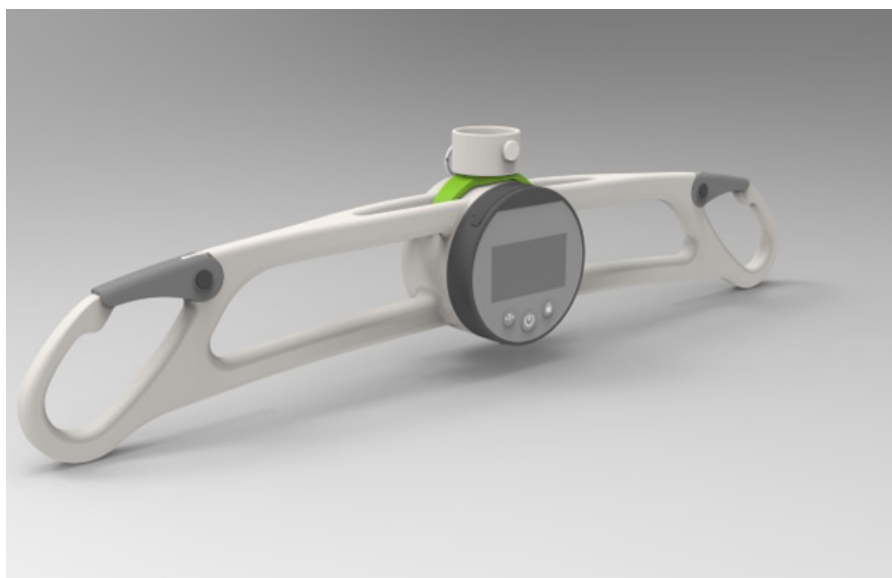


Scale Carry Bar

OWNER'S MANUAL



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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 Scale Carry Bar. 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.

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1. OVERVIEW

Intended Use

The Scale Carry Bar is designed for use by caregivers and health care professionals to determine the mass of a person when lifting and transferring that 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.**



WARNING

The non-Class III versions of this scale carry bar (models M921780 and M921785) are not to be used for dosing applications.

Do not use the non-Class III versions of this scale carry bar (models M921780 and M921785) to calculate, administer, or adjust medication dosages or make any medical treatment decisions.

Use only Class III certified version of this scale carry bar (models M921760 and M921765) for prescription or dosing purposes in accordance with NIST Handbook 44 and applicable regulatory requirements.

NOTE

Not intended for use with patients weighing below 2 kg (4.41 lb).

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.

NOTE

The scale's calibration, required for Class III scale, and the accuracy must be checked at regular intervals. Setting these check intervals are the responsibility of the end user and will vary upon state regulations.



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 consumables such as battery is dependent upon the proper care and usage 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. Ensure that all operators are properly trained in the use of the device as described in this manual.

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 and determine the mass of a person. To ensure safety of the person being transferred and the operator, follow all Safety Instructions provided below.

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

To Ensure Safety

- The Scale Carry Bar has a safe working load of 272 kg (600 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.
- Ensure the Scale Carry Bar is used only with a Savaria lift. If the system is not from Savaria, ensure the system is properly assessed by a competent authority for fit, function, and safety.
- Operators must be fully trained before using the Scale Carry Bar.
- Ensure the sling is intended for use with the 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 the ceiling lift 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 Safety



WARNING

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

- Do NOT expose the battery 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.
- The battery can't be removed. Please contact your Authorized Savaria Dealer for battery replacement if the battery no longer holds a charge.
- 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 Polymer batteries that are designed for use 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 batteries in direct sunlight or near any heat source.
- Do NOT expose the batteries to flames.
- Do NOT short circuit the terminals of the batteries.
- Do NOT incinerate the batteries.
- Do NOT puncture the batteries or try to open/dismantle the battery pack.

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. Always contact your Authorized Savaria Dealer for service.

3. DESCRIPTION

Exterior Views

Figure 1

- Scale Carry Bar with Strap Connection, M921760 & M921780

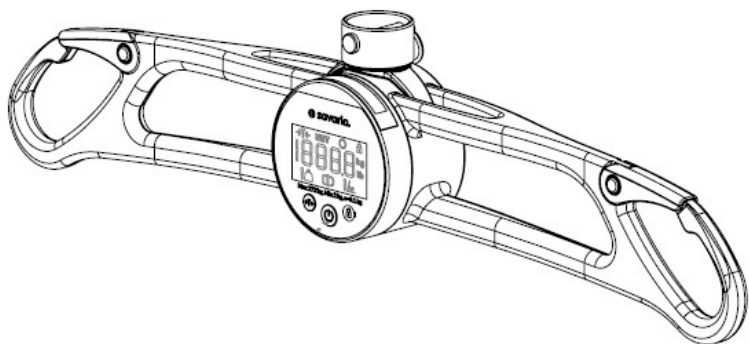
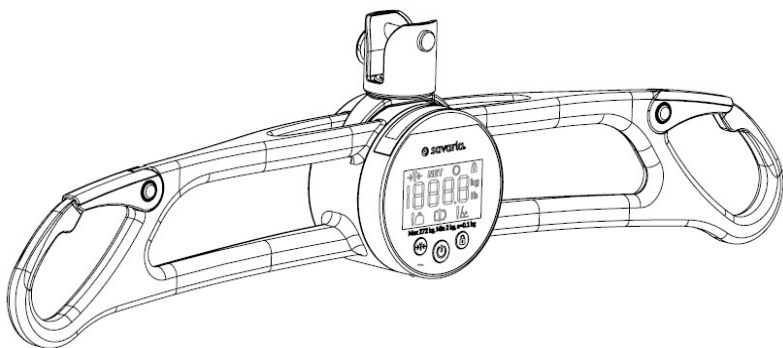


Figure 2

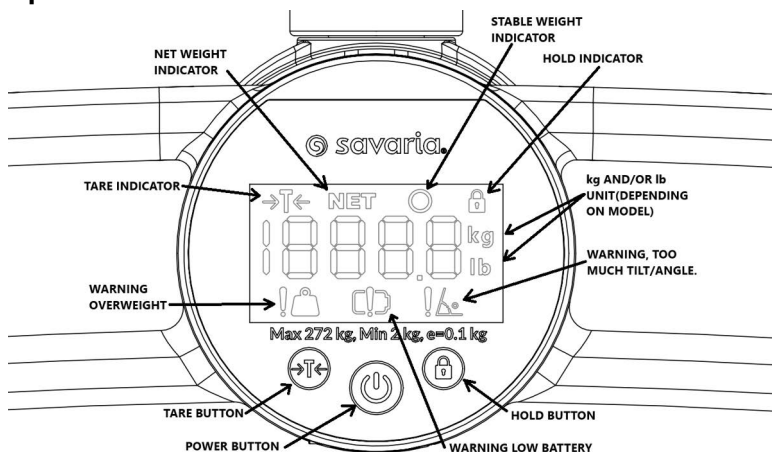
- Scale Carry Bar with QRS Hook Connection, M921765 & M921785



Operator Interface (Visual and Audio Signals, Controls)

Figure 3

Touchpad and Indicator



NOTE

The device will automatically shut off after 120 seconds of inactivity.

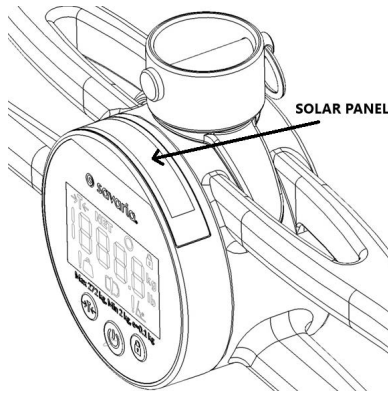
Solar Panel

The solar panel can utilize any light source type to help extend the charge of the battery.

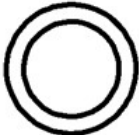
NOTE

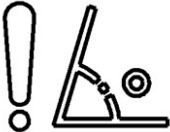
Solar light that passes through windows is the optimal recharge power source.

Figure 4



Visual Display Indicators (unless otherwise noted)

	<p>Tare</p> <p>Indicates the state of a tare operation.</p> <ul style="list-style-type: none"> Steady: Tare operation in progress. Flashing: Tare operation rejected or failed.
	<p>Net Weight</p> <p>Indicates that the currently displayed mass is a net mass.</p>
	<p>Stable Weight</p> <p>Indicates that the currently displayed mass is stable.</p>
	<p>Hold</p> <p>Indicates that a Hold operation is active or in progress.</p>
	<p>kg (Unit)</p> <p>Indicates that the currently displayed mass is in kilograms.</p>
	<p>lb (Unit)</p> <p>Indicates that the currently displayed mass is in pounds.</p> <p>NOTE</p> <p>The pounds option is only available on: M921780 and M921785.</p>

	<p>Too Much Tilt/Angle</p> <p>Indicates that the current tilt angle of the Scale Carry Bar is exceeding the maximum allowed angle.</p> <p>NOTE</p> <p>Mass indicator is replaced with dashes for as long as the tilt condition is detected.</p> <p>Level or reduce the angle of the device by repositioning the patient to return to normal operation.</p>
	<p>Low Battery</p> <p>Indicates that the battery level of the device is low.</p> <p>NOTE</p> <p>The device will continue to function correctly.</p> <p>The device needs to be recharged.</p>
	<p>Overweight</p> <p>Indicates that the currently measured mass exceeds the safe working load of the device.</p> <p>NOTE</p> <p>Mass indicator is replaced with dashes for as long as the overweight condition is detected.</p> <p>Reduce the load and/or ensure it is not caught on any obstruction to return to normal operation.</p>

Touchpad Buttons	
	<p>Hold Button</p> <p>Press to interact with the hold function of the Scale Carry Bar.</p> <p>NOTE</p> <p>See the Hold section for more information about the Hold function.</p>
	<p>Power Button</p> <p>Press the Power button to turn ON and press it 3 seconds to turn OFF.</p>
	<p>Tare Button</p> <p>Press to interact with the tare function of the Scale Carry Bar.</p> <p>NOTE</p> <p>See the Tare section for more information about the Tare function.</p>

Button Functions

Hold

The Hold function allows the user to record the patient's weight and keep the measurement showing on the display. To accommodate various situations, the Hold function can be used to capture either the stable weight or the average weight of the patient.

The Hold function is activated by pressing the **HOLD** button. The duration of the button press determines the mode in which the hold function operates:

- Short press: Stable mode
- Long press (3 seconds): Average mode

For both modes, the Hold Display Indicator appears on scale carry bar display to indicate the start of a hold operation.

In Stable mode, the mass indicator flashes for up to 10 seconds; during of which the weight must reach stability. Once stability is achieved, the weight measurement remains showing on the display.

In Average mode, the mass indicator is replaced by dashes for 10 seconds after which the average weight is calculated and remains showing on the display. This mode is intended for weighing patients who may not be able to remain stable long enough for an accurate measurement.

The weight measurement number will remain on the display for up to 6 minutes, after which the scale will shutdown.

A Hold operation may be aborted at any time either by pressing the HOLD button or automatically if certain measurement conditions are detected, including:

- Excessive tilt before the weight measurement is captured and retained on the display.
- Weight exceeding the safe working load before being captured and retained on the display.
- Negative weight before being captured and retained on the display.

In all cases, an aborted hold operation returns the scale to normal operation and the Hold Display Indicator disappears.

Tare

The Tare function allows the user to subtract additional weight (such as clothing or a sling) from the total weight to obtain the net weight of the patient.

To obtain the net weight, place the weight to be subtracted from the patient onto the scale carry bar. Press the TARE button. The Tare Indicator will appear on the display, indicating that the tare operation has started.

The tare operation can take up to 10 seconds, during which the mass indicator is replaced with dashes.

A successful tare operation requires the weight to stabilize within 10 seconds. Once stability is achieved, the Tare Display Indicator disappears and the Net Display Indicator shows to indicate success before returning back to normal weighing operation.

A tare operation may fail or be rejected at any time. In such cases, the Tare Display Indicator flashes rapidly three times. Failure or rejection of the tare operation occurs under the following conditions:

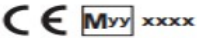
- Weight is within zero-effect range (± 0.1 kg), or at/above safe working load at the start of the tare operation.
- Too much tilt angle during the tare operation.
- Weight exceeds safe working load during tare operation.
- Stability is not reached within 10 seconds.

In all cases, a tare operation failure or rejection returns the scale to normal weighing operation without subtracting any weight.

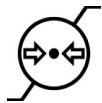
Symbols

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

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

Symbols on nameplate	
	Indicates that the scale is a non-automatic weighing instrument of accuracy Class III.
$d=e$ e	Weight accuracy based on weight range.
	Metrology mark. Indicates compliance with Directive 2014/31/EU (NAWI) for scales manufactured after April 20, 2016. For Class III Scales Only: yy = year, XXXX - notified body number.
	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
	Refer to instruction manual/booklet.
	Consult instructions for use.

Symbols on nameplate	
	Type BF protection against electrical shocks.
MAX . LOAD :	Refers to the greatest permissible load that can be applied to the product.
IPX₁X₂	Ingress Protection: X ₁ : Protection level against ingress of solid particles X ₂ : Protection level against ingress of liquids
 (01)10688503001006	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.

4. SPECIFICATIONS



WARNING

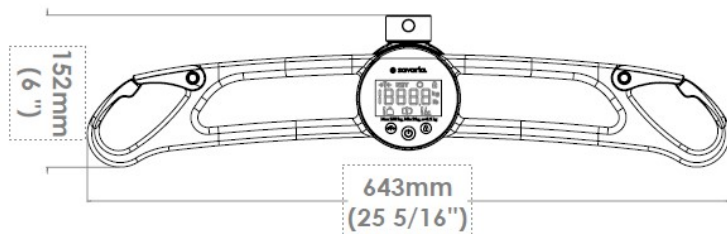
This equipment is not suitable in the presence of flammable anesthetic mixtures with air or oxygen, or with nitrous oxide.

Product	
Product Weight	2.6 kg (5.8 lb)
Product Life	10 years
Safe Working Load (SWL)	272 kg (600 lb)
Ingress Protection Rating	IPX5
Protection Class	Type BF
Power Source	
Battery	Battery type: Lithium Polymer, 3.7 V, 500 mAh
Charging Requirements	Output: 5VDC, max 100mA Charger (optional): M107661
Environmental Conditions: Operation	
Temperature	10 °C to 40 °C (50 °F to 104 °F)
Humidity	15 to 85%
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	On/off button to turn on and off the device. Tare button to tare the device. Hold button to lock the mass on screen.
Device Control Operating Force	4 - 4.5N
NOTE	
Devices meet the requirements of the following Certifications and Compliances.	

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

Strap Connection models



QRS Hook Connection models

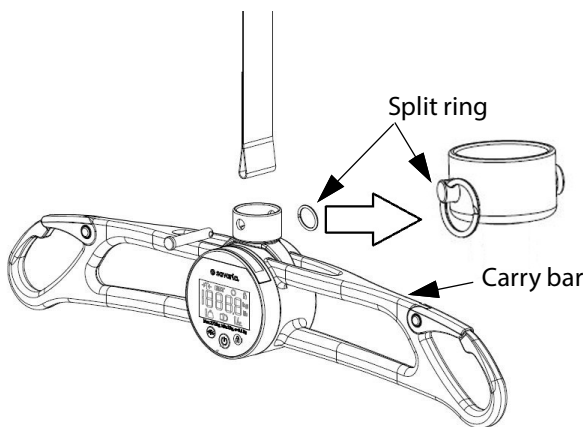


5. USING THE DEVICE

Installing the Scale Carry Bar on the Strap or on the QRS Hook

- 1 Attach the Scale Carry Bar to the strap of the ceiling lift or to the QRS hook.
- 2 Verify that the Scale Carry Bar is well attached to the strap by the presence of the split ring.

Figure 5



NOTE

A QRS hook may 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 split ring.



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 split 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.



WARNING

Ensure the split ring is fully locked in place to ensure the safety of the scale attachment thereby preventing the person from falling and sustaining possible injuries.

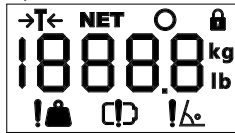
Startup Sequence

Each time the Scale Carry Bar is powered on, it performs an automatic startup sequence before normal operation is possible. This process may take up to 30 seconds.

During startup, the scale initializes and sets its zero reference. The following information is displayed in sequence:

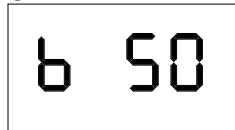
1 LCD Segment Test

All display segments are briefly illuminated.



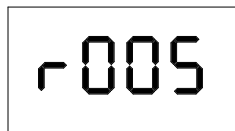
2 Battery Level

The current battery percentage is shown.



3 Software Revision

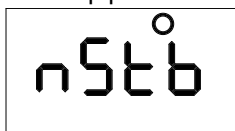
The software revision programmed into the device.



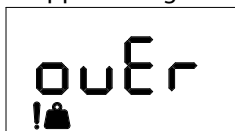
For the startup sequence to be successful, the weight loaded onto the Scale Carry Bar must remain stable for 5 consecutive seconds. Once achieved, the startup sequence is over and the Scale Carry Bar proceed to normal weighing operation.

The startup sequence will fail and the device will shutdown if any of the following conditions occur:

- **Unstable Load:** If the weight is not stable for 5 consecutive seconds within the 30 second startup period:



- **Excessive Load:** If the applied weight exceeds 20 kg (44 lb) at startup.



Setting Up the Scale

The M921760 scale and M921765 scale are preset from the factory and do not require initial setup.

The M921780 scale and M921785 scale have the option to select either kilograms or pounds by holding tare and lock button for 3 seconds. See the following section for more information.

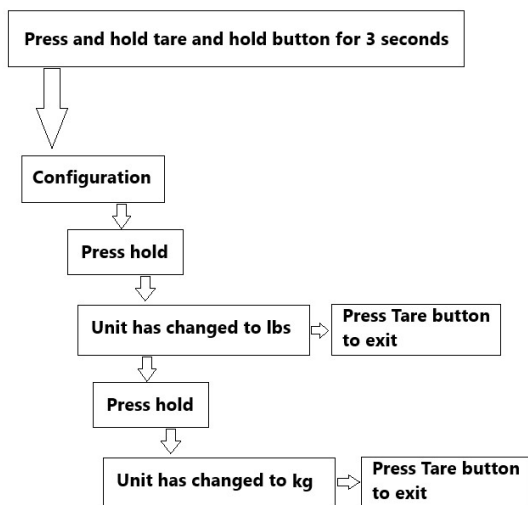
Changing Unit of Measure (Non-Class III Models Only)

NOTE

Toggleing between pounds and kilograms as the unit of measure can be done using the Configuration Mode. This mode is only accessible in the non-Class III model. Class III device certification allows display in kilograms only.

To access the unit of measure Configuration Mode, do the following:

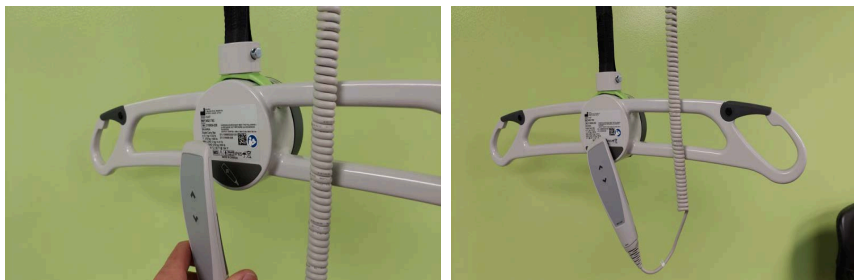
Figure 6



Hand Control

The hand control with magnetic back can be placed on the cup that holds the strap when not in use.

Figure 7



Hand control with hook can be placed on the arm next to the display when not in use.

Figure 8



Before Using the Scale



WARNING

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

NOTE

Always ensure that the display shows ZERO before using it. If it does not, press the TARE button to tare the scale. Do not measure weight during movement as tilting motion can cause an inaccurate reading.

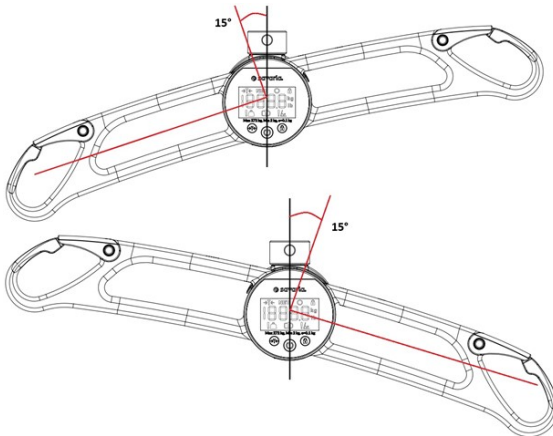
NOTE

The scale cannot be used while it is being charged.

NOTE

A tilt angle over 15° will cause a false reading.

Figure 9



Weighing a Patient

- 1 Turn on the scale.
- 2 Wait for the startup sequence to finish.
- 3 Attach the sling to the scale, along with any additional items that will need to be zeroed out ("tared") from the weighing process.
- 4 Press tare to zero out the scale.
- 5 Lift the patient with the lift and scale.
- 6 Wait until the weight is stable.
- 7 Record the weight measurement.



WARNING

The hand control of the lift should always be kept in the hand of the caregiver and must never come into contact with the scale carry bar while weighing a patient. Doing so will alter the accuracy and precision of the scale.

Recharging the Scale Carry Bar

- 1 Remove the Scale Carry Bar from the lift avoiding impacts.
- 2 Place the Scale Carry Bar in a secure location where there is no risk of damage.
- 3 Peel back the protection cover that protects the USB-C port.
- 4 Plug a USB-C cable into the Scale Carry Bar USB-C port and the other cable extremity at the charging source.

NOTE

The device cannot be used while charging.

Ensure that the charging source output meets the charging requirements (refer to Charging Requirements in SPECIFICATIONS section).

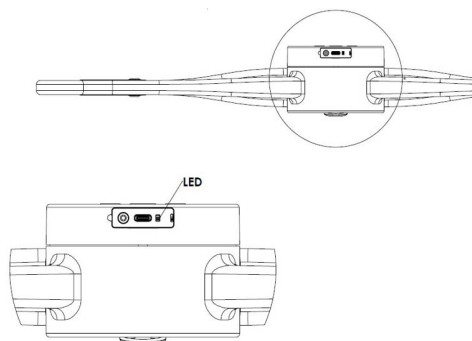
An amber LED illuminates while charging. If the device's battery level is too low (below a critical threshold), the LED will not illuminate immediately after the charger is connected. In this case, a few minutes may be required for the battery to reach a sufficient level before the amber LED turns on.

Charging Adapter (PN: M107661) and USB-C Charging Cable (PN: M107691) can be directly purchased from Savaria.

When the device is connected to the charger, the "CHrg" message is shown on the screen.

CHrg

Figure 10



6. MAINTENANCE

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

It is also recommended to check the accuracy of the device at regular intervals. The regularity of these checks is dependent upon the level of use and the state of the device. If any inaccuracies occur, contact your Authorized Savaria Dealer for service.



WARNING

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.

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.

Check/Action	Frequency
Check the device for any damage. Device pivot must be free of deposit and must move freely (rotation & up/down movement)	Before every use
Clean the outside of the device	As required
Charge the battery	As required
Calibration (Class III only)	Every year

Calibration

A one-year time frame between calibrations ensures that the device maintains its accuracy and precision.

In the event that the device has suffered any shock, damage, or misuse, it is strongly recommend to conduct a calibration to ensure the device still performs as intended.

The calibration shall be carried out by demonstrably competent and specifically trained people, familiar with the design, use and care of the device.

NOTE

In instances when the scale is sold in Europe, the conformity of the scale with requirements of the Council Directive 90/384/EEC as amended, are established by tests referred to in EN45501-8.2.

The verification of conformity is valid only for the location of use. This is due to the gravity of the scale being adjusted prior to delivery, and then being sealed by the calibration and gravity counter on the scale marking.



WARNING

To maintain medical approval, the digital scale MUST be calibrated/verified according to the national regulatory requirements per the accredited testing institute conducting the calibration.

Environmental Notice

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

Cleaning

Always turn off the scale before cleaning.

To clean the Scale Carry Bar, we recommend using alcohol-based wipes (or similar) to wipe down the unit.

Do NOT use large amounts water when cleaning the scale as this will cause damage to the electronics.

Also refrain from using corrosive liquids or high-pressure washers.

7. TROUBLESHOOTING

Error Messages

Error messages are provided below.

Code	Description
E001	AVDD reading is too low (under 3.0V).
E002	AVDD reading is too high (over 3.5V).
E003	Reserved for future use.
E004	The loadcell is disconnected from the board.
E005	E001 + E004: AVDD reading is too low and the loadcell is disconnected.
E006	E002 + E004: AVDD reading is too high and the loadcell is disconnected.
E007	Reserved for future use.
E008	The firmware has been corrupted.

Operator Troubleshooting

Before contacting your Authorized Savaria Dealer for service, please check the items listed below and perform the actions indicated.

Problem	Cause/Action
Device not turning on	The battery is out of power. See the <i>Recharging the Scale Carry Bar</i> section for more information.

NOTE

For all other problems, contact your Authorized Savaria Dealer.

8. ELECTROMAGNETIC COMPATIBILITY

Electromagnetic Compliance

The Scale Carry Bar 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 scale, 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 Scale Carry Bar is intended for use in the electromagnetic environment specified below.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The Scale Carry Bar 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. The Scale Carry Bar 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.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 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 Scale Carry Bar 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	+/-6 kV contact +/-8 kV air	+/-6 kV contact +/-8 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%.
Electrical fast transient/burst IEC 61000-4-4	+/-2 kV for power supply lines +/-1 kV for input/output lines	Not applicable Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	+/-1 kV for differential mode +/-2 kV for common mode	Not applicable Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5s	Not applicable Not applicable Not applicable Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of this scale requires continued operation during power mains interruptions, it is recommended that this scale is powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: UT 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 Scale Carry Bar is intended for use in the electromagnetic environment specified below.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 Vms 150KHz to 80 MHz	Not applicable	<p>Portable and mobile RF communications equipment should be used no closer to any part of the scale, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance:</p> <p>$d = 1,2 \sqrt{P}$</p> <p>$d = 1,2 \sqrt{P}$ 80MHz to 800 MHz</p> <p>$d = 2,3 \sqrt{P}$ 800MHz to 2,5 GHz</p> <p>where <i>P</i> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <i>d</i> is the recommended separation distance in metres.</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^(a) should be less than the compliance level in each frequency range.^(b)</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> <div></div>
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m 80 MHz to 2.5 GHz	

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 scale is used exceeds the applicable RF compliance level above, the scale should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the scale.

(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 Hanging Scale

The Scale Carry Bar is intended for use in electromagnetic environments in which radiated RF disturbances are controlled. The customer or the user of the Scale Carry Bar can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communication equipment (transmitters) and the Scale Carry Bar 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 $d = 1,2 \sqrt{P}$	80 MHz to 800 MHz $d = 1,2 \sqrt{P}$	800 MHz to 2.5 GHz $d = 2,3 \sqrt{P}$
0.01	N/A	0.12	0.23
0.1	N/A	0.38	0.73
1	N/A	1.2	2.3
10	N/A	3.8	7.3
100	N/A	12	23

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.

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Authorized Savaria Dealer

Scale Carry Bar OWNER'S MANUAL

Part No. 001417-EN

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For service or questions about this product, please contact your installing dealer.

DEALER NAME: _____

DEALER PHONE: _____

