

**Savaria**  
Fixed Ceiling Lift **FL**

**OWNER'S  
MANUAL**



## IMPORTANT

Be sure to read this entire manual before using the Savaria FL Fixed 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 lift. 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 this lift 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 this lift. 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 Monarch Fixed Lift by an Authorized Savaria Dealer to ensure safety and proper operation of the lift. 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.  
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Brampton, Ontario L6T 5E1  
Canada

### European Representative:

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## 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.

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### **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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# CONTENTS

1. OVERVIEW .....	5
Intended Use .....	5
Product Life .....	5
Using This Manual .....	5
2. SAFETY INSTRUCTIONS .....	6
To Ensure Safety .....	6
Battery and Charger Safety .....	7
Fire and Explosion Prevention .....	7
Shock Prevention .....	8
3. DESCRIPTION .....	9
Exterior Views .....	9
Lift Controls .....	10
Hand Control .....	11
Charger .....	12
Slings .....	13
Symbols .....	14
4. SPECIFICATIONS .....	18
Dimensions .....	20
5. USING THE LIFT .....	21
Before Transfer .....	21
Transferring the Person .....	21
Emergency Lowering .....	32
Emergency Brake .....	33
Charging the Battery .....	34
6. MAINTENANCE .....	36
Operator Maintenance Schedule .....	37
Dealer Maintenance Schedule .....	38
Inspection and Cleaning .....	39
Cleaning the Sling .....	40
7. TROUBLESHOOTING .....	41
8. ELECTROMAGNETIC COMPATIBILITY .....	42
Electromagnetic Compliance .....	42
Electromagnetic Immunity .....	43

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# 1. OVERVIEW

## Intended Use

The Monarch 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 lift for any other purpose.**

## Product Life

The lift 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 fixed ceiling lift 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 lift, read this entire manual carefully, especially the *Safety Instructions*, before installing, using or maintaining the lift. 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 lift and ensure all operators are fully trained in the use of the lift as described in this manual.

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## 2. SAFETY INSTRUCTIONS

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



### WARNING

**Do NOT use the lift 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 cable and emergency stop cord.**

### To Ensure Safety

- The lift has a safe working load of 272 kg (600 lb), 200 kg (440 lb) or 130 kg (286 lb). Do NOT exceed this load. Refer to the nameplate tag for the Maximum Load allowed.
- The lift shall be installed in a track system with equal or greater capacity. Never install a lift into a track not having sufficient loading capacity.
- The lift must be installed by an Authorized Savaria Dealer.
- Ensure the 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.
- Operators must be fully trained before using the lift.
- Ensure the sling is intended for use with this 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 lift clean and dry.
- Follow the lifting procedures provided in this manual.

- Perform the “Before each use” checks and actions specified in the *Operator Maintenance Schedule* before using the lift.
- 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 lift.
- Use only the charger that is supplied with the lift.
- 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 pack

## **Shock Prevention**

- Do NOT touch or use the lift if you notice any exposed or damaged wires.
- Do NOT expose electrical parts of the lift 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 lift, battery or charger. Always contact your Authorized Savaria Dealer for service.

### 3. DESCRIPTION

#### Exterior Views

Figure 1



Front view



Bottom view



Side view

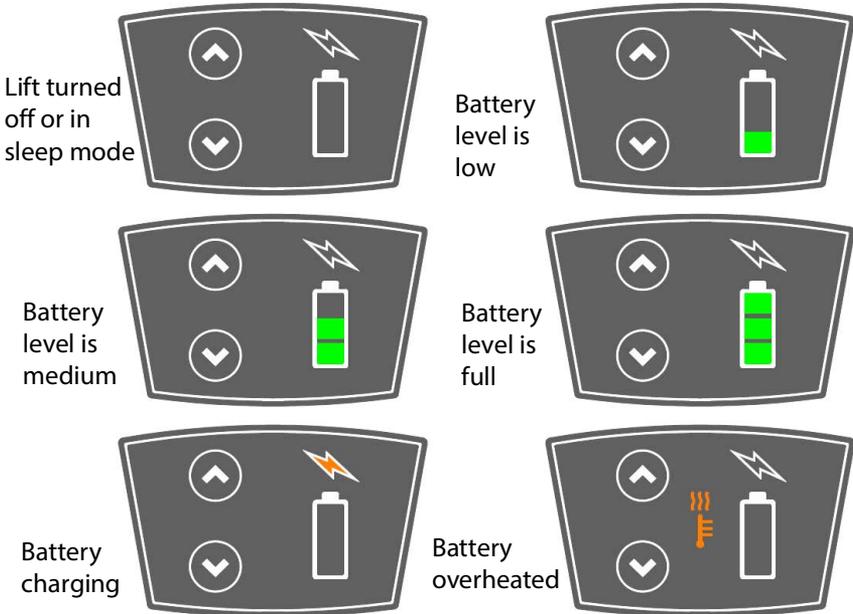
## Lift Controls

Figure 2



Touchpad membrane

**NOTE:** A blinking LED indicates the battery has reached its lowest level and needs to be recharged.



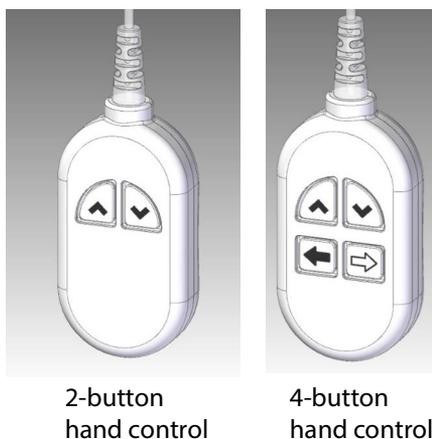
**NOTE**

The lift will automatically go into sleep mode after a few seconds of inactivity and the display will turn off. Pressing any button will wake up the lift.

## Hand Control

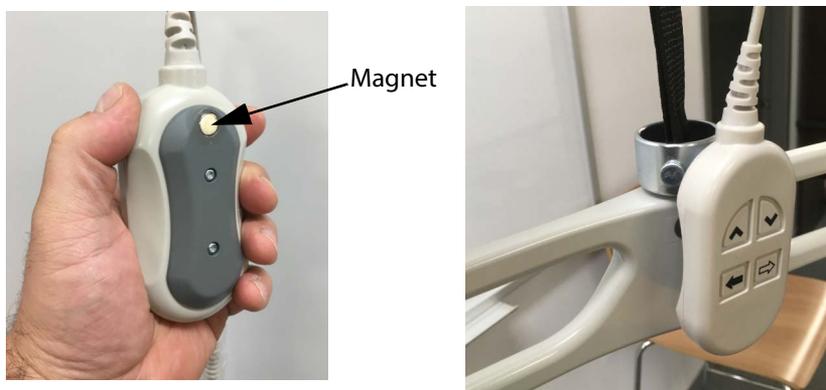
The hand control unit can be used to operate the fixed ceiling lift. Use the UP and DOWN buttons to raise and lower the lift. For a device equipped with lateral motorization, use the LEFT and RIGHT buttons on the 4-button hand control to move the lift along the track.

**Figure 3**



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

**Figure 4**



## Charger

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

**Figure 5**



### LED Description

1. When ON, fully charged or disconnected = led is solid green
2. When charging , led turns yellow, amber or red (depending on the charger version)
3. Blinking/fading green = erroneous plugging sequence (most likely to happen with the portable lift, on the M920001-X only):
  - a. When this happens, user has to make sure that the charger is powered (plugged to the wall) prior to connect it to the lift.

## Slings

The following chart illustrates some of the different types of slings. Note that each model is offered in various sizes, and comes in mesh or solid material.

<p>Universal without head support</p>  A grey universal sling without head support, laid flat on a wooden floor. It features a central opening for the head and two long leg loops with green and black straps.	<p>Universal with adjustable head support</p>  A grey universal sling with adjustable head support, laid flat on a wooden floor. It has a wider head opening with a black adjustable strap across the top and two long leg loops with green and black straps.
<p>Hygienic</p>  A grey hygienic sling, laid flat on a wooden floor. It has a central opening for the head and two long leg loops with green and black straps. A black strap is visible across the chest area.	<p>Walking</p>  A grey walking sling, laid flat on a wooden floor. It has a central opening for the head and two long leg loops with green and black straps. A black strap is visible across the chest area.
<p>Disposable</p>  A grey disposable sling, laid flat on a wooden floor. It has a central opening for the head and two long leg loops with green and black straps. A black strap is visible across the chest area.	<p>Repositioning</p>  A grey repositioning sling, laid flat on a wooden floor. It is a rectangular sheet with multiple black straps along the edges for securing a patient.

**NOTE**

*We recommend that you replace the sling 5 years after the manufacturing date specified on the sling label.*

**Guidelines to Select Proper Sling Size**

<b>Size</b>	<b>Weight</b>
Extra Small (XS)	< 75 lb
Small (S)	75 to 125 lb
Medium (M)	125 to 250 lb
Large (L)	250 to 350 lb
Extra Large (XL)	350 to 450 lb
Extra Extra Large (XXL)	450 to 600 lb
Bariatric (BARI)	1200 lb

Some slings may incorporate a colored liner in addition to the size label. The color code is as follows:

- XS: White
- S: Red
- M: Yellow
- L: Green
- XL: Blue
- XXL: Orange
- BARI: Dark grey

## Symbols

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

Symbols on nameplate	
 YYYYY-MM-DD	Indicates the medical device manufacturer. This symbol is accompanied by the address of the manufacturer and the date of manufacture. YYYYY: Represents the year MM: Represents the month DD: Represents the day
	Indicates the authorized representative in the European Community. This symbol is accompanied by the address of the authorized representative.
	Indicates the manufacturer's catalogue number
	Indicates the manufacturer's serial number
	Keep dry
	Indicates the product complies with the medical device directive
	Indicates the product was certified by third-party "QPS"
	Indicates the product complies with the directive (RoHS)
	Indicates "separate collection" for all batteries and accumulators per the WEEE directive

	Direct current
	Caution
	Refer to instruction manual/booklet
	Consult instructions for use
	Type BF protection against electrical shocks
<b>MAX . LOAD :</b>	Refers to the greatest permissible load that can be applied to the product
<b>IPX<sub>1</sub>X<sub>2</sub></b>	<b>Ingress Protection:</b> X <sub>1</sub> : Protection level against ingress of solid particles X <sub>2</sub> : Protection level against ingress of liquids
 (01)10688503001006	Unique Device Identification (UDI) symbol required by the FDA
	Indicates the product is a medical device according to EU Medical Device Regulation 2017/745

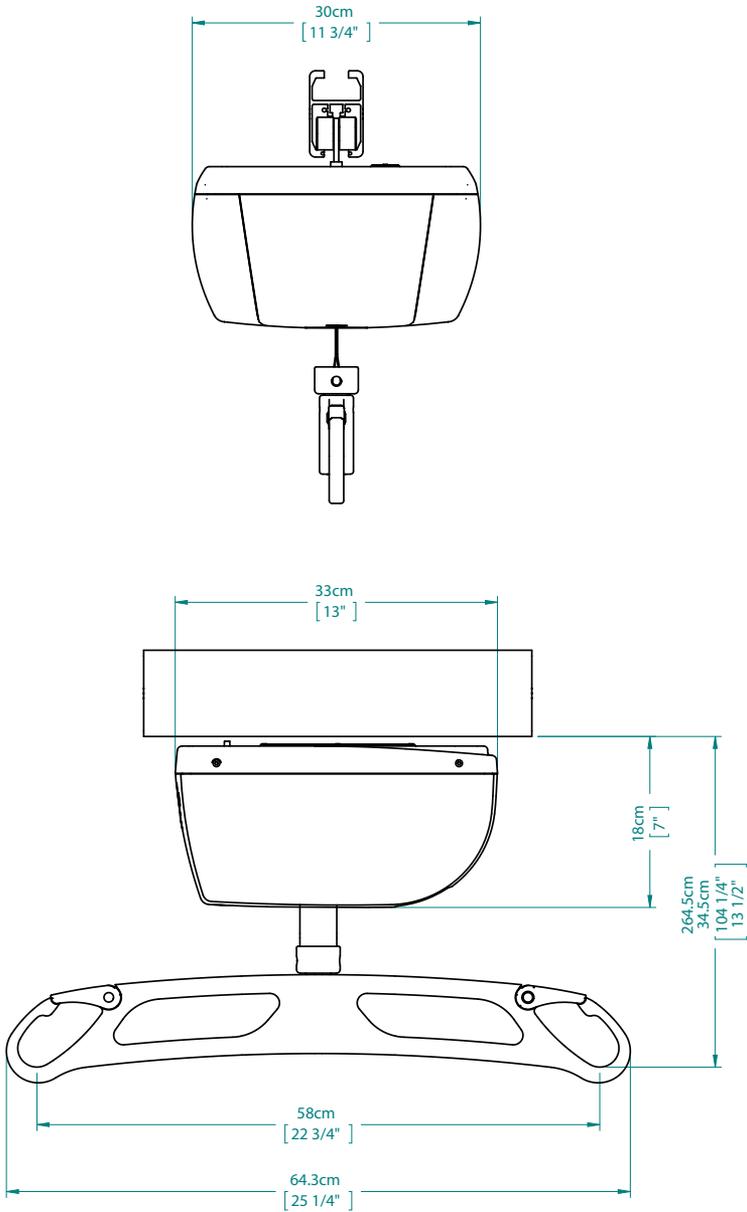
<b>Symbols on box label</b>	
	Indicates the temperature limits to which the medical device can be safely exposed
	Indicates the range of humidity to which the medical device can be safely exposed
	Indicates the range of atmospheric pressure to which the medical device can be safely exposed
<b>Symbols on lift</b>	
	Indicates the "Stop" button on the product
	Indicates heat warning when the yellow light turns on solid
	Indicates the location of the emergency lowering system on the product

## 4. SPECIFICATIONS

<b>Product</b>	
Product Weight	Manual trolley version: 7.5 kg (16.5 lb) Motorized trolley version: 8.5 kg (18.7 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)
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)
Water Ingress Protection Rating of Lift	IP20
Noise Level	Maximum 54 dBA
Medical Electrical Equipment Class	Class 1
Protection Class	Type BF
<b>Battery</b>	
Battery Type	Lithium ion, 25.2V 2500 mAh
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) <b>NOTE:</b> When equipped with the constant charging system in the track, the number of cycles is limited to the duty cycle of the lift which translates to approximately 300 cycles per day at the maximum load.
Battery Charging	Full capacity in approximately 2 hours
<b>Charger</b>	
Charger Input	100-240 VAC, 50-60Hz
Charger Output	29.4 VDC, max 1A
<b>Environmental Conditions</b>	
Operating Temperature	5 °C to 40 °C (41 °F to 104 °F)

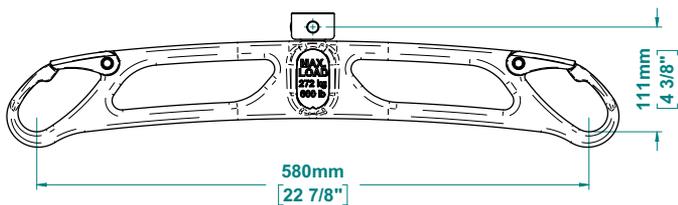
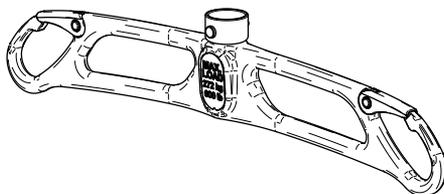
Battery Charging Temperature	10 °C to 40 °C (50 °F to 104 °F)
Operating Humidity	15 to 93%, non-condensing
Storage Temperature	-25 °C to 70 °C (-13 °F to 158 °F)
Storage Humidity	0 to 93%, non-condensing
Atmospheric Pressure	70 kPa to 106 kPa
<b>WARNING: This equipment is not suitable in the presence of flammable anesthetic mixtures with air or oxygen, or with nitrous oxide.</b>	
<b>Controls</b>	
Lift Controls	UP and DOWN buttons to raise and lower the lift
Hand Control	UP and DOWN buttons to raise and lower the lift LEFT and RIGHT buttons for lateral movement on motorized trolley models
Hand Control Operating Force	4 - 4.5N
Water Ingress Protection Rating of Hand Control	IP67
On/Off Power Switch (red cord)	Used to shut off power to the lift and as an emergency stop feature
<b>Certification</b>	
IEC 60601-1:2005 A1:2012 (Medical Electrical Equipment)	
IEC 60601-1-11:2015 (Homecare)	
ISO 10535:2006 (Patient Lift)	
CAN/CSA Z10535.1:15 (Patient Lift)	
<b>Compliance</b>	
CE Marking per MDR (EU) 2017/745 (Medical Device)	
2006/42/EC (Machinery Directive)	
2015/863/EU (ROHS - 100% of components)	
2012/19/EU (WEEE)	

## Dimensions

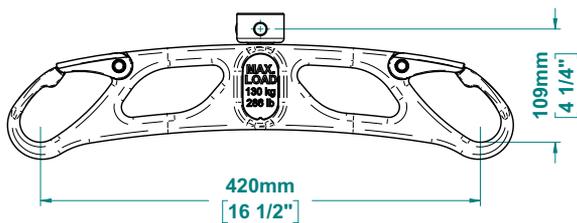
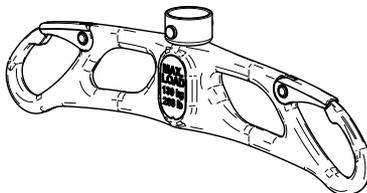


## Compatible Accessories

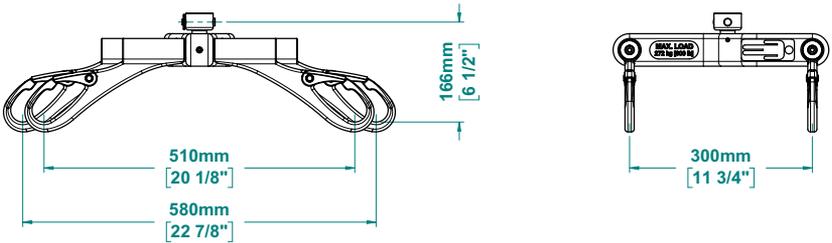
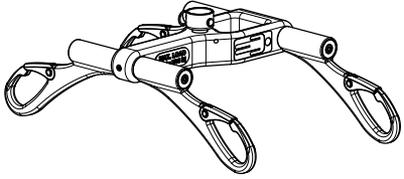
- Regular carry bar M920660-xxx series



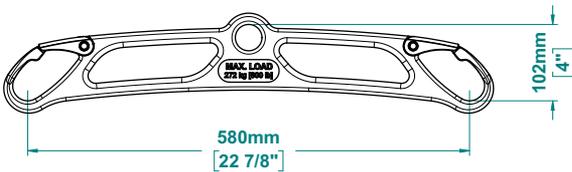
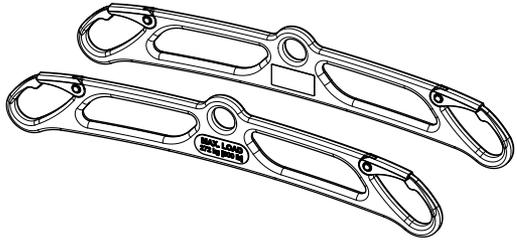
- Pediatric carry bar M921340-xxx series



- 4-point carry bar M921185-xxx series



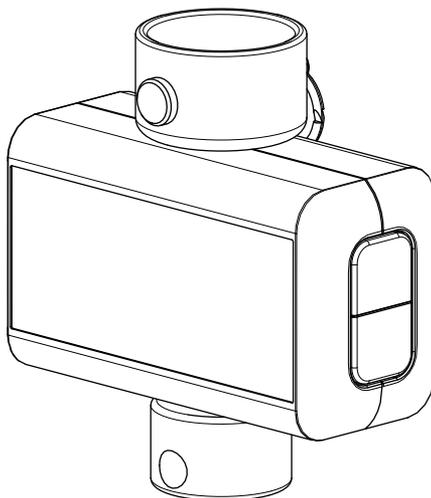
- Add-on carry bar kit M921335-xxx series



- Strap extension M920370



- Hanging weighing scale M921135



## 5. USING THE LIFT



### WARNING

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

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

**Figure 6**



- 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 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 To turn on power to the lift, push the red plunger. If it's out of reach, you can use a broom handle (or something similar) to push the plunger.

**Figure 7**



**NOTE**

To turn off power to the lift, pull down on the red cord to pull out the red plunger as shown below. Note that the red cord can also be used as an Emergency Stop.

**WARNING**

**Ensure you can reach the emergency cord before using the lift. This warning applies especially when the lift is installed in a track above 2.75 m (9 ft) while the operator height is under 152 cm (5 ft).**

**The red cord can be extended; contact your Savaria dealer for more information.**

**Figure 8**

**CAUTION**

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

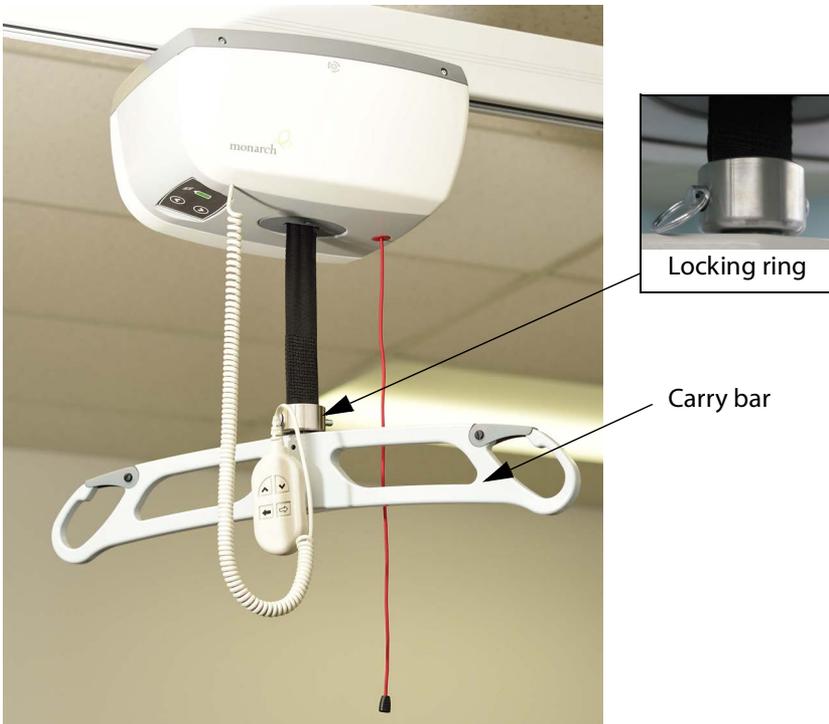
- 3 Unwind the carry bar by pressing the DOWN button on the hand control while maintaining tension on the carry bar with your other hand. Note that there must be tension on the lift strap for the lift to function.

**CAUTION**

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

- 4** Verify the carry bar attachment and presence of the locking ring.

**Figure 9**



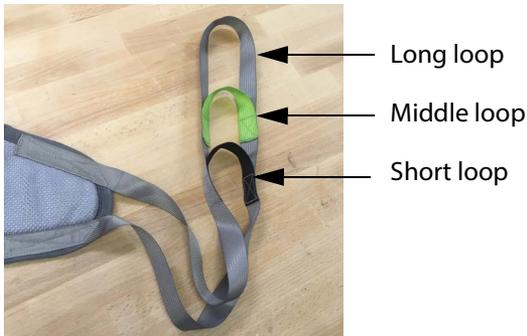
- 5** Move the lift over the person to be transferred by pressing the LEFT or RIGHT lateral arrow buttons on the hand control. If the lift doesn't have a motorized trolley, drag the lift along the track using the carry bar.

- 6 Press the DOWN button on the hand control to lower the carry bar below the chin. You need to unfold the sling straps before attaching them to the support hooks. Note that there are different loops on the sling straps (as shown below) to allow transfer from the sitting or reclined position.

**NOTE:** Different types of slings are available. Your sling may differ from the one shown below, but the following basic concepts still apply.

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

**Figure 10**



Fully seated position



Fully reclined position



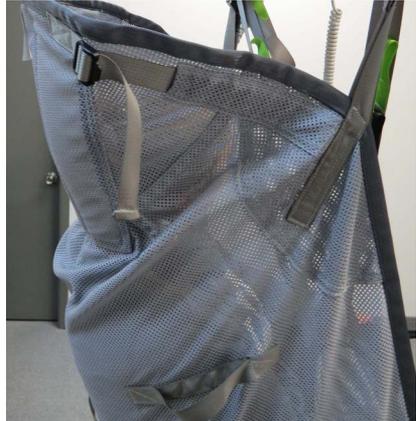
- 7 The universal sling is equipped with a head support system consisting of two adjustable straps. Tighten the straps as needed for full head support and release them for less support as shown below.

**Figure 11**



Straps tightened (full support)

Straps released



- 8** The photos below show the two methods that can be used for the leg loops of the universal sling (regular or crossed).

**Figure 12**



Leg loops  
regular position



Leg loops  
crossed position

- 9 If using the 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 the hygienic sling.

**Figure 13**



Installing the  
hygienic sling



Position for transfer  
using hygienic sling

- 10** If using the 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 the walking sling.

**Figure 14**

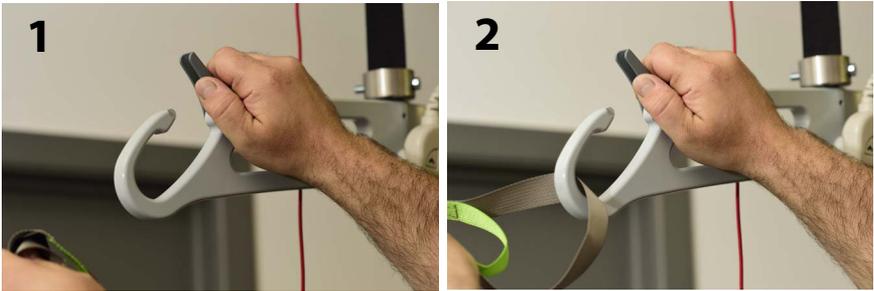
Installing the walking sling



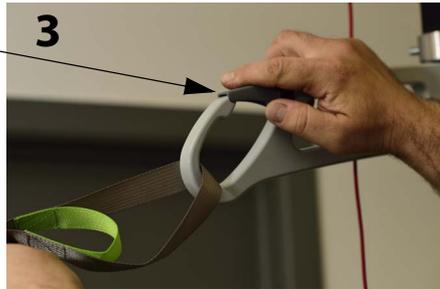
Position for transfer  
using walking sling

- 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 strap onto the support hook with your other hand. The safety latch will spring closed, trapping the sling strap inside the support hook. **The safety latch must be completely closed as shown below.**

**Figure 15**



Safety latch must be completely closed as shown.



**DANGER**

**Do NOT attempt a transfer if the support hook safety latches are not completely closed. The sling strap MUST be trapped inside the support hook to prevent the person from falling and sustaining possible injuries.**

- 13** Before lifting the person, ensure the sling straps are securely locked in the support 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 membrane. Note that you can use the handles on the sling to help with guiding the person.

**Figure 16**



Use handles on sling to help with guiding

- 15** Lift the person until the sling clears the arms of the wheelchair, or the top of the bed, before moving the person. Guide their legs past any obstacles. Note that there is no need to raise the person in the air far above any obstacles, just far enough to clear them.
- 16** When the person is above the desired point of transfer, press the DOWN button on the hand control to lower the person.

- 17 Once the person is properly seated, loosen the straps and disengage the sling from the lift. To do this, lift up on the safety latch with the sling strap (as shown below) and slide the strap off.

**Figure 17**



- 18 Slide the lift away from the person. Unhook the lift from the trolley and use the hand control or touchpad membrane to shorten the strap. You can now remove the sling from around the person who was transferred.
- 19 Move the lift under the charging station to ensure the battery is charged for the next use.

#### NOTE

*Note that the lift will not charge if the red Emergency Stop cord is pulled.*



#### WARNING

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

## Emergency Lowering

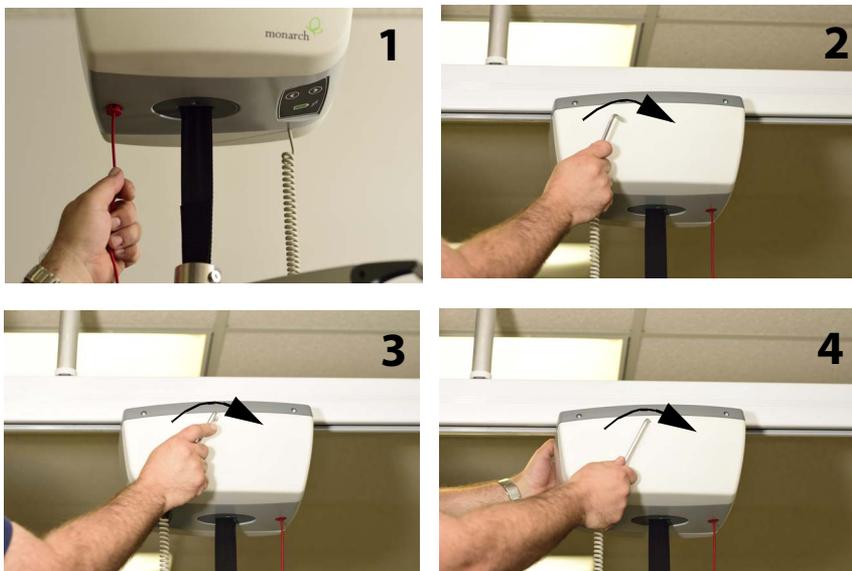


*Use the emergency lowering feature for emergency only.*

The lift is equipped with an emergency lowering device that allows you to lower the lift if the electrical system is not functioning. The emergency lowering device is activated using a standard 6mm Allen key (supplied with the lift).

- 1 Pull the emergency stop cord to turn off the lift.
- 2 Move the person in the lift over the wheelchair or bed.
- 3 Using the Allen key, puncture the label to access the emergency lowering mechanism.
- 4 Turn as indicated on the punctured label to lower the person. Note that each turn of the key will lower the person slightly. Once the person is lowered safely into the wheelchair or bed, remove the Allen key from the access opening.
- 5 Call your Authorized Savaria Dealer to service the lift.

**Figure 18**



Some models do have the emergency lowering system located on another side of the enclosure and using a 4mm Allen key (provided with the lift).



## 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 lift to fall. Do NOT attempt to use the emergency lowering device either as injuries could occur.**

**Contact your Authorized Savaria Dealer to arrange for the unit to be replaced.**

---

## Charging the Battery

### NOTE

*If the battery charge is low, you will hear a beeping sound and see a blinking green LED on the lift when pressing a button. The beeping sound and blinking LED will stop when the button is released. Charge the battery as soon as possible.*



### WARNING

**Use ONLY the charger #M920001 provided with the 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 outlet. The green indicator on the charger will come on solid.
- 2 Move the lift under the charging station.
- 3 The charging indicator on the lift display 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 lift again.

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

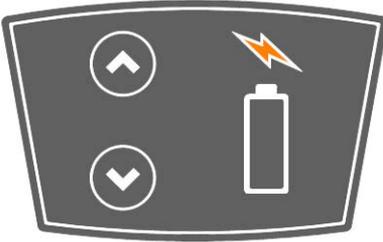
The lift should not remain stored for long periods of time without charging the battery. Charge the battery at least every month to maximize the life span.

### NOTE

*The lift must be in the "ON" position to charge the battery. If the red Emergency Stop cord is pulled, the lift will not charge.*

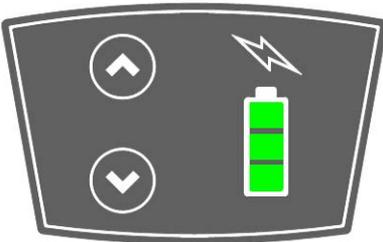
When the battery is charging, the lightning bolt symbol on the touchpad membrane will be solid yellow.

**Figure 19**



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

**Figure 20**



---

## 6. MAINTENANCE

The fixed ceiling lift 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.**

**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.**

## 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.

<b>Operator Check/Action</b>	<b>Frequency</b>
Charge the battery	Before every use
Check the lift strap for wear	Before every use
Check the sling material and straps for wear	Before every use
Check for any defects or loose threads in the stitched areas of the sling	Before every use
Check the carry bar for any damage	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
Ensure the track end stops are securely in place	Before every use
Ensure the lift moves freely along the track	Before every use
Clean the lift casing	As required
Check the operation of the lift control buttons	Every 4 months
Clean the track	Every 4 months
Check the emergency stop function by pulling the emergency stop cord to turn off the lift	Every 4 months
Check the 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 lift casing for any damage	Every year
Check the lift transmission	Every year
Check the 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 lift and track system with the Safe Working Load	Every year
Replace the lift strap	Every 2 years
Lubricate the roller and the spool shaft	Every 2 years
Lubricate the transmission spool gear	Every 2 years



**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 21**



## Inspection and Cleaning

To clean the Monarch Ceiling Lift, wipe down the casing with a damp cloth using warm water and a cleaner. You can also use wipes that have a 70% v/v solution of isopropyl alcohol.

Do not use phenol, chlorine or any other type of solvent that may damage the finish.

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



### CAUTION

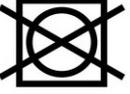
**Do not splash, drench or immerse the unit in water as the unit could malfunction causing injuries to occur.**

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 lift casing. Only an Authorized Savaria Dealer is qualified to open it. Modifications made to the lift by someone other than a qualified technician may cause serious injury.**

Problem	Action
The unit starts and stops repeatedly.	If the load is greater than the Safe Working Load of the lift, it will not function due to an overload on the motor.
The lift emits a beeping sound during use. The unit may stop lifting the person but can still lower the person.	The battery is low and needs to be charged.
Charging indicator on the lift (yellow) does not light up when the charger is connected to the lift.	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 lift does not move when you press a button on the lift or on the hand control.	Make sure the On/Off power switch on the lift is turned On. Check that the battery is charged. If the problem persists and the lift still does operate, contact your Authorized Savaria Dealer for service.

## 8. ELECTROMAGNETIC COMPATIBILITY

### Electromagnetic Compliance

The ceiling lift 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 Monarch, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.**

<b>Guidance and Manufacturer's Declaration - Electromagnetic Emissions - For All Equipment and Systems</b>		
The Monarch Ceiling Lift is intended for use in the electromagnetic environment specified below.		
<b>Emissions test</b>	<b>Compliance</b>	<b>Electromagnetic environment - guidance</b>
RF emissions CISPR 11	Group 1	The ceiling lift 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 ceiling lift 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

<b>Guidance and Manufacturer's Declaration - Electromagnetic Immunity - For All Equipment and Systems</b>			
The Monarch Ceiling Lift is intended for use in the electromagnetic environment specified below.			
<b>Immunity test</b>	<b>IEC 60601 test level</b>	<b>Compliance level</b>	<b>Electromagnetic environment - guidance</b>
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.
<b>NOTE:</b> <i>UT</i> 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 Monarch Ceiling Lift 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.	<p>Portable and mobile RF communications equipment should be used no closer to any part of the lift, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance:</p> $d = \left[ \frac{3.5}{3} \right] \sqrt{P}$ $d = \left[ \frac{3.5}{10} \right] \sqrt{P} \quad \begin{array}{l} 80 \text{ MHz to} \\ 800 \text{ MHz} \end{array}$ $d = \left[ \frac{7}{10} \right] \sqrt{P} \quad \begin{array}{l} 800 \text{ MHz to} \\ 2.5 \text{ GHz} \end{array}$ <p>where <math>P</math> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <math>d</math> is the recommended separation distance in metres.</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,<sup>(a)</sup> should be less than the compliance level in each frequency range.<sup>(b)</sup></p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 

## 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 Ceiling Lift or Equipment and Systems that are not Life-Supporting

Recommended separation distances between portable and mobile RF communications equipment and the Monarch Ceiling Lift.

The Monarch Ceiling Lift is intended for use in electromagnetic environments in which radiated RF disturbances are controlled. The customer or the user of the lift can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communication equipment (transmitters) and the ceiling lift 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.

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**Authorized Savaria Dealer**

# **Savaria FL Fixed Ceiling Lift OWNER'S MANUAL**

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

DEALER NAME: \_\_\_\_\_

DEALER PHONE: \_\_\_\_\_

