



# Vuelift Mini

**Residential  
Elevator**

**Owner's  
Manual**

 **savaria.**

## **IMPORTANT**

Ensure that only an authorized Savaria Dealer installs and services the Vuelift Mini Residential Elevator. 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 Vuelift Mini Residential Elevator.

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: \_\_\_\_\_

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## TO ENSURE SAFE OPERATION



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

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

- 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.
- Be aware of any hazards, such as hall doors, car doors, emergency stops, or timers, especially for small children.
- 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.
- Prior to operation, make sure that:
  - All doors and gates are locked and secure.
  - All areas in and around the lift are clear of any obstructions.
  - All lights are functioning properly.
- Test your keys and emergency stop button every month.

# 1. DESCRIPTION

Figure 1 shows the components of the Vuelift Mini Residential Elevator.

**Figure 1**



## 2. GENERAL SPECIFICATIONS

### Vuelift Mini Specifications

Applied code	ASME 17.1/CSA B44 - Section 5.3
Load capacity	500 lb (227 kg)
Maximum travel	50 ft (15.24 m); 55 ft (16.76 m) where a variance is possible
Travel speed	30 ft/min (0.15 m/s)
Daily cycle	Normal: 40 Heavy: 80 Excessive: 150 Maximum starts in 1 hour on standard installation: 20
Maximum levels serviced	6
Minimum overhead	96 in (2.4 m)
Cab	Cab walls: Full clear acrylic or silica glass Cab interior height: 77.75 in (1.97 m) Cab weight (acrylic models): 550 lb (250 kg) Cab weight (glass models): 1000 lb (455 kg) Cab floor area: 8.25 sq ft (0.76 sq m)
Floor by others (in cab)	1/2 in (12.7 mm) maximum
Footprint	49.75 in (1.26 m) diameter
Acrylic and glass diameter	42.8 in (1.08 m)
Hoistway ring diameter	43.75 in (1.11 m)
Power supply	30A, 230-V, single-phase, 50/60 Hz
Cab lighting	15A, 115V, single-phase, 50/60 Hz
Suspension	Type: Galvanized aircraft cable (2 x 1/4" diameter) Construction: IWRC 7 x 19 RHRL Nominal strength: 7000 lb (3175 kg) Weight of ropes: 0.243 lb/ft (3.616 g/cm) Travel cable weight: 0.228 lb/ft (3.393 g/cm)
Drive train	Type: Winding drum Motor: 1.77 HP (1.32 kW) @ 60 Hz with integrated brake Motor control: Preprogrammed variable frequency drive

Distance between landings	93 in (2362 mm) minimum
Pit depth	Minimum: 3 in (76 mm); 4 in (102 mm) with buffer springs (required if habitable space below) Maximum: 12 in (305 mm)
Temperature operating range	-10 °C to +40 °C (14 °F to 104 °F) NOTE: For optimal running conditions, each landing of the unit should be in a climate-controlled environment.
Safety features	Pit run/stop switch and car top run/stop switch Emergency stop switch Safety brakes Overspeed Manual lowering Emergency battery back-up for cab lighting and lowering
Options	Optional configurations: Type 2 cab Optional colors: <ul style="list-style-type: none"> <li>• White (Texture White PX521W859)</li> <li>• Silver (Texture Silver PX521S343)</li> <li>• Custom powder-coat frame</li> </ul> Note that Black is the standard color (Texture Black PX622N365) Savaria Link remote monitoring Pitless option with ramp Sabbath service Flood switch Buffer springs for habitable space below Buck boost transformer Up to 6 stops; balcony attachment or thru-floor configuration Cab shipped disassembled Landing door handle painted to match unit Top header ring in sheet metal painted to match unit

### 3. OPERATION

- 1 Press the hall call button.
- 2 When the hall call door unlocks, open the hoistway door.
- 3 Open the car door and enter the elevator.
- 4 Close the hoistway door and then close the car door.
- 5 Press a button on the Car Operating Panel (COP) to select a floor.
- 6 When you arrive at the selected floor, open the car door and exit the elevator.
- 7 Close the car door and then close the hoistway door.

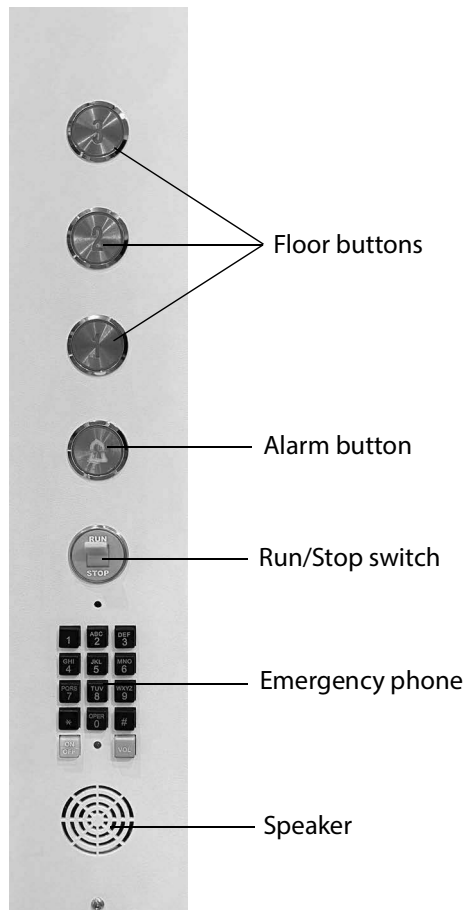
Note that you can press the Alarm button at any time in case of an emergency.

Note that there is a keypad phone located on the COP for use in an emergency.

- To dial a phone number, press the red **ON/OFF** button on the keypad to turn on the phone.
- Dial the phone number.
- Press the blue **VOL** key on the keypad to raise or lower the volume.
- Press the red **ON/OFF** button on the keypad to turn off the phone.



**Figure 2**



**Figure 3**



## 4. SAFETY FEATURES

### Safety Brakes

The safety brakes (safeties) stop the lift in the event of cable failure.

During operation, cable tension keeps the brake up so the cam does not interfere with the hoistway rails.

If a cable failure occurs, the brake mechanism comes down and the brake cam stops movement of the lift.

### Emergency Stop

Actuating the red STOP switch during travel will stop the elevator immediately and activate the alarm. Toggle the switch back to RUN to return the elevator to normal operation.

### Battery Lowering System and Manual Lowering Device



#### NOTE

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

If a power failure occurs, a battery lowering system will bring the Vuelift Mini to the bottom level.

If the battery fails while operating, there is a manual lowering device that can be used to bring the Vuelift Mini to a lower landing level as described below.

- 1 Turn off the main power disconnect.
- 2 Remove the cover on the glass/acrylic in line with the motor brake at the top landing.
- 3 Insert the manual lowering tool (shown at the right) into the hole in the glass/acrylic.
- 4 Turn the manual lowering tool clockwise until the unit is at the desired landing level.
- 5 Make sure the floor of the cab is level with the landing.
- 6 Use the special emergency key to manually open the landing door.



**Figure 4**

## 5. CLEANING

**X DANGER**

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

**\* NOTE**

DO NOT use any cleaning product on acrylic that contains ammonia or petroleum. This includes Windex<sup>®</sup> 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.

**Clean glass panels** using a normal glass cleaner such as Windex<sup>®</sup> or equivalent.

### Washing (Acrylic Panels)

Wash the acrylic panels with a solution of mild soap or detergent and lukewarm water. Use a clean soft cloth, applying only 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.

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## 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®

For glass panels, use a normal glass cleaner such as Windex® or equivalent.

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. DIAGNOSTICS

Diagnostic beep codes are provided to help you diagnose a problem. All beep codes that begin with a long beep (on for 2 seconds) are Service codes (contact your authorized Savaria dealer).

If you press a Hall Call button and hear a beep from the car top, but the car doesn't move, refer to the information in the following table.

<b>Beep code</b>	<b>Action to take</b>
<b><i>Service codes</i></b>	
1 long beep (2 seconds) followed by 1 short beep (1/2 second)	Contact your authorized Savaria dealer for service. There is a problem in one of the following areas: overload trip, run timer trip, main safety chain open, door lock fault, or auto shutdown counter.
1 long beep (2 seconds) followed by 2 short beeps (1/2 second)	Contact your authorized Savaria dealer for service. There is a problem with re-level shutdown or the low pressure switch is activated.
1 long beep (2 seconds) followed by 3 short beeps (1/2 second)	Contact your authorized Savaria dealer for service. There is a selector fault, selector encoding error, or position error.
<b><i>User codes</i></b>	
1 short beep (1/2 second)	Make sure the "Stop" switch in the car in the Run position. Check that the car gate is closed.
2 short beeps (1/2 second)	Check that the landing door is closed.
3 short beeps (1/2 second)	Manually open and close the gate.

## 7. MAINTENANCE



### NOTE

The 6-month inspection and all maintenance procedures must be performed by a Qualified Technician. Contact your Authorized Dealer.



### NOTE

Rail lubrication is NOT allowed for the Vuelift hoistway or car rails.

The Vuelift Mini elevator is designed to require minimal maintenance.

A 6-month inspection of certain components is required to maintain the Factory Warranty. The first required service of the drive train components (motor/gearbox, drums, etc.) is after 2,000 operational hours (approximately 120,000 trips).

The items that need to be checked during the 6-month inspection are listed in the Maintenance Schedule.

**IMPORTANT:** Please test the phone in your elevator during every maintenance. If the phone is inactive, please shut down the elevator until the phone line is active.

**NOTE:** Refer to the *Maintenance Procedures* for descriptions of the items.

## Maintenance Procedures

### INSIDE CAR

#### Car Interior

- Examine the car interior for damage including the ceiling, handrails, door panels, lighting and floor. Tighten all fasteners in the car panel and replace as needed.

#### Car Controls and Panel

- Examine the condition of the car control panels and check the operation of all lights. Replace all burnt out lights.

#### Leveling, Stopping, Acceleration and Deceleration

- Run the car to each floor in both directions to observe the leveling accuracy, stopping, acceleration and deceleration. Adjust as needed.

#### Car Door Operation

- Observe the door for proper operation including smooth movement, starts and stops, and alignment.

#### Ride Floor to Floor

- Run the car from floor to floor and observe for smooth travel and unusual noises. Adjust or repair as needed.

### Car Lights and Ventilation

- Verify proper operation of the car emergency light and ensure adequate ventilation.

### Restricted Opening Device Mechanism

- Examine the restricted opening device mechanism (if applicable) for proper operation and adjust as needed.

## **OUTSIDE HOISTWAY**

### Hall Call Stations and Lights

- Examine the hall stations for condition and replace all burnt out lights. Observe operation of the audible signal when the Emergency Stop is activated.

### Hoistway Doors

- Examine the door panel and clearance between the panel and entrance frames. Examine proper interlock functionality and operation. Adjust as needed.

### Unlocking Device

- Examine the hoistway door unlocking device for damage. Repair or adjust as needed.

## **MACHINE ROOM**

### Housekeeping

- Clean the machine room floor to prevent slipping and trip hazards, fire hazards and contamination of the equipment. Ensure the machine room is not being used for storage and inform the customer of any violation.

### Trash, Used Parts and Oil

- Ensure that all trash is discarded after maintenance is complete.

### Controller and Motor Starter

- Examine the controller and motor starter for:
  - Cleanliness
  - Condition of contacts and remaining contact material
  - Fuses for correct size and fit in holders and corrosion in fuseholder
  - Relays for worn shunts and signs of overheating
  - Evidence of overheating

## **TOP OF CAR**

### Stop Switch

- Verify the car will not run with the stop switch in the STOP position.

### Cleanliness

- Clean all debris from the car top.

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### Top Car Guide

- Examine car rail to hoistway rail conditions at the car top. Note any abnormal wear patterns or changes in alignment.

### Guide Rails

- Examine the car rails for loose fastenings and fit at all joints.

### Traveling Cables

- Examine the traveling cables for wear, chafing, kinking and alignment. Examine the attachment points for secure fastening and looseness.

### Door Hangers, Locks, etc.

- Verify the interlock is functioning properly.
- With the door open, attempt to move the car using the hall call and COP buttons.
- Observe the door closing for any roughness in bearings, inconsistent operation, or misalignment.

### Hoistway Cleaning

- Clean dirt and trash from all horizontal surfaces including the car and entrance sills.

### Other

- Observe any hoistway problems that should be addressed such as:
  - Unauthorized equipment installed in the hoistway
  - Damage to the hoistway enclosure which would affect its fire resistance rating
  - Evidence of intentional acts
  - Any evidence of unauthorized people entering the hoistway

### Examine the Ropes

- Examine the car ropes for equal tension, and visually inspect for any frays or deformation of the ropes which would negatively impact their strength.

### Leaving the Car Top

- Clean up and dispose of debris properly. Return the car to normal operation and the stop switch to the RUN position.

## **PIT OR RAMP AREA**

### Stop Switch

- Examine the operation and condition of the stop switch. Repair as needed.

### Cleaning

- Clean the pit. Examine the bottom level landing sill and clean as needed.

Bottom Car Glides

- Examine car rail to hoistway rail conditions at the car bottom. Note any abnormal wear patterns or changes in alignment.

Traveling Cables

- Examine the traveling cables for wear, chafing, kinking and alignment. Examine the attachment points for secure fastening and looseness.

Leaving the Pit

- Remove all tools and verify operation of the elevator.

**OVERSPEED**

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.

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.

**BRAKES**

Verify proper operation of the safety brakes and the motor brake. Check with full load every 12 months.



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## Maintenance Schedule

Verification by technician	Frequency
<b>INSIDE CAR</b> <ul style="list-style-type: none"> <li>• Car interior</li> <li>• Car controls and panel</li> <li>• Leveling, stop, acceleration and deceleration</li> <li>• Car door operation</li> <li>• Ride floor to floor</li> <li>• Car lights and ventilation</li> <li>• Restricted opening device mechanism</li> </ul>	6 months
<b>OUTSIDE HOISTWAY</b> <ul style="list-style-type: none"> <li>• Hall call station and lights</li> <li>• Hoistway doors</li> <li>• Unlocking device</li> </ul>	6 months
<b>MACHINE ROOM</b> <ul style="list-style-type: none"> <li>• Housekeeping</li> <li>• Trash, used parts, etc.</li> <li>• Controller and starter</li> </ul>	6 months
<b>TOP OF CAR</b> <ul style="list-style-type: none"> <li>• Stop switch</li> <li>• Cleanliness</li> <li>• Top car guides</li> <li>• Guide rails</li> <li>• Traveling cable</li> <li>• Doors, hangers and locks</li> <li>• Hoistway cleaning</li> <li>• Other</li> <li>• Examine the ropes</li> <li>• Leaving car top</li> </ul>	6 months
<b>PIT (IF APPLICABLE)</b> <ul style="list-style-type: none"> <li>• Stop switch and light</li> <li>• Cleaning</li> <li>• Bottom car guides</li> <li>• Traveling cable</li> <li>• Leaving the pit</li> </ul>	6 months
<b>OVERSPEED</b> <ul style="list-style-type: none"> <li>• Overspeed belt</li> <li>• Overspeed system</li> </ul>	6 months
<b>BRAKES</b> <ul style="list-style-type: none"> <li>• Safety brakes and motor brake</li> </ul>	6 months
<b>BRAKES (WITH FULL LOAD)</b> <ul style="list-style-type: none"> <li>• Safety brakes and motor brake</li> </ul>	12 months





# Vuelift Mini Residential Elevator **Owner's Manual**

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

Dealer Name: \_\_\_\_\_

Dealer Phone: \_\_\_\_\_

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Part No. 001254

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