Savaria®
Luma L

Through-floor lift

OWNER'S MANUAL

savaria®

IMPORTANT

Ensure that only an authorized Savaria® Dealer installs and services the Savaria Luma L 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 L through-floor lift.

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

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

Customer Name: _____

Installing Dealer: _____

Dealer's Telephone Number: _____

Date Installed: _____

Serial/Job Number: _____

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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.

> **WARNING**
>
> At no time should people under the age of 16 use the lift while unsupervised

- 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.
- Test the two-way communication every month.
- Every 6 months, trained personnel should test the emergency stop button.

2. PRODUCT ELEMENTS DIAGRAM

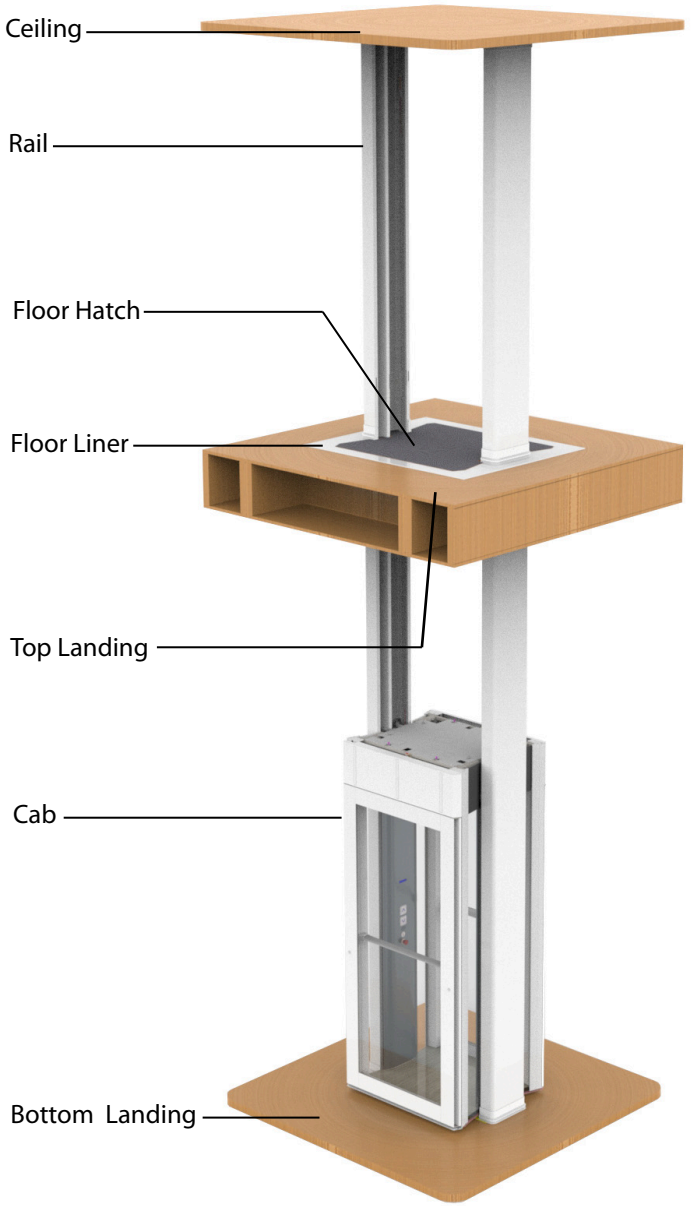

Figure 1: Luma L Lift Diagram

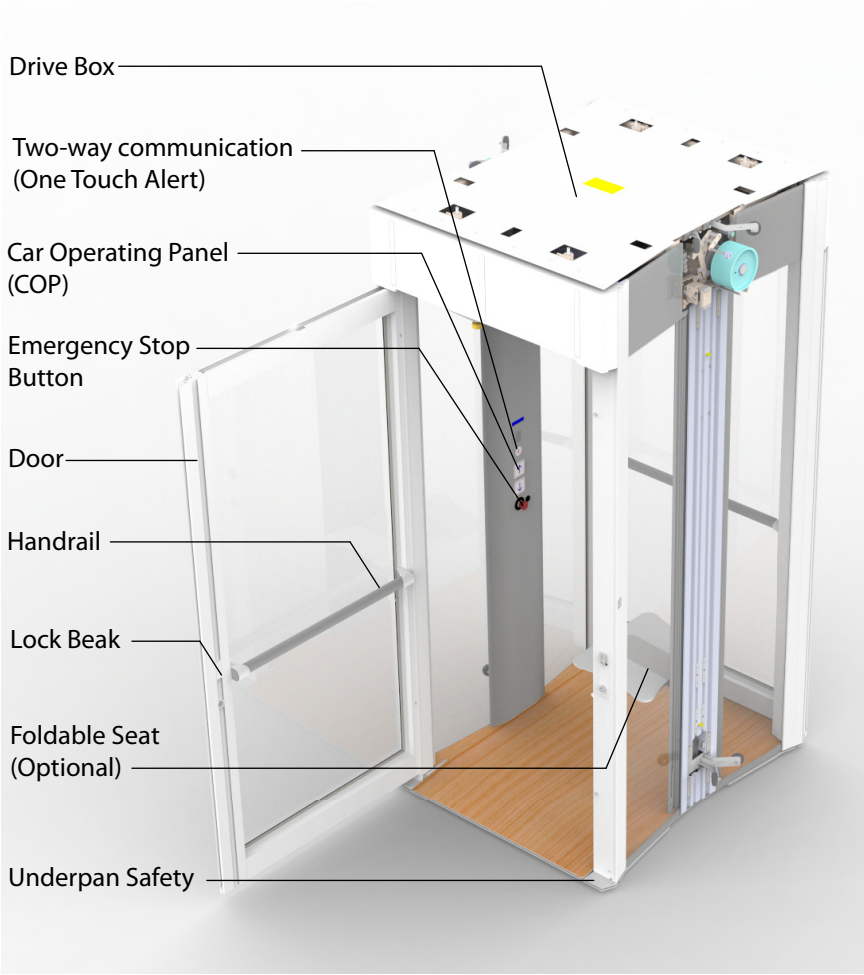

Figure 2: Luma L Cab View

3. SAFETY FEATURES

Underpan

Prevents the unit from moving down if it encounters an obstacle with a force of 1.9 kgf (4.1 lbf).

Hatch Cover

Prevents the unit from moving up if a weight of 20 lb (9.1 kg) or more is placed on the hatch.

Cab Door Interlock

Locks the cab door when the unit is in motion and prevents operation when the door is open.

Emergency Key

Allows for manual door opening from the outside in the event of an emergency.

Emergency Power

In the event of power failure, the emergency power system runs independently from the main battery, ensuring the cab lights and two-way communication remain functional for up to 4 hours.

Overspeed Protection

Mechanical system that stops the unit in case of overspeed.

Two-way Communication (One Touch Alert)

Allows for emergency calls to preset phone numbers. Refer to the One Touch Alert manual

Emergency Stop Button/Alarm

Stops the unit immediately when pressed and sounds an alarm.

Manual Lowering

In the event of failure, this device allows trained emergency personnel to manually lower the unit.

Emergency Opening from the Inside

In case of emergency, allows the user to manually open the door from inside the cab.

4. TECHNICAL SPECIFICATIONS

Specification	Specification Data
Load capacity	Europe - 250kg North America- 500 lbs
Nominal speed	0.1 m/s (20 ft/min)
Power supply	110-240 VAC, Single phase, 5A, 24 VDC Motor (Battery Operated)
Drive system	Winding Drum
Operating temperature	+10 C to +35 C
Batteries	2x, 12VDC, 28 Ah 3x, 12 VDC, 4Ah
Charging	Charge stations positioned at the top and bottom landing
Internal Cab dimensions	1200 mm x 800mm (47 1/4" X 31 1/2")
Cab panel finish	Clear Acrylic
Cab interior height	Standard - 2000 mm (78 3/4") Short Cab - 1905 mm (75")
Cab floor area	1.08 m^2 (1677 in^2)
Maximum travel	4200 mm (165 5/16")
Noise level (Typical installation)	60 db (Average inside cab)
Daily cycle	10 starts per hour (5 round trips) 30 starts per day(15 round trips)
Levels serviced	2
Control system	Savaria Universal Vertical Controller
Compliance	ASME 17.1,CSA B44, EN 81-41
Phone system	One Touch Alert GSM Based (SIM card by others) - Supported: 4G LTE / Volte nano sim - Not supported: 5G, E-sim
Remote diagnostic tool	Savaria Link (Optional, Wi-Fi Connection required) **NOTE:** For Dealer Usage Only
Options	Standard (2000 mm (78 3/4") Short Cab (1905 mm (75") Luma seat (100 kg max) Power Door Operator

5. USING THE DEVICE

Operating Luma L

Luma L operates on constant pressure controls. Call buttons 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.

Figure 3: Remote

1 If the lift is not at your current floor, press the Up or Down button on one of the provided remotes.

- Press the Down button to bring it to the bottom landing
- Press the Up button to bring it to the top landing.

The door will unlock once the cab reaches the desired landing.

2 If the lift is already at your current floor, the door can be opened using the door sensor (Figure 4), located on the lock side of the door.

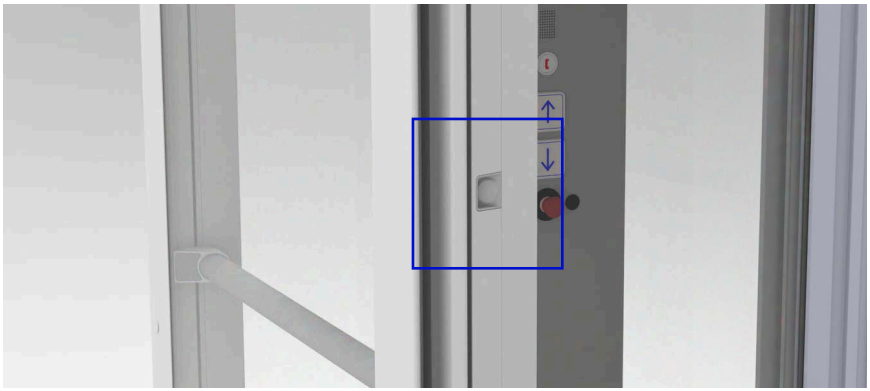

Figure 4: Door Sensor

NOTICE

If the lift is installed with a door operator (optional, Figure 5), stand clear after using the door sensor to allow the door to open safely.

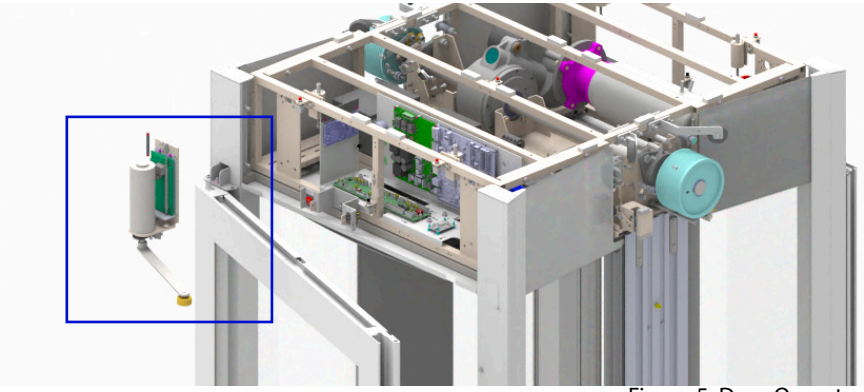

Figure 5: Door Operator

3 Once the door opens, enter the cab. The door will close automatically behind you.

4 If required, manually unfold the seat (Figure 6).

Figure 6: Luma L Seat

5 Apply constant pressure on the appropriate landing button to move the Luma L in the desired direction (Figure 7). The Luma L will not move if any of the three conditions are present:

- If the door is open
- If an object 20 lbs or more is detected on the floor hatch while moving up
- Coming in contact with any obstacle while moving down

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

- If a door operator (Figure 5) is installed, the door will open automatically.

> **NOTICE**
> If the lift door closes before you can exit, press the landing buttons. At the lower landing, press the down arrow button to unlock and at top landing, press the up-arrow button to unlock and open the door.

Figure 7: COP

Battery Charging and Status Indication

Luma L is a battery-operated lift designed with charging stations installed at both landings. These stations function as docking points to recharge the lift's batteries when the unit is correctly parked.

If the lift is not properly positioned at a charging station, an audible alert will sound—a periodic beep every 10 seconds—to indicate that charging is not in progress.

Charger Status Indicators:
The status of the charger can be visually verified through the indicator lights on the charger unit (Figure 6):

- Solid Green Light – Indicates that the batteries are fully charged.
- Solid Orange Light – Indicates that the batteries are currently charging.

Figure 8: Battery Charger

6. EMERGENCY OPERATION

Two-way Communication (One Touch Alert)

One Touch Alert offers a special feature to configure five different contacts in an orderly manner to reach out for help. Refer to the One Touch Alert manual for operation.

Press and hold the One Touch Alert button (Figure 5) until it starts blinking. You will hear an audible ringback tone (the sound a caller hears, indicating that the call has reach the recipient's network and is alerting their device (i.e. it's ringing). Once the call is connected, the button will stop blinking and display a steady illumination. Press the same phone button to end the call if needed.

- If there is only one number programmed, the button must be repressed.
- To call the next preset number, press and hold the button until the call to the next number is initiated.
- You can adjust the speaker volume and microphone sensitivity in the application settings

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/remotes). Twist the Emergency Stop out to return the lift to normal operation.

Emergency Key

An emergency key is provided to allow the door to be opened from the outside.

To use, insert the key into the slot (Figure 7). Once inserted fully, turn the key clockwise and pull the door open at the same time.

Figure 9: Emergency Key in use

WARNING

Never leave the emergency key in the door. The emergency key must be stored in a easily accessible and secure location,

Emergency Manual Operation

If the unit cannot be operated in normal mode and is unresponsive, trained emergency personnel can manually operate the lift by the following steps:

> **DANGER**
>
> This mechanism is for emergency use only, by trained personnel. 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.

1 **Access the Floor Hatch:**

If the lift is stalled between floors, begin by removing the floor hatch. Gently raise the hatch and tilt it at an angle to release it from its position.

2 **Access the Drive Box:**

Once the floor hatch is removed—or if the lift is positioned below the floor liner with sufficient space to access the drive box—proceed to remove the drive box top cover by unscrewing the mounting screws (Figure 8).

3 **Disconnect Controller and Drive Power:**

Turn off the controller switch (Figure 8). Then locate and remove the special socket from the drive box (Figure 9).

4 **Engage the Manual Lowering Mechanism:**

Insert the provided ratchet tool along with the special socket into the motor shaft securely (Figure 10).

5 **Lower the Lift:**

Rotate the ratchet in a counterclockwise direction to manually lower the lift to the desired floor level.

6 **Position for Safe Evacuation:**

Continue lowering the lift until it reaches the bottom landing, where passengers can safely and easily be evacuated.

7 **Open the Landing Door:**

Use the designated emergency key to manually unlock and open the landing door for passenger evacuation.

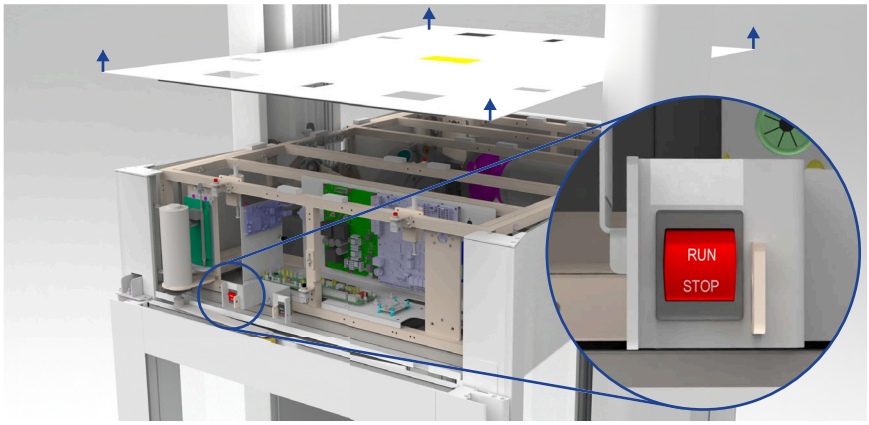

Figure 10: Top cover and controller switch

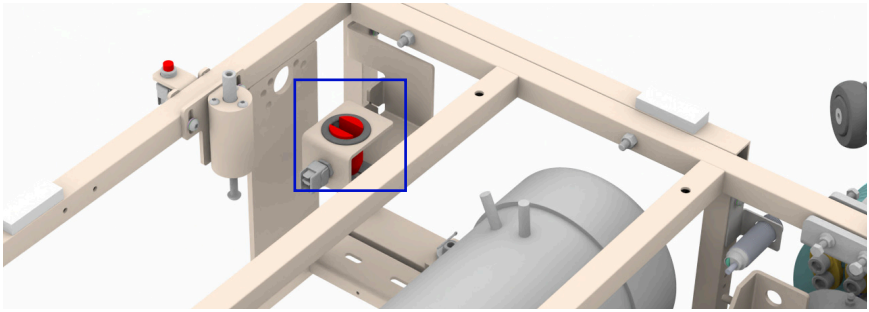

Figure 11: Manual Lowering Socket

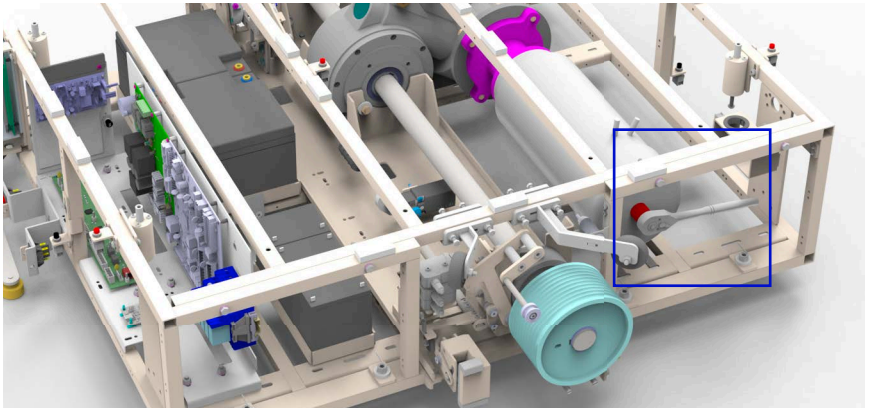

Figure 12: Manual Lowering Ratchet

Emergency Opening from the Inside

In the event the lift does not run in either direction while at a landing, Luma allows for the cab door to be opened from the inside.

1 Retrieve the tool with your hand, located at the bottom on the panel opposite of the COP (Figure 11).

Figure 13: Emergency key behind inside panel

2 Insert the tool through the hole located on the side of the door interlock (Figure 12).

Figure 14: Inside access to emergency opening

3 Push the tool upwards while simultaneously pushing the door outward until it opens.

7. CLEANING

A. Metal Surfaces

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

B. Acrylic Surfaces

A few precautions must be taken to maintain the acrylic panel clarity.

Clean acrylic panels with a mild soap and water solution or with an acrylic cleaner. Use a microfiber cloth to clean and dry the acrylic panels. **DO NOT use any cleaning product on acrylic that contain ammonia, acetone, gasoline, benzene, alcohol, carbon tetrachloride, or lacquer thinner or petroleum.** Damage caused by inappropriate cleaners and techniques is not covered under warranty.

> **NOTICE**
>
> A deionizing tool can be used during installation to eliminate a majority of the static electricity (causes the dust to fall away).

Cleaners

Recommended Cleaners:

- 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 & GlassCleaner
- Cleaners which explicitly state “Safe for use with plastics and acrylic”

> **WARNING**
>
> Cleaners which ***MUST 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.

8. TROUBLESHOOTING

IMPORTANT

Only trained 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
Travels in the up direction, but does not travel down.	Check for any obstacles under the lift. Remove if any are present If no obstacle is present, use a long object (i.e. a broom) to push the underpan plate, ensuring the pan is not stuck in the activated position of the sensor
Travels in downward direction, but does not travel up.	Check the display for low battery conditions. Check the floor hatch switches. Check for any obstructions on the floor hatch Check floor hatch switches are not stuck in activated position
Luma does not move.	Check to ensure the cab door(s) are closed. Check display for low battery conditions Check to see if the Emergency Stop is pushed in; it should be out for normal operation.

Audible Signals

The Luma L 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.
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	Action
CAR_FRONT_DOOR_UNLOCKED	Car Front Door is unlocked	Ensure the door is closed with no obstruction & check display for any error message.
CAR_REAR_DOOR_UNLOCKED	Car Rear Door is unlocked	Ensure the door is closed with no obstruction & check display for any error message.
CAR_ESTOP_1	Car E-Stop is activated (pressed in)	Turn clockwise to release, button should reset to run position.
CAR_UNDERPAN	Floor underpan (or door pan) is being activated	• Run the lift up to top landing and check for obstructions underneath • Check for any damage to the underpan.
CAR_OVERPAN	Weight is detected on floor plug >9Kg	• Run the lift down to rest floor hatch on floor liner. • Check for car top alignment.
BATTERY_LOW	Battery is below 20Vdc	Run down to bottom landing for charging the battery.
MAINS_PWR_LOW	Main incoming power has been lost	• Check the main fuse panel • Check that the charger is plugged into the wall receptacle. • Verify the charging LED is illuminated green/orange.

9. MAINTENANCE

Luma L is subject to wear and tear from use. You must perform the checks and actions in the following tables **at minimum, once a year**, to ensure safety and proper operation.

> **IMPORTANT**
>
> Savaria products are only to be installed, adjusted, serviced, or maintained by authorized Savaria dealers. Your Savaria product warranty will become void if serviced by an unauthorized Savaria dealer.

Verification	
Main Batteries Test	• Ensure the main batteries are fully charged. • Disconnect the charger from the power source. • Confirm the lift can complete five full trips. • Replace the batteries if it fails to complete five trips.
Auxiliary Batteries	• Verify that the batteries voltage is at least 24 VDC. • Remove one fuse from the main batteries. • Confirm that the emergency light and phone remain operational.
Rails – Bottom Plate Nuts	• Check that all four nuts on the rail bottom plate are tightened securely. • Inspect for any play or movement in the plates and correct as needed.
Rails – Floor Attachment	Ensure the connection between the rails and the floor liner is firm and secure.
Rails – Ceiling Attachment	Confirm that the connection between the ceiling plate and the ceiling is solid and properly fastened.
Overspeed Belt	• Inspect the overspeed belt for signs of wear, fraying, or cuts. • Confirm both belt ends are securely fastened.
Slack Rope Mechanism	Check springs and rollers for signs of wear or damage.
Safety Block Shoes	Measure and verify the thickness of the guide shoes on both sides of the safety block.

Verification	
Safety Brake Test	Perform a safety brake test according to the installation manual.
Drive Ropes	• Inspect ropes for even tension. • Look for fraying, deformation, or other signs of wear that could affect strength.
Rope Connections – Ceiling Plate	• Check rope terminations at the ceiling plate. • Verify all pins are secured and there are no signs of damage or deformation.
Underpan Functionality	Activate the underpan at multiple points while the lift travels downward to ensure functionality. Lift must stop when underpan is pushed.
Hatch Floor Functionality	Place a 20 lbf (9.1 kg) weight on any point of the floor hatch. Push the up-button and confirm the lift doesn't move upward.
COP (Car Operating Panel) Functionality	• Test up and down buttons. • Confirm the Emergency Stop (E-stop) prevents lift movement from both hall call and cab controls. • Verify that the alarm activates when the E-stop is pressed.
Phone Functionality	Make a test call to ensure the SIM card is active and communication is functioning.
Door Alignment	• Ensure the door(s) close smoothly at both landings. • Adjust interlock beak(s) if necessary. • Ensure unit does not run with the door(s) open.
Emergency Keys	Confirm the location and accessibility of both emergency keys.
Fan and Lighting	Verify the operation of the ventilation fan and all lights.
Noise and Misalignment	Listen for abnormal noises during full travel that could indicate misalignment or mechanical issues.
Charging Strips	• Inspect the charging strips for wear or damage. • Test charging voltage and amperage

Maintenance Record

Date	Time	Reason for call	Comments	Dealer

Savaria® Luma L
Through-floor lift

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.
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Canada

savaria.com

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