

AES ADVANTAGE
ELEVATOR
SYSTEM



**Owner's Manual
Hydraulic Elevator**

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Advantage Elevator System

1939 Belgrade Avenue, Unit #3, Charleston, SC 29407

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General, Safe Operation

Important: To ensure your safety while operating the elevator please read and fully review the items below. **Prior to operating this equipment it is imperative that you carefully and thoroughly read this entire manual. Serious injury or death can result from failing to follow these instructions.**

Begin by familiarizing yourself with the elevator equipment located in the machine room. The machine room will be positioned in close proximity to the elevator shaft. Common locations are in a dedicated mechanical room or adjacent closet. In some cases this equipment can be located under the stairs or in the attic. In the event of a power outage accessing this equipment will be necessary if you need to manually lower the cab.

This elevator is equipped with a door interlock system located to the top of each landing door. You will need to familiarize yourself with the door lock device (door interlock) and how to open the door manually. Advantage Elevator System (AES) will provide you with a special door lock key and instruction on how to manually operate the door lock. (see Page 8 “Elevator Door Key.”)

Caution: Children and/or pets must always be supervised by an adult and should never ride in or use the elevator alone. This elevator is not a toy. Never allow anyone or anything to remain in the space between the landing door and the elevator gate.

To avoid any accidents, please follow all instructions and always maintain a safe distance from any moving parts.

Only an individual who is competent and understands its proper operation as outlined in this manual should operate this unit.

****Under no circumstances should anyone enter the hoistway above or below the elevator. A moving elevator can cause severe injury or result in death for individuals within the hoistway.**

Operating Checklist:

1. Always check that cab is at floor level and aligned with landing prior to entering or exiting elevator
2. Check all doors and gates to ensure properly locking and secure
3. Make sure all areas in and around the elevator are free of any obstructions
4. Check that lights are able to be turned on and working properly
5. Emergency stop button and keys (if equipped) should be tested monthly
6. Regularly test the phone line located in the elevator cab to ensure connection is live and functioning.

It is important to read all labels and comply with all instructions. In the event that any label becomes damaged, please contact us to have it replaced immediately.

Only trained elevator personnel should be entrusted with the maintenance and service of this equipment.

Elevator Specifications

Capacity: 950 lbs.

Speed: 40 FPM

Maximum Travel: 50 ft.

Maximum # of stops: 4

Power Supply: 220 Volt, 1 Phase, 30 Amp.

Drive System: Roped Hydraulic.

Pit Depth Required: 8"

Minimum Overhead Clearance: 96" minimum overhead for 82" cab 108" minimum overhead for 96" cab.

Control System: Logic Board.

Floor Selection: Tape Selector.

Floor Material: Unfinished, 1 ½" plywood sub-floor FINISHING DONE BY OTHERS.

Control Panel Finish: Standard - Brushed stainless steel Optional - Dark bronze, brushed brass, black.

Hall Station Finish: Standard - Brushed stainless steel Optional - Dark bronze, brushed brass, black.

Motor: 3HP Submersible.

Cab Wall Finish Standard - ¾" cabinet grade veneered plywood in maple.
Optional - Oak, Walnut, Cherry, and Mahogany
Optional Finishes - Painted, Clear Lacquer, Stained, Trimmed

Ceiling ¾" Cabinet Grade Plywood.

Lighting Supply 120 Volt, 1 Phase, 20 Amps.

Elevator Cab Features

COP Buttons

The buttons on the Automatic Control Operating Panel (COP) control the movement of the cab between landings, allowing it to ascend (UP) or descend (DOWN). After the gate and landing doors are shut, the cab will proceed to the chosen landing.

Alarm Button

Pressing this button at any moment triggers an audible alarm, used in case of an emergency. Important: This alarm is solely audible and does not initiate a call for assistance.

Run/Stop Switch

In case of an emergency this button can be used to stop the cab.

Cab Key Switch (optional, not pictured)

This key switch functions to activate or deactivate the cab control floor buttons. This safety measure is designed to restrict elevator usage to authorized individuals only.

Integrated Phone Dialer

Every one of our elevators comes with an emergency phone dialer installed as a standard safety feature.

Gate

Standard equipment: Folding accordion gate with white panels, additional options available upon request.

Gate ensures safe passage between landings when the elevator cab is in operation. Gate must be closed before the elevator will begin moving.

Ceiling

Standard equipment: Color/Stain matched to cab walls with dual (2) automatic 3" recessed LED lights and white trim rings. Additional options available upon request.

Handrail (Optional)

Optional flat, brushed stainless steel handrail for added support and stability available.

Standard Cab Features

- Automatic on/off cab lighting
- Emergency battery powered lowering and lighting with automatic recharging
- Emergency stop button in cab
- Emergency alarm button in cab
- Two (2) 3" recessed LED lights with white trim
- Brushed stainless steel control panel/hall stations
- Integrated phone dialer



Landing Features

Landing Hall Call Station Controls

Buttons are placed at every landing to call the elevator to that floor. The light on the button turns off once the elevator arrives. You can also choose to have an optional key switch installed to restrict elevator access to authorized users only.

Landing Door Lock (Interlock)

The door locks are designed to keep the hoistway/landing doors locked when the elevator is not present at that floor and prevent the elevator from operating until all doors are closed and secured. Each landing door lock operates on a timed setting. If there is no activity for fifteen (15) seconds, the door automatically returns to a locked state. To reset the timer, just press the call button again.

Emergency Battery Lowering

Most elevators are equipped with a battery backup which will supply temporary power to the elevator and automatic gate operators in the event of a power outage. If the elevator is in use during a power failure the battery lowering unit will allow for the cab to descend to the next lower floor and the lock to release so that the occupants may exit the cab. The battery back-up system will automatically turn off and begin recharging once power is restored to the home.



Hall Call Button



Door Lock

NOTE: If the landing door can be opened when the elevator is not at the landing, DO NOT USE THE ELEVATOR. Secure access to the elevator to prevent anyone from entering and call your nearest Advantage Elevator System location for service.

Operating the Elevator

Operating Controls At Landings

1. Press the Hall Call button once and release it. The call light will illuminate while the cab is in motion, indicating that the elevator will automatically come to your landing. (If a key switch is installed, insert and turn the key to the ON position before pressing a hall call button. Then, turn the key to the OFF position and remove it after pressing the hall call button.)
 - If the elevator is already at the landing, the hall call button will not remain illuminated. Pressing the hall call button will unlock the elevator swing door allowing you to enter the elevator.
 - When the call light turns off, the cab has arrived at your landing and allowing you to open the landing door.
2. Make sure that the cab is at the floor level. If the cab has a manual gate, slide the gate open and enter the cab.
3. Upon entering the cab, close the landing door and the gate. (If applicable, insert the key into the key switch)

SAFETY WARNING:

Wheelchair wheels must be locked at all times while the elevator is moving.

Operating Controls In the Cab - Standard or Touchscreen Controls

1. Press the desired landing button and release. If an optional key switch is installed, you must insert the key and turn to the ON position before pushing the landing button. The button pressed will illuminate and the cab will start traveling to the selected landing. The cab has arrived at your landing, allowing you to open.
2. If applicable, turn the key switch to OFF and remove the key. If a wheelchair is present, unlock the wheels.
3. Make sure to check that the cab is at floor level.
4. Open the gate, exit the cab, then close the gate and the swing door.

Lights

The dual overhead cab lights will automatically activate and remain on throughout elevator operation when any call button is pressed. There is a programmable 5-minute timer that will automatically turn off the cab light when the elevator is not in use.

When the landing door is left open the cab lights will automatically time-out and turn off. The lights will come back on whenever:

- The hall call button is pressed before getting into the cab
- Anyone enters the cab. Close both the landing door and the cab gate and press a landing button

Emergency Lighting

In the event of power loss or failure, the cab light and COP will automatically turn on via the battery backup system.

Gate

Do not extend your hands, feet, or place objects through a scissor-style elevator gate. Avoid leaving items against the gate or allowing any objects to extend through the gate opening. If the elevator does not stop moving when any style of gate is open, **DO NOT USE THE ELEVATOR**. Contact Advantage Elevator System for service immediately.

Elevator Door Key

The elevator key is a narrow piece of metal in the shape of a “C” attached to a blue “AES” key chain.



Following installation, Advantage Elevator System will place this key inside the elevator controller panel, which is mounted on the wall in the machine room where the elevator equipment is situated.

Manually Opening the Door

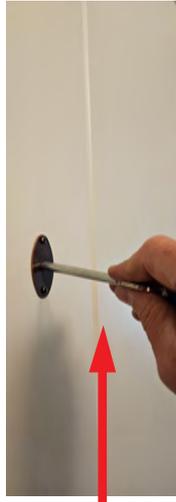
1. Insert the key at a downward angle through the plate with the “C” shaped hole.
2. Pull the key down which will lift the lock pin inside and allow the door to open.



Keyhole



Insert at a downward angle



Pull down to unlock



Internal locking mechanism

Manually Opening the Door From the Inside of the Cab

First open the accordion gate, then push the locking mechanism up by hand to unlock and open the hall door to exit the elevator.



Manual Lowering of the Cab

This procedure is **ONLY** used in an emergency.

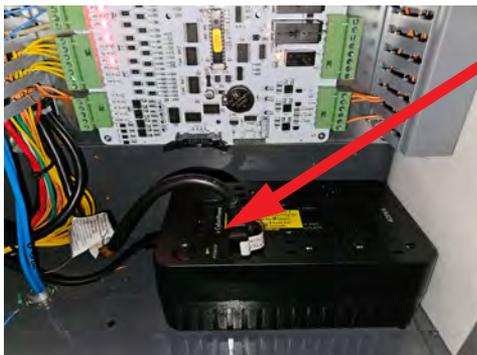
In the event that the elevator stops moving, the cab can be manually lowered to the next lower floor using the manual lowering valve located on the hydraulic pump in the elevator machine room.

***Stop: Prior to performing the below procedure, check to make sure that there is no other reason that the elevator stopped. (See below and also Operating Checklist, page 3)**

Common causes for the elevator to stop include an open elevator gate, the stop switch being accidentally pressed, or one of the shaft doors being left ajar. After checking these items, manually open the shaft doors to ensure that the shaft is clear.

Manual Lowering Procedure

1. Notify any individual(s) inside the elevator cab of your intention to lower the cab manually. Advise them to remain calm and keep a safe distance from the elevator gate.
2. In the machine room, locate the **main power disconnect switch** for the elevator pump unit and **switch it to the OFF position**.
3. Locate the **battery pack inside the controller box** and switch it to the **OFF position**.
4. Locate the pump unit tank.
5. Identify the **manual lowering button** on top of the pump unit; it will be a round red button. There will also be instructions on the front of the tank for manual lowering. The button will return to its normal position once released.
6. Push the red button and hold with force. You will hear oil flowing back into the tank as the cab descends. **Continue holding the button until the cab reaches the bottom landing.** Although you cannot see the elevator cab, you should be able to determine when it reaches the bottom because the hissing noise of the oil flowing into the tank will cease.
7. Manually open the door. **Utilize the door key** provided by Advantage Elevator System to lift the pin on the door lock through the keyhole in the lock plate while simultaneously opening the door. Assist any individual(s) in exiting the cab. (Refer to page 8 for instructions)
8. If this procedure was executed, promptly request service.



Batter Backup Power Button
Manual Lowering Knob



Power Outage While Operating Elevator

Battery Backup Power

In the event that power is lost while the cab is in motion, the cab will stop. The battery backup will automatically engage within approximately 10-30 seconds, and the cab will begin to descend to the next lower floor. Once the cab is at the landing, the lock will release so that the occupant(s) can exit.

Elevator System Reset

If you notice flashing buttons inside the cab, flashing hall call buttons, or flashing lights inside the controller, it signals that the elevator requires resetting.

1. Ensure that the elevator cab and elevator shaft are clear of any obstructions.
2. Before resetting, manually open all hall doors and visually inspect the shaft for any obstructions.
3. Close the elevator cab gate and all landing doors before proceeding with the reset.
4. To reset the elevator, proceed to the machine room and open the control panel. Locate the battery backup unit.
5. Press and hold the power button on the battery backup unit until the lights on the control panel go off. Wait for 15 seconds. Power on the battery backup unit by pressing and holding the power button.
6. Once the reset is complete, the elevator will return to normal operation.

Preparation for a Storm or Potential Flooding

1. Send the elevator cab to the highest floor.
2. Turn the run/stop switch OFF inside the cab.
3. Turn the power OFF at the main disconnect in the machine room.
4. Turn the battery backup OFF.
5. Do not use the elevator in the event of a storm or flood.
6. You may resume elevator use once the storm has passed, full power has been restored to your house, and the pit has been checked for water.

Power Disconnects



Battery Backup



Maintenance

It is recommended that your elevator be serviced by a qualified elevator technician once per year for optimal performance and service life.

Advantage Elevator System offers an Annual Service Plan(s) for a yearly fee.

The Basic Annual Service Plan offers subscribers discounted rates on additional service calls for their elevator, along with ongoing professional inspection and basic maintenance.

The Annual Service Plan includes a meticulous 25-point inspection and basic maintenance service conducted by Advantage Elevator System once annually. Serviced components encompass the pump unit, controller, cab, gate, doors, locks, and hoistway.

After installation of your elevator is complete you will be provided with an enrollment form along with this manual.

If you did not receive the enrollment form, please contact the office at: 772-461-0030.

NOTE:

Ultimately, it is the responsibility of the homeowner to ensure that the maintenance and upkeep of your elevator are performed on a regular basis.

Units that are installed in extreme/adverse environments or experience excessive usage are recommended to be serviced more than once a year. Please consult with our sales and service staff if these situations apply to your elevator.



WARNING:

DO NOT OPERATE: Pump controls and valve settings must ONLY be adjusted by Advantage Elevator System personnel.

One Year (365 Day) Limited Warranty

This warranty is applicable to all new products sold and installed by Advantage Elevator Systems. The coverage extends for a period of one (1) year from the date that the elevator and/or other purchased products are delivered to the contractor or purchaser. All parts and labor are covered to be free from defects in workmanship and materials for this timeframe.

Warranty Claims

Warranty claims can be made by calling 843-637-4677 for an appointment.

All substantiated claims will be repaired during normal business hours of 8:30 am to 4:30 pm, Monday through Friday.

If the warranty has expired on your product, typical service and replacement rates will apply.

Installation Details For Your Records

Purchaser _____

Address _____

Installed Product _____

Completion date _____

* Warranty Period is One (1) Year from completion date

IMPORTANT — Please Read

Only a representative of Advantage Elevator System or a professional with elevator training and licensing to install, adjust, service or modify any mechanical or electrical device involving an elevating device should be permitted to work on this equipment. Ignoring this warning will compromise the safety of the system and can result in serious injury or death. Advantage Elevator System accepts no liability for damage to property, warranty claims or personal injury, including death, in this circumstance.

Please use your own discretion to have your equipment serviced more frequently if usage, environment, or local jurisdiction deems necessary. Advantage Elevator System will attempt to identify situations/installs where equipment may be susceptible to accelerated degradation. Ultimately though, it is the responsibility of the homeowner to maintain this elevator with regular inspection and service.

Refer to this manual for specifications, operating instructions and maintenance of your residential elevator.

Advantage Elevator Systems equipment is designed and installed with passenger safety as top priority. After installation is complete, we recommend servicing your equipment annually at minimum to ensure compliance, safety, and longevity.

WARRANTY

On This Limited Warranty covers residential elevator equipment (the “Elevator” or “Products”) manufactured and/or sold by Advantage Elevator LLC (“AES”) and installed by AES pursuant to its agreement with its Customer. When the Elevator is installed, adjusted, and operated in accordance with Manufacturer’s Instructions, AES will, for a period of 365 days from the date of substantial completion, provide a limited warranty for installation workmanship and for defects in materials or manufacturer workmanship on parts.

The Limited Warranty applies to the Elevator and Products installed at Customer’s residential property utilized primarily by the homeowner or family member(s) (“Customer”) only and is not valid on property used for commercial or rental purposes. Any repair or maintenance required due to vandalism, Acts of God, misuse and abuse, operator error, or equipment repaired or damaged by anyone other than a representative of AES is excluded from this Limited Warranty.

Performance under this Limited Warranty is specifically subject to Customer and/or General Contractor completing the Orientation provided by a representative of AES. Notwithstanding this Orientation, AES’s commitment and responsibility, hereto, begins upon substantial completion.

AES does not recommend and is not responsible for any modifications, alterations, installations, or replacements of its Products or component parts which are not made by a representative of AES. This Limited Warranty will be considered null and void if service has been performed on the Elevator or Products by anyone other than a representative of AES.

This Limited Warranty specifically excludes elevators installed by other Contractors not holding a Certificate of Competency or like equivalent as required by applicable state, county, or local regulations.

AES makes no other express warranties to the Customer and/or purchaser of this Product except as set forth herein. This Limited Warranty covers a consumer product. Customer is responsible for determining whether the Products, as installed, are fit for a particular purpose and suitable for Customer’s method, use and application.

THIS EXPRESS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. AES DISCLAIMS AND CUSTOMER AGREES THAT AES SHALL HAVE NO LIABILITY FOR ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, FITNESS FOR A PARTICULAR PURPOSE, HABITABILITY, INTENDED USE, WORKMANSHIP, WORKMANLIKE SERVICE, VALUE, OR CONSTRUCTION RESPECTING THE PRODUCTS, ELEVATOR AND WORK PERFORMED BY AES AND/OR SOLD PURSUANT TO THE PARTIES' AGREEMENT, OR ANY OTHER REAL OR PERSONAL PROPERTY WHATSOEVER WHETHER ARISING FROM AES' WORK, THE PARTIES' AGREEMENT, USAGE, TRADE, IMPOSED BY STATUTE, COURSE OF DEALING, CASE LAW OR OTHERWISE. THE LIMITED WARRANTY IS THE ONLY WARRANTY (EXPRESS, IMPLIED, OR OTHERWISE) GIVEN TO CUSTOMER BY AES.

CUSTOMER AGREES THAT AES HAS SPECIFICALLY BARGAINED FOR THIS DISCLAIMER AND LIMITED WARRANTY AND WOULD NOT ENTER THIS AGREEMENT WITH CUSTOMER IF AES DID NOT AGREE TO THE DISCLAIMER AND LIMITED WARRANTY.

Customer's Initials _____

This Warranty Does Not Extend to Incidental, Consequential, Special, or Direct Damages. AES's liability for any damages from use of this product is limited solely to repair or replacement of parts in accordance with the terms set forth above and these are the exclusive remedies available to Customer.

In the event this Limited Warranty is subject to any law requiring an extension to the Warranty period, an additional charge of \$600 per unit per year of extension shall be due and payable to AES upon commencement of Limited Warranty.

Customer's Signature

Safety Code

Your home elevator is governed by the National Safety Code for Elevators and Escalators. ASME A17.1 part 5.3, private residence elevator. Section 5.3.1.18.2.2, monitoring of the car door or gate switch electric contacts. This requires the elevator manufacturer to design the elevator controls safety switch on the elevator cab to be monitored to make sure it has not been disabled, jumped out, or tampered with.

WARNING, FAILURE TO FOLLOW THE GUIDELINES WITHIN THIS MANUAL CAN RESULT IN SEVERE INJURY OR DEATH:

No original equipment should be disabled, removed, moved or tampered with in any way except by a certified Advantage Elevator System technician or other licensed residential elevator company.

Do not allow children or pets to ride the elevator unattended or stand between the elevator gate and the landing door. Never allow children to play in or near the elevator.

Never enter the hoistway below or above the elevator for any reason. A moving elevator can cause severe injury or result in death for anyone in the hoistway.

PLEASE RETAIN THIS USER MANUAL FOR FUTURE REFERENCE



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