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P.A.L. VERTICAL PLATFORM LIFT OWNER'S MANUAL

(To Be Retained by Owner After Installation by Authorized Savaria Concord Dealer)

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IMPORTANT

The P.A.L. Vertical Platform Lift must be installed, maintained and serviced by an authorized SAVARIA CONCORD DEALER only! Under no circumstances is anyone other than a trained and authorized Savaria Concord Dealer to install, adjust, service or modify any mechanical or electrical device on this lift. Failure to follow this warning can result in safety systems being compromised or defeated, which can result in serious injury or death. Savaria Concord Lifts Inc. accepts no liability for property damage, warranty claims or personal injury, including death, in this circumstance.

Lift and elevator passenger safety is the result of countless details in the equipment's design, manufacture and installation. After installation, reliable operation and continued assurance of safe operation requires regular service and inspection to be carried out at least twice per year, or more frequently where usage or environment dictates or as required by local jurisdiction. The owner is responsible to ensure that regular service and inspections occur in a timely manner.

The owner must refer to this manual for operating instructions and precautions for usage of this Vertical Platform Lift.

On completion of installation, the dealer must provide the owner with the information below and ensure it is recorded in the owner's manual. Any service and/or maintenance must also be recorded in the Maintenance Record section of this manual by the authorized Savaria Concord dealer or the owner.

To be completed by Installing Dealer:

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FOR OWNER'S RECORDS	
Installing Dealer:	_____
Dealer's Telephone Number:	_____
Date Installed:	_____
Serial Number:	_____
Lift Model:	_____
Comments:	_____

WARRANTY

Your Savaria Concord Dealer will provide a copy of the manufacturer's limited parts warranty and documentation relating to any labour warranty offered by your Dealer.

OUTDOOR USE

When ordered with the **Outdoor** option, this lift is designed to operate in outdoor conditions, however, extra care in the installation and maintenance is required to ensure that reliable operation is achieved.

The lift should be located in an area where it will not be subject to driving rain, snow or sleet that can be forced in behind the service panels or into door openers, hall calls or lock mechanisms. Ensure the lift is not in an area where water from roofs or eaves will pour on the unit and affect its electronics. The lift must be cleared of snow and ice both on and underneath the unit prior to normal operation.

Quarterly visual inspections by the owner are recommended to check for rusting, scratches and/or penetrated paint. Areas where the paint coat is scratched, penetrated or oxidized areas must be immediately painted with good quality rust paint.

This basic maintenance will ensure that the lift operates reliably and continues to look attractive for years.



THIS PRODUCT IS DESIGNED AND MANUFACTURED TO EXACT SPECIFICATIONS. MODIFICATIONS OF THIS PRODUCT IN ANY WAY CAN BE DANGEROUS AND WILL VOID THE WARRANTY.

P.A.L. VERTICAL PLATFORM LIFT OWNER'S MANUAL

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1. GENERAL SPECIFICATIONS

P.A.L. VERTICAL PLATFORM LIFT	
Load Capacity	750 lbs. (340 kg)
Rated Speed	15 feet per minute/0.08 mps (Nominal)
Power Supply	115 volt, single phase, 60 Cycle, 15 amps 220 volt, single phase, 50 Cycle, 10 amps
Drive System	1:2 Cable Hydraulic w/ Slack Cable Safety Device
Cab Size	36" x 48" (914 mm x 1220 mm), Type 2 standard 36" x 54" (914 mm x 1372 mm), Type 1,2 36" x 60" (914 mm x 1524 mm), Type 1,2 42" x 60" (1067 mm x 1624 mm), Type 1,2,3,4 1100 mm x 1400 mm, Type 1,2,3,4
Lifting Height	Standard 48" (1220 mm) Floor to Floor Available 72", 96", 120", 144", 168" Floor to Floor
Control	1 HP 24VDC Motor
Control System	Constant Pressure
Finish	Stainless Steel Tower and Mechanical Assembly w/ Baked Electrostatic Polyester Gloss Powder
Hall Station Finish	Mylar Membrane
Standard Features	43.375" (1073 mm) High Aluminum Framed Cab Walls Automatic Emergency Platform Lighting Battery Back-Up allowing for Travel in both Up and Down Directions Keyed Manual Lowering Device Stainless Steel Platform with applied Anti-Skid Flooring Stainless Steel Handrail
Options	16" (406 mm) Automatic Flip Up Entrance Ramp Automatic Gate and Door Opener Bottom Floor Permanent Ramp (8:1 or 12:1) Emergency Hands-Free Telephone Freestanding or Wall Mount Enclosure Keyed ON/OFF Control Panel and Hall Stations Platform/Landing Gates and Doors Pro Manual or Pro Auto Fire Rated Doors with Prolocks Underpan Safety Sensor (standard where required by Code)

2. STANDARD FEATURES



Figure 1 3 Stop COP Panel

1) Cab Operating Panel Button Controls (Figure 1-A)

The constant pressure push buttons control the UP/DOWN movement between landings. The cab will automatically stop when the button is released or when the desired floor is reached.

2) Emergency Stop Button (Figure 1-C)

This switch can be pressed any time to stop the lift and activate the alarm.

3) Alarm Button (Figure 1-B)

Pressing this button will sound the alarm in case of an emergency. If equipped with the Emergency Hands-Free Telephone, holding down this button for approximately 3 to 10 seconds will activate the telephone. Refer to section 5 for more details.

4) Handrail

A single handrail is mounted on the control panel side of the cab.

5) Emergency Light

The cab interior light remains ON in the event of a main power failure. The emergency light uses a DC battery “back up” system with an automatic recharger.

6) Emergency Cab Lowering and Raising

Cab UP/DOWN control buttons remain activated in the event of a power failure. Control automatically converts to the battery “back up” system allowing you to lower or raise the cab to a landing, and exit the lift.

7) **Manual Lowering Key Switch**

The cab can be manually lowered using the emergency manual lowering key switch. On most units, it is located on the right hand side of the lift tower. Check with your dealer if Remote Kit option was provided to position the key switch in a more convenient location.

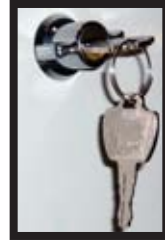


Figure 2 Manual Lowering Key Switch

IMPORTANT

The Underpan Safety Sensor will not stop the cab in the DOWN direction when the Manual Lowering Key Switch is used. Ensure there are no obstructions underneath the platform.

8) **Pit Switch**

A pit switch to shut down the lift is installed to provide protection for technicians working under the platform.

3. **OPTIONAL FEATURES**

1) **Cab Key Switch (Figure 1-D)**

The key switch turns the cab controls ON and OFF. It is provided to limit use of the lift to authorized persons only.

Commercial

In commercial applications, when the Cab Key Switch is turned to the ON position, the Landing Hall Call/Send buttons are inoperable.

Residential

In residential applications, when the Cab Key Switch is turned to the ON position, the Landing Hall Call/Send buttons and cab controls are operable. When the Cab Key Switch is in the OFF position the Landing Hall Call/Send buttons are inoperable.

2) **Landing Hall Call or Hall Call/Send Station Controls**

Hall Call or Hall Call/Send control buttons are installed at all landings to move the cab to the landing from which you are calling. An optional key switch limits the lift's use to authorized persons only. Refer to Figure 3.



Figure 3 Hall Call/Send Station

Optional Features continued

NOTE

An adjustable timer set by the installing technician allows the user time to enter or exit the cab when a landing door/gate is open or when the cab key is turned to the OFF position.

3) Landing Door/Gate Locking Device

The gate lock is a certified electromechanical interlock preventing movement of the lift platform unless the door or gate is in the closed and locked position. If the door or gate is not in the closed and locked position, the lift will not move.

4) Underpan Safety Sensor

The cab will automatically stop if moving in the DOWN direction when an obstruction is encountered underneath the cab. The cab will move in the UP direction enabling the removal of the obstruction. **When the Manual Lowering Key Switch is used, the Underpan Safety Sensor will not stop the cab in the DOWN direction.**

5) Automatic Door/Gate Operator

There are four (4) methods available to open the door:

- 1) Push the remote control (where applicable)
- 2) Push the Landing Hall Call button on the wall
- 3) Push or pull the door manually
- 4) Push 'n Go

The door will open automatically after a slight push (without the use of the remote control or optional push button). Note the door open timer is inoperative whenever this feature is activated.

6) Emergency Battery Operation

In the event of a building power failure, the door/gate operator is provided with a "back-up" power system. This system will provide temporary power to continue the door/gate opening operation for a number of times. On resuming normal building power, the battery "back-up" system will revert back to its OFF condition and start the automatic charging system to restore battery power.

Optional Features continued

7) **Freestanding or Wall Mount Enclosure**

The enclosure functions as a hoistway in indoor or outdoor applications where coverage is desired. Platform and/or landing gates and/or doors can be installed for safe access into the cab from each landing. Optional motion sensor lighting provides a low maintenance, energy efficient light source as it only turns ON when you enter the lift. An optional fan-based ventilation system also automatically turns ON when you enter the lift to allow air to circulate inside the enclosure.

8) **Bottom Floor Permanent Ramp**

The bottom floor permanent ramp is optional when an enclosure is installed around the lift. The ramp is required when the lift does not have a pit and when the automatic ramp option is not selected.

4. SAFETY PRECAUTIONS

- 1) Before using the P.A.L., learn the location and function of all controls and features listed previously in this manual.**
- 2) Keep your body completely inside the cab while it is moving to avoid injury.**
- 3) Do not overload the P.A.L. beyond its rated capacity.**
- 4) Close adult supervision is necessary when children are using, or near the lift.**
- 5) Always keep wheelchair wheels locked when the lift is moving.**

5. OPERATING INSTRUCTIONS

NOTE

In residential applications, before the Hall Call buttons can operate, the key switch (if equipped) in the cab must be in the OFF position and the key switch in the hall must be in the ON position.

A. Operating the Lift with Hall Call Controls from the Landing

Keyed Landing Hall Call Station

- 1) Insert the key in the Landing Hall Call Station and turn the key to the ON position.
- 2) Press the Hall Call button. Maintain constant pressure by holding down the Call button until the cab automatically stops at your landing. The cab may be stopped at any point by simply releasing the button.
- 3) Release the Call button and turn the key to the OFF position.
- 4) Remove the key and enter the cab.

Non-Keyed Landing Hall Call Station

- 1) Press the Hall Call button. Maintain constant pressure by holding down the Call button until the cab automatically stops at your landing. The cab may be stopped at any point by simply releasing the button.
- 2) Release the Hall Call Button and enter the cab.

NOTE

The lift may be equipped with a Hall Send button. Press this button to send the lift to another landing.

B. Operating the Lift from the Cab Controls



Figure 1 3 Stop COP Panel

IMPORTANT

The Cab Key Switch in the ON position will disable Landing Hall Call/Send button in **commercial** applications. In **residential** applications, the Cab Key Switch in the ON position will enable the Landing Hall/Call buttons. In the OFF position, Landing Hall/Call buttons will be disabled.

Keyed Cab Operating Panel

- 1) Enter the cab and insert the key into the switch located on the Cab Operating Panel and turn the key to the ON position. Refer to Figure 1-D.
- 2) Press the desired Landing button to move the cab. Maintain constant pressure by holding down the Landing button until the lift automatically stops at the landing. Refer to Figure 1-A.
- 3) Release the Landing button and turn the key to the OFF position. Remove the key.
- 4) Exit the cab.

Non-Keyed Cab Operating Panel

- 1) Enter the cab press the desired Landing button to move the cab. Maintain constant pressure by holding down the Landing button until the lift automatically stops at the landing. Refer to Figure 1-A.
- 2) Release the Landing button and exit the cab.

C. Emergency Hands-Free Telephone (Optional)

- 1) If your lift is equipped with an Emergency Hands-Free Telephone, you must press and hold down the Alarm button (Figure 1-B) for 3 to 10 seconds until the phone activates. The 3 to 10 second time delay is variable and adjustable by the installing technician.
- 2) Release the Alarm button once the call is picked up by the telephone line. The system will automatically dial out to a pre-programmed telephone number set up by the installing technician.

6. EMERGENCY RELEASE KEY

If your lift is equipped with gates and/or doors, the installing technician will be able to provide an Emergency Release Key for the installed interlock. The installing technician can demonstrate the function of the Emergency Release Key.

- 1) Insert the Emergency Release Key into the pre-drilled hole above the lock mechanism.
- 2) Apply constant but gentle pressure on the unlock pin while trying to open the gate/door.
- 3) Once the gate/door is open, remove the Key to release the unlock pin.

IMPORTANT

Do not attempt to unlock the gate and/or door while the cab is moving. Use the Emergency Release Key only if a passenger is unable to exit the cab or if the lift stops operating normally.

7. MAINTENANCE AND INSPECTION CHECKS

As the owner, you are responsible for making sure maintenance is performed on a regular basis to keep your P.A.L. in safe operating condition. Any scratches or dents in the paint, or signs of rust must be touched up using high quality rust paint as recommended by your Savaria Concord dealer.

IMPORTANT

The Hydraulic Oil Line must be replaced every 5 years. Note the date of installation in section 9 to ensure timely replacement.

The lift must be inspected and/or serviced every 6 months by a **qualified Savaria Concord dealer**. Additional service may be necessary, depending on usage. In high traffic areas, such as schools, nursing homes and clinics, the unit should be maintained on a three to six-month schedule.

8. BEFORE YOU CALL FOR SERVICE

A quick check of the Operating Instructions in this manual may prevent an unnecessary service call. Refer to the following checklist before contacting your authorized Savaria Concord Dealer for service or repair. If the unit will not operate, verify the following:

- 1) Check for an open fuse or tripped circuit breaker at the main power supply switch.
- 2) Verify that service electrical disconnect switches are turned ON.
- 3) Verify that all landing doors are completely closed.
- 4) If equipped, verify that the Emergency Stop button is not activated.
- 5) Ensure that the key is turned to the ON position in the Landing Hall Call Station and the Cab Operating Panel (if equipped).
- 6) If landing buttons are inoperable, check that the key switch on the cab is turned OFF and the key is removed. (Wait approximately 9 seconds).
- 7) Operating controls must be pressed and held pressed for the lift to operate. If pressure on the button is released, the lift will stop.
- 8) With the Automatic Door/Gate Operator option, check to make sure the coding switches in the receiver matches that of the remote control. Check the battery in the remote control and replace if it is weak.
- 9) If equipped, the Enclosure Motion Sensor Light may require a replacement bulb if the light does not turn ON when you enter the cab.

9. MAINTENANCE RECORD

It is recommended that the Owner update the Maintenance Record after each service call.

Date	Time	Reason for Call	Comments	Dealer

