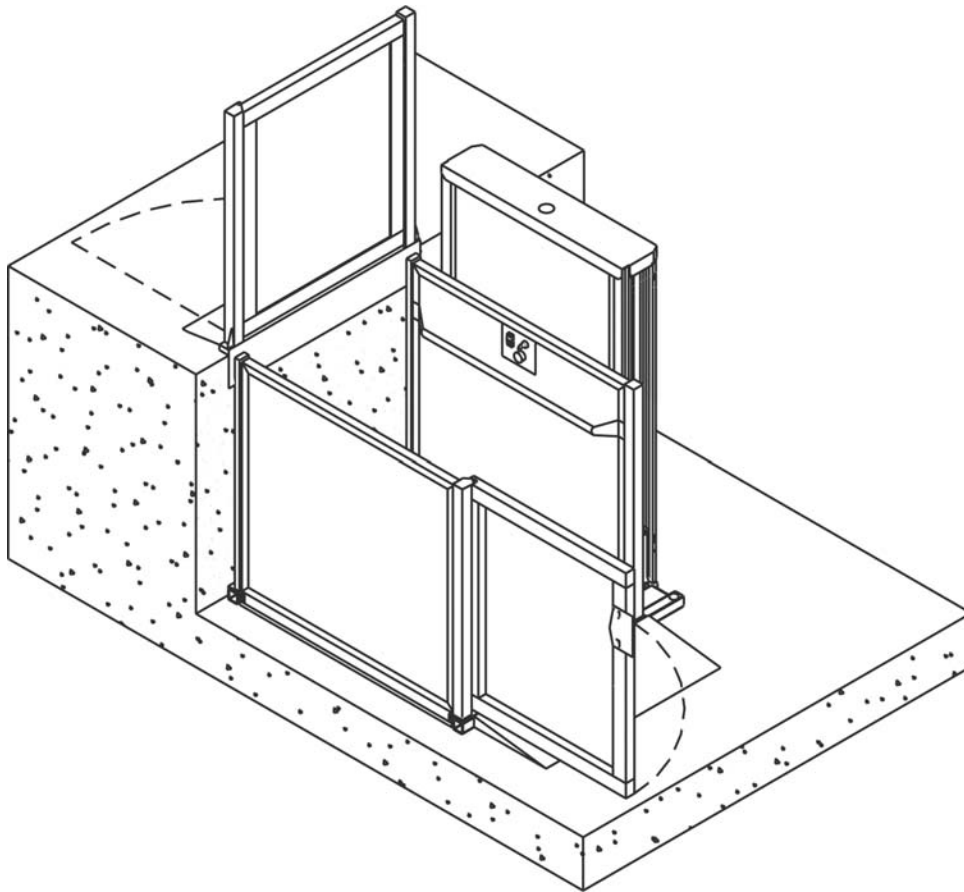


Garaventa Genesis OPAL

Vertical Wheelchair Lift

Owner's Manual



15102 Revision D

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Introduction

INTRODUCTION

Congratulations on your purchase of the Genesis OPAL Vertical Platform Lift.

The OPAL is manufactured with the same precision and care that is a trademark of Garaventa products. You can be proud of the fact that you join thousands of others who have turned to Garaventa for their accessibility solutions.

Your lift is easy to operate and has been designed for years of reliable, trouble-free operation. As with all electrical and mechanical equipment, proper operation and periodic maintenance is required.

Important...Please refer all service work to your Garaventa dealer. Garaventa dealers have the trained technicians with the required tools and genuine replacement parts. They are committed to providing quality service!

Dealer Information

Name: _____

Address: _____

City: _____

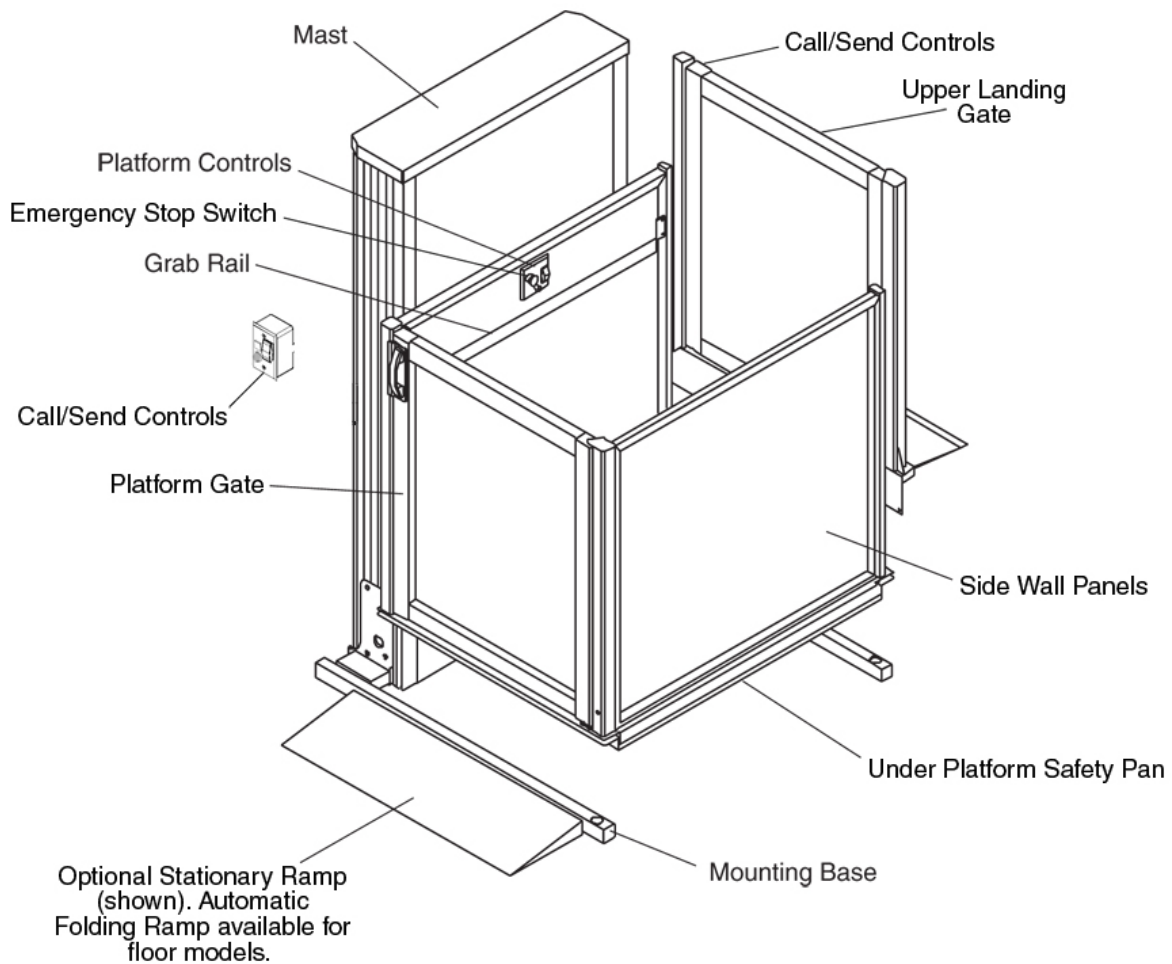
Telephone No.: _____

If you have questions concerning the operation or maintenance requirements of your OPAL, please contact the dealer listed above.

OPAL Components

OPAL COMPONENTS

Learn the location and function of all features before using your OPAL vertical lift. The OPAL is available with a Hydraulic or a Leadscrew Drive System.



OPAL COMPONENTS

DRIVE POWER REQUIREMENTS

Hydraulic Power Requirements for operation

North America – 120 VAC

International – 208-240 VAC

Leadscrew Power Requirements for operation

North American – 120 VAC

International – 208-240 VAC

OPAL COMPONENTS

Call Stations

Call Stations are located at each landing and consist of a directional call switch and (optional) key switch. The easy to use “Rocker” style switches are used to call or send the platform to the desired landing. The optional key switch limits lift use to authorized persons only.

*** Lift may be equipped with optional constant pressure up & down buttons.**

Platform Directional Control Switch

The Directional Control Switch is mounted to the side wall of the platform. Pushing the upper or lower ends of the Direction Control Switch moves the platform in the corresponding direction. The platform will automatically stop when the switch is released.

*** Lift may be equipped with optional constant pressure up & down buttons.**

Platform Emergency Stop/Alarm Switch

The Emergency Stop/Alarm switch is located on the platform sidewall and can be pressed at anytime to stop the platform. An alarm will sound when the button is pressed.

Auto Fold Ramp (Optional)

When the platform is not at the lower landing the ramp is in the raised position. As the platform descends to the lower landing the ramp automatically opens. **Pedestrian traffic should stay clear of the opening ramp.**

Under Platform Safety Pan

Five heavy-duty sensing switches are located on the underside of the platform. These switches will automatically stop the platform should it encounter an obstruction during downward travel. When the safety pan is obstructed, travel in the upward direction is not disabled, allowing the platform to move away from the obstruction.

Upper and Lower Platform Gates

The electro-mechanical gate interlocks prevent the platform from operating unless the gate is fully closed. The gate automatically locks when the platform leaves landing. Gates may not be required for residential applications.

Operating Instructions

OPERATING INSTRUCTIONS

The following safety rules must be observed at all time:



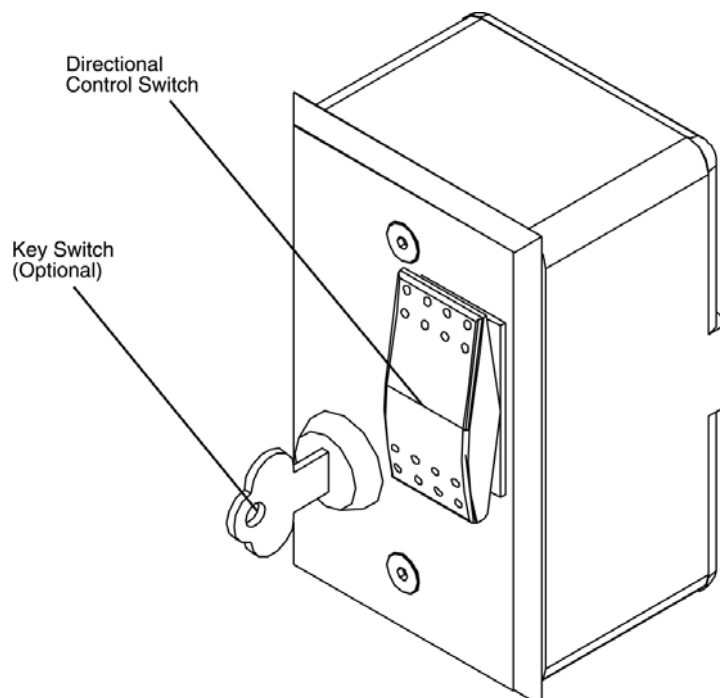
- Do not exceed capacity of 750lbs (340kg)
- Do not bypass any control sensors
- Do not use the lift to transport freight
- Do not operate the lift if it has been damaged
- Passengers must be centered on the platform during use
- Wheelchair brakes must be engaged at all times during platform movement.
- Keep hands and feet inside the platform area.

Failure to follow the above instructions may pose a safety hazard and may void the warranty

CALL/SEND CONTROLS

To “call” or “send” the platform:

1. Press the directional control switch in the desired (“UP” or “DOWN”) direction. The platform will stop automatically upon reaching a landing. Releasing the button at any time will stop the platform.
2. **Keyed Operation:** Insert the key (if equipped) into the key switch and turn clockwise to the “ON” position. Follow the directions above.



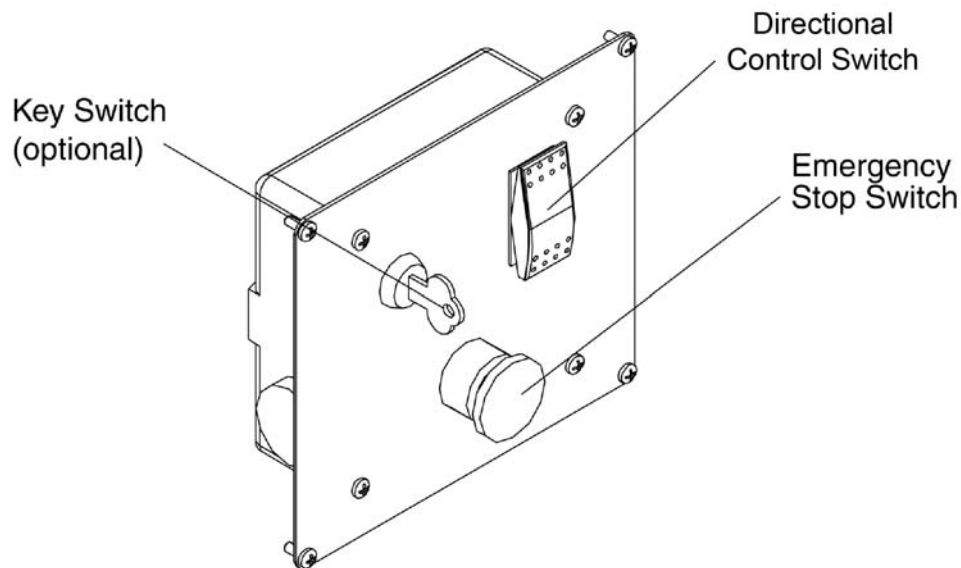
Platform Controls

PLATFORM CONTROLS

1. Upon entering the platform, **ensure** the gate is fully closed behind you. Press and hold the directional control switch in the desired (“UP” or “DOWN”) direction. The platform will automatically stop when it reaches the landing. Releasing the button at any time will stop the platform.
2. **Keyed Operation:** Insert key (if equipped) into platform key switch and turn clockwise to the “ON” position. Follow the directions above.



Warning: Wheelchair brakes must be locked at all times during platform travel. Keep hands, feet and wheelchair inside the platform area. Make sure that gates are fully closed, before operating lift.



Emergency Stop/Alarm Switch

The Emergency Stop/Alarm switch can be pressed at any time to stop the platform. All controls are disabled while the switch is pressed in. Pull outward on the switch to return to normal operation.

Platform Overload Sensor (EU models only)

European platforms are equipped with a platform overload sensor as required by code. When the weight loaded on the platform exceeds the rated capacity by 75kg's the lift will not operate. The load must be removed from the platform until the sensor resets allowing the lift to become operable.

Leadscrew Drive – Manual Lowering

MANUAL LOWERING

In the event of a power failure, the platform can be lowered manually. See the following steps for the appropriate drive system:

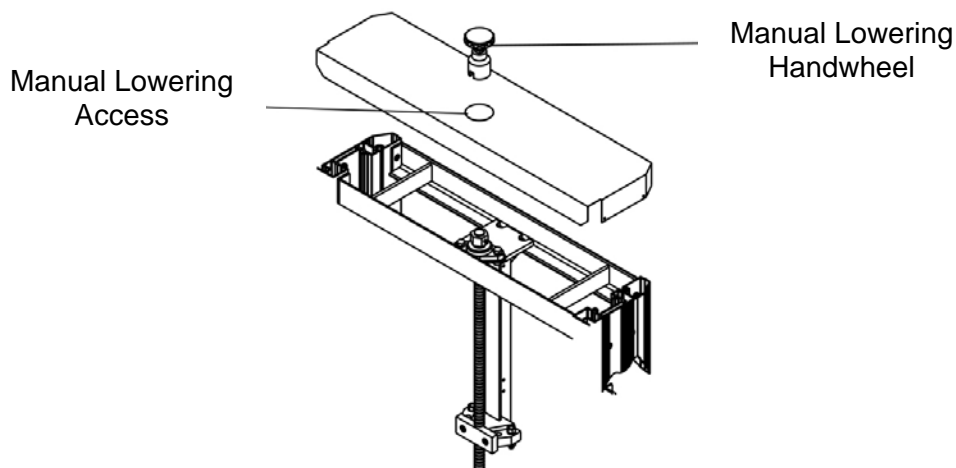


WARNING: Under platform obstruction sensing switches and limit switches are disabled when manual lowering is used.

LEADSCREW DRIVE – MANUAL LOWERING

In the event of a power failure, the platform can be raised or lowered using the lowering handwheel per the following steps:

1. Turn off the power at the mains disconnect or breaker.
2. Turn off all keyed switches (if equipped and remove keys). This is very important in the event, the power is unexpectedly restored.
3. Remove the hole plug from the access hole located on top of the mast housing. Note: The hole plug was installed with silicone to make the access hole watertight.
4. Insert the handwheel through the access hole placing it onto the slots of the handwheel over the crosspins that protrude from the leadscrew.
5. Rotate the handwheel clockwise to raise the platform and counterclockwise to lower the platform.



Hydraulic Drive - Lowering System

MANUAL LOWERING

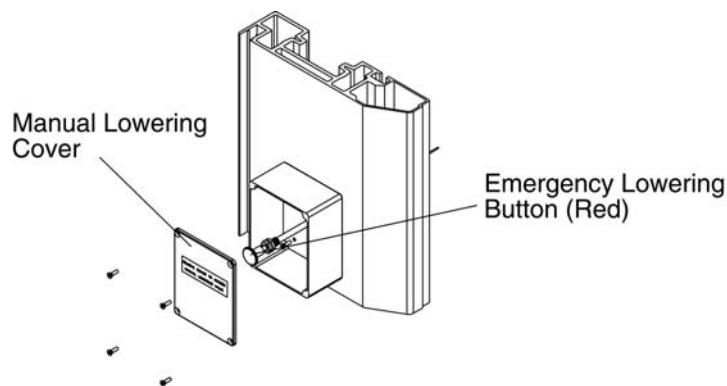
In the event of a power failure, the platform can be lowered manually. See the following steps for the appropriate drive system:



WARNING: Under platform obstruction sensing switches and limit switches are disabled when manual lowering is used.

HYDRAULIC DRIVE - LOWERING SYSTEM

1. Turn off the power at the mains disconnect or breaker.
2. Turn off all keyed switches (if equipped and remove keys). This is very important in the event, the power is unexpectedly restored.
3. Verify the path of the platform is not obstructed in anyway.
4. Remove the manual lowering cover.
5. Pull the red button until the platform reaches the lower landing.
6. Release the button to stop downward movement.
7. Manual lowering may set the slack chain safety and render the lift inoperable. Contact your local dealer to check your lift and reset the safety device.



Slack Chain Safety Device (Hydraulic Drive System)

If one of the drive chains becomes slack, the platform will mechanically lock into the machine housing and electrically terminate power to the drive unit. Your Garaventa Lift dealer can reset the device.

Note: If the device sets, the cause must be determined and corrected before the lift is put back into service.

Maintenance

MAINTENANCE

Regular maintenance is essential in keeping your Genesis OPAL in proper operating condition. Please remember, as the owner of this equipment you are responsible for making sure maintenance is performed on a regularly scheduled basis.

We strongly recommend that you protect your investment by having only an authorized Garaventa dealer perform all required maintenance service and repair work.

To maintain proper operating condition of your lift, the items listed below should be inspected and/or serviced every six (6) months. However, additional inspections may be necessary depending on amount of usage. In high usage areas, such as schools, nursing homes, clinics and outdoor installations, the unit should be serviced every three (3) months.

Hydraulic Drive:

- Tighten all fastening anchors
- Inspect ramp for proper operation (if equipped)
- Lubricate ramp linkage and hinges with light weight oil (if equipped)
- Check gate hinges and adjust speed of gate closer
- Inspect all travel chains for excessive wear, replace as necessary
- Check level of hydraulic fluid with the platform at the lower landing
- Check hydraulic plumbing for leaks
- Inspect all travel cables for excessive wear. Replace as necessary
- Verify operation of slack chain device
- Equalize tension of chains
- Clean mast guide channels.

Leadscrew Drive

- Tighten all fastening anchors
- Inspect ramp for proper operation (if equipped)
- Lubricate ramp linkage and hinges with light weight oil (if equipped)
- Check gate hinges and adjust speed of gate closer
- Inspect all travel cables for excessive wear. Replace as necessary
- Clean acme screw and check grease canister
- Clean mast guide channels.
- Verify proper tension of the drive belt.

Troubleshooting

UNIT FINISH

The OPAL is coated with a baked-on polyester finish. Occasional washing with mild detergent and warm water, followed by an application of automotive wax will help maintain the finish for many years. Touch up any scratched surfaces with touch-up paint.

TROUBLESHOOTING

Before you call for service...

A quick check of the Operating Instructions in this manual may prevent an unnecessary service call. Before calling your authorized Garaventa dealer for service, refer to the following checklist...

If the lift will not operate:

- Check for a blown fuse or tripped circuit breaker at the main circuit box.
- Check electrical disconnect.
- Check that gate(s) are completely closed
- Check that the emergency stop switch is not activated
- Check that the key switch is turned to the “**ON**” position (if equipped)
- If the platform stopped on the way down, move platform up and check for an obstruction underneath the platform

If the lift will not operate after checking the above items, contact your local authorized Garaventa Lift dealer for immediate service. If your lift needs servicing, use only original replacement parts and hardware to maintain quality and performance.

Specifications

SPECIFICATIONS

LEADSCREW MODEL ONLY

Platform:

Standard Platform Size: 867mm x 1237mm (34 1/8" x 48 3/4")
(Other platform sizes available)

Rated Load: 340 kg (750lb.)

Speed: 3 meters (10") per minute

Equipped with: Non-slip surfaces on the deck

Operating Controls:

Call Station and Platform Controls: 24VDC constant pressure directional switches on call stations and platform

Drive System:

Motor: 2 HP motor
Drive Type: ACME screw (1" diameter)
Power Supply: 120VAC, 50/60HZ on a dedicated 20 Amp circuit
208-240VAC on a dedicated 16 amp circuit, outside North America

Safety Features:

Under Platform Sensors: Five commercial grade waterproof safety switches will automatically stop the platform should it encounter an obstruction.

Gate Locks: Electro-mechanical lock ensures gate is closed before travel

Emergency Stop: Stop platform travel and sounds audible alarm.

Finish:

Steel panels and framework are finished with electrostatically applied Satin Grey paint. The panels, gates and mast are framed with anodized aluminum extrusions.

Specifications

SPECIFICATIONS

HYDRAULIC MODEL ONLY

Platform:

Standard Platform Size: 867mm x 1237mm (34 1/8" x 48 3/4")
(Other platform sizes available)

Rated Load: 340 kg (750lb.)

Speed: 5.2 meters (17") per minute

Equipped with: Non-slip surfaces on the deck

Operating Controls:

Call Station and Platform Controls: 24VDC constant pressure directional switches on call stations and platform

Drive System:

Motor: 3 H.P. 24VDC hydraulic motor

Drive Type: Chain Hydraulic

Power Supply: 120VAC, 50/60Hz on a dedicated 15 Amp circuit
208-240VAC on a dedicated 16 Amp circuit,
outside North America

Safety Features:

Under Platform Sensors: Five commercial grade waterproof safety switches will automatically stop the platform should it encounter an obstruction.

Gate Locks: Electro-mechanical lock ensures gate is closed before travel.

Emergency Stop: Stop platform travel and sounds audible alarm.

Finish:

Steel panels and framework are finished with electrostatically applied Satin Grey paint. The panels, gates and mast are framed with anodized aluminum extrusions

Warranty

WARRANTY

Garaventa warrants the entire lift assembly to be free from defects in materials and workmanship under normal use and service for a period of two (2) years from the date of installation, reasonable wear and tear excluded. Proof of the date of installation is required to determine the warranty period.

The warranty does not extend to any Garaventa Lift which has been subjected to misuse, neglect, accident modifications or damage from fire, lightning or water, or used in violations of the instructions furnished, nor units repaired or altered by other than an authorized Garaventa dealer. This warranty does not cover service work, oiling, cleaning or minor adjustments that are required from time to time. Consult your local authorized Garaventa Lift dealer.

Garaventa's liability hereunder is limited to repair and/or replacement only. Transportation and labor charges are not covered. Garaventa accepts no liability for any loss or damage resulting from use or misuse of the equipment, whether such damage is direct, indirect or consequential. All other express or implied warranties, statutory or otherwise, are excluded.

Warranty Registration

A prepaid warranty registration card is enclosed with this Owners Manual. Please complete the card and return it within 10 days of purchase.

Optional Extended Warranty Protection (Canada & USA only)

As an option you are able to purchase extended warranty protection for you Garaventa Genesis OPAL (Preventive maintenance Agreement required). This will extend your warranty from two years to 7 years (warranty details available). The extended warranty covers all major components.

Important note: The extended warranty protection plan (Preventive Maintenance Agreement required) is available for purchase for up to 30 days after lift installation. An extended purchase availability of up to 90 days after installation is available for an additional cost.

Protect your investment. Contact your local Garaventa dealer or Garaventa Lift for more information.