

Installation & Owners Manual HERCULES II 750

Vertical Platform Lift

MODELS:

AMGHERC750-4

AMGHERC750-6

AMGHERC750-8

AMGHERC750-10

AMGHERC750-12

AMGHERC750-14



Dealer:

This manual has been provided to assist you with lift installation and operation.
For further assistance please contact your authorized AmeriGlide dealer or
AmeriGlide's Technical Support Department.

Tel: 866-378-6648 Fax: 816-537-0641 Serial No:

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Using the Manual

This manual will provide step by step instructions on how to install and operate your lift. Read and understand the entire manual before beginning to install the lift.

If you have any questions, contact Technical Service at 1-866-378-6648.

INDICATIONS OF USE STATEMENT

The Hercules II 750 vertical platform lift assists with the transfer of patients or mobility impaired persons, up and down between levels of a residential or private facility.

WHEN YOU RECEIVE THE LIFT

- Check the lift for shipping damage. If you see any damage contact the freight carrier to file a damage claim.
- Verify that products match what's described on the packing list attached to the exterior packaging.



SPECIFICATIONS

750 lb Payload Capacity Vertical Travel 53" - 171" Foot Print Varies Platform Size 36" x 54" | 36" x 60" | 42" x 54" | 42" x 60" Input Voltage 115 VAC - 20 A 24 VAC or 24 VDC Control Voltage Platform Speed 10' min Motor $\frac{1}{3}$ HP - 90 VDC or $\frac{1}{3}$ HP - 24 VDC

SAFETY

- Read all instructions in this manual before installing or operating the lift.
- Do not exceed the maximum payload capacity of 750 lb.
- Do not ride on the lift until it is anchored in place.
- This product is designed only for lifting people and wheel chairs. Do not use it for any other purpose.
- Always wear eye protection while installing or servicing this product.
- Always disconnect this product from the electrical source before servicing it.
- Only use the fasteners supplied with this lift.
- Do not wear loose clothing or jewelry when working on this product.
- Do not disable any safety equipment or switches supplied with this lift.
- Stay away from all drive train components while the lift is operating.

CODE REQUIREMENTS

Your lift has been designed to meet ASME A18.1 section 2 and CSA B44.1/ASME A17.5, with the addition of certain options. Code requirements for Vertical Platform lifts vary depending on location. It is the installers responsibility to contact their local code enforcement office and determine all of the regulations they are subject to. You must do this before installing the Vertical Platform Lift.

Note:

Lift must meet NFPA70 (National Electrical Code)

SITE REQUIREMENTS

- The lift will require a 115 VAC 20 AMP grounded circuit.
- Outdoor Installations will require a GFI protected circuit. (check with jurisdiction)
- Only install the lift on a 4" thick, level 3,500 PSI reinforced concrete slab.
- Foot Print varies depending on platform size and options.

REQUIRED TOOLS

- Screwdrivers
- 1/2" Hammer Drill
- 3/8" Masonry Drill Bit
- Appliance Dolly
- Hammer
- Level
- Measuring Tape
- Socket Wrench Set
- Voltmeter

REQUIRED MATERIALS

4 Floor anchors

AmeriGlide recommends securing the lift using our Anchor Kit. If you purchase you own floor anchors they must use 3/8" bolts and have a minimum tensile strength of 6000 lb.

PREPARING TO INSTALL THE LIFT

Final Site Inspection

Verify the surface the lift will mount to is smooth and level. This surface must be made from 3,500 PSI reinforced concrete with a minimum thickness of 4".

Caution

Verify that the running clearance around the lift complies with ASME A18.1 codes for your area.

- The horizontal gap between the edge of the platform and the upper landing must no less than 3/8" and no greater than 3/4".
- The horizontal gap between the guard panel and any wall or barrier must be no less than 2" and no greater than 3".
- Verify that sufficient head room exists above the lift. The lift will require 6' 8" of clearance above the platform floor when the lift is at the upper landing.

Warning:

The area between the floor where the lift is mounted and the top landing must be covered by a smooth vertical fascia. This is to eliminate any pinch points between the platform and

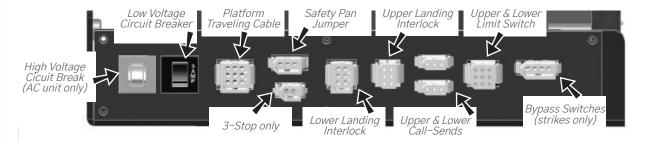
Connecting to Electricity

The lift will require a 115 VAC 20 AMP grounded electrical circuit. Depending on local codes, this connection may need to be routed in electrical conduit and hard-wired.

Warning:

Do not ride on the lift until it has been anchored in place.

Controller Harness Connections



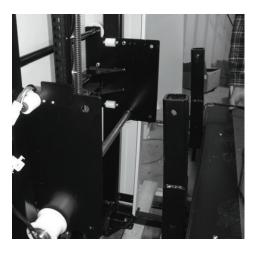
INSTALLING THE PLATFORM

Step 1: The mounting bolts, nuts and spacers that secure the platform to the lift carriage are packaged in the small parts box. Begin by locating these pieces and setting aside.





Step 2: Position the platform by aligning the support legs with the carriage flanges that protrude from the front cover.



Step 3: Align the four mounting holes with those on the carriage. Insert $1/2 \times 3$ " hex head bolts into each of the (4) holes. Install the low profile nuts on the upper bolts and the standard ones on the lower bolts.

Step 4: Plug in the harness for the platform safety pan and unplug the safety pan jumper on the controller (ref pg 5). Secure the harnesses under the clip on top of the carriage flange.



INSTALLING THE PLATFORM GUARD PANELS

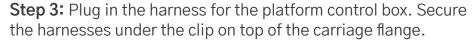
Step 1: Insert the guard panel posts in the pockets in the platform. The smooth side of the guard panel faces toward the center of the platform. Bolt each post in place with (2) $\frac{5}{16}$ -18 x 2" and (1) $\frac{1}{4}$ -20 x 2" hex head bolts.

If you have a 90° exit platform, install the end guard panel using the provided bracket and bolt to inner guard panel.



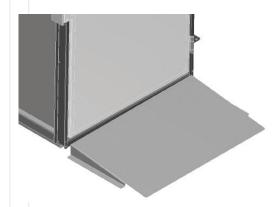


Step 2: Install the platform control box on the rear guard panel using screws and nuts through the panel.





INSTALLING FIXED RAMP



- Position the ramp after the lift is in its final location.
- Maintain a gap of ³/₈" to ³/₄" between the ramp and platform.
- Drill a pilot hole into the concrete and fasten using supplied concrete lags through ramp flanges.

INSTALLING AUTO-FOLDING RAMP (OPTIONAL)

Step 1: Install the ramp roller guide on the side of the lift tower using the screws already installed in the panels.



Step 2: Attach the two ramp pivot tabs to the lower landing sides of the platform. Reinsert the hex bolts, one of which will go through the guard panel post, and tighten.



Step 3: Attach the ramp to the pivot tabs using shoulder bolts and locking nuts. Tighten the nuts until they seat against the bolt shoulder.



Step 4: Attach the ramp roller arm by bolting it to the underside of the ramp.



The ramp roller should align and make contact with the ramp roller guide.



Anchors

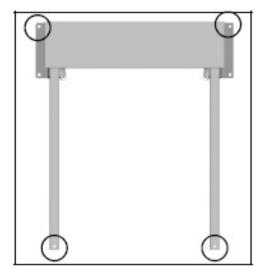
AmeriGlide recommends securing the lift using the concrete anchors provided. If you purchase you own floor anchors they must be 3/8" minimum of sufficient length. All four floor anchors must be installed correctly in accordance to their instructions.

Step 1:

- Position the lift in its final location.
- Verify that it is level and perpendicular to its surroundings and all running clearances are the proper dimension.
- Shim if necessary.

Step 2: Use the lift's base as a template. Drill 4 holes into the concrete making sure that the holes are deep enough to accept the anchors.

Step 3: Secure the lift in place by tightening the floor anchor bolts.

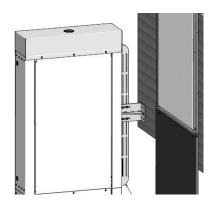


Step 4: (800 or taller models)

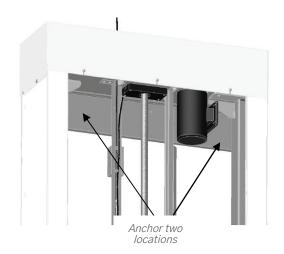
Taller lifts must have the top of the lift tower anchored into a solid surface to ensure running clearances remain constant.

There are two options for anchoring the top of the tower:

1. For lifts going up to a landing such as a deck or porch, the optional tower brace is the preferred method. Hardware is packed with tower brace.



 For lifts that are placed with the back of the tower against a solid wall such as inside of a hoistway, drilling two holes through the top tower cross brace and anchoring is preferred.



Tip

Concrete dust may have settled into the holes you just drilled. Use a shop vacuum to clean out these holes. This will ensure the floor anchors set correctly.

SETTING THE LIMIT SWITCHES

Your lift is equipped with upper and lower limit switches. The vertical location of these switches may be adjusted to fit your application. Typically the upper limit switch will need to be adjusted so the platform will stop level with the upper landing. The lower limit will typically not need adjusting.

Step 1: Verify the emergency switch is in the ON position. Run the lift in the up direction until the platform floor is level with the upper landing. Disconnect the lift's power (at the building's circuit breaker for AC units, at the battery box for DC units) before going to the next step.

Step 4: Loosen the bolts that attaches the upper limit switch assembly. Slide the assembly down the track until the lower switch in the assembly comes in contact with the lift's car. You should hear the limit switch click as contact is made. Retighten the set screw fastening the limit switch assembly in place.

Warning

Moving components can cut and crush. Do not operate the lift if you are in close proximity to any drive components. Be aware that loose clothing or jewelry may catch on moving parts.

Step 2: Remove the screws at the top of the lift that attach the front cover.



Step 3: Remove the front cover by tilting it forward and lifting upwards. The bottom of the front cover sits on a pin on either side of the lift frame. Set the cover aside in a safe location where it will not get damaged.





Step 5: Replace the front cover and secure it with the screws from step 2.

Step 6: Re-connect the lifts electricial power at the circuit breaker. Verify that the emergency switch is in the on position.

Step 7: Run the lift in the down direction for several inches. Next, run the lift in the up direction. Continue to press the up button until the upper limit switch has caused the lift to stop. Verify that the platform has stopped level with the upper landing. If it has not, readjust the limit until it is level.

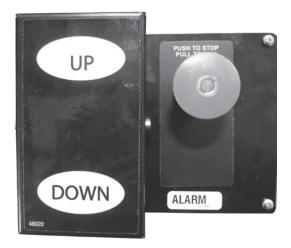
VERIFYING OPERATION OF THE LIFT

Caution

Complete the following section before training the customer to use the lift.

Step 1: Run the lift up and down for 5 complete cycles. Hold the direction button down and allow the limit switches to stop the lift. At the top, verify that the platform stops level with the upper landing. At the bottom, verify the access ramp (if equipped) unfolds and rests on the ground.

Step 2: Verify the operation of the Emergency stop switch. When this switch is pushed in the lift should not run in either direction. When this switch is turned and pulled back out, the lift should operate normally.



Step 3: Verify the operation of the sensor pan underneath the platform. Start with the lift at the top landing. Press up on the sensor pan. While holding the pan in this location, press the down switch on the platform. The lift should not run.

Warning

Do not run the lift if anyone is under the platform.

MANUAL OVERRIDE

Your lift is equipped with a manual handcrank, to be used in the case of a power failure.

Before using the manual handcrank verify that it's use is required. Check that the emergency stop switch is pulled out. Check that the electrical cord is connected to the supply. Also check that the buildings circuit breaker has not tripped. Try to run the lift by pushing both the up and down buttons. If the lift still will not run, complete the following steps:

Step 1: Disconnect the power from the lift.

Warning

Do not service or operate the manual handcrank while the lift is connected to electricity.

Step 2: Remove the screws and remove the top cap at the top of the tower.



Step 3: Insert the manual handcrank into the opening on the top of the brake assembly. It may be neccesary to slightly rotate the handcrank until it fully seats down on the hex portion of the brake. Rotate the crank to raise or lower the platform.

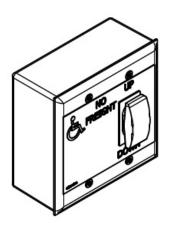
Warning

Never operate the lift while the manual override crank is inserted into the lift.

CALL-SENDS (OPTIONAL)

The optional Call-Send controls are to be used at the upper and/or lower landings to call the platform to you or send it to the other landing.

They should be mounted on the wall at each landing. ASME A18.1 code is 15" to 48" from floor.



A length of multi-conductor wire will need to be ran from the bottom of the lift tower up to the landing Call-Sends. Consult local codes for type and mounting requirements. After wiring is completed, the wiring harness must be plugged into it appropriate receptacle on the controller (ref pg 6).

Wiring Connections

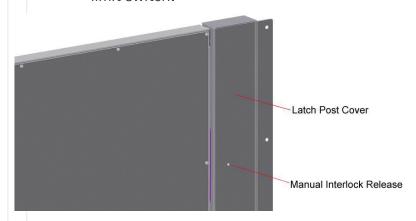
<u>Call-Send</u>	<u>Lift Harness</u>
Blue	Blue
White	White
Red	Red

TOP LANDING GATE (OPTIONAL)

The optional top landing gate is provided with a combination mechanical lock and electric contact (interlock).

The interlock:

- Prevents the lift from running if the gate is not closed.
- Prevents the gate from being opened if the platform is not at the top landing.
- Unlocks when the lift is on the upper limit switch.



A crescent shaped key is provided to manually unlock the gate during installation. The key is inserted from the back side to lift up on the solenoid that holds the gated locked.

Mount the gate by placing onto the upper landing making sure to align the gate opening with the platform (outer guard rail not shown for clearity). There are a number of attachment holes provided in the threshold portion of the gate for mounting using wood lag screws or concrete anchors as appropriate.

Remove the latch post cover and connect the call-send and interlock wire harnesses.

The vertical posts of the gate must be attached to a supporting structure, (the gate is not designed to be freestanding).

A length of multi-conductor wire will need to be ran from the bottom of the lift tower up to the landing gate. Consult local codes for type and mounting requirements. After wiring is completed, the wiring harness must be plugged into it appropriate receptacle on the controller (ref pg 6).

Wiring Connections

Interlock_Harness	<u>Lift Harness</u>
Black	Black
Black	Green
Yellow	White
Yellow	Orange
	* Blue
	* Brown

* Must be tied together

Call/Send Harness	<u>Lift Harness</u>
Blue	Blue
Yellow	White
Red	Red



EMI AND FLUSH STRIKE INTERLOCKS (OPTIONAL)

The optional EMI or Flush Strike Interlocks are provided with a combination mechanical lock and electric contact. They are to be used with existing doors.

The interlock:

- Prevents the lift from running if the gate is not closed.
- Prevents the door from being opened if the platform is not at the landing.

A length of multi-conductor wire will need to be ran from the bottom of the lift tower to each interlock. Consult local codes for type and mounting requirements. After wiring is completed, the wiring harness must be plugged into it appropriate receptacle on the controller (ref pg 6).

Flush Strike Interlock

Refer to the instructions inside the strike box for mounting requirements.

Flush Strike Interlock Wiring Connections

For AC powered lifts

Folger/Adams Strike Wires	Rectifier Wires	<u>Lift Harness Wires</u>
Purple	Red	_
Purple	Black	_
_	Yellow	Black
_	Yellow	Green
White	_	White
Orange	_	Orange
Yellow	_	Blue
Brown	_	Brown

NOTE: Blue and Green from strike not used.

For Optional DC powered lifts

Folger/Adams Strike Wires	<u>Lift Harness Wires</u>
Black	Black
Purple	Green
White	White
Orange	Orange
Yellow	Blue
Brown	Brown

NOTE: Blue and Green from strike not used.

EMI Interlock

- Position interlock to door jamb and mark mounting holes.
- 2. Fasten Interlock to door jamb with #8 wood screws.
- 3. Route 4-conductor Interlock cable thru hole in top of interlock and make wire connections.



4. Attach door keeper and emergency key plates to hoistway door.

EMI Interlock Wiring Connections





EMI	Lift Harness Wires
<u> </u>	EIITHAITICSS WIFES
Black (A)	Black
Black (B)	Green
Yellow (C)	White
Yellow (D)	Orange
_	Blue*
_	Brown*
_	Red

* Must be tied together when using an EMI Interlock.

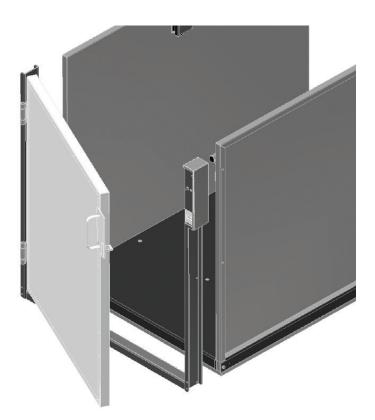
PLATFORM GATE (OPTIONAL)

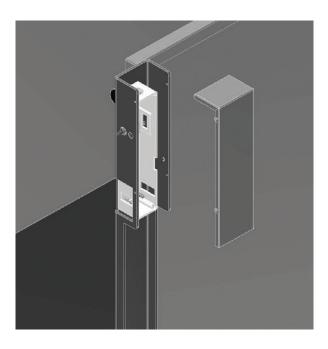
The optional platform gate is provided with a combination mechanical lock and electric contact (interlock).

The interlock:

- Prevents the lift from running if the gate is not closed.
- Prevents the gate from being opened if the platform is not at the bottom landing.
- Unlocks when the lift is on the lower limit switch.

A crescent shaped key is provided to manually unlock the gate during installation. The key is inserted from the back side to lift up on the solenoid that holds the gated locked. Mount the gate by placing onto the lower landing side of the platform. There are a number of attachment holes along the bottom and up the sides of the gate frame to attach to the platform and guard panels.



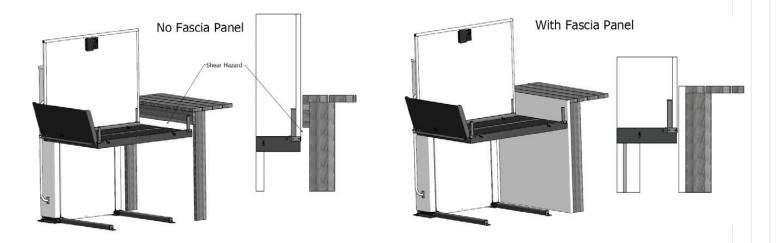


A wiring harness included on the gate will need to be routed along the gate frame, behind the rear guard panel and connected to its adjoining harness plug on the lift carriage. After wiring connection is made, the wiring harness must be plugged into its appropriate receptacle on the contoller (ref pg 6).

FASCIA PANEL (OPTIONAL)

A fascia panel provides a smooth surface for the platform edge to run against to prevent any shear or obstruction hazards and must be utilized.

A running clearance of no more than $\frac{3}{4}$ and no less than $\frac{3}{8}$ must be maintained between the edge of the platform and the fascia panel.



PLATFORM CONTROL WITH OPTIONAL E-STOP ALARM

If equipped, the e-stop button on the platform lights up and sounds an alarm when pressed. You will need to obtain a 6 VOLT lantern battery like the example below.



The battery can sit under the top cap to the right of the motor pulley. There is a wire harness for the battery located here. Wire #1 connects to the positive terminal and wire #2 to the negative terminal.

COMMERCIAL PLATFORM LIFT OWNERS SECTION





READ THE MANUAL THOROUGHLY BEFORE OPERATING THE LIFT.

Congratulations on the purchase of your AmeriGlide Vertical Platform Lift. This lift has been engineered to provide trouble free service for many, many years. Please read this manual completely before operating your lift.

SAFETY

- Do not exceed the maximum payload capacity of 750 lb
- Do not ride on the lift until it is anchored in place.
- This product is designed only for lifting people and wheel chairs. Do not use it for any other purpose.
- Make sure any obstructions are cleared from underneath the platform area before use.
- Make sure both the passenger and wheelchair are completely on to the platform before using.
- Do not disable any safety equipment or switches supplied with this lift.
- Do not attempt to service the lift yourself. Contact your AmeriGlide dealer for assistance.
- Do not allow children to operate or play around the lift.
- Read all instructions in this manual before installing or operation the lift.

CONTROLS



Emergency Stop

In an emergency push this red button to stop the lift. Turn the button clockwise to run.

Up

Controls upward movement of lift platform. To move platform up, depress and hold the upper half of the rocker switch. To cease movement, release switch.

Down

Controls downward movement of lift platform. To move platform down, depress and hold the lower half of the rocker switch. To cease movement, release switch.

Keylock (optional)

Disables controls from operating when keylock is turned off.

OPERATING THE LIFT

Step 1 – Up: Drive onto and stop in the middle of the platform. Apply the brakes of your chair or scooter.





Step 2: Verify that the emergency stop button is not activated by giving it a quick pull on the stop button.



Step 3: Press and hold the UP rocker. The lift will move in the up direction and stop when it reaches the upper landing.

Step 4: Release the brakes on your chair or scooter and drive off the platform.



Warning

Always verify the lift's platform has stopped level with the upper landing. If not contact your AmeriGlide Dealer for assistance.

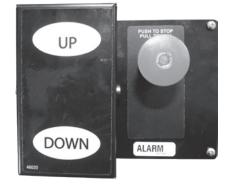


Step 1 – Down: Drive onto and stop in the middle of the platform. Apply the brakes of your chair or scooter.

Step 2: Verify that the emergency stop button is not activated by giving it a quick pull on the stop button.



Step 3: Press and hold the DOWN rocker. The lift will move in the down direction and stop when it reaches the lower landing.

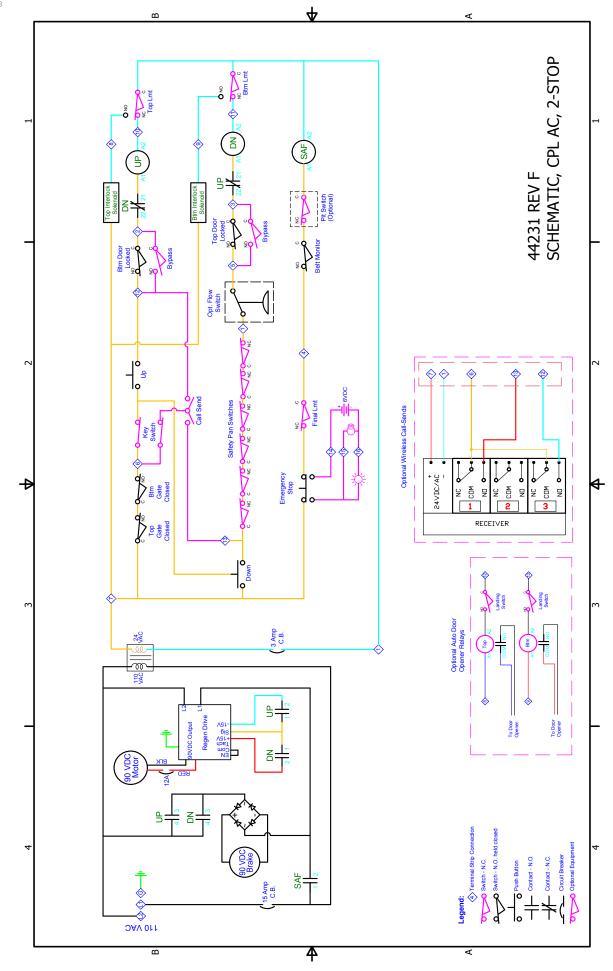


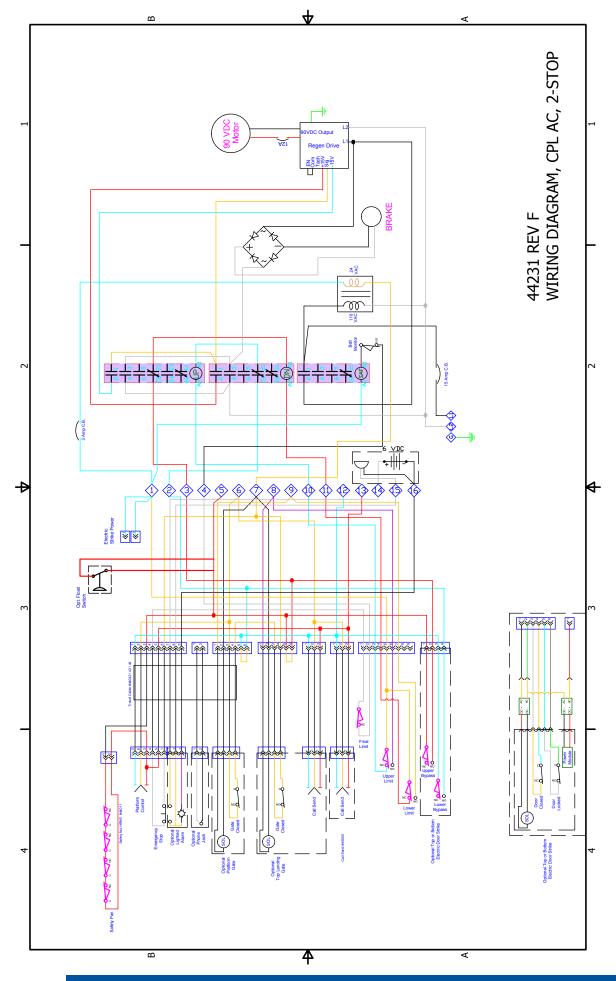


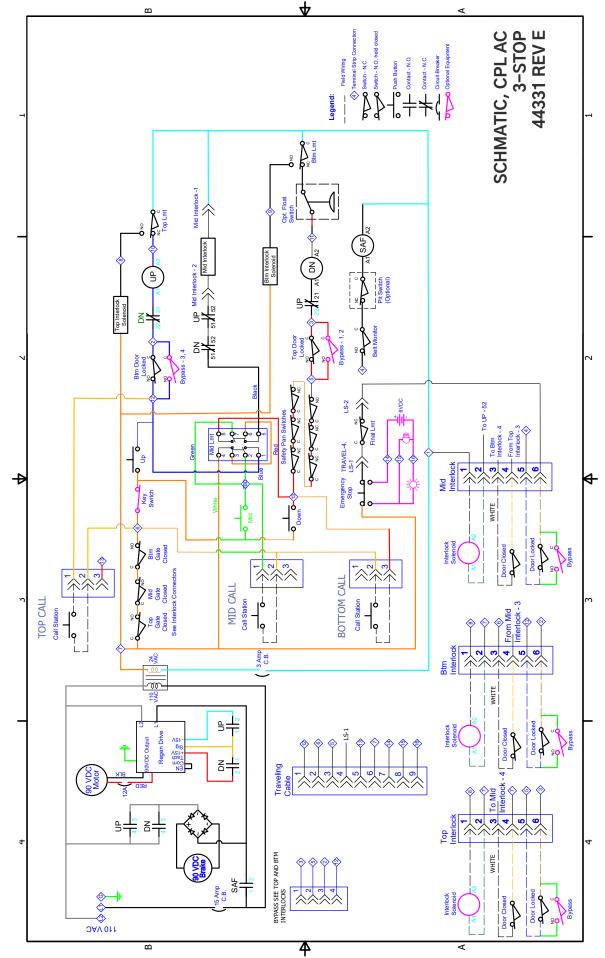
Step 4: Release the brakes on your chair or scooter and drive off the platform.

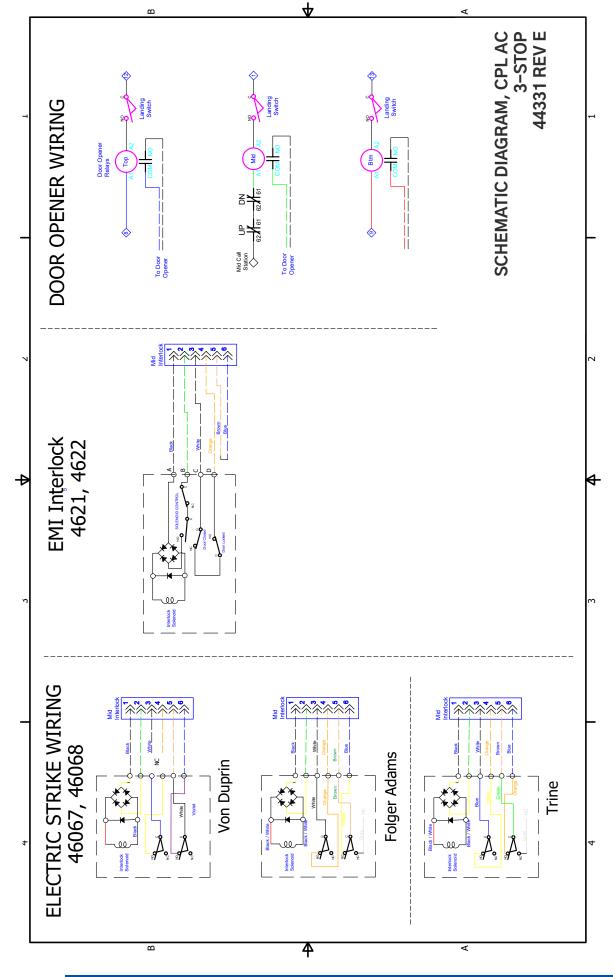
Warning

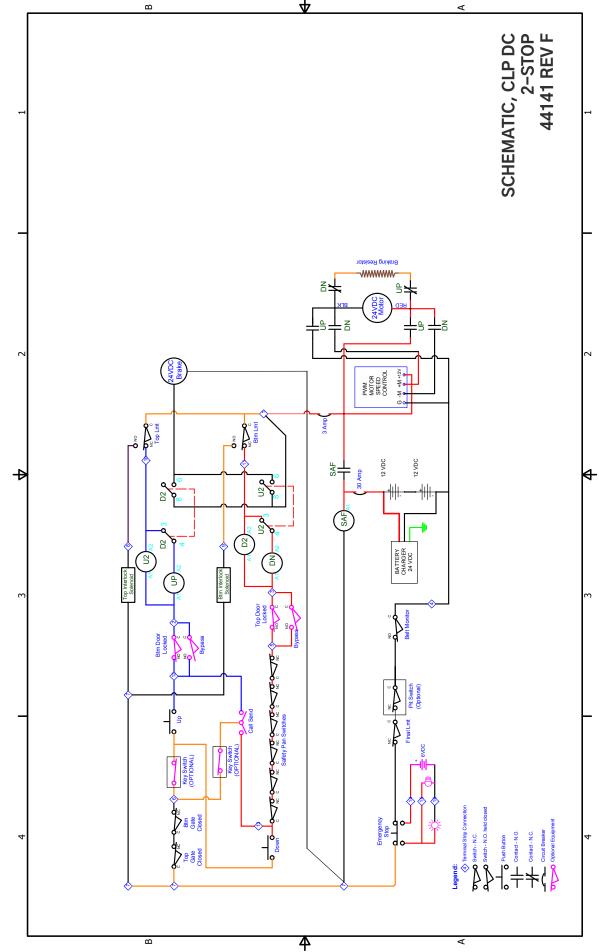
Always verify the lift's platform has stopped level with the upper landing. If not contact your AmeriGlide Dealer for assistance.

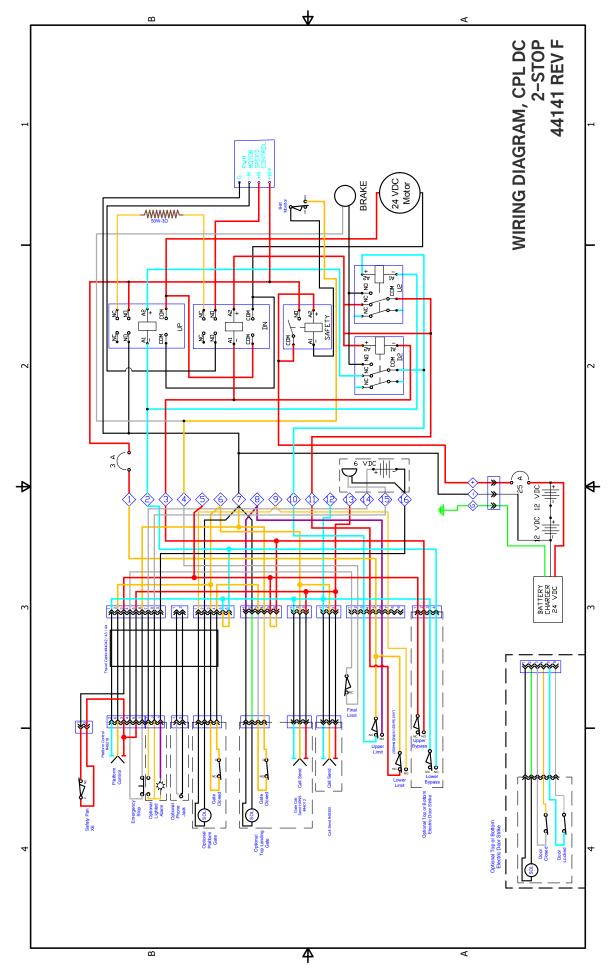


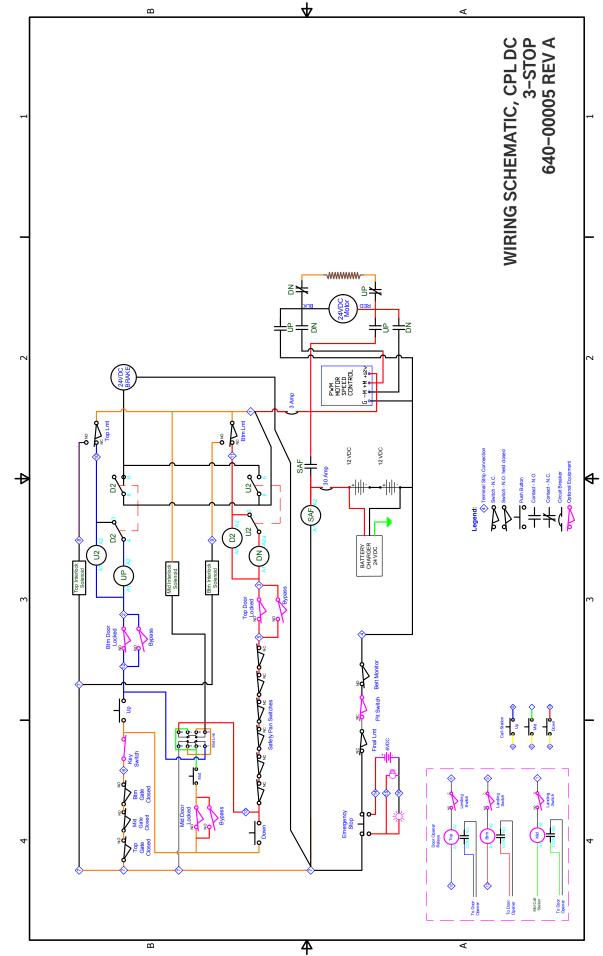














Hercules II CPL- two year warranty certificate

LIMITED WARRANTY CERTIFICATE

Products Covered: HERCULES II

PLEASE FILL OUT ALL FIELDS AND RETURN WITHIN TEN (10) DAYS OF PRODUCT INSTALLATION.

Mail to AmeriGlide, 2075 47th Street, Sarasota, FL 34234. AmeriGlide warrants to the original purchaser of a Hercules Commercial Vertical Platform Lift (CPL) manufactured by us to be free from defects in material, mechanical and electrical components (parts) for a period of two (2) years, provided that the products have been installed, maintained and operated properly according to the AmeriGlide Installation and Owner's Manuals.

EXCEPTIONS TO THIS LIMITED WARRANTY ARE: PLEASE READ CAREFULLY

- AmeriGlide CPL's and EPL's installed outdoors must include the Premium Protection Package to maintain 2-year warranty; otherwise warranty is limited to one (1) year.
- Batteries are limited to one (1) year with a AmeriGlide supplied/approved charger.
- Damage resulting from improper installation or operation
- Additional parts/labor related to code compliance that were not identified on the original order
- Negligence, alterations, abuse or misuse of the equipment
- Fire, flood, acts of God
- Shipping damage

- Parts used that are not approved by AmeriGlide
- Labor fees for installation work, repair or service calls are not covered
- Outdoor installation within 1 mile of a coastline reduces warranty to 180 days and expressly excludes rust after 30 days. Warranty is extended to 2 years with Premium Protection Option.
- Due to the nature of steel construction being permanently placed in an outdoor environment and its inherent unpredictability, <u>minor</u> <u>paint defects and cosmetic rust are not covered after 30 days</u> by AmeriGlide's Limited Warranty.
- AmeriGlide enclosures, when used, are designed to protect a CPL and its users from being directly affected by the elements.

It is NOT intended nor designed to be completely water proof.

This warranty starts on the date of initial product installation (not to exceed 90 days from the date of manufacture), provided the warranty certificate is completely filled out and returned to AmeriGlide within ten (10) days of installation. AmeriGlide and its dealers shall not be liable for any consequential, special or incidental damages arising out of the purchase or use of the unit or resulting from the breach of this Limited Warranty, or any implied warranty. The limit of liability of AmeriGlide and its dealer hereunder shall be the unit's purchase price. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, or legal remedies, so these above limitations may not apply to you. All warranty claims must be reported to the dealer from whom the lift was purchased as they have responsibility for handling your warranty claim. The dealer is to contact the Technical Services Department of AmeriGlide and provide the serial number of the product along with a description and evidence of the defect(s) supporting a warranty claim. Dealers may charge for labor, service, travel, or other associated costs to make repairs, and such charges are not covered by this Limited Warranty. It is permissible to have any repairs or replacement work done as a result of any defects in material and workmanship by someone other than the Dealer under this Limited Warranty. However, the Limited Warranty does not cover any charges or expenses assessed by any such other person or company performing such repairs or replacement work. All parts used to replace defective materials must be genuine AmeriGlide parts to be covered by this Limited Warranty. This Limited Warranty gives you specific legal rights, and you may have other rights which vary from state to state. AmeriGlide will not be charged for labor, consequential damage or repair expenses. AmeriGlide will not, under any circumstances, be liable for the loss of the use of its products or loss of time. Defective parts must be returned, if requested, prepaid, to AmeriGlide for inspection prior to credit or replacement. At AmeriGlide's discretion, any part found to have been modified, over-stressed, damaged by accident, or misused is not covered by this warranty. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, INCLUDING ALL IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE LIMITED WARRANTY DESCRIBED HEREIN.

PRODUCT INFORMATION:	PURCHASER INFORMATION:
Model:	Name:
Premium Protection Package: ☐ Yes ☐ No	Mailing Address:
Serial Number:	Installation Address (if different):
Date of Installation:	
Type of Installation: ☐ Indoor ☐ Outdoor ☐ Residential ☐ Commercial	Phone:Email:
DEALER/INSTALLER INFORMATION	ADDITIONAL INFORMATION:
Company Name:	How did you hear about AmeriGlide?
Installer Name:	☐ Dealer ☐ Internet ☐ Magazine ☐ Friend/Family ☐ Other
Address:	I selected AmeriGlide due to its (select all that apply):
Phone:	☐ Style ☐ Dealer ☐ Own Other AmeriGlide Product ☐ Ease Use
E-Mail:	☐ Recommendation ☐ Price/Value ☐ Key Feature

Effective August 1, 2017 TEC 2006 P/N: CSVF-000016 Rev B

NOTES:			