Savaria® Luma

Through-floor lift

OWNER'S MANUAL

savaria®

IMPORTANT

Ensure that only an authorized Savaria® Dealer installs and services the Savaria Luma through-floor lift. Under no circumstances is anyone other than a dealer with Savaria training and authorization to install, adjust, service or modify any mechanical or electrical device on this equipment. Failure to follow this warning can result in safety system compromises or defeat; this can result in serious injury or death. Savaria accepts no liability for property damage, warranty claims or personal injury, including death, in this circumstance.

Passenger safety is the result of countless details in the equipment's design, manufacture, and installation. After installation, reliable operation and continual safe operation requires regular service and inspection at least twice per year, or more frequently where usage, environment, or local jurisdiction requires. As the Owner, you are responsible for ensuring that regular service and inspections occur in a timely manner.

Refer to this manual for specifications, operating instructions and maintenance of the Savaria Luma through-floor lift.

Upon completion of installation, the dealer must provide you with the following information and ensure it is recorded in this manual. In addition, either the dealer or you must keep any service and/or maintenance records in the Maintenance Record section of this manual.

WARRANTY

Ensure your Savaria Dealer provides you with a copy of the manufacturer's limited parts warranty and documentation relating to any Dealer labour warranty.

FOR OWNER'S RECORDS

Customer Name: _____

Installing Dealer: _____

Dealer's Telephone Number: _____

Date Installed: _____

Serial/Job Number: _____

CONTENTS

1. SAFETY INSTRUCTIONS

To ensure safe operation of this unit, pay careful attention to the important notes below.

To Ensure Safety

- Read this manual carefully before using the equipment.
- To prevent accidents, adhere strictly to the instructions and keep clear of moving parts at all times.
- Follow instructions on all equipment labels at all times. Replace any damaged labels immediately.
- Ensure that only qualified personnel perform maintenance and service on the unit.
- When replacing parts, be sure that only genuine Savaria parts are used.
- This unit is intended for use by a mature person who understands its proper operation as set out in this manual.

⚠ WARNING

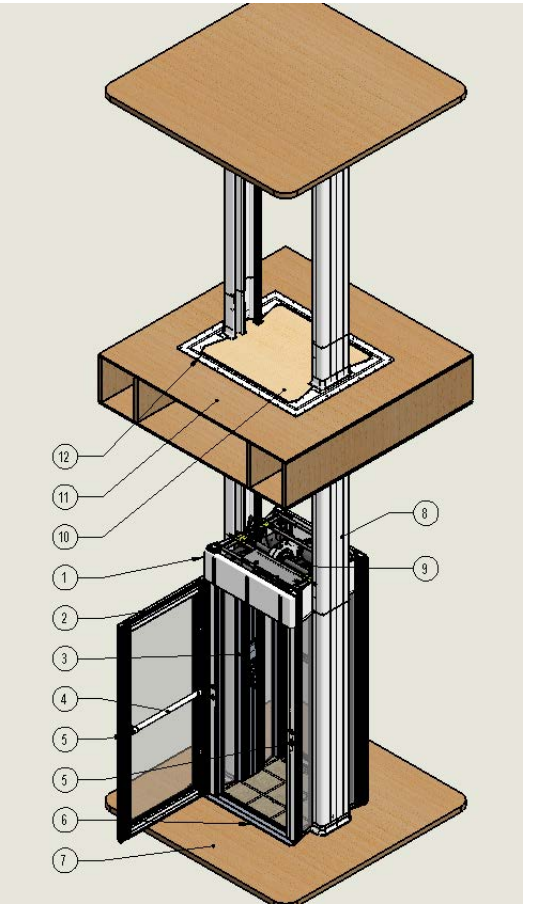
At no time should children under the age of 16 use the lift while unsupervised.

- This lift is to be used ONLY for the transport of a person up/down the stairway. Do NOT use the lift for any other purpose (such as the transport of items).
- Do NOT use the lift for firefighting purposes or for evacuation during a fire.
- Prior to operation, make sure that all areas in and around the lift are clear of any obstructions.
- Be very careful of others using the stairs while the lift is in operation as there is a potential risk of collision.
- Test your keys and emergency stop button (if equipped) every month.

2. DESCRIPTION

Exterior View

Figure 1



No.	Description	No.	Description
1	Cab	7	First Floor Landing
2	Door	8	Rail
3	Car Operating Panel (COP)	9	Drive Box
4	Handrail	10	Floor Plug
5	Lock Beak	11	Second Landing (Top Landing)
6	Underpan (Safety)	12	Floor Liner

Safety Features

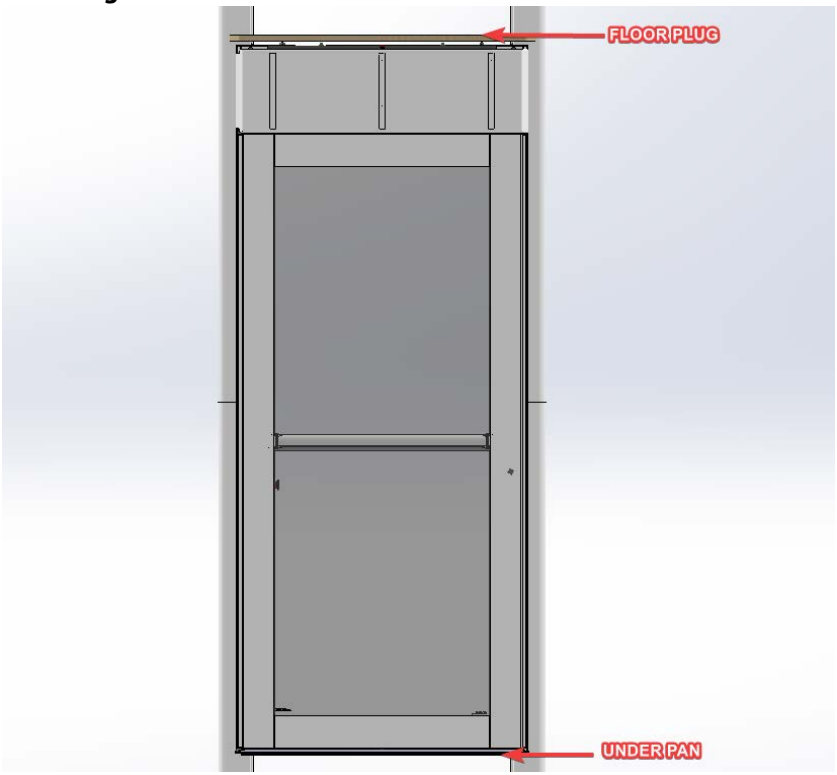
Safety Underpan

The safety underpan is located under the LUMA CAB. The underpan has sensors that detect any obstacles and stop the downward travel of the lift.

Floor Plug Sensors

The floor plug sensors are located on top of the LUMA CAB and will stop the upward travel of the lift if an obstacle that weighs more than 20 lb (9.1 kg) is detected on the floor plug.

Figure 2



Door Lock and Open Door Sensor

The WR-500 lock keeps the cab door locked when the LUAM is in operation or not at a landing. The door open sensor prevents the LUAM from moving when the cab door is open.

Emergency Door Opening

The cab door can be opened using the provided emergency key (two identical emergency keys are included).

To open the door in an emergency, insert the key into the WR-500 lock and turn it.

Note: The key is for emergency use only and should be stored in a safe place.

Figure 3

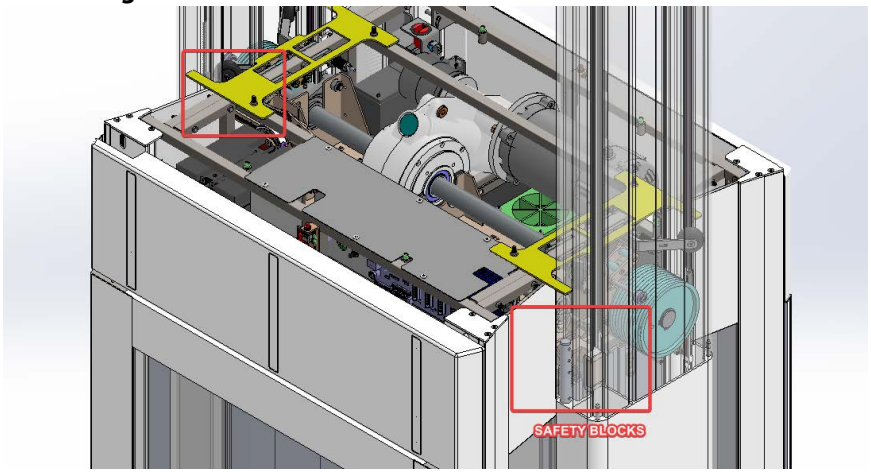
Emergency Lights:

The Luma Cab is equipped with emergency lights connected to a dedicated backup battery. This battery serves as an emergency power reserve shared between the emergency lights and the One Touch Alert phone, providing up to 4 hours of backup power.

Over speed governor (OSG)

Luma CAB is always monitored by an over speed governor through a belt. In the event of the increased speed than the nominal speed the OSG trips and activates the safety Brakes.

Figure 4



3. SPECIFICATIONS

Luma Specifications

Load capacity	180kg (400 lbs)
Nominal speed	0.076 m/s - 15 ft/min
Power supply	100-240 VAC, Single phase, 15A (max)
Drive system	Winding Drum
Operating temperature	-10 C to +35 C
Cab sizes	Type 1: 729 mm x 706 mm (29.1'' x 27.8'') Type 2: 739 mm x 655 mm (29.1'' x 25.8'')
Cab panel finish	Clear Acrylic
Cab Interior Height	2000mm (78.74'') / 1905 mm (75'')
Cab Floor Area	Cab Floor area: 0.57m^2 (890 in^2)
Maximum travel	4200 mm (165.35'')
Distance between 2 landings	300 mm (11.8'')
Noise Level (Typical Installation)	55 db
Daily Cycle	40
Levels Serviced	2
Overhead Clearance (Minimum) for 2000 mm cab	2402 mm (94.5'')
Overhead Clearance (Minimum) for 1905 mm cab	2307 mm (90.8'')
Minimum Lower ceiling height (2000mm cab)	2099 mm (82.64'')
Minimum Lower ceiling height (1905mm cab)	2004 mm (78.9'')
Max distance from lower landing to top ceiling(2000 mm Cab)	6601 mm (259.9'')
Max distance from lower landing to top ceiling (1905 mm Cab)	6505 mm (256.14'')

Floor Thickness	MIN - 200mm (7.8") MAX - 360mm (14.17")
Control system	Universal Vertical Controller
Compliance	ASME 17.1, EN 81-41
Safety feature	Overspeed Slack rope Manual lowering E-stop Top & Bottom safety pans
Phone System	One Touch Alert
Options	Type 1&2 Standard Height Lower height

4. USING THE DEVICE

Operating Luma


Figure 5

1 Pressing the Up/Down button on the remote provided on each landing, bring the lift to your current position. If the cab is in second landing, press the down button from first floor to bring the cab to the first landing.

NOTE: *The lift operates on constant pressure controls, meaning the button must be pressed and held continuously until the desired floor is reached. The lift will stop automatically at the floor level, even if the button is still being pressed.*

2 Once the cab reaches your current position, the door will unlock.

3 Open the cab door and enter the elevator.

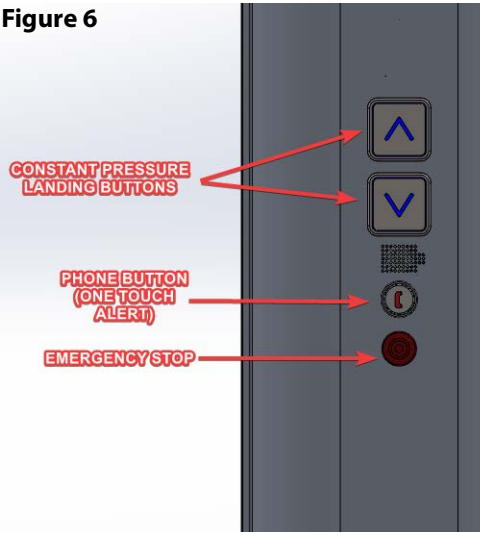
4 Apply constant pressure on the appropriate landing button to move the LUMA in the desired direction.

NOTE: *The LUMA will not move if the door is open and will stop moving in the up direction if the floor plug sensor an object weighing more than 20 lb (9.1 kg) or in the down direction if the underpan sensor detects an object underneath.*

5 Once the cab reaches the landing, the door will unlock for a few seconds, and you can now exit the cab.

NOTE: *If the elevator is at the lower landing and the door is locked, press the down arrow button to unlock and open the door. Similarly, if the elevator is at the upper landing and the door is locked, press the up-arrow button to unlock and open the door. This can be done both from the remote and from the COP (Car Operating Panel).*

Figure 6



One Touch Alert

In case of any emergency press the phone button to get help. One Touch Alert offers a special feature to configure five different contacts in an orderly manner to reach out for help. (Note: Refer the One Touch Alert Manual for configuring the phone numbers)

a. Press and hold the phone button until the illumination starts blinking and hears the call ringing sound. Once the call is connected the illumination becomes solid color. And press the same PHONE button to end the call if needed.

b. Volume of the speaker and microphone sensitive can be adjusted in the Application (Refer One touch Alert for recommended volume and microphone sensitives and how to change)

Emergency Stop Button

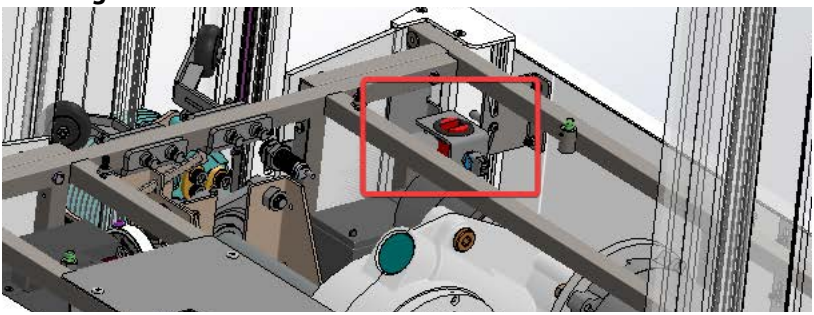
Pressing the red Emergency Stop button during travel will stop the lift immediately and activate the alarm. The Emergency Stop overrides the landing stations (hall calls). Twist the Emergency Stop out to return the lift to normal operation.

Emergency Manual Operation

In case of emergency and the lift couldn't be operated in normal running condition, Savaria's authorized elevator mechanic can bring down the elevator to the nearest landing using the special tool provided in the drive box and a rachet.

NOTE: *This mechanism is for emergency use only.* ***DO NOT*** *leave the area unattended. After use of any emergency function (access key or manual lowering device), ensure that all doors/gates are secure and locked.*

Figure 7



NOTE: *During emergency mode, the lights around the COP and the opposite wall turn off, leaving only the door frame light illuminated.*

Figure 8

5. CLEANING

A. Metal Surfaces

DANGER

Under no circumstances should you ever attempt to remove panels for cleaning!

NOTE

DO NOT use any cleaning product on acrylic that contain ammonia or petroleum. This includes Windex ® and most traditional glass cleaners.

NOTE

DO NOT use window cleaning sprays, kitchen scouring compounds or solvents such as acetone, gasoline, benzene, alcohol, carbon tetrachloride, or lacquer thinner. These can scratch the sheet's surface and/or weaken the sheet causing small surface cracks called "crazing.".

Clean acrylic panels with a mild soap and water solution or with acrylic cleaner (see the list on the next page). A few precautions must be taken to ensure a long operating life and to maintain the acrylic panel clarity on your unit.

Washing (Acrylic Panels)

Wash the acrylic panels with a solution of mild soap or detergent and lukewarm water. Use a clean soft cloth, applying light pressure. Rinse with clean water and dry by blotting with a damp cloth or chamois.

Dusting (Acrylic Panels)

Dust acrylic panels with a soft, damp cloth or chamois. Dry or gritty cloths may cause surface scratches and create a static electric charge on the surface (refer to the section on Neutralizing Static Electricity on the next page).

Polishing (Acrylic Panels)

Protect the acrylic panels and maintain their surface gloss by occasional polishing with a good plastic cleaner and polish (refer to the section on Cleaners for a list of acceptable cleaners and polishes).

Apply a thin, even coat with a soft clean cloth and polish slightly with cotton flannel or a microfiber towel. Then wipe with a damp cloth to help eliminate electrostatic charges that can attract dust particles.

Neutralizing Static Electricity (Acrylic Panels)

NOTE A de-ionizing tool can be used during installation to eliminate a majority of the static electricity (causes the dust to fall away).

NOTE Damage caused by inappropriate cleaners and techniques is not covered under warranty.

A static electrical charge can develop on the acrylic panels during handling and processing. This is not unique to the acrylic panels, but is common to many materials, particularly plastics.

When the paper or film masking is stripped off the acrylic sheet, a static charge is created on the sheet surface. Static electricity attracts dust, chips, etc. floating in the air or on nearby work surfaces and holds these contaminants tightly to the surface. A compressed air gun will remove some of this surface dirt, but much of it continues to cling to the sheet.

Several anti-static cleaners for plastics are also available which will reduce static electricity and dust attraction. Wiping with a soft damp cloth or chamois is all that is necessary to keep the acrylic panels dust-free between applications of these cleaners.

Cleaners

Cleaners which ***MAY BE USED*** for acrylic panels:

- Plexus® (Anti-Static Cleaner)
- Novus® #1 Acrylic Cleaner and Polish
- ATM Mirage Glass and Acrylic Cleaner
- Zep® Commercial Glass Cleaner (must state for use on Plexiglas®)
- Plexi-Clean (Anti-Static Cleaner)
- Prist Aerospace Anti-Static Acrylic, Plastic & Glass Cleaner
- Cleaners which explicitly state “Safe for use with plastics and acrylic”

Cleaners which ***MAY NOT BE USED*** for acrylic panels:

- Windex® Glass Cleaner
- Sprayway Ammonia-Free Glass Cleaner
- Goo-Gone®

These above lists are for reference only and are not comprehensive. If you have any questions about the acceptability of a specific cleaner, please contact your authorized dealer.

6. TROUBLESHOOTING

WARNING

Only qualified technicians are authorized to perform repairs and maintenance. DO NOT manipulate, modify or remove any safety feature of the lift. If any issues persist, please contact your authorized Savaria Dealer

General Troubleshooting

Problem	Action
LUMA goes up but does not come down.	Check the underpan sensor. Pull down on the underpan to ensure the pan is not stuck in the activated position.
LUMA comes down but does not go up.	Check the power supply (breaker, cord, battery, etc.). Check the floor plug switches. Lift the floor plug to ensure it is not stuck in the activated position.
LUMA does not move.	Check that the doors are closed. Check to see if the Emergency Stop is pushed in; it should be pulled out for normal operation. If the Luma is at the bottom landing, check the floor plug switches as described above. If the Luma is at the top landing, check the underpan sensor as described above.

Audible Signals

The Luma lift is equipped with an audible alert system to notify users of specific error conditions through beeping sounds:

Problem	Action
Periodic Beep Every 10 Seconds	Indicates that the Luma lift is not positioned in the charging station and has been left unattended.
Intermittent Beep (6 Cycles)	Triggers when the overload sensor is activated. The lift will emit six intermittent beeps with short pauses in between.
Continuous Beep	Occurs when the Emergency Stop or Alarm button is pressed.

Error Messages

If any of the following error messages appear on the display, please refer to the corresponding corrective actions provided. It is recommended that all corrective measures be performed by a certified technician:

LCD Message	Situation	Corrective Action
Need Pend/Dngl	Pendant or Dongle is missing from CONN 22	Insert Pendant and pull out STOP button OR insert dongle
PitSwth Active	Pit Switch is pressed in	Pull out (or twist) STOP button (to run position)
Final Limit Up	Final Limit UP switch is being activated	Momentarily bypass FLU switch or use pendant to lower unit off switch
Belt Monitor	Belt monitor switch is being activated	Replace broken OSG (or drive) belt
Manual Crank	Manual crank switch is being activated	Replace manual crank adapter, or remove manual crank from slot
Red Timeout	Welded/failed contact has been detected and redundancy timer has been exceeded	Check for any RDC test jumpers installed. If none, replace Power PCB.
Pwr Rly1 Weld	Power Relay 1 has a welded contact	Check for test jumper. If no jumper, replace Power PCB.
Pwr Rly1 Fail	Power Relay 1 failed to energize	Replace Power PCB.
Dwn Rly1 Weld	Down Relay 1 has a welded contact	Check for test jumper. If no jumper, replace Power PCB.
Dwn Rly1 Fail	Down Relay 1 failed to energize	Replace Power PCB.
Up Rly1 Weld	Up Relay 1 has a welded contact	Check for test jumper. If no jumper, replace Power PCB.
Up Rly1 Fail	Up Relay 1 failed to energize	Replace Power PCB.
Car Panel 1	Front access panel has been removed	Replace front access panel to proper position
Car Panel 2	Rear access panel has been removed	Replace rear access panel to proper position

Car FD Unlckd	Car Front Door is unlocked	Ensure door is returned to the closed position, and lock will time out
Car RD Unlckd	Car Rear Door is unlocked	Ensure door is returned to the closed position, and lock will time out
Car Chain 1	Plank switch mechanism has been activated	Using pendant, raise unit to release safeties, and then manually reset the switch
Car EStop 1	Car E-Stop is activated (pressed in)	Restore car E-stop to RUN position
Car Underpan	Floor underpan (or door pan) is being activated	Remove source of blockage underneath the cab/door pan
Car Overpan	Weight is detected on floor plug >9Kg	Remove source of weight from top of floor plug
Car EStop 2	Car Pendant E-Stop is activated (pressed in)	Restore car pendant E-stop to RUN position
Battery Low	Battery is below 20Vdc	Place unit at landing to re-charge batteries
CanBus Fault	Communication error in CanBus system	Check wiring/replace faulty PCB
Overload	Weight on platform exceeds capacity	Remove some weight from car platform
Mains Pwr Low	Main incoming power has been lost	Check fuse/breaker supplying mains power to the unit/charger
Alarm Pressed	Alarm button is activated on COP or car pendant	Release the alarm button
Too many Call	Multiple call buttons pressed at the same time	Only press 1 call button at a time
Engineer Mode	Either one or both of the Bypass switches are in bypass mode	Return the Bypass switches to their normal position

7. MAINTENANCE

Luma 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.

IMPORTANT

Savaria products are only to be installed, adjusted, serviced, or maintained by Savaria licensed dealers and technicians. Your Savaria product will have the warranty voided if a non-Savaria approved technician performs work on the Savaria product.

For units with high or excessive daily cycles, outdoor use, or use in harsh environments, inspection and maintenance should be conducted more frequently to ensure optimal performance.

1. Inside Cab

*Minimum once a year is required

Verification by technician		Frequency
Cab Interior	Examine the cab interior for damage including the ceiling, handrails, door panels, lighting and floor. Tighten all fasteners in the car panel and replace as needed.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Cab controls and panel	Examine the condition of the car control panels and check the operation of all LED light strips. Replace all burnt out light strips.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Leveling, stop, acceleration and deceleration	Run the car to each floor in both directions to observe the leveling accuracy, stopping, acceleration and deceleration. Adjust as needed.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Cab door operation	Observe the door for proper operation including smooth movement, starts and stops, and alignment.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Ride floor to floor	Run the car from floor to floor and observe for smooth travel and unusual noises. Adjust or repair as needed.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Cab lights and ventilation	Verify proper operation of the car emergency light and ensure adequate ventilation.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months

2. Outside Cab

*Minimum once a year is required

Verification by technician		Frequency
Remote on Landings	Examine the remotes for any physical damage and check if the Up and Down button works properly. Check the battery level and replace if needed	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Doors	Examine the door panel and clearance between the cab. Examine proper interlock functionality and operation. Adjust as needed.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Unlocking device	Examine the cab door unlocking device for damage. Repair or adjust as needed.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months

3. Drive Box

*Minimum once a year is required

Verification by technician		Frequency
Drive box	Drive box should be free from dust and debris. Dust the interior and exterior of the box.	Every 6 months
Batteries	Verify Battery disconnect switch. When active, no power is supplied to the drive system	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Controller	Examine the controller for: - Cleanliness - Condition of contacts and remaining contact material - Fuses for correct size and fit in holders and corrosion in fuse holder - Relays for worn shunts and signs of overheating - Evidence of overheating	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Cab Safety Block Guide Shoes	Check the thickness of the safety block guide shoe on both sides	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months

4. Top of Cab

*Minimum once a year is require

Verification by technician		Frequency
Batteries	Examine the battery output voltage to check the battery is healthy. Replace if necessary	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Guide rails	Examine the car rails for loose fastenings and fit at all joints.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Traveling cable	Examine the traveling cables for wear, chafing, kinking and alignment. Examine the attachment points for secure fastening and looseness.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Doors, hangers and locks	- Verify the interlock is functioning properly. - With the door open, attempt to move the cab using the hall call and COP buttons. - Observe the door closing for any roughness in bearings, inconsistent operation, or misalignment	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Examine the ropes	Examine the cab ropes for equal tension, and visually inspect for any frays or deformation of the ropes which would negatively impact their strength.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months

5. Overspeed

*Minimum once a year is required

Verification by technician		Frequency
Overspeed belt	Make sure the overspeed belt is in good condition and that it has no frays or cuts. Check that the ends are secure.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months
Overspeed system	Check for any signs of wear in the overspeed system. Remove any dust or dirt from the belt and pulleys. Do not use harsh chemicals on the overspeed components; use only mild detergents.	**Normal:** Once a Year **Heavy:** Once a Year **Excessive:** Every 6 months

6. Brakes

*Minimum once a year is required

Verification by technician		**Frequency**
Safety brakes and motor brake	Verify proper operation of the safety brakes and the motor brake. Check with full load **every 12 months**.	**Normal:** Once a Year **Heavy:** Every Year **Excessive:** Every 6 months

Maintenance Record

Date	Time	Reason for call	Comments	Dealer

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Owner's Manual

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

Dealer Name: _____

Dealer Phone: _____

Authorized Savaria Dealer

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

savaria.com

Part No. 001561 Rev. 000