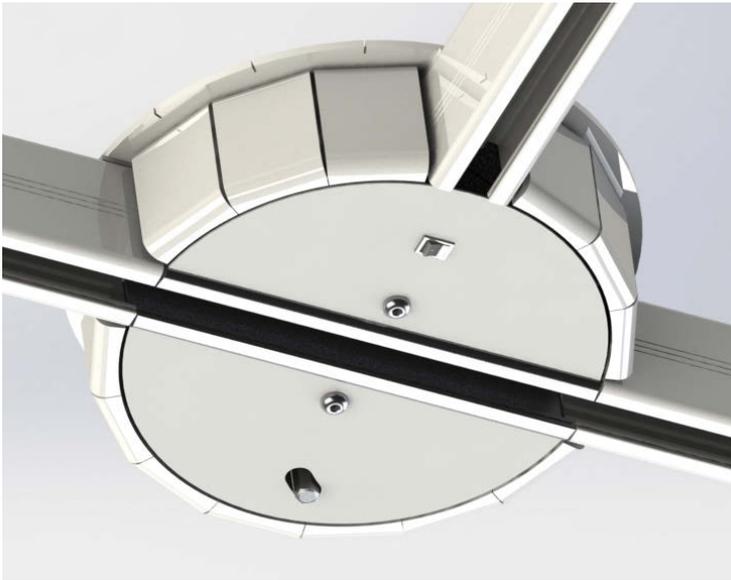


Savaria
Ceiling Lift
Track Turntable

**OWNER'S
MANUAL**



IMPORTANT

Be sure to read this entire manual before using the Ceiling Lift Track Turntable. 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 turntable. 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 turntable 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 turntable. 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 turntable by an Authorized Savaria Dealer to ensure safety and proper operation of the turntable. Refer to the *Maintenance* section in this manual.

Legal Manufacturer:

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

European Representative:

Silvalea Ltd
Units 1-4, 7 & 12 Silverhills Building,
Silverhills Road,
Decoy Industrial Estate,
Devon, TQ12 5LZ, UK

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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.

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	5
Intended Use	5
Product Life	5
Using This Manual	5
2. SAFETY INSTRUCTIONS	6
To Ensure Safety	6
Battery and Charger Safety	7
Shock Prevention	7
3. DESCRIPTION	8
Exterior View	8
Device Controls	9
Charger	9
Symbols	10
4. SPECIFICATIONS	12
Dimensions	13
5. USING THE TURNTABLE	14
Before Transfer	14
Using the Turntable	15
Emergency Release	15
6. MAINTENANCE	16
Operator Maintenance Schedule	16
Dealer Maintenance Schedule	17
Inspection and Cleaning	19
7. TROUBLESHOOTING	20
8. ELECTROMAGNETIC COMPATIBILITY	21
Electromagnetic Compliance	21
Electromagnetic Immunity	22

1. OVERVIEW

Intended Use

The Track Turntable is designed for use by caregivers and health care professionals to connect two crossing track routes together, thus allowing the portable or fixed ceiling lift to move freely between both track routes in a homecare, assisted-living or hospital environment. Transfer must be performed by a qualified operator.

Product Life

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

2. SAFETY INSTRUCTIONS

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



WARNING

Do NOT use the track turntable 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 or hand control cable.

To Ensure Safety

- The track turntable has a safe working load of 272 kg (600 lb). Do NOT exceed this load. Refer to the nameplate tag for the Maximum Load allowed.
- Ensure the track turntable is installed only with a Savaria ceiling track system and used only with Savaria ceiling lifts.
- The track turntable and track system must be installed by a trained and Authorized Savaria Dealer.
- Operators must be fully trained before using the lift and turntable.
- Take care to avoid impact during transfer.
- Keep all components of the device clean and dry.
- 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.

Shock Prevention

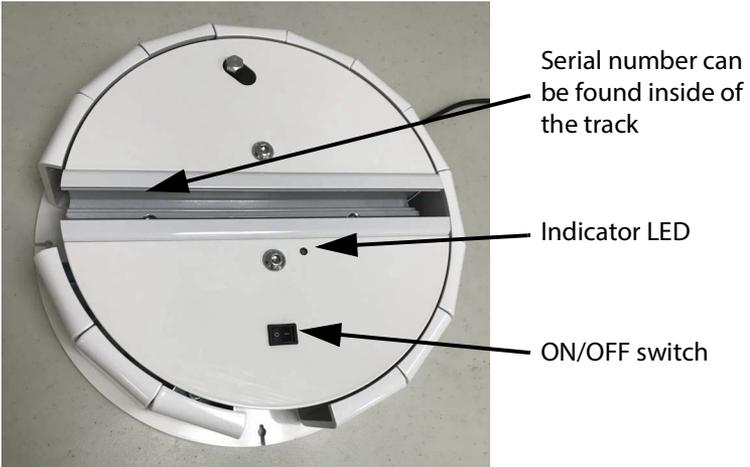
- Do NOT touch or use the device if you notice any exposed or damaged wires.
- Do NOT expose electrical parts of the device to water or moisture.
- Do NOT attempt to use the charger in an area that has a different voltage and frequency requirement other than that specified on the nameplate.
- Do NOT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

3. DESCRIPTION

Exterior View

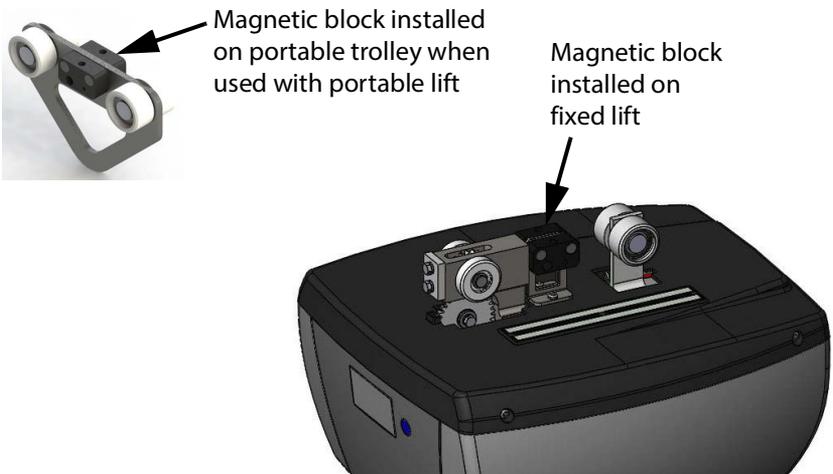
The image below shows the turntable uninstalled, sitting on a table.

Figure 1



Note that the turntable will only work with devices equipped with a magnetic block as shown below. For magnetic block installation, refer to the Track Installation section in the Track Installation Guide (001076).

Figure 2



Device Controls

Indicator	Meaning
Green (solid)	Device is powered on and ready.
Green (flashing + audible beep every minute)	Battery is not properly connected with the charger. The charger may simply be unplugged from the power outlet.
Amber (solid)	Device is ready and charging.
Amber (flashing)	Error (low battery, over current, operation timeout, etc.). The turntable needs to be turned off and the problem investigated by a technician to find the root cause.

Charger

The turntable is supplied with a battery charger as shown below.

Figure 3



LED Description

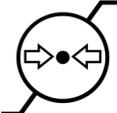
Solid green: power on but not charging.

Solid amber -OR- solid red: charging batteries.

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
	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 93/42/EEC
	Indicates the product was certified by third-party "QPS"
	Indicates the product complies with the directive 2011/65/EC (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
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) 10988503001006	Unique Device Identification (UDI) symbol required by the FDA
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

Product	
Product Weight	16.3 kg (36 lb)
Product Life	10 years
Safe Working Load (SWL)	272 kg (600 lb)
Water Ingress Protection Rating of Device	IP21
Noise Level	Maximum 54 dBA
Medical Electrical Equipment Class	Class 1
Protection Class	Type BF
Power Source	
Input	100-240 VAC, 50-60Hz
Output	29.4 VDC, max 1A
Battery	Battery type: Lithium Ion, 25.2V, 2500mAh
Environmental Conditions	
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
WARNING: This equipment is not suitable in the presence of flammable anesthetic mixtures with air or oxygen, or with nitrous oxide.	
Controls	
Control	Lift presence detected by magnetic sensor
Certification	
IEC 60601-1:2005 A1:2012 (Medical Electrical Equipment)	
IEC 60601-1-11:2015 (Homecare)	
ISO 10535:2006	
CAN/CSA Z10535.1:15	

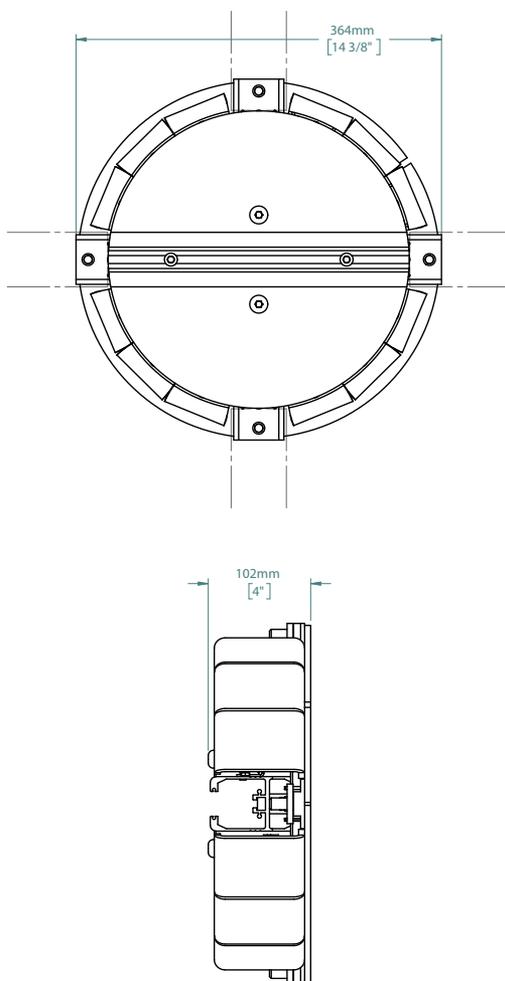
Compliance

CE Marking per 93/42/EEC (Medical Device)

2006/42/EC (Machinery Directive)

2011/65/EU (ROHS - 100% of components)

2002/96/EC (WEEE)

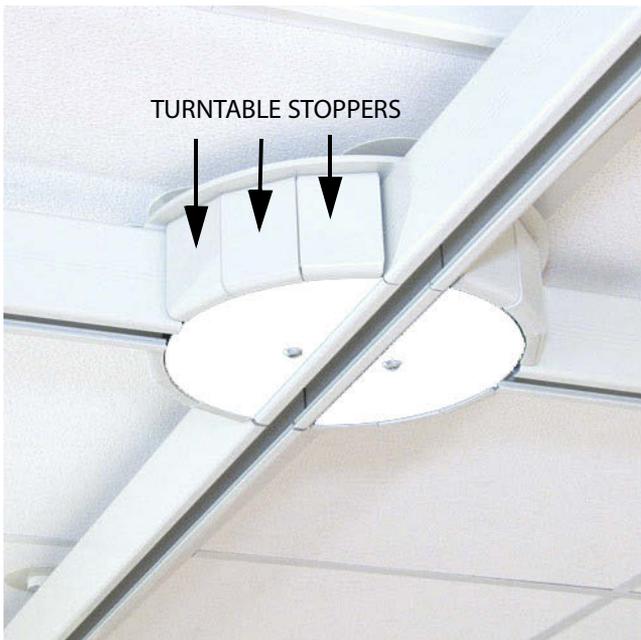
Dimensions

5. USING THE TURNTABLE

Before Transfer

- Ensure the track end stops and turntable stoppers are securely in place as shown below.
- Ensure that all positions in the turntable are either filled with a stopper or a track to prevent the trolley/lift from going out of the track system.

Figure 4



Using the Turntable

- 1 Move the ceiling lift inside the turntable.
- 2 You will hear a beep confirming that the lift is positioned correctly.
- 3 After approximately two seconds, the turntable will automatically rotate to its second position.
- 4 Move the lift out of the turntable into the track.
- 5 Repeat the above instructions to return to the first track route.



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



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

Emergency Release

In the unlikely event of turntable failure while the lift is in the turntable, you can use the emergency release mechanism to manually operate the turntable to align with an output track, therefore allowing the lift to move out of the turntable.

Figure 5



ARROW INDICATES DIRECTION OF EMERGENCY RELEASE (use 1/2" or 13 mm socket key)

6. MAINTENANCE

The turntable 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 schedule 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.

Operator Check/Action	Frequency
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 turntable stoppers and half round covers are all securely in place	Before every use
Clean the outside of the turntable	Every 4 months

Dealer Maintenance Schedule

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

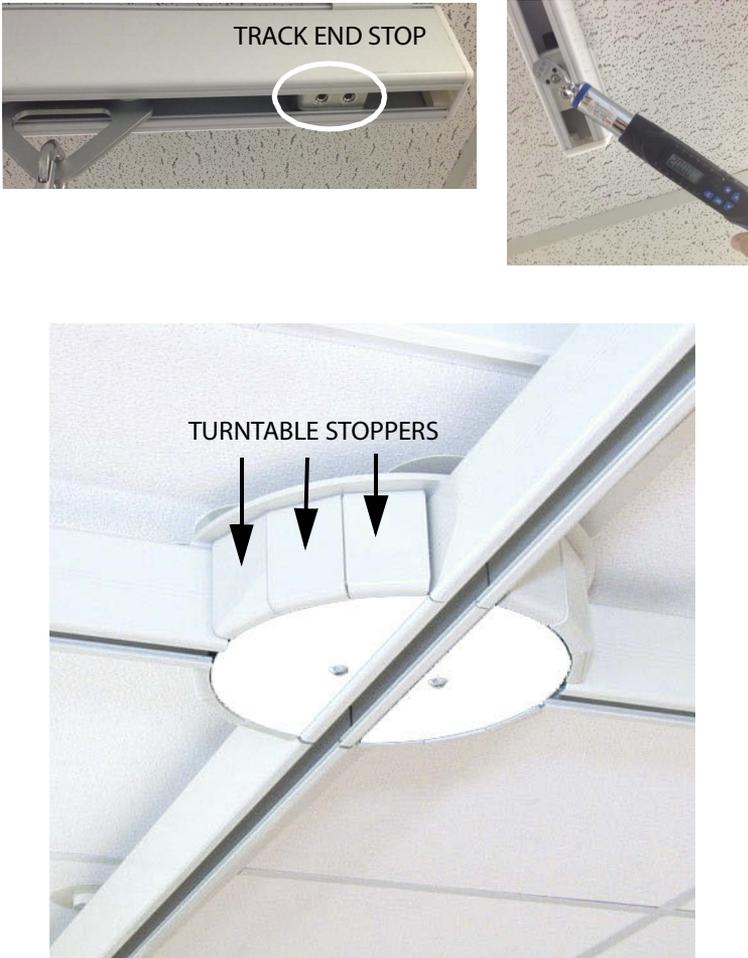
Dealer Check/Action	Frequency
Check all inside hardware to ensure it is properly tightened	Every year
Check the connection points of the tracks to the turntable	Every year
Check the wiring and connectors for proper connection	Every year
Perform a load test on the turntable and track system with the Safe Working Load	Every year



DANGER

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 and turntable stoppers if they were removed for servicing. Note that the recommended tightening torque for the track end stop is 20 N-m (15 lb-ft). Figure 5 on the next page shows the track end stop and the turntable stoppers.

Figure 6

Ensure that all positions in the turntable are either filled with a stopper or a track to prevent the trolley/lift from going out of the track system.

Inspection and Cleaning

To clean the turntable, 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 turntable 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.



WARNING

Do NOT open the turntable cover. 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.

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.

7. TROUBLESHOOTING



WARNING

Do NOT open the turntable 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.	Verify the connection from the power outlet to the power source, and then to the turntable. If the problem persists and the turntable still does not operate, contact your Authorized Savaria Dealer for service.
Turntable doesn't beep or turn.	Make sure the power switch is in the ON position. Ensure the charger is plugged into the power outlet and connected to the turntable.
Turntable emits a beep every few seconds.	Verify the charger is properly plugged into the power outlet, the power outlet is energized and the charger is properly plugged in to the turntable.

8. ELECTROMAGNETIC COMPATIBILITY

Electromagnetic Compliance

The turntable 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 turntable, 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 turntable is intended for use in the electromagnetic environment specified below.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The turntable 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 turntable 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 turntable 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: <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 turntable 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, 1 KHz, 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 turntable, 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 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.</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> 

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

(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 Turntable or Equipment and Systems that are not Life-Supporting

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

The turntable is intended for use in electromagnetic environments in which radiated RF disturbances are controlled. The customer or the user of the turntable can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communication equipment (transmitters) and the turntable 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	80 MHz to 800 MHz	800 MHz to 2.5 GHz
	$d = \left[\frac{3.5}{3} \right] \sqrt{P}$	$d = \left[\frac{3.5}{10} \right] \sqrt{P}$	$d = \left[\frac{7}{10} \right] \sqrt{P}$
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.

Authorized Savaria Dealer

Ceiling Lift Track Turntable OWNER'S MANUAL

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2 Walker Drive
Brampton, Ontario, L6T 5E1, Canada
www.savaria.com

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

DEALER NAME: _____

DEALER PHONE: _____

