-living or hospital environment. Transfer must be performed by a qualified operator as described in this manual. **Do NOT use the device for any other purpose.**

Product Life

The device is designed for a useful life of 10 years after which time it must be replaced. To ensure this life span, you must perform the preventive maintenance as specified in the *Maintenance* section in this manual.

⚠ WARNING

Savaria Concord Lifts, Inc. cannot ensure complete safety for a device that has exceeded its useful life. Wear may cause failure of a part and lead to a patient fall.

The expected life for other parts such as slings, batteries, fuses, straps, and cords is dependent upon the proper care and use of the individual items. The items must be maintained as described in their accompanying documentation and in the *Maintenance* section in this manual.

Using This Manual

To ensure safe operation of the device, read this entire manual carefully, especially the *Safety Instructions*, before installing, using or maintaining the device. Failure to comply with all WARNINGS in this manual may result in injury. If there is anything you don't understand, contact your Authorized Savaria Dealer for further details.

Keep this manual with the device and ensure all operators are fully trained in the use of the device as described in this manual.

Downloading the Savaria Connect App (iOS or Android)

You can install the Savaria Connect app on both iOS and Android devices.

iOS

1. Open the App Store on your device.
2. Search for “Savaria Connect”.
3. Tap **Get** to install the app.

Once installed, open the app and follow the in-app tutorial to learn how to connect to an M-Series Clinical Fixed Ceiling Lift.

Android

1. Open the Google Play Store on your device.
2. Search for “Savaria Connect”.
3. Tap **Install** to install the app.

Once installed, open the app and follow the in-app tutorial to learn how to connect to an M-Series Clinical Fixed Ceiling Lift.

2. SAFETY INSTRUCTIONS

Keep these *Safety Instructions* with the device at all times. Read this entire manual before installing, using or maintaining the device.

⚠ WARNING

Do NOT use the device for any purpose other than to transfer a person. To ensure safety of the person being transferred and the operator, follow all Safety Instructions.

Take the necessary precautions to avoid any risk of entanglement posed by the lifting strap, hand control cord and Powered 3-Down™ cord.

To Ensure Safety

- The ceiling lift has a safe working load of 272 kg (600 lb), 200 kg (440 lb) or 130 kg (286 lb). If the maximum load differs between the ceiling lift or a ceiling lift accessory, then the lowest maximum load shall always be used. Refer to the nameplate tags for the Maximum Load allowed.
- The ceiling lift shall be installed in a track system with equal or greater capacity. Never install a ceiling lift into a track not having sufficient loading capacity.
- The ceiling lift must be installed by an Authorized Savaria Dealer.
- Ensure the ceiling lift is used only with a Savaria ceiling track system. If the track system is not from Savaria, ensure the track system is properly assessed by a competent authority for fit, function, and safety.
- The track system must be installed by a trained and Authorized Savaria Dealer.
- Savaria lifters are specifically designed for Savaria track system and specified compatible accessories and slings. Using an accessory or sling, not listed as compatible, represents a risk because the combination has not been assessed by Savaria.
- Operators must be fully trained before using the ceiling lift.
- Ensure the sling is intended for use with this ceiling lift and can handle the weight of the person. Ensure the sling is not damaged in any way and the sling straps are in good condition and attached properly.

- Check with a qualified health professional to ensure the person to be transferred has been deemed suitable for transfer.
- Take extra care with a person who is connected to electrodes, catheters or other medical devices to ensure safe transfer.
- Take care to avoid impact during transfer.
- Keep all components of the device clean and dry.
- Follow the transfer procedures provided in this manual.
- Perform the "Before each use" checks and actions specified in the *Operator Maintenance Schedule* before using the device.
- Ensure all checks and actions are performed at the frequency indicated in the *Maintenance* section in this manual.

Battery and Charger Safety

WARNING

Contact your Authorized Savaria Dealer if you are unsure of any of the safety instructions provided below.

- Do NOT expose the battery or charger to water or any other liquid.
- To avoid injury, do NOT alter the battery in any way. Stop using the battery if any damage is noted.
- Do NOT charge the battery in an unventilated area and do not cover the charger.
- If the battery case cracks and the contents of the battery contact your skin or clothing, rinse immediately with plenty of water.
- If the contents of the battery contact your eyes, rinse immediately with plenty of water and seek medical attention.
- Inhalation of the contents of the battery can cause respiratory irritation. Provide fresh air and seek medical attention.
- For recycling or disposal of batteries, follow the rules according to the WEEE directive (Waste of Electronic and Electrical Equipment) as well as all local laws and regulations. If you do not follow these rules, the battery may explode, leak and cause personal injury.

Fire and Explosion Prevention

- Use only lithium ion batteries that are designed for use with the device.
- Use only the charger that is supplied with the device.
- Do NOT store batteries in an area with a temperature higher than 70 degrees C (158 degrees F).
- Do NOT store the battery in direct sunlight or near any heat source.
- Do NOT expose the battery or charger to flames.
- Do NOT use the charger in the presence of any flammable anaesthetic gases.
- Do NOT short circuit the battery terminals.
- Do NOT incinerate the battery.
- Do NOT puncture the battery or try to open/dismantle the battery.

Electric Shock Prevention

- Do NOT touch or use the device if you notice any exposed or damaged wires.
- Do NOT expose electrical parts of the device to water or moisture.
- Do NOT attempt to use the charger in an area that has a different voltage and frequency requirement other than that specified on the nameplate.
- Do NOT attempt any repairs to the device, battery or charger. Always contact your Authorized Savaria Dealer for service.

3. DESCRIPTION

Exterior Views

Figure 1

Front View of Ceiling Lift with Digital Display on Unit

Front View of Ceiling Lift with Digital Display on Hand Control

Bottom View of Ceiling Lift with Digital Display on Unit

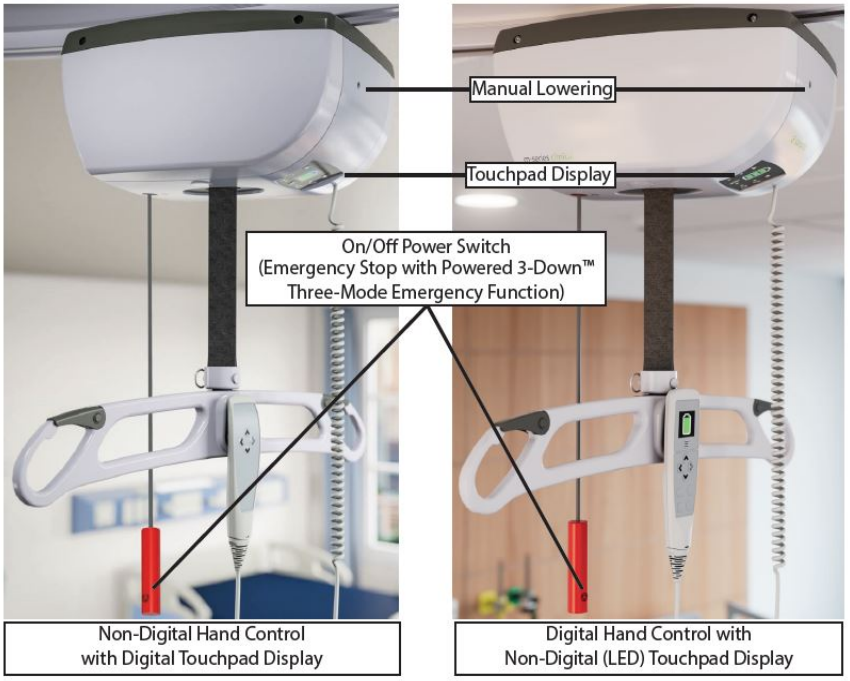
Bottom View of Ceiling Lift with Digital Display on Hand Control

Side View

Operator Interface (Visual and Audible Signals, Control)

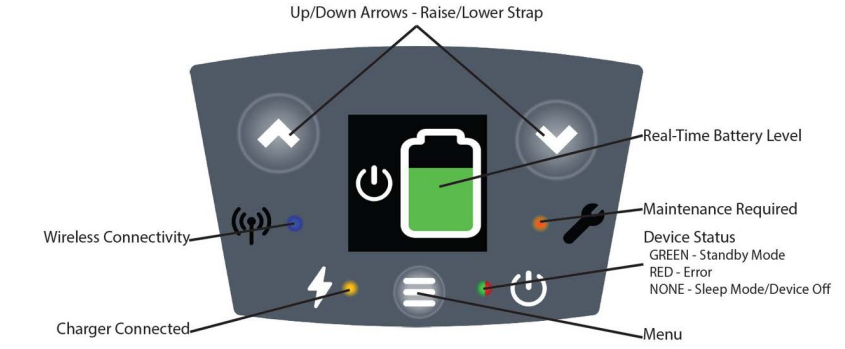
General View

Figure 2

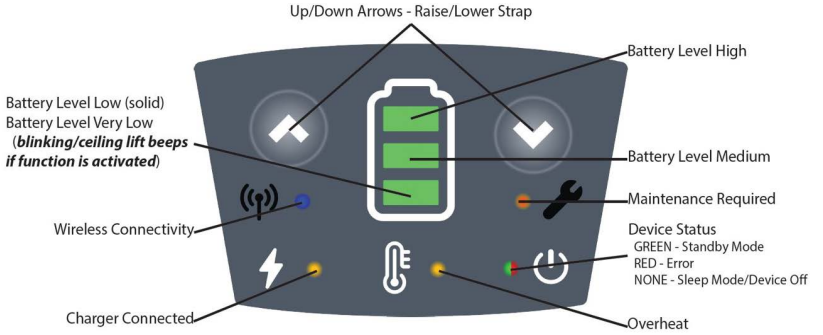


Touchpad Display

Figure 3



Digital Touchpad Display



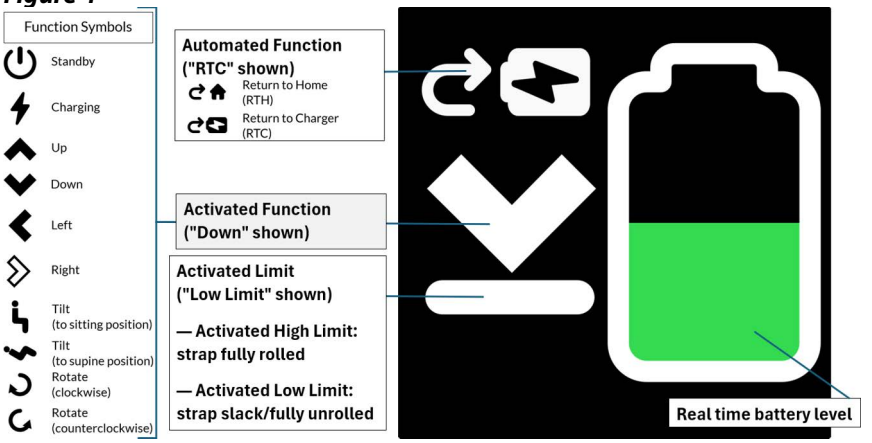
Non-Digital (LED) Touchpad Display

Display (Device or Hand Control)

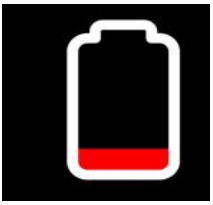
NOTE

The display is black when the device is in sleep mode or turned off.

Figure 4



Device Feedback

Message/Error Image	Message/Error Description
	**Battery Level Very Low** This message appears when the battery has reached a very low level and needs to be recharged soon. Possible Causes - The device has been used extensively without being recharged. - Battery failure. - Charger failure. Corrective Actions - Recharge the battery soon. System Behavior - The device will keep functioning as intended, **beeps will be heard if a function is activated**. - This message will disappear once the battery level rises above a critical value. - An error will appear if the battery level becomes lower than a critical threshold.
 **Orange LED on Touchpad Membrane**	**Maintenance Required** Based on the device's useful life (SMART Cycles), indicates the need for maintenance. Possible Causes - There has been significant device use since the previous maintenance and maintenance is required. Corrective Actions - Have the device checked by a qualified technician. System Behavior - The device will keep functioning as intended. - This message will disappear when the maintenance cycles counts will be resettled. **NOTE:** This does not replace the checks and actions listed in the maintenance schedules, which ensure safe and proper operation.

Device Feedback (continued)

Message/Error Image	Message/Error Description
	**Error Code #001 - Other** This error appears when the system encounters an unknown or unforeseen situation. Possible Causes - The system is experiencing an unknown/unforeseen condition. Corrective Actions - Reset the device by turning the power off for a few seconds, then turning it back on. - Wait a few moments and check the device's status to see if any errors remain. - If the problem persists and the device still does not operate as intended, contact your Authorized Savaria Dealer for servicing. System Behavior - The error is recorded in the Error Log. - The error will disappear once the device has been serviced or when the situation is resolved.
	**Error Code #002 - Battery Level Critical** This error appears when the battery level is critically low. Possible Causes - The device has been used extensively without being recharged. - Battery failure. - Charger failure. Corrective Actions - Recharge the battery immediately. System Behavior - The device can only move downward and will stop functioning completely shortly. - The error is recorded in the Error Log. - The error will disappear once the battery level rises above the critical threshold.

Device Feedback (continued)

Message/Error Image	Message/Error Description
	**Error Code #003 - Overheat** This error appears when the battery has overheated. Possible Causes - The device has been used heavily in a relatively short period of time. - The temperature of the battery has exceeded 45°C. - Battery failure. Corrective Actions - Allow the device to rest before using it again. System Behavior - The device will only lower. - The error is recorded in the Error Log. - The device will resume normal operation after a sufficient cool down period.
	**Error Code #004 - Critical Overheat** This error appears when the battery is critically overheated. Possible Causes - The device has been used heavily in a really short period of time. - The temperature of the battery has exceeded 55°C. - Battery failure. Corrective Actions - Allow the device to rest before using it again. System Behavior - The device will only lower. - The error is recorded in the Error Log. - The device will resume normal operation after a sufficient cool down period.

Device Feedback (continued)

Message/Error Image	Message/Error Description
	**Error Code #005 - Up/Down Overload** This error appears when the Up function is activated while the device is overloaded (i.e., weight exceeds the Safe Working Load). Possible Causes - The patient's weight exceeds the device's Safe Working Load. - The strap or accessory is caught on an obstruction. Corrective Actions - Lower the strap completely. - Ensure that the patient's weight does not exceed the device's Safe Working Load. - Verify that the strap or accessory is free of any obstruction. System Behavior - The error is recorded in the Error Log. - The error will reappear each time the Up function is activated while the Safe Working Load is exceeded.
	**Error Code #006 - Up/Down Drive Error** **Error Code #007 - Up/Down Drive Overcurrent** This error appears when there is a problem with the vertical (up/down) drive. Possible Causes - Circuit board failure. Corrective Actions - Have the device serviced by a qualified technician (who will refer to the Service Info menu for troubleshooting). System Behavior - The error is recorded in the Error Log. - The error will disappear once the device has been serviced.

Device Feedback (continued)

Message/Error Image	Message/Error Description
	**Error Code #008 - Left/Right Overload** This error occurs when a horizontal function (Left or Right) is activated while the device is overloaded (e.g., motorized wheels draw too much power). Possible Causes - Left/Right motor failure. - The motorized wheels are caught on an obstruction or cannot turn freely. Corrective Actions - Try reversing the action (activate Left instead of Right, as applicable). - Ensure that the device can move freely along the track system. - Verify that the strap or accessory is free of any obstruction. System Behavior - The error is recorded in the Error Log. - The error will reappear each time the Left or Right function is activated while excessive power is required.
	**Error Code #009 - Left/Right Drive Error** **Error Code #010 - Left/Right Drive Overcurrent** This error appears when there is a problem with the horizontal (left/right) drive. Possible Causes - Circuit board failure. Corrective Actions - Have the device serviced by a qualified technician (who will refer to the Service Info menu for troubleshooting). System Behavior - The error is recorded in the Error Log. - The error will disappear once the device has been serviced.
	Error Code #011 - N/A **Error Code #012 - N/A** **Error Code #013 - N/A** Does not apply to this device.

Device Feedback (continued)

Message/Error Image	Message/Error Description
	**Error Code #014 - Timeout** This error occurs when the device exceeds the RTC (Return-to-Charge) or RTH (Return-to-Home) timer. Possible Causes - After the RTC or RTH function is activated, the charger or home position is not found. Corrective Actions - Have a qualified technician: * Adjust the default lateral movement direction of the automated function, or * Verify the contact station is on the correct track side and that both it and the PCB contact work properly, or * Verify the magnet kit is on the correct track side and the home sensor works properly, or * Rotate the device 180° in the track system. System Behavior - The strap lowers automatically to the programmed height. - The error is recorded in the Error Log. - The error will disappear when the device enters sleep mode or is used again.
	**Error Code #015 - Over Duty Cycle** This error occurs when the device has exceeded the duty cycle. Possible Causes - The device has been used heavily in a short period of time. Corrective Actions - Allow the device to rest before using it again. System Behavior - The device will only lower. - The error is recorded in the Error Log. - The device will resume normal operation after a sufficient rest period.
	Error Code #016 - N/A Reserved for future use.

Device Feedback (continued)

Message/Error Image	Message/Error Description
	**Error Code #017 - Connection** This error appears when communication with the display is interrupted. Possible Causes - Damaged connection between display and display circuit board or main circuit board. - Display circuit board failure (device or hand control). - Main circuit board failure. Corrective Actions - Have the device serviced by a qualified technician. System Behavior - The error is recorded in the Error Log. - The error will disappear once communication is re-established.
	**Error Code #018 - RTC/RTH Overload** This error occurs when the RTC (Return-to-Charge) or RTH (Return-to-Home) automated function is activated while the device is overloaded (e.g., excessive weight on the strap). **NOTE:** RTC/RTH functions are designed to operate without a patient on board. Possible Causes - A patient is on the device when the function is activated. - The strap or accessory is caught on an obstruction. Corrective Actions - Lower the strap completely. - Ensure no patient is on board. - Verify that the strap or accessory is free of any obstruction. System Behavior - The error is recorded in the Error Log. - The error will reappear each time the RTC or RTH function is activated with a patient on board or if the strap or accessory remains obstructed.
	Error Code #019 - N/A Does not apply to this device.

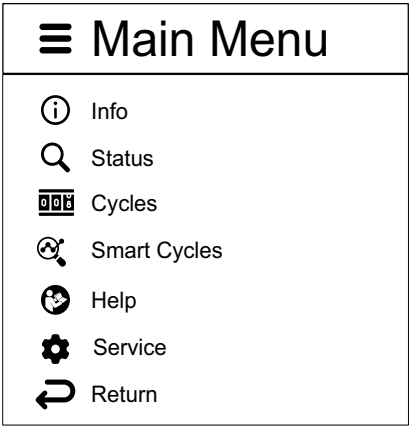
Device Feedback (continued)

Message/Error Image	Message/Error Description
	**Error Code #020 - Charger Overvoltage** This error occurs when the charger's output is higher than expected. Possible Causes - Incorrect charger model used. - Charger failure. - Circuit board failure. Corrective Actions - Have the device serviced by a qualified technician. System Behavior - The error is recorded in the Error Log. - The error will disappear once the charger output is within the expected range.

Accessing the Main Menu

Press the **Menu** button (on the hand control or touchpad display) to open the **Main Menu**.

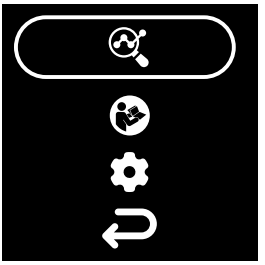
Main Menu Overview



The currently selected menu is highlighted with an oblong frame (refer to the following image).

Use the **Up**/**Down** buttons (located near the **Menu** button) to navigate through the available menus. When the desired menu is highlighted (Smart Cycles shown in the following image), press the **Menu** button to enter it.

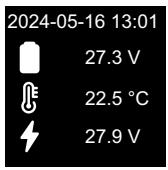
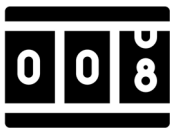
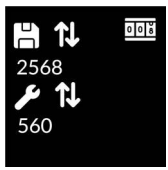
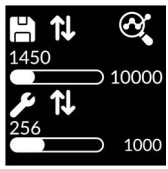
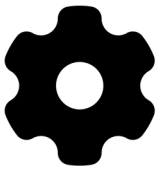
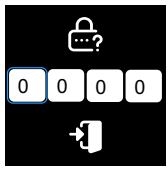
Main Menu Smart Cycles Selected

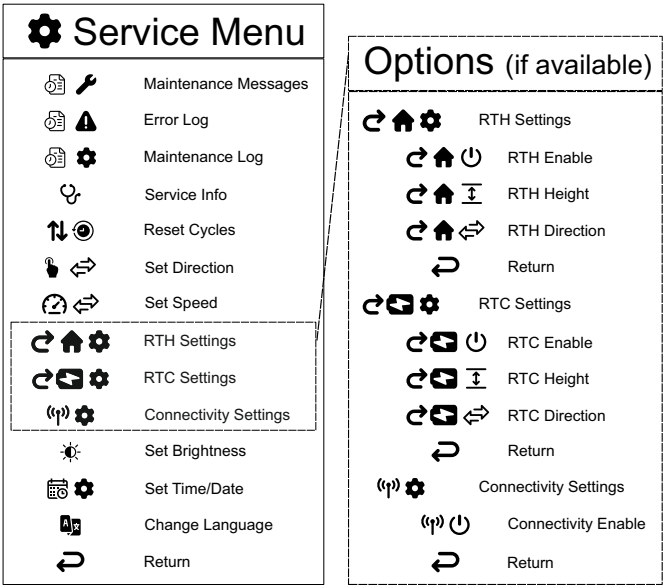


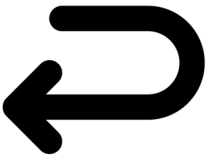
NOTE

If no button is pressed for a period of time, the device will automatically exit the menu.

Menus Details

Menu Symbol	Menu Image	Menu Description
		**Info** - Device Model - Device Serial Number - Device Safe Working Load (Capacity) - Manufacturing Date (in the format YYYY-MM-DD) - Device Options (if any) - Software Display Revision
		**Status** - Date (in the format YYYY-MM-DD) and Time (in the format HH:MM) - Battery Voltage - Battery Temperature - Charging Voltage (only if charging)
		**Cycles** - Total cycles - Number of cycles since last maintenance **NOTE:** Time based count
		**Smart Cycles** - Total SMART cycles with progress bar (%) - Number of SMART cycles since last maintenance with progress bar (%) **NOTE:** Energy based count
		**Help** Scanning the QR Code gives access to the latest device Owner's Manual.
		**Service** **NOTE:** This Menu is protected by a password and is reserved to qualified technicians. All option's settings are managed in this menu.



Symbols in Menu	
	Press the **Menu** button to exit without saving any changes. Hold the **Menu** button to reset both maintenance cycle counters, then exit the menu. **NOTE:** Resetting the maintenance cycle counters will be recorded in the maintenance log.
	Pressing the **Menu** button when this logo is selected allows to return to the previous screen.
	The **Service** menu is protected and a password is required. Use the **Up/Down** button to increase/decrease the selected number. Use the **Menu** button to accept the selected number and move to the next one. Once the correct password has been entered, pressing on the **Menu** button allows to enter this menu.

Hand Control

The hand control unit can be used to operate the ceiling lift. Use the UP and DOWN buttons to raise and lower the strap. For a device equipped with lateral motorization, use the LEFT and RIGHT buttons on the hand control to move the ceiling lift along the track.

Figure 5

There is a magnet on the back of the hand control which allows you to attach it to the carry bar metallic tube or carry bar plate on the carry bar when not in use.

Charger

The device is supplied with a battery charger. Please note the charger may slightly look different from the image shown below.

Figure 6

LED Description

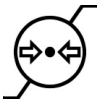
1. Green LED (solid): Charger is powered, device is fully charged or disconnected.
2. Yellow, orange or red LED (depending on the charger version): Device is charging.
3. Green LED (blinking/fading): erroneous plugging sequence (most likely to occur with M920001-X charger):
    a. When this happens, user has to make sure that the charger is powered (plugged to the wall) prior to connect it to the device.

Symbols

The following chart illustrates the symbols that may be used on the nameplate, the packaging and the device.

Symbols on nameplate	
 YYYY-MM-DD	Indicates the medical device manufacturer. This symbol is accompanied by the address of the manufacturer and the date of manufacture. YYYY: Represents the year MM: Represents the month DD: Represents the day
EC REP	Indicates the authorized representative in the European Community. This symbol is accompanied by the address of the authorized representative.
UKRP	Indicates the UK Responsible Person. This symbol is accompanied by the address of the UK Responsible Person.
AUSTRALIAN SPONSOR:	Indicates the Australian Sponsor. This symbol is accompanied by the address of the Australian Sponsor.
REF	Indicates the manufacturer's catalogue number.
SN	Indicates the manufacturer's serial number.
	Indicates a medical device that needs to be protected from moisture.
CE	Indicates the product complies with the European Union Regulation on medical devices.
UK CA	Indicates the product complies with the United Kingdom Medical Devices Regulations.

	Indicates compliance with electrical safety, EMC, EME & telecommunications with Australian and New Zealand requirements.
	Indicates the product was certified by third-party "QPS".
	Indicates the product complies with the directive (RoHS).
	Indicates separate collection for waste of electrical and electronic equipment as per WEEE directive.
	Caution
	Follow instructions for use.
	Consult instructions for use.
	Type BF protection against electrical shocks.
MAX.LOAD:	Refers to the greatest permissible load that can be applied to the product.
IPX$_1$X$_2$	Ingress Protection: X_1: Protection level against ingress of solid particles X_2: Protection level against ingress of liquids

	Unique Device Identifier (UDI) carrier according to GS1.
	Indicates the product is a medical device according to EU Medical Device Regulation 2017/745.
Symbols on box label	
	Indicates the temperature limits to which the medical device can be safely exposed.
	Indicates the range of humidity to which the medical device can be safely exposed.
	Indicates the range of atmospheric pressure to which the medical device can be safely exposed.
Symbols on device	
	Indicates the "Stop" button on the product.
	Indicates heat warning when the yellow light turns on solid.
	Indicates the location of the manual lowering system on the product.
	Indicates the RETURN TO CHARGE /HOME function button.
	Allows to display the **Main Menu** and to enter a selected menu.

4. SPECIFICATIONS

WARNING

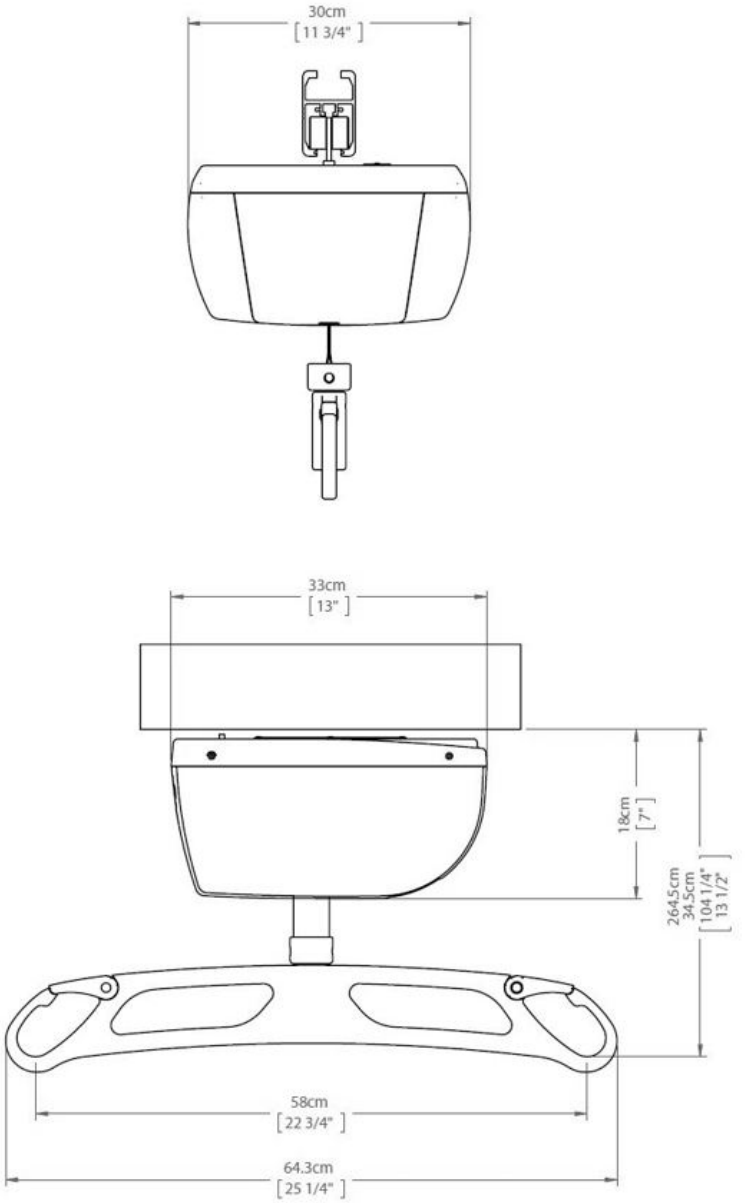
This equipment is not suitable in the presence of flammable anesthetic mixtures with air or oxygen, or with nitrous oxide.

Product	
Product Weight	Manual trolley version: 6.3 kg (13.9 lb) Motorized trolley version: 8.3 kg (18.3 lb)
Product Life	10 years
Safe Working Load (SWL)	272 kg (600 lb), 200 kg (440 lb) or 130 kg (286 lb)
Lifting Speed	5.5 cm/sec (2.2 in/sec) at 0 kg 5 cm/sec (2 in/sec) at 130 kg (286 lb) 4.5 cm/sec (1.8 in/sec) at 200 kg (440 lb) 4.0 cm/sec (1.6 in/sec) at 272 kg (600 lb) Soft start and soft stop controls
Horizontal Speed (motorized trolley version only)	17 cm/sec (6.7 in/sec) 22 cm/sec (8.7 in/sec) - factory setting 30 cm/sec (11.8 in/sec) Soft start and soft stop controls
Ingress Protection Rating	IP20
Noise Level	Maximum 54 dBA
Duty Cycle	Max 10%, 1 min continuous use
Medical Equipment Class	Class 1
Lifting Strap	Wear resistant and antimicrobial
Protection Class	Type BF

Power Source	
Battery	Battery type: Lithium Ion, 25.2V, 2500 mAh (replaceable)
Battery Capacity	Approximately 30 cycles of 61 cm (24 in) at 272 kg (600 lb) Approximately 45 cycles of 61 cm (24 in) at 200 kg (440 lb) Approximately 70 cycles of 61 cm (24 in) at 130 kg (286 lb) **NOTE**: When equipped with the constant charging system in the track, the number of cycles is limited to the duty cycle of the device and the charging time which translates to approximately 300 cycles per day at the maximum load.
Battery Charging	Full capacity in approximately 2 hours
Charger	
Input	100-240 VAC, 50-60Hz
Output	29.4 VDC, max 1A
Environmental Conditions: Operation	
Temperature	5 °C to 40 °C (41 °F to 104 °F)
Battery Charging Temperature	10 °C to 40 °C (50 °F to 104 °F)
Humidity	15 to 93%, non-condensing
Atmospheric Pressure	700 hPA to 1060 hPA
Environmental Conditions: Transport/Storage	
Temperature	-25 °C to 70 °C (-13 °F to 158 °F)
Humidity	0 to 93%, non-condensing
Atmospheric Pressure	500 hPa to 1060 hPA

Controls	
Device Controls	UP and DOWN buttons to raise and lower the strap
Hand Control	UP and DOWN buttons to raise and lower the strap LEFT and RIGHT buttons for lateral movement on motorized trolley models RETURN TO CHARGE button to launch the automated return to charge/home function
Hand Control Operating Force	4 - 4.5N
Ingress Protection Rating (hand control)	IPx6, optional IPx7
On/Off Power Switch (Powered 3-Down™ emergency function)	Allows the device to return to operation and also to safely terminate the operation. Additionally used as an emergency stop feature and UP and DOWN emergency hand control.
NOTE: Devices meet the requirements of the following Certifications and Compliances. Devices are individually approved by independent certifiers prior to shipping.	
Certification	
IEC 60601-1:2005 + corr1:2006 + corr2:2007 + A1:2012 (Medical Electrical Equipment)	
IEC 60601-1-11:2015 (Homecare)	
ISO 10535:2021	
CAN/CSA Z10535.1:15 (Patient Lift)	
Compliance	
CE marking in accordance with Regulation (EU) 2017/745 (Medical Devices)	
UKCA marking in accordance with Regulation (UK) MDR 2002 (Medical Devices)	
2006/42/EC (Machinery Directive)	
2015/863/EU (ROHS - 100% of components)	
2012/19/EU (WEEE)	

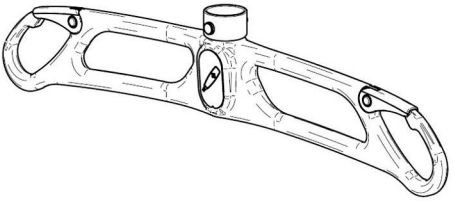
Dimensions

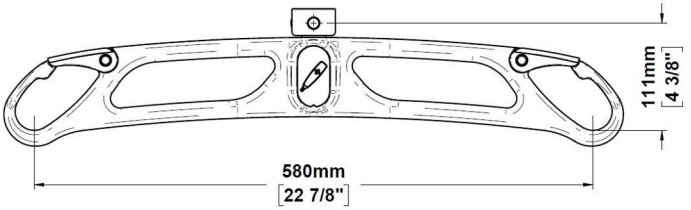

30cm
[11 3/4"]
33cm
[13"]
18cm
[7"]
264.5cm
34.5cm
[104 1/4"
13 1/2"]
58cm
[22 3/4"]
64.3cm
[25 1/4"]

Compatibility

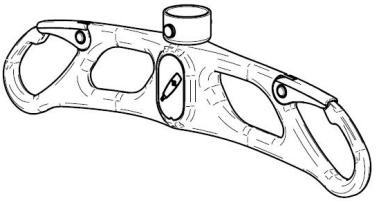
Strap Connection

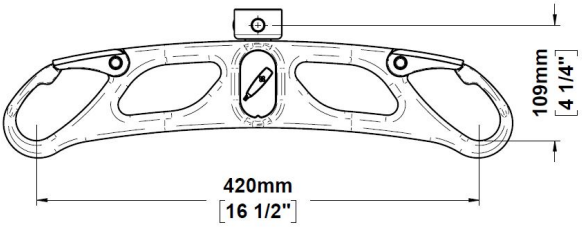
- Regular carry bar, M920660-272



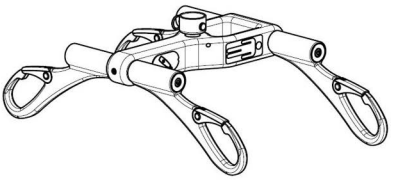


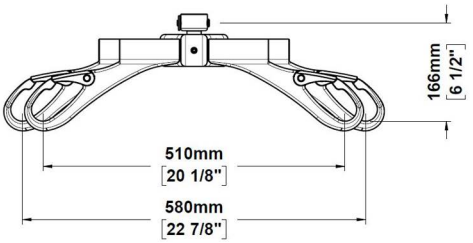
- Pediatric carry bar, M921340-272

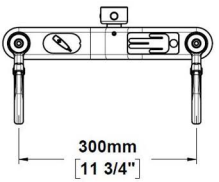




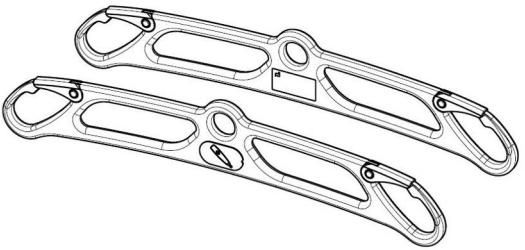
- 4-point carry bar, M921185-272

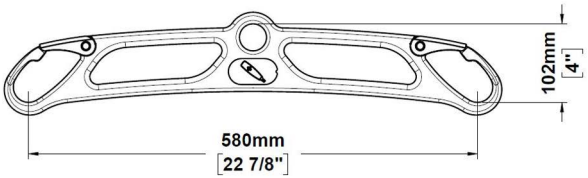






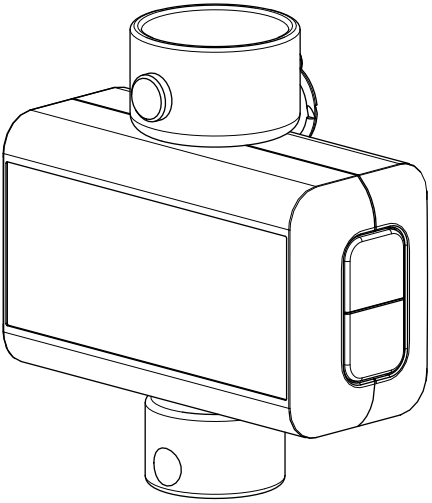
- Add-on carry bar kit, M921335-272



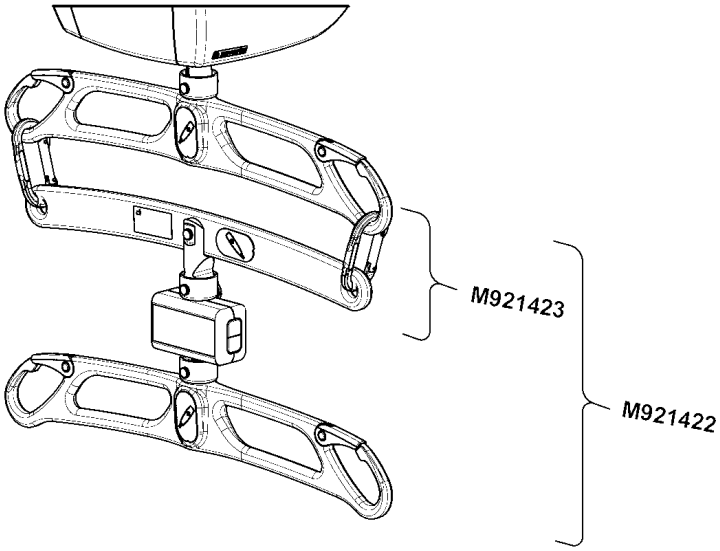


- Strap extension, M920370

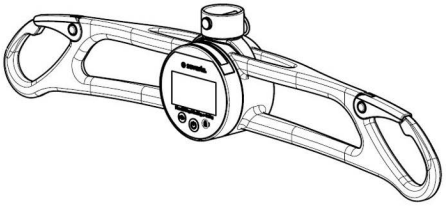
- Hanging weighing scale, M921135

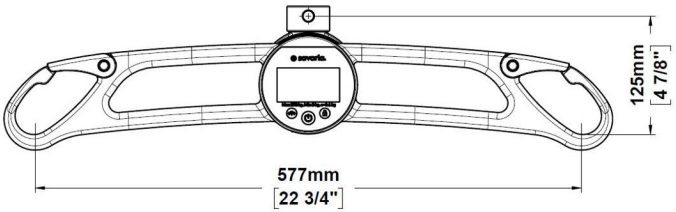


- Portable scale kit with carry bar, M921422
- Portable scale frame assy, M921423



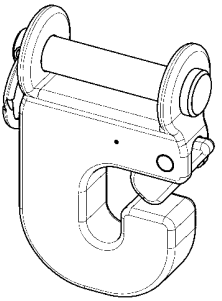
- Scale carry bar C3, M921760
- Scale carry bar, M921780

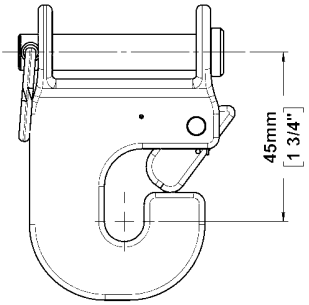




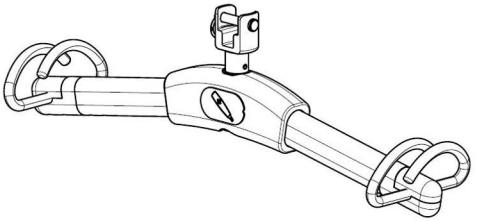
QRS Hook Connection

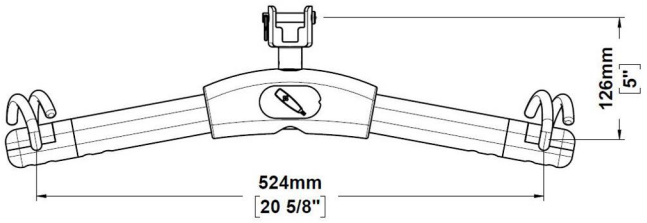
- QRS hook, M921664-272



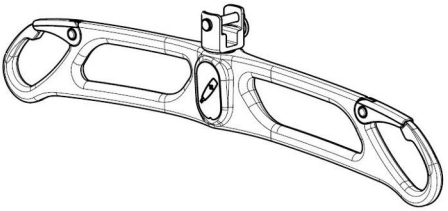


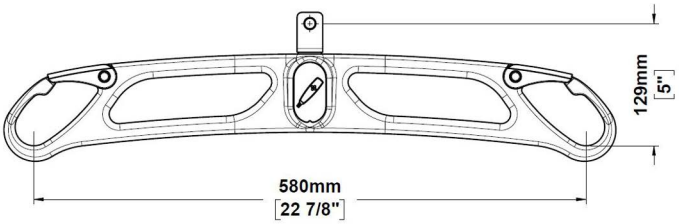
- 4-point bullhorn style carry bar, M921655-272



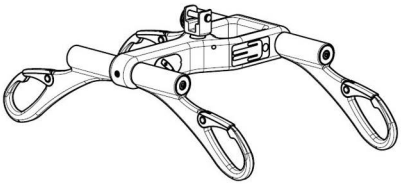


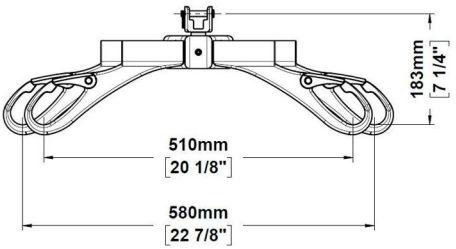
- Regular carry bar in QRS version, M921665-272

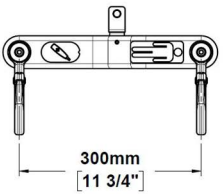




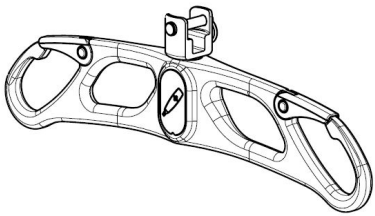
- 4-point carry bar in QRS version, M921670-272

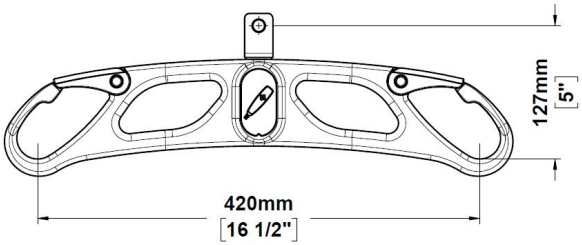




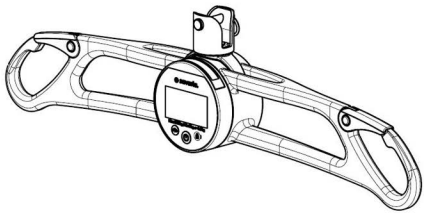


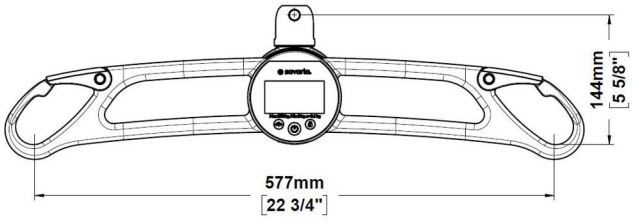
- Pediatric carry bar in QRS version, M921675-272





- Scale carry bar C3 in QRS version, M921765
- Scale carry bar in QRS version, M921785





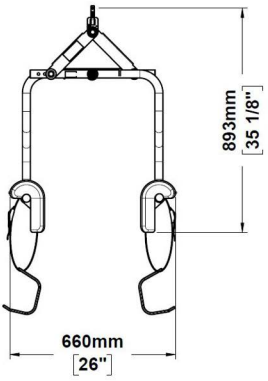
- Independent lifter, 3416xx series

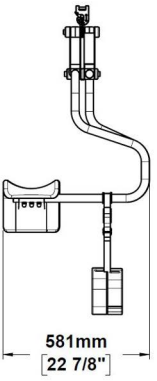
NOTE

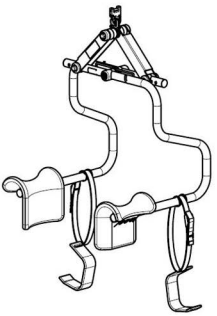
Attaches with Quick Release System (QRS) hook (item no. M921664-272) ordered separately.

⚠ WARNING

The Independent lifter carry bar has a SWL of 200 kg (440 lb). Ensure the carry bar is used with a lifter having a capacity of maximum 200 kg (440 lb) to prevent exceeding the capacity of the bar that may cause failure of the bar leading to a patient fall and cause injuries.







Slings

NOTE

To ensure highest level of safety and compatibility, use of slings offered by Savaria Patient Care is highly recommended. Select models with appropriate Safe Working Load and follow all labels and instructions for use regarding proper sizing, application, care, and replacement.

Various types of compatible slings are shown on the next page.

Universal without head support 	Universal with adjustable head support 
Hygienic 	Walking 
Disposable 	Repositioning 

5. USING THE DEVICE

⚠ WARNING

Read the *Safety Instructions* in this manual BEFORE using the device.

The device must NEVER be operated by the person being transferred. In the unlikely case of failure, the patient could get stuck in the unit.

Before Transfer

- Ensure the ceiling lift battery is charged.
- Ensure the track end stops are securely in place as shown below.

Figure 7

- Inform the person to be transferred what you are about to do.
- Always evaluate the person's general condition before transfer.
- Ensure you have a sling that is the correct size for the person. Use only slings that are designed for use with the ceiling lift.

Transferring the Person

1. Place the person to be transferred into the sling as described on the following pages or per the documentation provided with the sling.
2. Ensure the ceiling lift is not in Emergency Stop mode by checking the red Powered 3-Down. If the yellow center core is extending from the top, the emergency stop has been activated and power is cut off. To return to normal function, press the yellow core back into the Powered 3-Down until it clicks, signaling that power has been restored.

Figure 8

NOTE

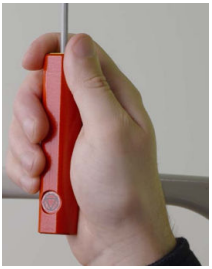
To turn off power to the ceiling lift, pull down the Powered 3-Down. Powered 3-Down will show a yellow center core. Note that, in case of an emergency, the Powered 3-Down can also serve as an Emergency Stop. Pulling the Powered 3-Down will stop the movement.

⚠ WARNING

Ensure all users can reach the red Powered 3-Down before using the ceiling lift. This warning applies especially when the ceiling lift is installed in a track above 2.75 m (9 ft) while the operator height is under 152 cm (5 ft).

The Powered 3-Down cord can be adjusted to length; contact your Savaria dealer for more information.

Figure 9



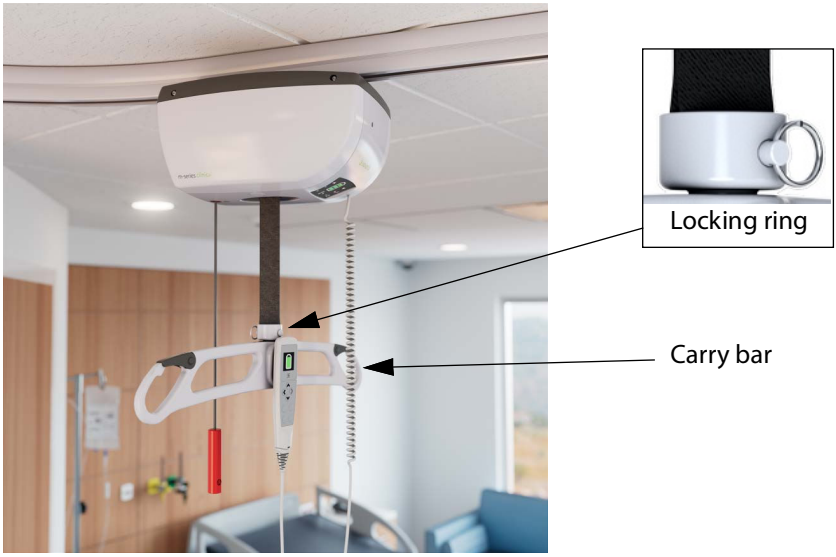
3 Lower the carry bar by pressing the DOWN button on the hand control or touchpad display while maintaining tension on the carry bar with your other hand. Note that there must be tension on the ceiling lift strap for the device to function.

⚠ CAUTION

We recommend that you grab the carry bar to avoid unexpected movement or impact with the patient that may cause injuries.

4 Verify that the carry bar is well attached to the strap by the presence of the locking ring.

Figure 10



NOTE

A QRS hook could also be used. It allows a QRS compatible accessory to be quickly attached to and removed from the lift.

Verify that the QRS hook is well attached to the strap by the presence of the locking ring.

In order to attach the QRS compatible accessory to the QRS hook hold down the red latch and align the QRS hook slot with the QRS compatible accessory's clevis pin.

Hook the QRS hook onto the QRS compatible accessory's clevis pin.

Make sure the latch is closed safely once the clevis pin is sitting in the QRS hook. Verify that the QRS compatible accessory is well attached to the QRS hook by the presence of the locking ring on the QRS compatible accessory's clevis pin.

⚠ WARNING

If the latch does not close safely, Do NOT USE the QRS hook and contact your Authorized Savaria Dealer.

5 Move the ceiling lift over the person to be transferred by pressing the LEFT or RIGHT lateral arrow buttons on the hand control. If the ceiling lift doesn't have a motorized trolley, drag the ceiling lift along the track using the carry bar.

⚠ CAUTION

Do NOT move the ceiling lift by pulling the hand control. The hand control may spring return and cause injuries.

Do NOT drag ceiling lift with motorized trolley. May cause damage to wheels.

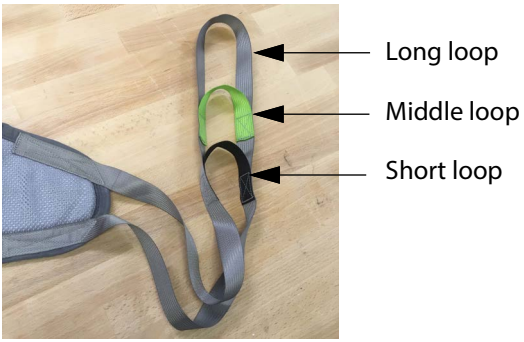
6 Press the DOWN button on the hand control or touchpad display to lower the carry bar above the head (4-point carry bar) or below the chin (2-point carry bar). You need to unfold the sling straps before attaching them to the carry bar hooks. Note that there are different loops on the sling straps (as shown in the following figures) to allow transfer from the sitting or reclined position.

NOTE

Sling models differ and exact features may vary from the examples shown here, but the following basic concepts still apply.

- To transfer to/from the fully seated position (as shown in the following figures), short loops are typically used at the back and long loops at the front.
- To transfer to/from the fully reclined position (as shown in the following figures), long loops are typically used at the back and short loops at the front.
- Note that the middle loops are typically used for intermediate positions.

Figure 11



Fully seated position

Fully reclined position

7 Some slings are equipped with an adjustable head support feature consisting of two adjustable straps. Tighten the straps as needed for full head support and release them for less support as shown below.

Figure 12

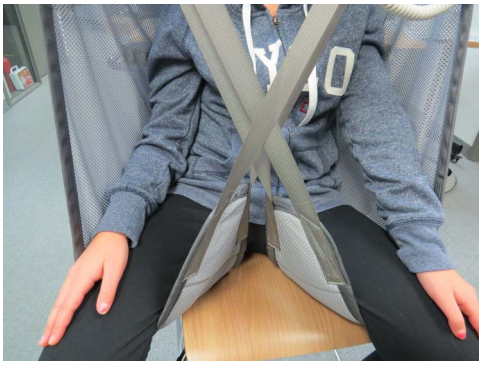
Straps tightened (full support)

Straps released

8 The photos below show the two methods that can be used for the leg straps of a sling (regular or crossed).

Figure 13

Leg straps
regular position



Leg straps
crossed position

9 If using a hygienic sling, install the sling on the chest near the underarm to maximize comfort and stability during transfer (see the photo below). The second photo below illustrates the position for transfer using a hygienic sling.

Figure 14

Installing a hygienic sling

Position for transfer using hygienic sling

10 If using a walking sling, install the sling on the chest near the underarm to maximize comfort and stability during transfer (see the photos below). The bottom photo below illustrates the position for transfer using a walking sling.

Figure 15

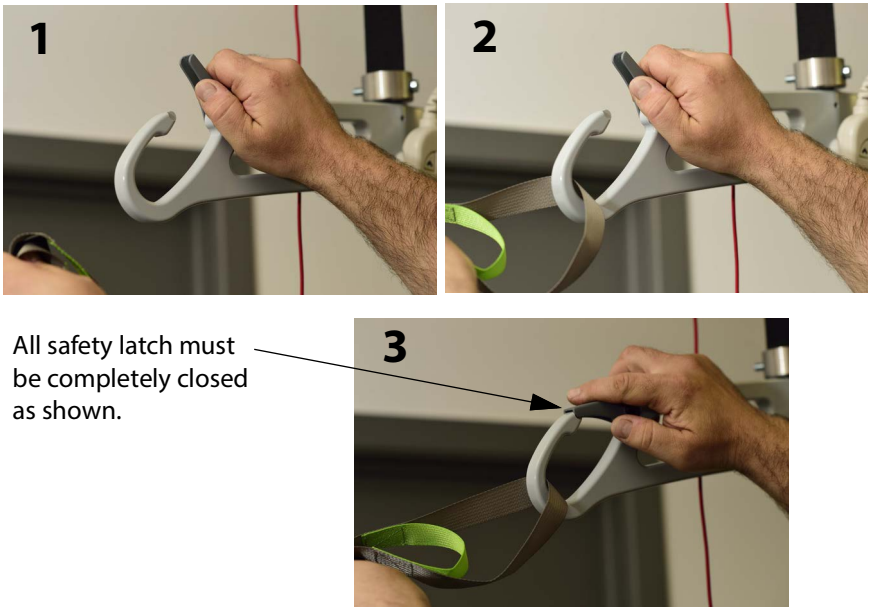
Installing a walking sling

Position for transfer using walking sling

11 Note that the safety latches are spring-loaded and will close automatically.

12 Lift up on the safety latch with one hand and slide the sling loop onto the carry bar hook with your other hand. The safety latch will spring closed, trapping the sling loop inside the carry bar hook. **The safety latch must be completely closed as shown below**.

Figure 16



DANGER

Do NOT attempt a transfer if the safety latches are not completely closed. The sling loops MUST be trapped inside the carry bar hooks to prevent the person from falling and sustaining possible injuries.

13 Before lifting the person, ensure the sling loops are securely locked in the carry bar hooks and the person is comfortable. Make sure the sling is not caught on any obstruction.

⚠ WARNING

NEVER leave a person unattended during a transfer to prevent the person from falling and sustaining possible injuries.

14 To lift the person, press the UP button on the hand control or the touchpad display. Note, if the sling includes handles, they can be used to help with guiding the person.

Figure 17

Use handles on sling to help with guiding

15 Before moving the person, ensure the person/the sling clears the arms of the wheelchair, or the top of the bed. Guide their legs past any obstacles. Note that there is no need to raise the person far above any obstacles, just enough to clear them.

16 When the person is above the desired point of transfer, press the DOWN button on the hand control or touchpad display to lower the person.

17 Once the person is properly seated and there is no more tension in the sling straps, disengage the sling from the carry bar hooks. To do this, lift up on the safety latch containing the sling loop (as shown below) and slide the strap off.

Figure 18

WARNING

Before moving the ceiling lift away from the person ensure that all sling straps are no longer trapped in the carry bar hooks. This will prevent the patient from rolling off the sling and sustaining possible injuries.

18 Move the ceiling lift away from the person. Use the hand control or touchpad display to shorten the strap. You can now remove the sling from around the person who was transferred.

19 Move the ceiling lift under the charging station to ensure the battery is charged for the next use. If the ceiling lift and track are equipped with the constant charging system (CCR), there is no need to place the ceiling lift in a specific place as the device will recharge anywhere along the track.

NOTE

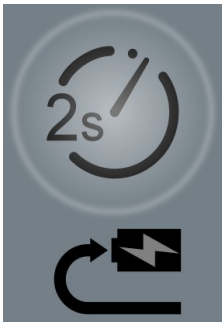
The ceiling lift will not charge if the Powered 3-Down emergency function is pulled.

Return to Charge / Return to Home

INTENDED USE

The return-to-charger “RTC” / return-to-home “RTH” functions are an exclusive on-demand factory-made adjustment allowing the operator of the ceiling lift to intentionally activate an automatic return of the ceiling lift (with no patient on board) to the charging station / to the end of the track (when use in conjunction with constant charge CCR). Like the fixed ceiling lift, the RTC/RTH are designed to be used by caregivers and health professionals to lift and transfer patients in a home care or hospital environment.

SYMBOL



USE

Before activating the RTC/RTH

- Make sure there is no patient on board.
- Make sure there is no harness/sling attached to the carry bar.
- Make sure there are no objects that could conflict with the ceiling lift while traveling.
- Always ensure that a carry bar is attached to the lift before activating RTC/RTH function. The added weight of the carry bar is required to ensure function’s efficiency.

WARNING

The RTC/RTH function can be stopped at any time by pressing on any other button on the hand control, or by activating the emergency stop function.

WARNING

Although the RTC/RTH includes several security systems, the presence of the operator is recommended throughout the RTC/RTH cycle in order to be able to stop the RTC/RTH in the unlikely event of contact or snagging with an object or person.

WARNING

The RTC/RTH includes a weight sensing system, preventing the RTC/RTH from being started with a patient on board. However, the sensitivity of the system is approximately 25 kg (55 lb). Thus, with a child on board for example, the RTC/RTH could be activated.

Activation of the RTC/RTH

1 Make sure the ceiling lift is turned ON by closing the Powered 3-Down.

2 Press and hold the RTC/RTH button for 2 seconds.

You will hear a 2-second beep. After 2 seconds, the beep will stop, and the function will continue its RTC/RTH cycle back to the charger/end of track as follows:

- **a** The carry bar will go up to its maximum height.
- **b** The ceiling lift will move to the charging station/end of track.
- **c** The carry bar will go back to the height set during installation, allowing access to the hand control. (This height can be adjusted by performing a ceiling lift adjustment. Contact your local authorized Savaria dealer to adjust it.)

NOTE

The RTC function will shut itself down after a few minutes if the charging station is turned off and the ceiling lift does not find it.

The RTH function will shut itself down after a few minutes if the ceiling lift does not find the "home" station at the end of the track.

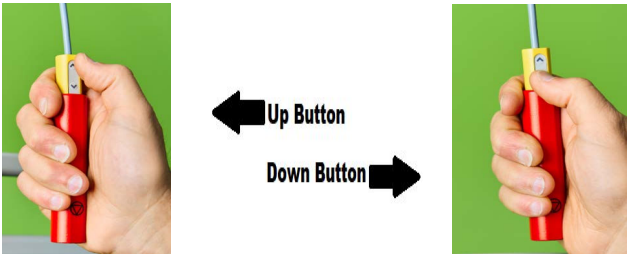
Emergency Stop with Powered 3-Down™ Three-Mode Emergency Function

CAUTION

Use Powered 3-Down for emergency only.

A ceiling lift equipped with Powered 3-Down system can override the hand control and touchpad display in case of a malfunction.

1. Pull the Powered 3-Down and then release it to turn off the ceiling lift.
2. Move the person in the ceiling lift over a wheelchair or bed.
3. Pull the external red cover of the Powered 3-Down downward until the lift alarm rings. The Powered 3-Down must be continuously pulled with tension maintained to operate the lift's raising and lowering functions in emergency mode. This will activate the lift only for using buttons on the Powered 3-Down while all other functions are disabled. An alarm will sound to indicate the lift is being operated on a nonstandard (emergency) mode.



4. Once the alarm sounds, use the Up/Down buttons on the internal yellow core of the Powered 3-Down while maintaining tension on the external red cover.
5. If Up/Down buttons unresponsive, then use the manual lowering method.

WARNING

Using the Powered 3-Down will bypass safety device features of the ceiling lift, including the limit switch function and the slack detector. Be careful to not over raise the person or to impose the accessory's load on the person.

Manual Lowering

⚠ CAUTION

Use the manual lowering feature for emergency only.

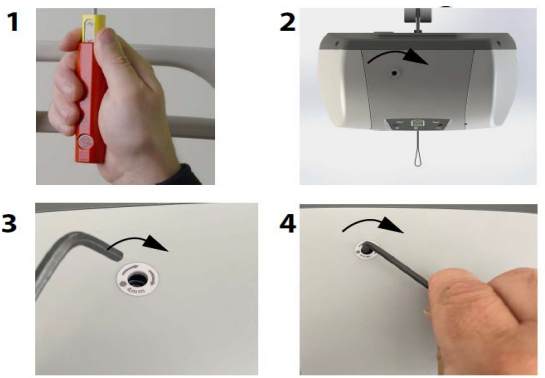
The ceiling lift is equipped with manual lowering device that allows you to lower the strap if the electrical system is not functioning. The manual lowering device is activated using a standard 4mm Allen key (supplied with the device).

1. Activate the emergency stop function using the red Powered 3-Down.
2. Move the person in the ceiling lift over the wheelchair or bed.
3. Using the Allen key, access the manual lowering mechanism.
4. Turn as indicated on the label to lower the person.

NOTE

Each turn of the key will only lower the person very slightly and, consequently, several turns will be necessary. If possible, in order to reduce the required lowering time, have the equipment that will accommodate the person at its highest position.

5. Once the person is lowered safely into the wheelchair or bed, remove the Allen key from the access opening.



6. Call your Authorized Savaria Dealer to service the device.

Emergency Brake

The emergency safety brake is an additional safety feature that automatically prevents the person from falling in the event of a transmission or motor failure.

⚠ WARNING

If the emergency brake has activated, do NOT attempt to unlock the brake or press the UP button as this may disengage the brake and cause the person in the ceiling lift to fall. Do NOT attempt to use the manual lowering device either as injuries could occur.

Switch off the device, pull down the Powered 3-Down, and make sure there is no more use of the ceiling lift. Contact your Authorized Savaria Dealer to carry out an inspection.

Charging the Battery

NOTE

If the battery level is very low and you press a button, beeps will be heard.

The display will show a red battery level and, if device is equipped with a hand control with a display, the battery LED indicators, on the touchpad display, will be blinking.

Charge the battery as soon as possible.

⚠ WARNING

Use ONLY the charger #M920001 provided with the ceiling lift. Using any other charger may result in permanent damage to the batteries or cause fire, explosion, or injuries.

Do NOT operate the battery charger with a damaged cord or damaged charger enclosure as this may cause fire or electrical shock.

1. Ensure the charger is plugged into the AC wall outlet. The green indicator on the charger will come on solid.
2. Move the ceiling lift under the charging station.
3. The charging indicator on the ceiling lift is solid yellow when the battery is charging.
4. If the battery is low, it will take approximately 2 hours for a full charge. Charge the battery fully before using the ceiling lift again.

Move the ceiling lift under the charging station when it is not in use to ensure the device will be fully charged for the next use. The device can be charged for an extended period of time without damaging either the charger or the battery.

For a ceiling lift and track equipped with the constant charging system (CCR), there is no need to place the device in a specific place as it will recharge anywhere along the track.

In the event the device is not used or is stored for a prolonged period of time, it is strongly recommended to have the device charged at least once a month and device turned off to maximize its life span.

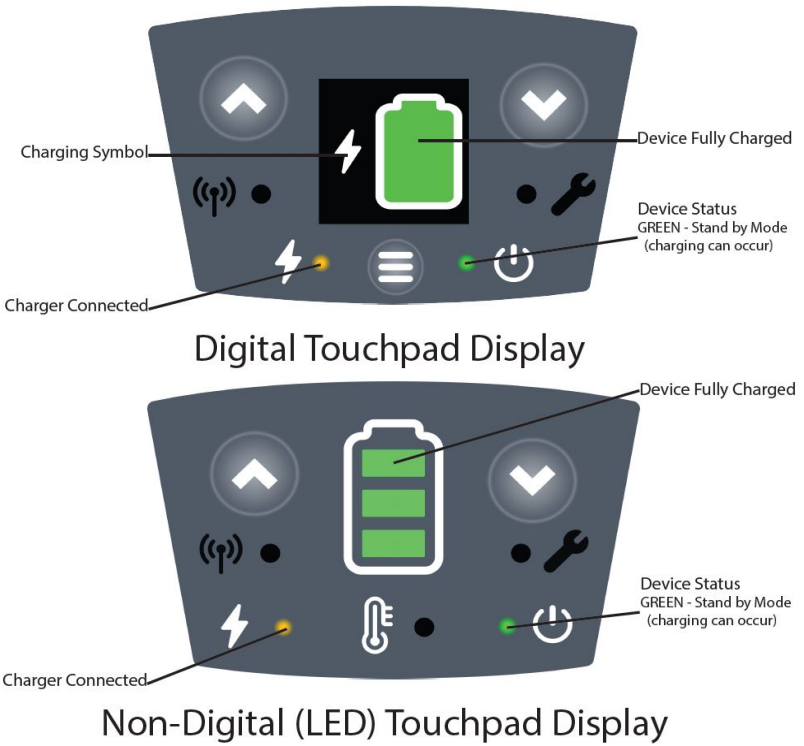
NOTE

The ceiling lift must be in the "ON" position to charge the battery.
If the Powered 3-Down is pulled, the ceiling lift will not charge.

When the battery is charging, the lightning bolt symbol on the touchpad display will be solid amber.

When the battery is fully charged, the lightning bolt symbol will turn off and the green full battery symbol will come on.

Figure 19



6. MAINTENANCE

The device is subject to wear and tear from use. You must perform the checks and actions in the following tables to ensure safety and proper operation.

⚠ WARNING

Contact your Authorized Savaria Dealer to perform the Dealer Checks/Actions. Safety-related maintenance and service must be performed by an Authorized Savaria Dealer as these shall be carried out by demonstrably competent and specifically trained people, familiar with the design, use and care of the device.

This maintenance schedules provides the minimum recommendations. In some cases, more frequent checks may be required per local regulations and codes.

To ensure safety of the person being transferred and the operator, do NOT use the equipment if a fault is found or if these regular checks have not been performed.

Environmental Notice

For disposal of any components associated with the product, have them separated and recycled according to the WEEE directive. Contact appropriate local authorities for more information.

Operator Maintenance Schedule

Perform the following checks/actions as indicated. If any of the checks fail, contact your Authorized Savaria Dealer for service or replacement of parts.

Operator Check/Action	Frequency
Charge the battery	Before every use
Check the device strap for wear	Before every use
Check the sling and the sling straps for wear	Before every use
Check that there are no flaws or signs of fraying in the stitched areas of the sling	Before every use
Check the carry bar for any damage. Carry bar pivot must be free of deposit and must move freely (rotation & up/down movement).	Before every use
Check the operation of the hand control buttons	Before every use
Check the track and hardware for any damage	Before every use
Check the track end stops are securely in place	Before every use
Check the ceiling lift moves freely along the track	Before every use
Clean the outside of the device	As required
Check the operation of the device control buttons	Every 4 months
Clean the track	Every 4 months
Check the emergency stop function (by activating the red Powered 3-Down emergency stop). Confirm the device is powered off and that both the hand control and touchpad display are inoperative.	Every 4 months
Check that the Powered 3-Down functions are functioning properly by continuously pulling the external red cover of the 3-Down and activating the Up and Down buttons.	Every 4 months
Check the ceiling lift casing for any damage	Every year
Check the track, hardware, and trolley wheels for damage	Every year

Dealer Maintenance Schedule

Perform the checks/actions listed in the Operator Maintenance Schedule as well as those listed in the table below.

Dealer Check/Action	Frequency
Check the ceiling lift casing for any damage	Every year
Check the ceiling lift transmission	Every year
Check the ceiling lift connecting joints	Every year
Check that the emergency brake is turning freely	Every year
Check that all emergency devices are working properly	Every year
Perform a load test on the ceiling lift and track system with the Safe Working Load	Every year
Replace the ceiling lift strap	Every 2 years
Lubricate the roller and the spool shaft	Every 2 years
Lubricate the transmission spool gear	Every 2 years

⚠ WARNING

To avoid potential injury, use ONLY Savaria parts when replacing parts.

To prevent the person from falling (or objects from falling) that may cause injuries to the person, the operator or other persons, always reinstall the track end stops if they were removed for servicing. Note that the recommended tightening torque is 20 N-m (15 lb-ft).

Figure 20

Inspection and Cleaning

To clean the device, wipe down the casing with a damp cloth using warm water and a cleaner. Follow with a clean damp cloth to remove excess cleaner. Finish with a dry cloth to remove excess moisture. You can also use wipes that have a 70% v/v solution of isopropyl alcohol.

Rub the device vigorously with the cloth or wipe to ensure thorough cleaning of the entire surface.

⚠ WARNING

Do not use phenol, chlorine, acid, ammonium, sodium hypochlorite, or any other type of solvent or surfactants that may cause deterioration of the plastic components or the device, potentially leading to failure of load-bearing components.

⚠ WARNING

Do not splash, drench or immerse the unit in water as the unit could malfunction causing injuries to occur.

To ensure a better rolling surface for the trolley wheels, clean the inside of the track every 4 months. To do this, insert a damp cloth in the opening and slide it from one end of the track to the other.

Cleaning the Sling

Clean the sling according to the symbols on the label (see below).

Wash at a temperature up to the one indicated on the label, do not iron, do not use bleach and do not tumble dry; air drying is recommended.

	Wash normally at a temperature up to the one indicated on the label. Washing at a higher temperature may affect and reduce the mechanical resistance of the sling. Cold or lukewarm water washing is recommended.
	Do not iron as it may affect and reduce the mechanical resistance of the sling.
	Do not use a bleach agent. Bleach may affect and reduce the mechanical resistance of the sling.
	Do not tumble dry the sling. Tumble drying may cause excessive twist, tear and wear of the sling that may affect and reduce the mechanical resistance of the sling. Air drying is recommended.

7. TROUBLESHOOTING

⚠ WARNING

Do NOT open the device casing. Only an Authorized Savaria Dealer is qualified to open it. Modifications made to the device by someone other than a qualified technician may cause serious injury.

Problem	Action
The unit starts and stops repeatedly.	If the load is greater that the Safe Working Load of the device, it will not function due to an overload on the motor.
The ceiling lift emits a beeping sound during use. The device may stop lifting the person but can still lower the person.	The battery is low and needs to be charged.
Yellow lightning charging indicator on the ceiling lift does not light up when the charger is connected to the device.	Ensure the charger is plugged into a standard electrical outlet and that the outlet has power. The green LED on the charger will be turned on. Note that the battery may have sufficient power and does not need recharging. The charger automatically detects if charging is required or not.
The device does not move when you press a button on the touchpad display or on the hand control.	Make sure the Powered 3-Down emergency stop on the lift is turned On. Check that the battery is charged. Reset the device by pulling the external red cover of the Powered 3-Down for a few seconds, and then closing the red cover. Wait a few moments and then check the status of the device (battery LED indicator). If the problem persists and the ceiling lift still does not operate, contact your Authorized Savaria Dealer for service.

8. ELECTROMAGNETIC COMPATIBILITY

Electromagnetic Compliance

The device has been tested for compliance with current regulatory standards in regards to EMI (electromagnetic interference).

⚠ WARNING

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Use of accessories and cables other than those specified or provided by the manufacturer of this equipment, could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment, and result in improper operation.

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Guidance and Manufacturer's Declaration - Electromagnetic Emissions - For All Equipment and Systems		
The device is intended for use in the electromagnetic environment specified below.		
Emissions test	**Compliance**	**Electromagnetic environment - guidance**
RF emissions CISPR 11	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference with nearby equipment.
RF emissions CISPR 11	Class B	The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network supplying buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Electromagnetic Immunity

Guidance and Manufacturer's Declaration - Electromagnetic Immunity - For All Equipment and Systems			
The device is intended for use in the electromagnetic environment specified below.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	+/-8 kV contact +/-15 kV air	+/-8 kV contact +/-15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Surge IEC 61000-4-5	+/-1 kV differential mode +/-2 kV for common mode	+/-1 kV differential mode +/-2 kV for common mode	Mains power quality should be that of a typical commercial or hospital environment.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: *U*T is the AC mains voltage prior to application of the test level.			

Electromagnetic Immunity (continued)

Guidance and Manufacturer's Declaration - Electromagnetic Immunity - For All Equipment and Systems			
The device is intended for use in the electromagnetic environment specified below.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.5 GHz, 1Khz, 80% AM Mod.	10 V/m 80 MHz to 2.5 GHz, 1Khz, 80% AM Mod.	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance: $d = \left[\frac{3.5}{3}\right]\sqrt{P}$ $d = \left[\frac{3.5}{10}\right]\sqrt{P}$ 80 MHz to 800 MHz $d = \left[\frac{7}{10}\right]\sqrt{P}$ 800 MHz to 2.5 GHz where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and *d* is the recommended separation distance in metres. Field strengths from fixed RF transmitters, as determined by en electromagnetic site survey,[a] should be less than the compliance level in each frequency range.[b] Interference may occur in the vicinity of equipment marked with the following symbol: 

Electromagnetic Immunity (continued)

NOTE 1: At 80 MHz and 800 MHz, the higher frequency applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

(a) Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location where the lift is used exceeds the applicable RF compliance level above, the lift should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the lift.

(b) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended Separation Distance Between -
Portable and Mobile RF Communications Equipment and the device or Equipment and Systems that are not Life-Supporting

Recommended separation distances between portable and mobile RF communications equipment and the device.

The device is intended for use in electromagnetic environments in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communication equipment (transmitters) and the device as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	**Separation distances according to frequency of transmitter m**		
	150 kHz to 80 MHz $d = \left[\frac{3.5}{3}\right]\sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3.5}{10}\right]\sqrt{P}$	800 MHz to 2.5 GHz $d = \left[\frac{7}{10}\right]\sqrt{P}$
0.01	0.12	0.12	0.24
0.1	0.37	0.37	0.74
1	1.17	1.17	2.34
10	3.69	3.69	7.38
100	11.67	11.67	23.34

For transmitters rated at a maximum output power not listed above, the recommended separation distance *d* in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

9. WIRELESS CONNECTIVITY SPECIFICATIONS

Contains:

USA

FCC ID: 2AC7Z-ESPC3MINI1

Canada

IC ID: 21098-ESPC3MINI1

China

CMIIT ID: 2021DP3313

Transmitter/Receiver Characteristics		
	Wi-Fi	Bluetooth Low Energy (LE)
Frequency	2412 - 2484 MHz	2402 - 2480 MHz
Bandwidth	20/40 MHz	2 MHz
Modulation	DSSS and OFDM with BPSK, QPSK, 16-QAM, and 64-QAM	GFSK
Effective Radiated Power (ERP)	20 dBm (100 mW)	10 dBm (10 mW)

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Authorized Savaria Dealer

Savaria
M-Series Clinical Fixed Ceiling Lift
Owner's Manual

Part No. 001452-EN
Rev. 001 17-m09-2025

Savaria Concord Lifts, Inc.
2 Walker Drive
Brampton, Ontario, L6T 5E1, Canada
www.savaria.com

For service or questions about this product, please contact:

AUTHORIZED SELLER/INSTALLER:_____

PHONE NUMBER:_____