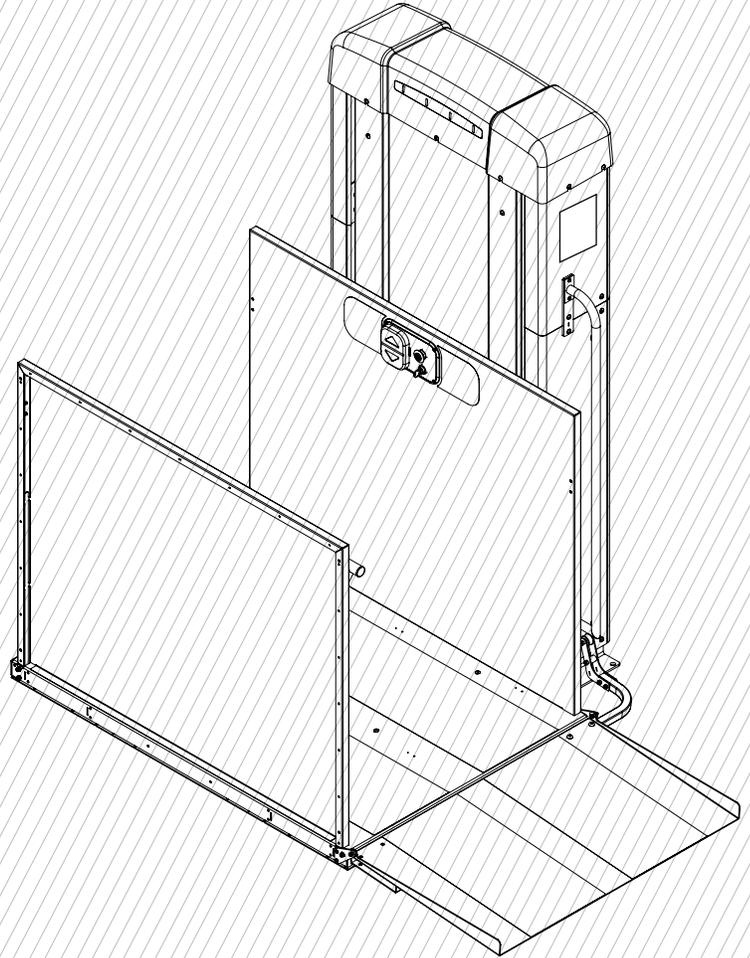


# STRATOS

## VERTICAL PLATFORM LIFT



INSTALLATION  
MANUAL

  
**AmeriGlide**  
ACCESSIBILITY SOLUTIONS



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SECTION 1

**SAFETY**

**SAFETY DEFINITIONS**



This safety alert symbol appears with safety statements. It means attention, become alert, your safety and the safety of others are involved! Please read and abide by the message that follows the safety alert symbol.

**⚠ WARNING**

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

**⚠ CAUTION**

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

**NOTICE**

*Indicates a situation which can cause damage to the lift and/or the environment, or cause the lift to operate improperly.*

*NOTE: Indicates a condition that should be followed in order for the lift to function in the manner intended.*

**ENVIRONMENTAL CONDITIONS**

The technician shall assess the surrounding conditions and verify that the location is acceptable before performing installation and/or servicing tasks. Installation shall not proceed in inclement weather conditions that jeopardize the technician's safety or ability to complete the installation in a safe manner. Tents, canopies or other outdoor provisions that help protect the work area from weather or other safety concerns are recommended when conditions warrant.

If you do not understand any portion of the installation or operation procedures, please consult Ameriglide's Technical Service Department at 866-378-6648. Do not attempt to install or use this lift if you have any hesitation or question. Serious injury or damage can result if proper procedures are not followed.

SECTION 2

# INTRODUCTION

## DEVICE NAME: AMERIGLIDE STRATOS - VERTICAL PLATFORM LIFT

Indications of Use: The Ameriglide Stratos Vertical Platform Lift is designed to assist the transfer of patients or mobility impaired persons and their mobility device, up and down levels of a commercial facility or residence.

### READ AND UNDERSTAND

This manual provides instructions for the proper installation and service of the Ameriglide Stratos Vertical Platform Lift which is critical to the lift's safety, performance and durability. Please refer to the Owner's Manual for operating instructions. Any alterations to the equipment without written authorization by the manufacturer is prohibited and will void the warranty.

### TECHNICAL SPECIFICATIONS

Visit [Ameriglide.com](http://Ameriglide.com) for specifications on the particular lift model and configuration.

### CODE STATEMENT

The Ameriglide Stratos lift has been designed to meet ASME A18.1 "Safety Standard for Platform Lifts and Stairway Chairlifts" under section 2 or section 5 and has been certified to CAN/CSA-B44.1/ ASME A17.5 "Elevator and Escalator Electrical Equipment".

Code requirements for Vertical Platform lifts may vary depending on location. It is the installers responsibility to contact their state, city or local code enforcement office and determine all the regulations the lift and installation are subject to. You must do this before installing the Vertical Platform Lift.

### APPLICABLE STANDARDS BASED ON INSTALLATION TYPE

Commercial and residential installations require compliance to the ASME A18.1 safety code and other codes that may be adopted by state, city and local code authority having jurisdiction.

To meet the full intent of ASME A18.1 regulation the installer is required to contact their state, city or local code authority having jurisdiction for permits, adopted rules and inspections of the vertical platform lift.

## **REQUIREMENTS UNDER ASME A18.1**

ASME A18.1 Safety Standards for Platform Lifts and Stairway Chairlifts under Section 2 or Section 5.

The Ameriglide Stratos Vertical Platform Lift is to be installed according to all applicable codes in accordance with ASME A18.1 - which is the responsibility of the installer - ASME A17.5 and CAN/CSA-B44.1.

### **ASME A18.1 SECTION 2: VERTICAL PLATFORM LIFTS**

*Section 2* applies to vertical platform lifts installed in locations other than in or at a private residence for use by the mobility impaired.

#### **RUNWAYS**

Runways shall be installed in accordance with 2.1.1, 2.1.2, or 2.1.3. Runway construction for lifts that penetrate a floor must comply with 2.1.1 and with the building code.

*NOTE: There are 3 different sections of rules for a commercial application.*

- *2.1.1 Runway Enclosure Provided*
- *2.1.2 Partial Runway Enclosure Provided*
- *2.1.3 Runway Enclosure Not Provided (code has a height restriction under rule 2.7)*

### **ASME A18.1 SECTION 5: PRIVATE RESIDENCE VERTICAL PLATFORM LIFTS**

*Section 5* applies to vertical platform lifts installed in or at a private residence for use by the mobility impaired.

#### **RUNWAYS**

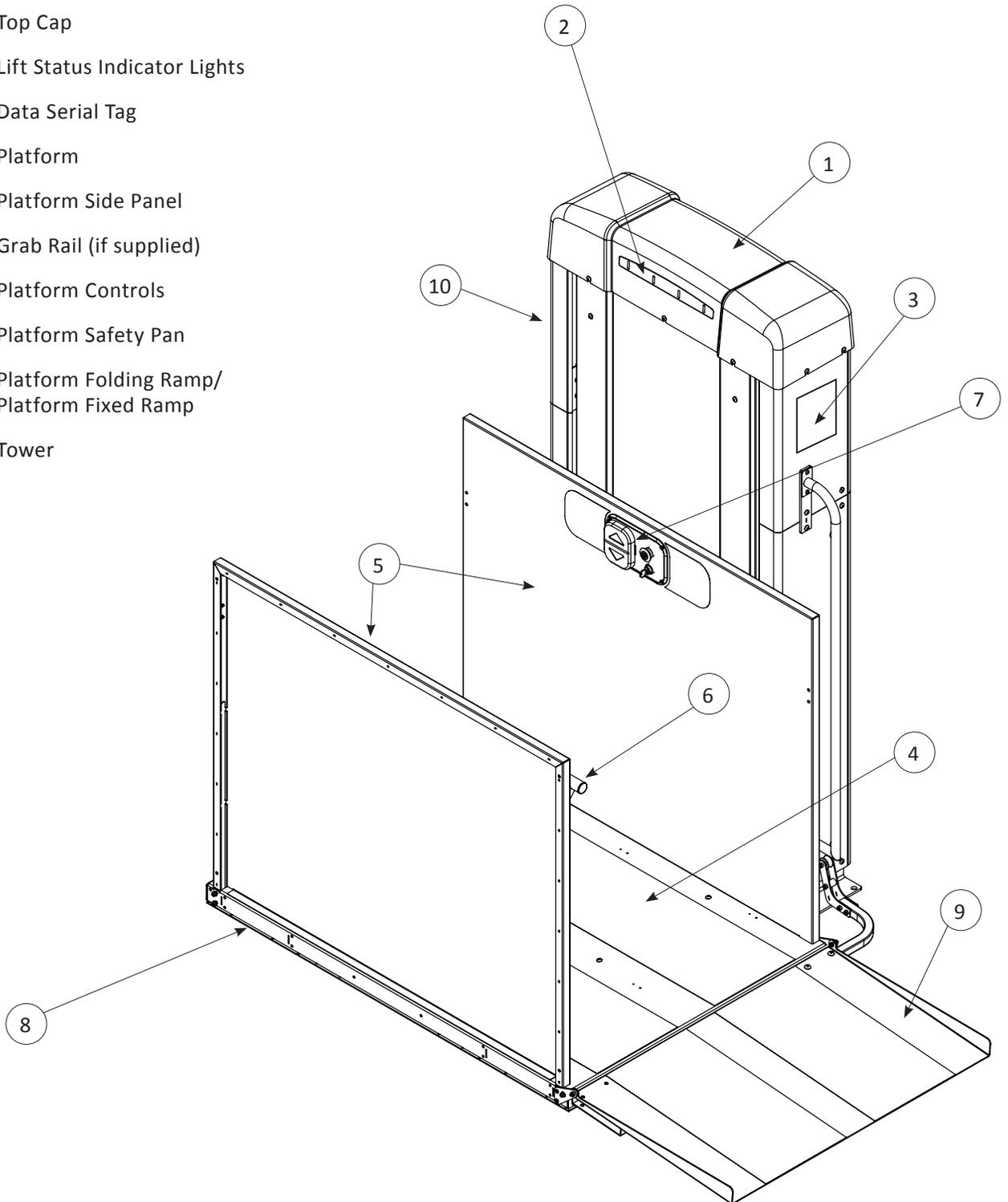
Runways shall be installed in accordance with 2.1.1, 2.1.2, 2.1.3, or 5.1.1. Runway construction for lifts that penetrate a floor must comply with 2.1.1 and with the building code. Only lifts installed in conformance with 2.1.1 shall serve more than two landings.

### **STATEMENT OF USE**

Stratos units with lift heights below 101" (VPL400-800) are intended for a maximum operation of 24-cycles per hour. Units with lift heights above 101" (VPL1000-1400) are intended for a maximum operation of 12-cycles per hour.

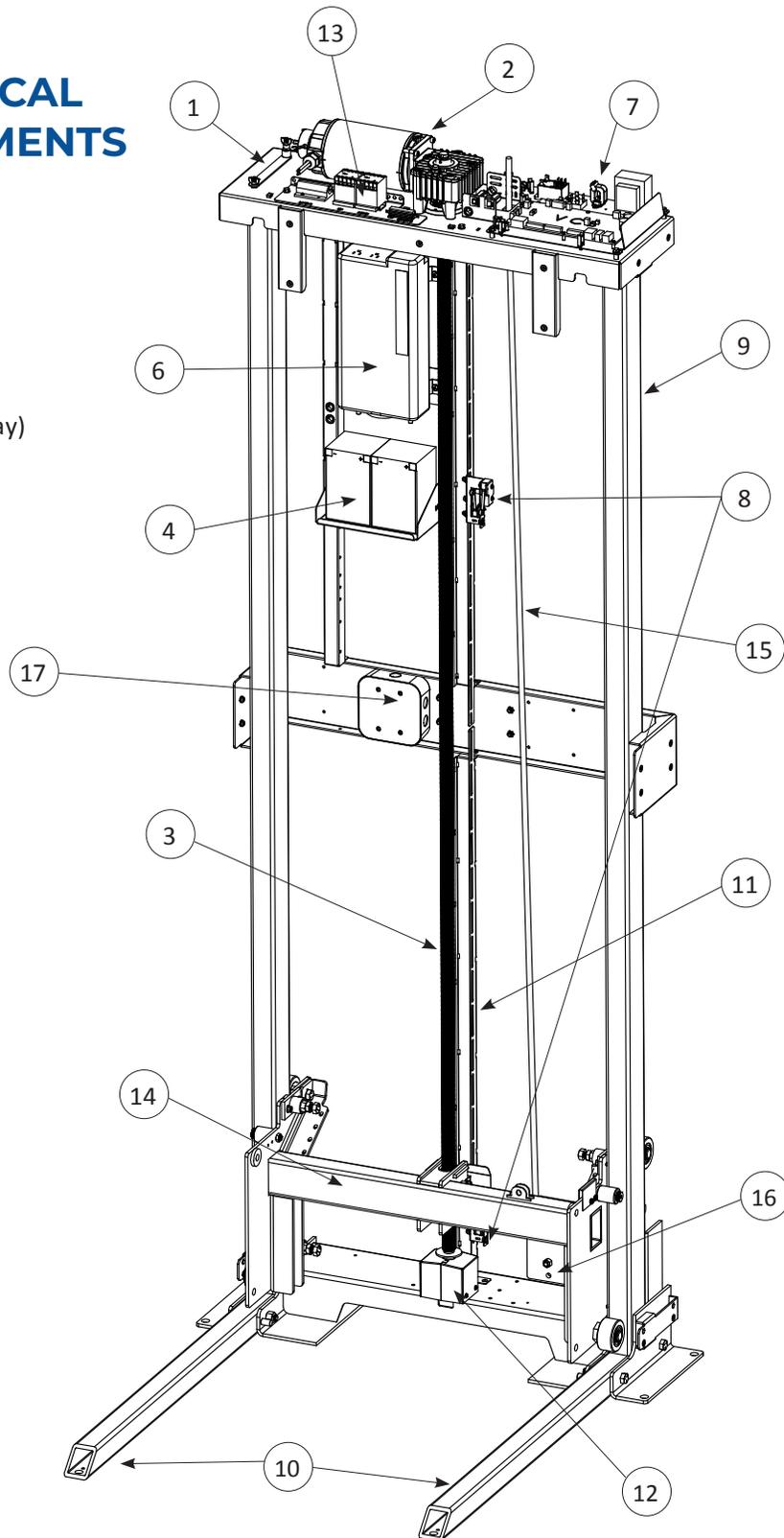
## KEY VERTICAL PLATFORM LIFT ELEMENTS

1. Top Cap
2. Lift Status Indicator Lights
3. Data Serial Tag
4. Platform
5. Platform Side Panel
6. Grab Rail (if supplied)
7. Platform Controls
8. Platform Safety Pan
9. Platform Folding Ramp/  
Platform Fixed Ramp
10. Tower



## KEY INTERNAL VERTICAL PLATFORM LIFT ELEMENTS

1. Manual Lowering Tool
2. Motor / Gearbox
3. ACME Screw
4. Batteries (if supplied)
5. Battery Charger and assembly (tray) (if supplied) (not shown)
6. Inverter (if supplied)
7. Control Electronics Assembly
8. Upper / Lower / Final Limit Switches
9. Tower Frame
10. Tower Legs
11. Wire Channel
12. Over-Speed Safety Assembly
13. Motor Contactors
14. Carriage
15. Trailing Cable
16. Cable Tensioning Pulley
17. Main Power Supply Hook-up



## SECTION 3 **PREPARATION**

Installations may vary to some degree, but below are the basic tools to have on hand for a Vertical Platform Lift installation.

If you have any questions, concerns or comments, please contact our Technical Service Department at 866-378-6648 or tech@Ameriglide.com.

### **REQUIRED TOOLS AND HARDWARE**

- Tape Measure
- Grounding Strap
- Square
- Level
- Multimeter
- Wire Cutters, Wire Puller
- Stripper, Crimping Tool
- Hammer Drill
  - $\frac{3}{8}$ "
- Wrench Set:
  - $\frac{7}{16}$ "
  - $\frac{1}{2}$ "
  - $\frac{9}{16}$ "
  - $\frac{3}{4}$ "
- Allen Wrench:
  - $\frac{1}{8}$ "
  - $\frac{3}{16}$ "
  - $\frac{5}{16}$ "
- Torx Wrench
  - T20

- No. 1 Phillips Head Screwdriver
- No. 2 Flat Head Screwdriver
- No. 2 Phillips Head Screwdriver
- Marking Implement
- $\frac{3}{8}$ " Nut Driver Bit (with 1.5" min reach) or  $\frac{3}{8}$ " socket, extension and ratchet
- Concrete Drill Bits
- Temporary Power Means
- Precision Screwdriver Set
- Yellow / 74B wire Nut
- Anchors for Fixed Ramp (*if specified*)

### **RECOMMENDED TOOLS**

- Work Lights (Wired or Wireless)
- Fish Tape
- Ladder
- Steel Toe Shoes
- Safety Glasses
- First Aid Kit
- Box Cutter
- Hard Hat
- Shop Vacuum
- Shop Towels and General Purpose Cleaner

## BOX CONTENT

Inspect all of the boxes for damage or missing parts. If you see any damage contact the freight carrier to file a damage claim and contact Ameriglide.

Verify the products match those described on the packing list attached to the exterior packaging. If items are missing or are incorrect, contact Ameriglide.

## REQUIRED COMPONENTS NOT SUPPLIED

*NOTE: We recommend electrical supply to be installed by an electrician, per the NFPA 70.*

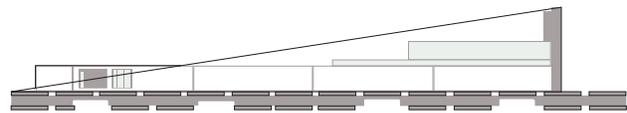
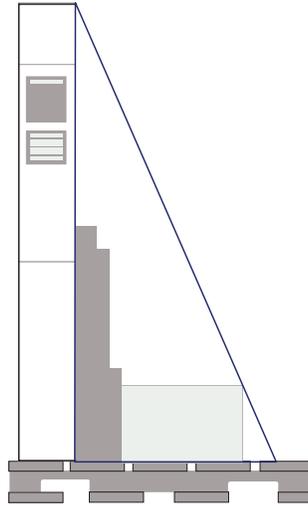
- 2-Pole Fused and Lockable Disconnect
- Wire, Conduit and Disconnect to meet NFPA 70 code
- Dedicated Electrical Lead (per local code)

## UNLOADING

- The 4' VPL is shipped standing up shrink wrapped to a pallet. The pallet dimensions are 48" x 48" x 83". Units are screwed into the pallet, installers will require a 3/4" wrench socket to remove screws.

A lift gate is unable to be used on models 6' or taller which are shipped laying back. A pallet jack or forklift can be used to set into place.

*Note: Must have a loading dock, pick up the VPL at the shipping terminal, or ship it directly to the installation site. This information must be documented on the evaluation form.*



VPL's weigh between 800 - 1500 lb, depending on the height. The following may be necessary to assist in positioning:

- Additional Manpower
- Fork Lift
- Crane
- Pallet Jack
- Lever Bar Dolly

## UNPACKING

1. Unwrap the VPL and set the following items aside:
  - Small Parts Box
  - Ramp (if provided)
  - Platform Panels
  - Platform
  - Gates
2. Remove the tower from the pallet.
3. Perform pre-delivery inspection

## CONCRETE

- Concrete pad should be no less than 4" thick, 3500 PSI reinforced, and must be level. The size of the concrete pad may vary depending on the size of the VPL footprint. Concrete at the bottom approach to the VPL must be large enough to turn a mobility device around. Pay close attention to the slope of existing concrete where the VPL is going to be installed. Existing concrete on the exterior of a house or building are normally sloped to shed water. The normal slope is about 1/8"-1/4" per foot to provide adequate drainage. Steel shims should be used to level the tower when the existing concrete has a normal slope. If the existing concrete has greater slope than 1/4" per foot, it should be reworked and leveled before installing the VPL.

 **CAUTION**

**Wood shims should never be used on either inside or outside applications.**

*NOTE: Do not shim more than 1/2".*

- Ameriglide recommends securing the lift using our Anchor Kit

## MATERIAL HANDLING

 **CAUTION**

**Do not lift unit from bottom of the platform. This will cause damage to the safety systems.**

- It may be necessary to move the VPL around once it's on the job site. Extra material handling equipment such as manual carts, a pallet jack, fork lift, and/or crane may be needed. There may be times when VPL will have to be moved by man power. All of the tower panels can be removed to reduce the weight of the tower. Care should be taken not to scratch or damage panels when removing, carrying, and reinstalling them.

- Special care must be taken to protect any landscaping or flooring surfaces that might be damaged by the uses of material handling equipment.

## HOIST WAY (SHAFT)

- If a shaft is needed and is being built by someone other than the installer, it's important to provide detail drawings and specifications for the shaft way to the builder. The drawings must include any rough in electrical requirements for gate/door, interlock, or call send wiring.

*NOTE: Hoistway must comply with the IBC or IRC building codes.*

## SITE PREPARATION

- Review and confirm the power requirements for power supply and disconnect per NFPA 70.
- In preparation for receiving the lift for installation a final site inspection must be completed to ensure the mounting surface for the lift complies or exceeds Ameriglide's recommendation for the concrete slab. The size of the concrete slab must be large enough for the lift and the approach for the mobility device.
- If there was a blueprint created for the project check that all work matches the blueprint. Running clearance measurements should be double checked for the platform and fascia, guard panels and wall/barrier, and the platform top landing and overhead clearance. Ensure there are no pinch points.
- If doors are supplied by others check that they meet ASME A18.1, flush mount doors are required. If other non Ameriglide supplied equipment (power door openers, interlocks, and/or door strikes) are going to be used, check compatibility with Ameriglide equipment.
- The front tower panel and the top cover must be removed before any power, gate/door, call send connection can be made.

SECTION 4  
**INSTALLATION**

**NO HOISTWAY / NO FLOOR  
PENETRATION**

1. Remove 5X front screws.
2. Remove the top cap by loosening the four (4) side screws and lifting the top cap partially, then disconnect the cable for status indicator lights from the control board. *See Figure 4-1.*

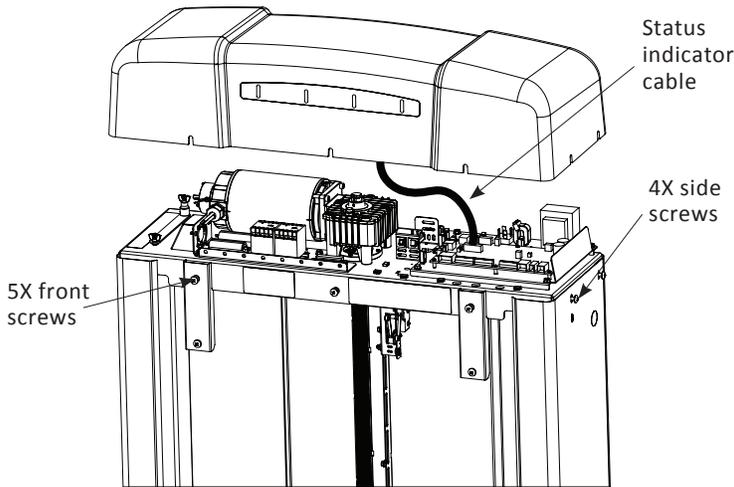


Figure 4-1

**⚠ CAUTION**

Be careful when removing the top cap as the status indicator cable is clipped to the harness and could result in wires being pulled and damaged.

3. Remove the front panel by rotating it out slightly and lifting it out of the lower slots.
4. Position the VPL tower close to the upper landing and stand it up using appropriate material handling processes.

*NOTE: Tower frame should only be lifted by the rectangular tubes below the top plate.*

**PLATFORM CONNECTION**

1. Remove and discard the temporary bolt and nut ( $\frac{9}{16}$ " hex) that secures the tensioning pulley to the carriage for shipping. This bolt is indicated with a red tag. Suspend the pulley assembly behind the carriage. *See Figure 4-2.*

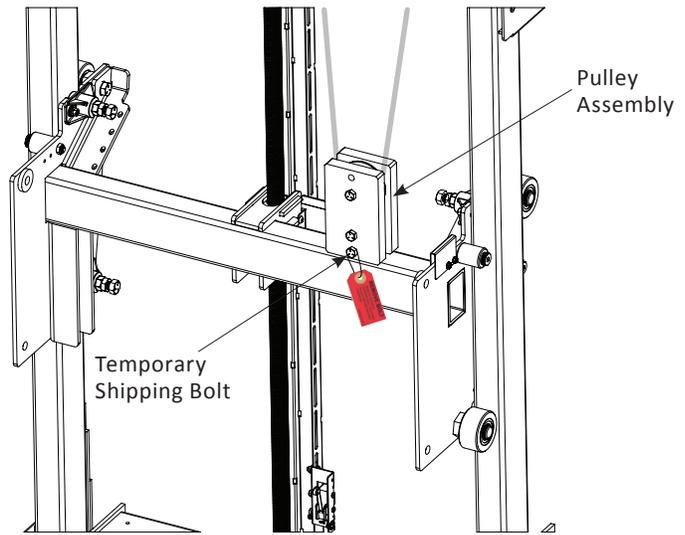


Figure 4-2

*NOTE: Be sure that the pulley assembly is suspended with the sheave at the top and that it is clear to move through the lift range.*

2. Connect the 8-pin platform control box connector.

**⚠ WARNING**

Verify that hot, neutral and ground conductors where the temporary power cord will connect are correct. Incorrect wiring or lack of ground could cause unit malfunction.

- Remove 4X screws on junction box cover inside the tower. Apply temporary power to the lift through the junction box inside the tower. Connect temporary 120V AC to the black and white wires. Route temporary wires out of a knock-out in the side of the junction box, down through back of center wire channel to the bottom of the lift and to temporary power source. *See Figure 4-3.*

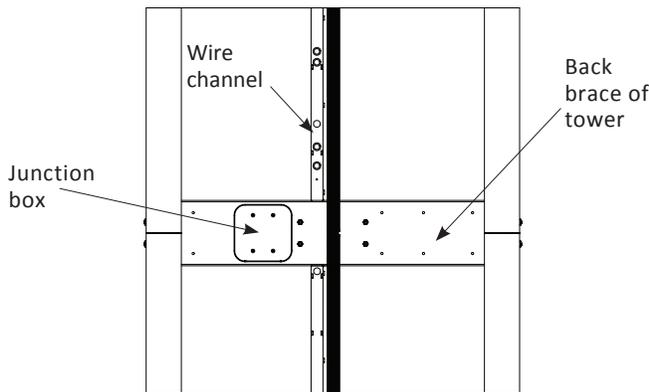


Figure 4-3

- Once power is established and the VPL comes online, the indicator LED's on the control board will flash an alarm code to indicate that the installation is incomplete.
- If equipped with a battery backup system. Place two or four batteries on the battery tray(s) and connect spade terminals to the batteries.

### NOTICE

Refer to wiring schematic 640-00025 for connectivity and polarity.

- Place the platform on a support object strong enough to handle the weight of the platform. Position the platform on the support located near the bottom of the VPL.

- Press the service button on the control electronics board. All four (4) status indicator LED's will flash green, to show that "Service Mode" is active. The unit will remain in "Service Mode" for ten (10) minutes. Press the service button again if needed.
- Use the platform control box to move the carriage up or down to align the platform and carriage mounting holes.
- Install the four (4) 1/2" bolts using the low profile nyloc nuts on the lower bolts and a standard nyloc nut on the upper bolts.
- Secure the safety pan harness and platform control harness under the clip at the top of the carriage flange.

## INSTALLING THE PLATFORM CONTROL GUARD PANEL

- Remove the two (2) 1/4" - 20 x 2" bolts from each corner of the platform.
- Insert the control side guard panel posts into the pockets on the platform with the smooth side facing the inside of the platform. Fasten in place with four (4) 1/4"- 20 x 2" bolts. Torque bolts down sufficiently to hold guard panels rigidly in-place. The platform material in front of the pockets may deform slightly while tightening bolts.
- Remove the four (4) screws and nuts loosely attached to the control box.
- Fasten the control box to the control guard panel securely with the four (4) screws and nuts. Connect the ground ring terminal to the bottom screw connecting the control box to the panel.

## INSTALLING A PLATFORM GATE (IF EQUIPPED)

1. Align platform gate assembly on platform end with floor and platform panels.
2. Install four (4) ¼" -20 x ⅝" screws through tabs in gate frame into threaded holes on platform panels. *See Figure 4-4.*

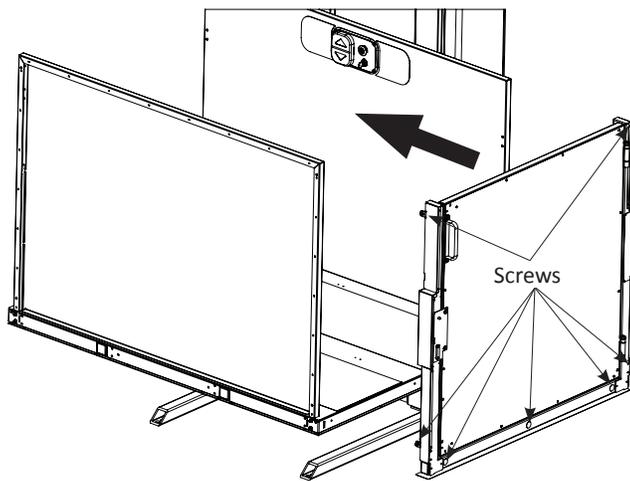


Figure 4-4

3. Install three (3) ¼" - 20 x 1" thread forming screws through bottom tube of gate frame. Screws are accessed through 7/8" diameter holes in front of tube. Use a 3/8" nut driver or socket and extension to tighten screws. **DO NOT USE AN IMPACT TOOL TO TIGHTEN SCREWS.**
4. Route platform gate wire harness from gate over to safety pan 2-pin (safety pan) and 4-pin (platform gate harness) connector.

## INSTALLING THE PLATFORM FRONT GUARD PANEL

Insert the front guard panel posts into the pockets on the platform with the smooth side facing the inside of the platform. Fasten in place with four (4) ¼"-20 x 2" bolts.

If an auto fold ramp option is being installed the ramp brackets must be installed with this hardware.

## INSTALLING THE AUTO-FOLDING RAMP

1. Attach the two ramp pivot tabs to the lower landing sides of the platform using three (3) ¼"-20 x 2" bolts that go through the guard panel post, and thread into the platform.

*NOTE: If a platform gate is equipped, the pivot tabs mount to the face of the gate with different hardware and nuts.*

2. Assemble ramp roller arm into the rectangular pocket of the ramp with the provided hardware. *See Figure 4-5.*

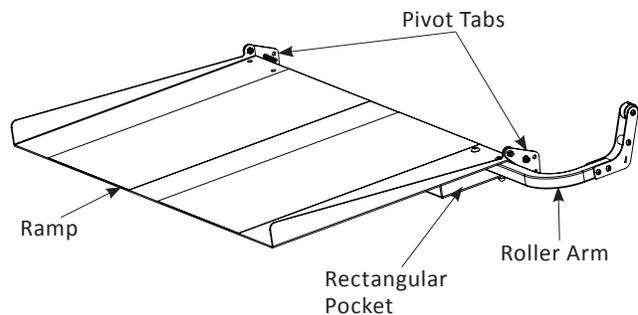


Figure 4-5

3. Use shoulder bolts to attach the ramp to the pivot tabs.
4. To install the ramp roller guide, remove the inside top and bottom side panel screws. *See Figure 4-6.*

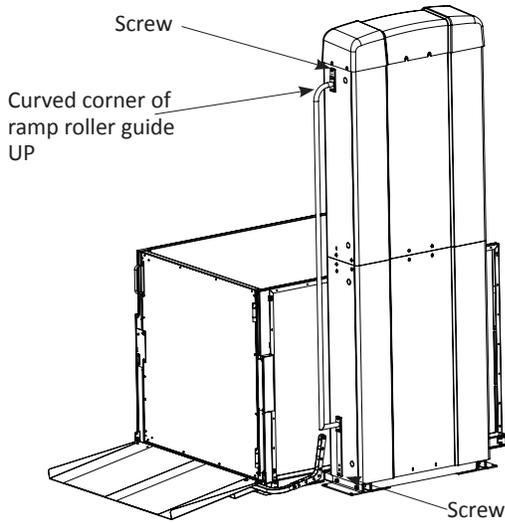


Figure 4-6

5. Install the ramp roller guide on the side of the tower with the screw that were previously removed.

*NOTE: The curved corner of the ramp roller guide is oriented up. For taller towers the ramp roller guide has three (3) mounting points.*

## INSTALLING THE TOP LANDING GATE

### **WARNING**

The top of the gate must be attached to a supporting structure. The gate is not designed to be freestanding.

1. Determine the direction and routing of the wires going to the landing gate.

**NOTICE**

A length of multi-conductor wire will need to be run 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 the appropriate receptacle on the controller.

**Wiring Connections:**

<u>Call/Send</u>	<u>Lift Harness</u>	<u>Wire</u>
Blue	Blue	Up
White	White	Communication
Red	Red	Down

*NOTE: If the call send switch is installed in the gate, the wires are routed between the gate and to the top of the tower. If the call send is located outside the gate, the wires are routed from the gate to the call send box and then from the box to the top of the tower.*

2. Create the necessary space below the gate sill so the wire can be routed into the gate post through the wire routing slot. **See Figure 4-7.**

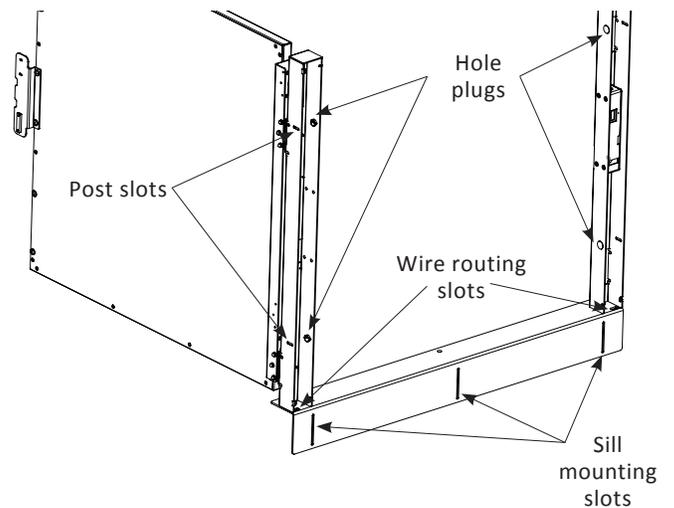


Figure 4-7

# STRATOS: SECTION 4

## INSTALLATION

- Remove small screws and post cover on the latch side of the landing gate with a No. 1 Phillips screwdriver.
- Open landing gate door and remove 4X hole plugs.
- Place the gate at the upper landing and center the gate opening with the platform.
- Use the holes in the gate threshold to screw the gate down to the landing.
- Run the wire through the wire routing slot and to the interlock.
- Strip the wire conductors.
- Connect the tower wires to the interlock wires as shown. **See Figure 4-8.**

- If equipped, connect the wires to the gate call send switch. **See Figure 4-8.**
- Reinstall interlock, gate post covers and hole plugs.

*NOTE: Gates are field reversible (contact Ameriglide Technical Service for instructions).*

## FASCIA PANEL INSTALLATION

The fascia panel sections are available in 53" and 24" heights and 41" and 49" widths. Custom fascia panel heights can be special ordered. Fascia panels must provide a smooth surface for the platform edge to run against to prevent any shear or obstruction hazards. They must be fastened beneath the opening and adjacent to each other with no overlapping or gaps between them.

The upper landing of a deck with an opening underneath requires a fascia wall.

*NOTE: It may be necessary to stud up the wall to give the fascia panel something to fasten to.*

Once the structure is in place, fasten the fascia panel to it.

Use temporary power and the platform control box to run the lift up and down to check for a horizontal gap between the upper landing and the platform. The gap must be no less than  $\frac{3}{8}$ " and no greater than  $\frac{3}{4}$ ".

## SETTING THE UPPER LIMIT SWITCH

Typically only the upper limit switch will need to be adjusted.

Raise the platform so it is level with the upper landing.

Loosen the bolts on the upper limit switch assembly. Slide the assembly down until the switch makes contact with the carriage and makes a clicking sound. Re-tighten the bolts. **See Figure 4-9.**

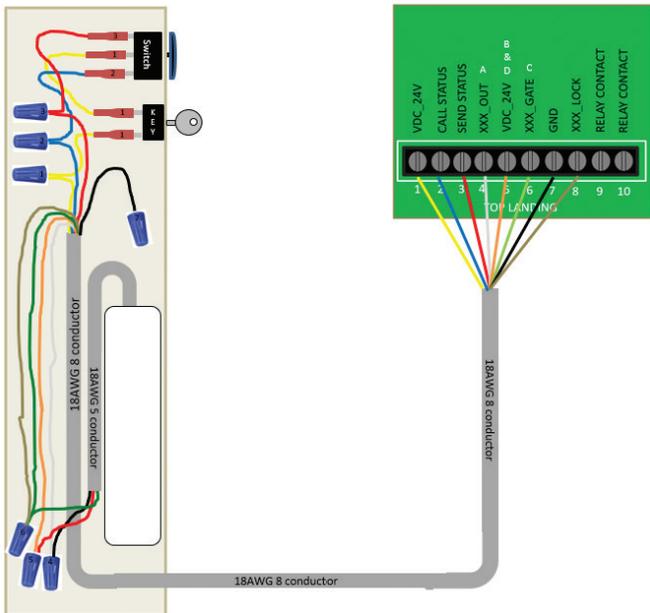


Figure 4-8

### NOTICE

Wire connection should be made with supplied butt connectors if the proper crimp tools are present. Wire nuts are acceptable without crimp tools.



Figure 4-9

## DOORS / GATES BY OTHERS

Interlocks and Strikes to be installed into doors by others are shipped with VPL in the OEM packaging.

Install devices per instructions in packaging.

Connect wiring per device instructions and wiring schematic. For details, please refer to the supplemental guide "Stratos Wiring Schematics".

*NOTE: A wiring diagram with part number 640-00025 is placed in a packet with your shipment.*

## CALL STATIONS

Call stations are required by ASME 18.1 to be mounted 15" to 48" off the floor surface. Check your state and local codes (ASME A18.1 and A117.1).

Call stations are able to be mounted on a surface or flush mounted on a 2-gang outlet box.

1. Remove four (4) label plate screws and label plate. *See Figure 4-10.*

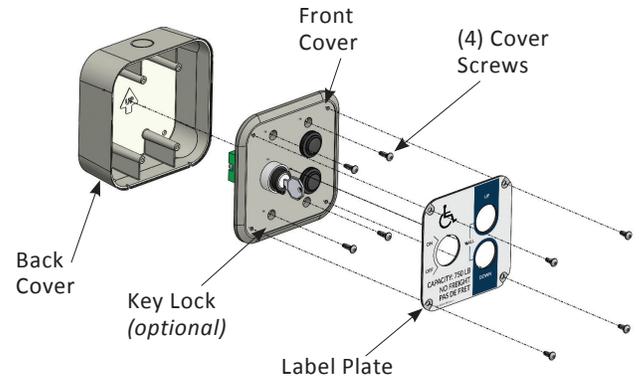


Figure 4-10

2. Remove four (4) cover screws and front cover from back cover.
3. Determine mounting and wiring method. Verify applicable code requirements.
4. If using the back cover for a wall mount setup, cut out the desired knock-out for wire routing. There are four (4) knockouts on the back cover. Two (2) on the back surface, one (1) on the top and one (1) on the bottom.
5. If using a flush mounted setup the back cover can be discarded.
6. Mount back cover to wall using appropriate fasteners through four (4) holes in the back surface of back cover.
7. Route 8-conductor wire from call stations to top of tower and 6-conductor cable from call station to interlock or strike in door or gate.

*NOTE: All cables must be stripped at points of termination so cables can be routed in the most convenient manner.*

8. Use crimp connectors to make cable connections in call station per schematic.
9. Install the front cover to back cover or in-wall outlet box with four (4) cover screws.

10. Install label plate on front cover with four (4) label plate screws.
11. If the routing of the wires changes, be sure to zip tie them out of the way of moving parts (ex. Carriage rollers).

## FINAL POSITIONING AND ANCHORING

79" of overhead clearance is required above the platform floor when the lift is at the upper landing.

Position the lift in its final location.

Verify that the tower front and sides are plumb and all running clearances are the proper dimensions. Shim if necessary. **Wood shims must never be used.**

Install two (2) anchors at the back of the tower and two (2) anchors into the tower legs. *See figure 4-12.*

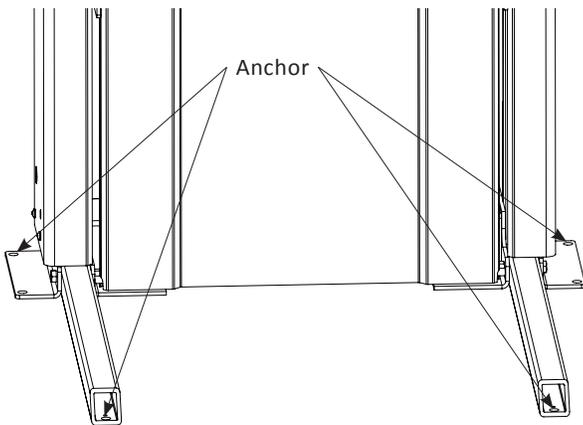


Figure 4-12

1. 8' models must have the lift tower anchored into a solid surface at or above the top cross-brace of the tower frame. 10' or taller models must have the lift tower anchored at two (2) levels into a solid surface at or above the top two (2) tower cross braces. This is to ensure running clearances remain constant. There are two options for anchoring the top of the tower.

*See Figure 4-13.*

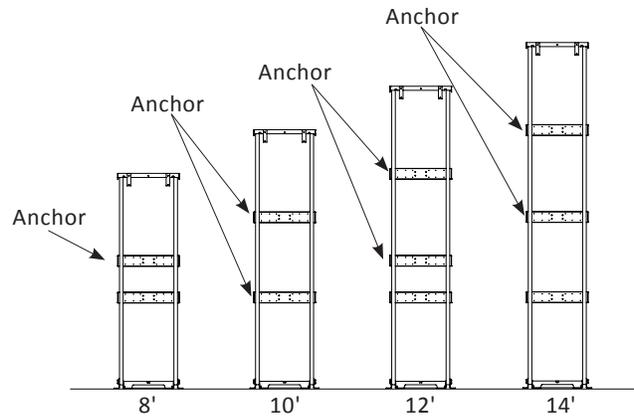


Figure 4-13

The 1st option is to use the optional tower brace that attaches to the sides for the tower. There are brackets that attach to a structure. Then the brackets are fastened together.

### NOTICE

*Locate the tower brace as high as possible on the tower.*

The 2nd option for anchoring the lift is drilling through the slots in the back of the tower cross-braces at the desired locations and anchor to the structure behind the lift. The wall needs a brace or a solid structure behind it. Anchors should be built out at least 1" from the center 15" of the tower back so that top can be removed for service. Insert supplied spacers behind tower cross braces when anchoring.

## INSTALLING FIXED RAMPS

1. Position ramp  $\frac{3}{8}$ " to  $\frac{3}{4}$ " from the platform opening.
2. Anchor the ramp to the concrete pad.

## INSTALLATION TOWER CHECK

Before reinstalling the top cap and front panels, an operational check should be completed on the internal tower safety features.

- Apply temporary power and verify all four (4) LED indicator lights on the control board are solid green.
- Manually depress the final limit switch (the highest positioned switch) and verify any travel of platform is prevented and indicator lights 1, 2 and 3 are flashing RED.
- Manually depress the safety nut switch (the switch near ACME nut) and verify any travel of platform is prevented and indicator lights 1, 2, 3 and 4 are flashing RED.
- Manually depress the Over-Speed Governor (OSG) switch (the switch at the bottom of ACME screw) and verify any travel of platform is prevented and indicator lights 1, 2 and 3 are solid RED.
- If equipped, lift the float of the float switch (the switch at the bottom of tower) and verify that DOWN travel is prevented and indicator light two (2) is flashing AMBER.
- Verify that the ACME drive screw is lubricated.
- Verify that the shipping bolt was removed from the cable tensioning pulley and that the pulley is hanging in the tower without hitting any obstacles during platform travel.
- Verify that the manual lowering wrench and socket are in place and secured on the top plate with wing nuts.
- Verify that the E-Stop is functional and all 4-LED lights are solid red with no lift movement.
- Verify the screws securing the tower skins have a plastic washer and are tight.

- Reset the board
  - Enter service mode by pressing and releasing the service button
  - Press and hold down the service button again for 3-seconds.
  - Press and release the reset button.

## FINAL INSTALLATION

Completing the above steps will clear any errors from the board.

1. Install the front panel between the platform and tower. Slots in the bottom of front panel should rest on the pins in the tower. Install five (5) ¼"-20 screws and plastic washers at top front panel leaving top three (3) screws loose and ¼" offset from panel.
2. Disconnect the power to the lift. Connect the cable in the top cap for status indicator lights into the control board. Slide the top cap over top of the tower aligning the top cap slots with the four (4) side screws and three (3) front screws. There are tabs in the back of the top cap that drop into slots in the tower top plate. These tabs must drop into the slots for the top cap to sit down on all seven (7) screws. Tighten seven (7) ¼"-20 screws securely against the top cap. Reconnect the power to the lift.

## OPERATIONAL CHECK

Upon installation and at scheduled intervals the operation of the VPL must be verified.

*NOTE: ASME A18.1-2017 requires that when the lift is installed in commercial applications, operation checks are to be conducted not less than weekly by authorized personnel.*

- Apply power and verify all four (4) LED indicator lights are solid green.
- Paddle/buttons on cab controls control UP and DOWN travel.
- E-Stop PRESSED IN stops and prevents travel of platform. Button illuminates and alarm sounds (if equipped). Indicator lights 1, 2, 3 and four (4) are solid RED.
- Key switch (if equipped) OFF stops and prevents travel.
- Landing switches stop the platform at each landing within 1/2", does not coast, and opens the gate locks.
- Automatic Door Openers (if equipped) open the doors/gates at landing.
- Open doors/gates prevents any travel of the platform. Indicator lights three (3) and four (4) are solid RED.
- Call Station buttons control UP and DOWN travel.
- Key switch (if equipped) OFF on Call Stations stops and prevents travel from Call Station.
- Safety pan switches depressed prevent DOWN travel and allow UP travel (check several locations). Indicator lights one (1) and (2) are flashing AMBER.
- Pit switch (if equipped) prevents UP and DOWN travel. Indicator lights 1, 2 and 3 are solid RED

## PERMANENT POWER INSTALLATION

Permanent power can be installed at various points in the overall installation process; however it must be installed by a qualified electrical contractor in compliance with local codes and regulations. Power must be a dedicated circuit connected through a 2-pole fused and lockable disconnect. Fuse should be a minimum of 15A.

Route wiring from disconnect to tower as directly as possible and enter tower through most convenient knock-out in tower side panels. Inside the tower enclosure route wires from knockout to internal junction box along the back panel of the enclosure. Use the back side of the wire channel if the junction box is at a different level than knockout. Be sure all wiring is routed clear of the moving carriage and roller wheels inside the tower. **See Figure 4-14.**

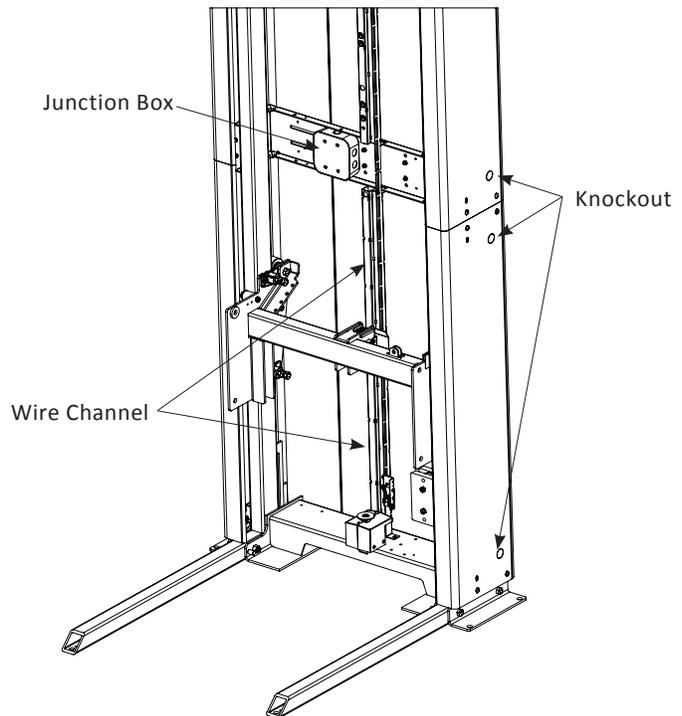


Figure 4-14

## **OPERATOR FAMILIARIZATION**

Upon completion of the installation, it is imperative to review all contents of the Owner's Manual with the customer and provide a thorough demonstration and familiarization of the lift.

In residential applications, this should be conducted with the end-user and any or all of the following: homeowner, family members, caregiver etc. You should not leave until the end-user or primary lift operator has demonstrated they can use the lift properly.

In commercial applications this would take place with any or all of the following: the property owner, facilities manager, or any personnel who may oversee the unit's use or control its access.

### **PROVIDE OVERVIEW**

- Review all warnings
- Describe how the lift works and familiarize with key components
- Pre-use inspection

### **DESCRIBE AND DEMONSTRATE PROPER USE AND EACH KEY**

- Call/Send
- Entrance and positioning
- Door/Gate interlocks and safety pan  
Status lights and color key
- Ascend/Descend
- Use of handrail (*if equipped*)
- Emergency lowering

### **REVIEW CARE AND MAINTENANCE**

- Keys
- Maintenance items
- Inspection items
- Rust prevention

Be sure to leave them with the Owner's Manual and that your contact information has been written into it as well as on the labels in the cab and on the tower. **Have them complete the Warranty Registration while you are there.**

# INSTALLATION QUICK START

## SECTION 5

# INSTALLATION QUICK START

### SITE PREP

- Code Compliance
- Upper Landing
- Foundation Level
- Hoistway Square
- Electrical

Code: ASME 18.1 relative to residential or commercial, NAEC and Local Building; NFPA 70 (electrical code).

### POSITION LIFT BENEATH LANDING

- Remove Top Cap
- Remove Front Panel
- Verify Overhead Clearance at 79" min

*Tip: Use material handling equipment with lifting straps to avoid injury/damage.*

### ASSEMBLE PLATFORM

- Attach Platform to Carriage
- Bolt on Side Walls
- Platform Gate\*
- Attach and Wire Control Panel
- Auto Ramp\*

*Tip: Use 2'x4' beneath platform base when connecting to carriage.*

### INSTALL LANDING GATE\*

- Screw to Landing
- Pre-run Wiring

### INSTALL FASCIA PANEL\*

- Attach to Open Areas Under Gate
- Ensure Smooth, Flush
- No Gaps, Protrusions etc.

*TIP: Use flat screw heads to avoid protrusions.*

### FINAL POSITIONING & ANCHORING

- Level and Perpendicular
- Anchor Tower Legs
- Anchor Tower to Structure
- Fixed Ramp Securement\*

### VERIFY CLEARANCES:

- Platform opening to landing:  $\frac{3}{8}$ " -  $\frac{3}{4}$ "
- Guard panel to hoistway wall: 2" - 3"

### WIRING & ELECTRICAL

- Gates\*/Doors/Interlocks/Openers
- Call/Sends\*
- Install and Connect Battery Backup\*
- Dedicated Line to Primary Power Source

*TIP: Use knockouts provided along tower to minimize wire distance.*

### FINAL

- Perform Final Function Tests
- Insert permanent power installation
- Reattach Top Cap and Front Cover
- Operator Familiarization
- Complete Warranty Form
- Write Date/Info on Lift

\* If required/included

SECTION 6  
**TROUBLESHOOTING**

**STATUS CODES**

This lift has several advanced safety systems that monitor various sensors, switches and the performance of the lift. To indicate the status of the VPL there are 4-LEDs located on the Top Cap of the tower. The table below explains the status indicated by the 4-LEDs. LEDs are numbered from left to right, while facing the tower from the platform side. Color listed in brackets indicates LED is flashing.

See Figure 6-1.

NOTE: [COLOR] means flashing light.

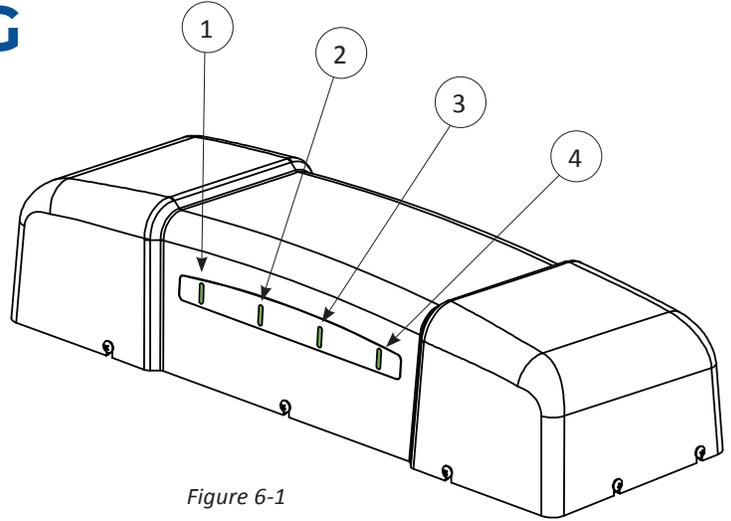


Figure 6-1

STATUS LED				STATUS
#1	#2	#3	#4	
All OFF				<b>Lift will not function.</b> Major Fault, No Power (and no battery) or Low Power Mode. Service is Required.
Any Green or [Green]				<b>Lift functional.</b> No faults
Green	Green	Green	Green	<b>All systems normal.</b> Lift is OK to Operate.
[Green]	[Green]	[Green]	[Green]	<b>Lift is in "Service Mode".</b> Only Authorized Technicians should Operate.
[Green]	[Green]	[Green]		<b>Lift is running on backup power.</b> Lift is OK to Operate.
Any Amber				<b>Lift is OK to Operate.</b> Service is Required.
Amber	Amber	Amber		<b>Lift is running on backup power and battery is Low.</b> Lift is OK to Operate for at least one full lift cycle.
	Amber	Amber	Amber	<b>Lift is on AC power and battery is Low.</b> If lift transfers to backup power it will only operate for at least one full lift cycle. Service or replace batteries.

# STRATOS: SECTION 6

## TROUBLESHOOTING

STATUS LED				STATUS
#1	#2	#3	#4	
Amber				<b>Service is required.</b> Flood Switch was activated.
	Amber			<b>Service is required.</b> Lift travel time exceeded average.
Amber	Amber			<b>Service is required.</b> Periodic maintenance limit reached.
		Amber		<b>Service is required.</b> Service hour limit reached.
Any [Amber]				<b>Minor fault. Platform function is reduced.</b> Service may be Required.
[Amber]	[Amber]	[Amber]		<b>Lift is running on backup power and battery is very low.</b> Platform will only go down.
	[Amber]	[Amber]	[Amber]	<b>Lift is on AC power and battery is very low.</b> If lift transfers to backup power platform will only go down. Service is Required*.
		[Amber]		<b>Motor temperature is hot.</b> Platform will only go down.
[Amber]			[Amber]	<b>Motor is drawing too much current.</b> Platform will only go down. Service is required.
[Amber]	[Amber]			<b>Safety pan has been triggered.</b> Platform will only go up.
	[Amber]			<b>Float switch has been triggered.</b> Platform will only go up. Service will be required to ensure safe operation. Alarm will turn into a Major Fault after 25 full cycles or two (2) weeks time after flood event.
	[Amber]	[Amber]		<b>Motor temperature monitoring lost.</b> Service is required.
Any Red				<b>Safety switch triggered.</b> Lift will not function.
		Red	Red	<b>A landing door/gate is open.</b> Lift will not function until closed.
Red	Red			<b>A landing door/gate lock has failed.</b> Lift will not function until lock is enabled. Service may be required.
Red	Red	Red	Red	<b>E-Stop button is pressed.</b> Lift will not function until button released.

*\*If battery is not replaced promptly after this warning, the battery will further degrade to the point that unit will shut off completely when AC power is lost.*

STATUS LED				STATUS
#1	#2	#3	#4	
Red	Red	Red		<b>Pit switch or OSG triggered.</b> If pit switch, lift will not function until switch changes state. Service is required if it is the OSG switch.
Any [Red]				<b>Lift will not function.</b> Major Fault. Service is required.
	[Red]			<b>Lift out of service.</b> Service is required after a flood event.
	[Red]	[Red]	[Red]	<b>Lift out of service.</b> Service is required for periodic maintenance.
[Red]				<b>Lift out of service.</b> Lift travel time exceeded average by 2X. Service is required.
[Red]	[Red]	[Red]	[Red]	<b>Lift out of service.</b> Safety nut switch is triggered. Service is required.
[Red]	[Red]	[Red]		<b>Lift out of service.</b> Final limit switch is triggered. Service is required.
		[Red]		<b>Lift out of service.</b> Top landing switch did not change state when platform should have moved off landing. Service is required.
	[Red]	[Red]		<b>Lift out of service.</b> Mid landing switch did not change state when platform should have moved off landing. Service is required.
[Red]		[Red]		<b>Lift out of service.</b> Bottom landing switch did not change state when platform should have moved off landing. Service is required.
		[Red]	[Red]	<b>Lift out of service.</b> Motor current is 0 Amps while going up. Service is required.
			[Red]	<b>Lift temporarily out of service.</b> Motor temperature is Very Hot. Lift will not function until the motor has cooled.

*\*If battery is not replaced promptly after this warning, the battery will further degrade to the point that unit will shut off completely when AC power is lost.*

## CONTROL ELECTRONICS

If the Indicator LEDs do not provide enough information to fully troubleshoot a potential issue it may be necessary to access the control electronics below the top cap of the tower.

Access the control electronics by loosening seven (7) top cap screws, lifting the top cap, and unplugging the indicator board cable from control board. Set top cap assembly aside.

## CONTROL ELECTRONICS TRAY

The Control Electronics Tray contains the Control PCBA, power elements and fuses. *See Figure 6-2.*

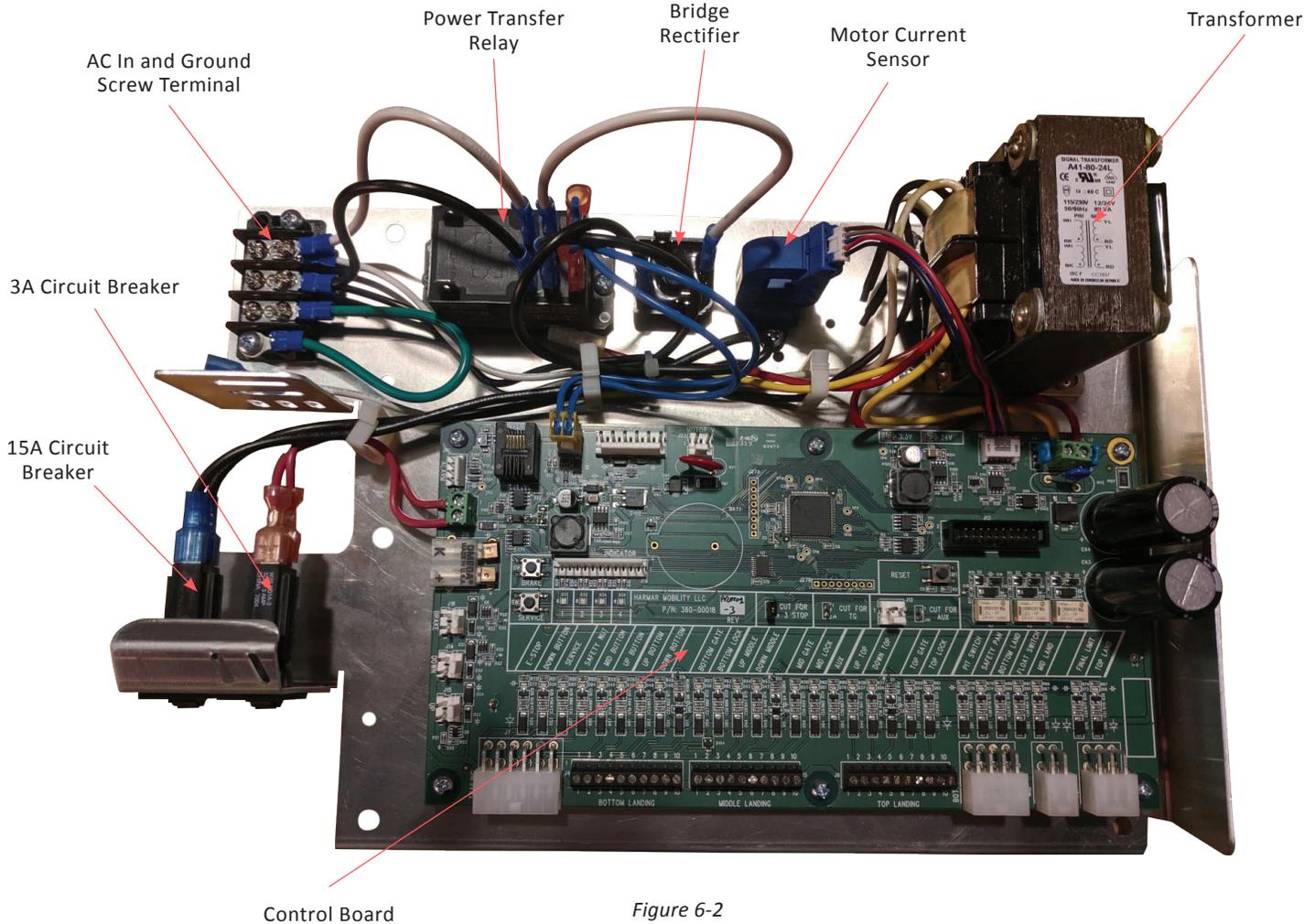


Figure 6-2

## CONTROL BOARD

The Control Board contains the processor, receives all of the sensor input, sends out all of the commands and provides important feedback for troubleshooting. It identifies each of the inputs and outputs on the Control Board. *See Figure 6-3.*

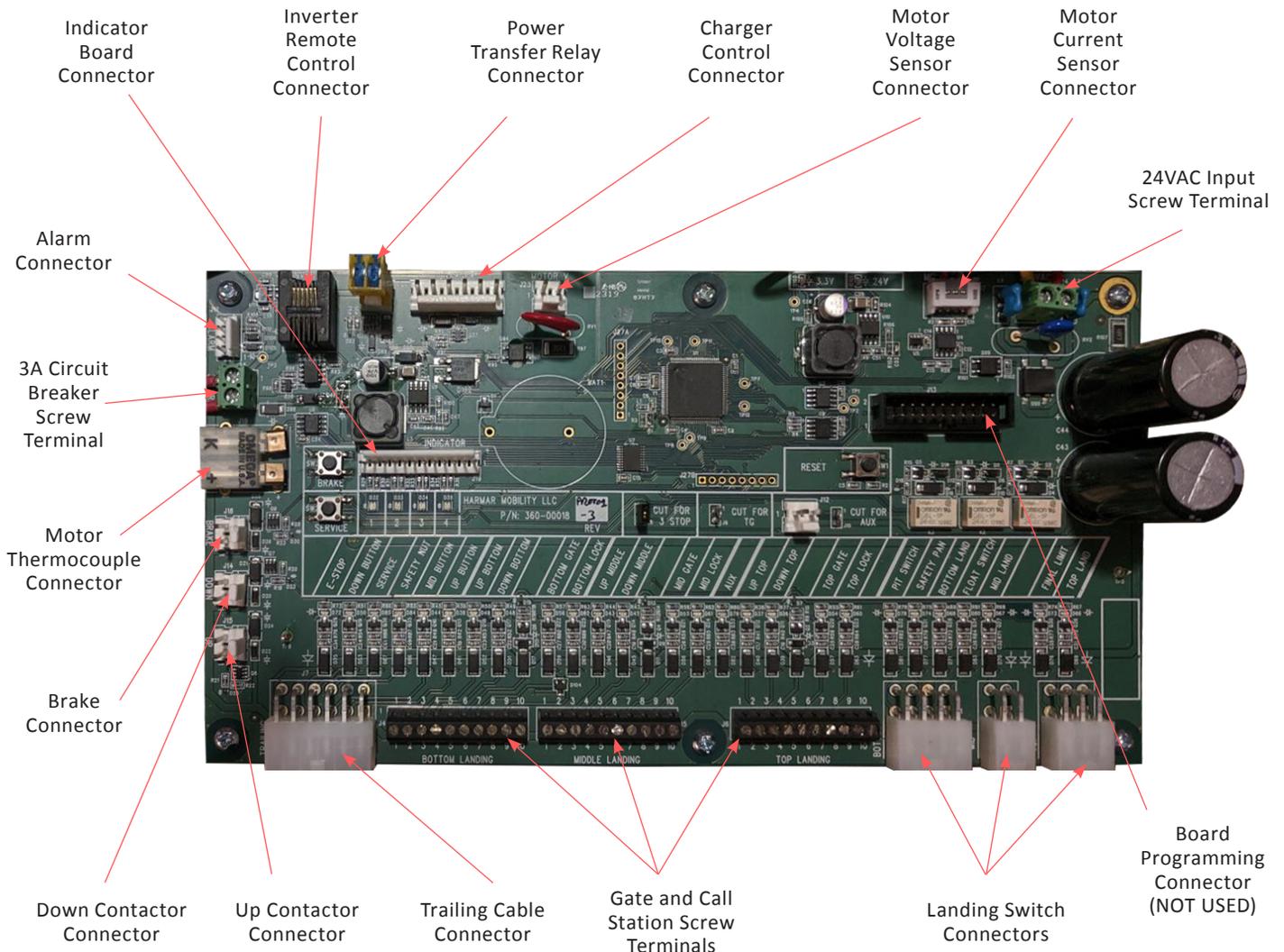


Figure 6-3

# STRATOS: SECTION 6

## TROUBLESHOOTING

The control board has 32 LEDs to provide the status of power to the board and each circuit that is monitored. It shows the location and description of each LED. *See Figure 6-4.*

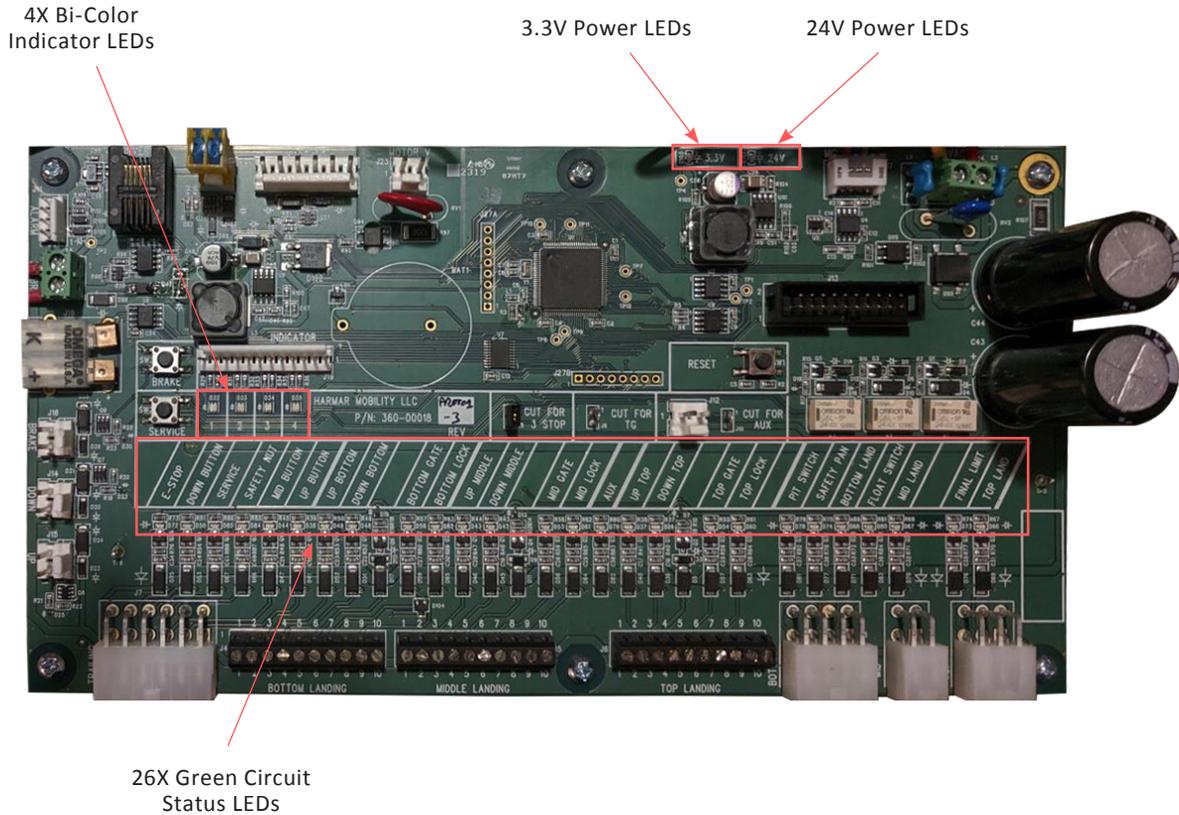


Figure 6-4

DESCRIPTION	COLORS	STATUS, TROUBLESHOOTING
<b>4X Indicators</b>	Green, Amber, Red	These LEDs exactly duplicate the Indicator LEDs on Top Cap. If they do not match there could be an issue with cable or Indicator Board. Refer to Troubleshooting codes above.
<b>3.3V Power</b>	Green	LED ON indicates processor is getting power.
<b>24V Power</b>	Green	LED ON indicates all 24V circuits are getting power.
<b>E-Stop</b>	Green	LED ON indicates the E-stop is not depressed (lift can run)

<b>Down Button</b>	Green	LED ON indicates the Down button in the cab control is being depressed.
<b>Service</b>	Green	LED ON indicates the Service button is being depressed. Service mode is only entered after button is released.
<b>Safety Nut</b>	Green	LED OFF indicates the safety nut switch circuit is open. Major Fault. Possible causes: ACME nut failure, switch failure, connector open or wire break.
<b>Mid Button</b>	Green	If a 3-Stop unit, LED ON indicates the Mid button in the cab control is being depressed. This should never be ON with a 2-stop lift.
<b>Up Button</b>	Green	LED ON indicates the Up button in the cab control is being depressed.
<b>Up Bottom</b>	Green	LED ON indicates the Up button in the Bottom Call Station is being depressed.
<b>Down Bottom</b>	Green	LED ON indicates the Down button in the Bottom Call Station is being depressed.
<b>Bottom Gate</b>	Green	LED ON indicates the Bottom or Platform Gate/Door interlock is closed.
<b>Bottom Lock</b>	Green	LED ON indicates the Bottom or Platform Gate/Door lock is active.
<b>Up Mid</b>	Green	LED ON indicates the Up button in the Mid Call Station is being depressed.
<b>Down Mid</b>	Green	LED ON indicates the Down button in the Mid Call Station is being depressed.
<b>Aux</b>	Green	Aux circuit is unused
<b>Mid Gate</b>	Green	LED ON indicates the Mid Gate/Door interlock is closed.
<b>Mid Lock</b>	Green	LED ON indicates the Mid Gate/Door lock is active.
<b>Up Top</b>	Green	LED ON indicates the Up button in the Top Call Station is being depressed.
<b>Down Top</b>	Green	LED ON indicates the Down button in the Top Call Station is being depressed.
<b>Top Gate</b>	Green	LED ON indicates the Top Gate/Door interlock is closed.

**TROUBLESHOOTING**

<b>Top Lock</b>	Green	LED ON indicates the Top Gate/Door lock is active.
<b>Pit Switch</b>	Green	LED OFF indicates the Pit Switch (if equipped) or Over Speed Governor circuit is open. Major Fault. Pit switch and OSG share a circuit that normally closed. Possible causes: Failure causing drive screw overspeed, switch failure, connector open or wire break.
<b>Safety Pan</b>	Green	LED OFF indicates the safety pan circuit is open. Minor Fault. Platform is only able to move up. If circuit stays open after obstruction cleared there could be a switch failure, connector open or wire break. There are 11 safety pan switches in platform.
<b>Bottom Land</b>	Green	LED ON indicates the Bottom Landing switch is closed. The switch should be closed only when platform is at that landing.
<b>Float Switch</b>	Green	LED ON indicates the float switch (if equipped) is closed. Minor Fault. The platform is only able to move up. The switch should be closed only when water is present and lifting the float.
<b>Mid Land</b>	Green	If a 3-Stop lift, LED ON indicates the Mid Landing switch is closed. The switch should be closed only when platform is at that landing.
<b>Final Limit</b>	Green	LED ON indicates the Top Final Limit switch is closed. Major Fault. The Top Landing switch did not close when platform was at that landing. Possible causes: Top Landing switch failure, connector open or wire break.
<b>Top Land</b>	Green	LED ON indicates the Top Landing switch is closed. The switch should be closed only when platform is at that landing.

The control board has three (3) momentary switches and three (3) permanent cuttable switches/jumpers. See Figure 6-5.

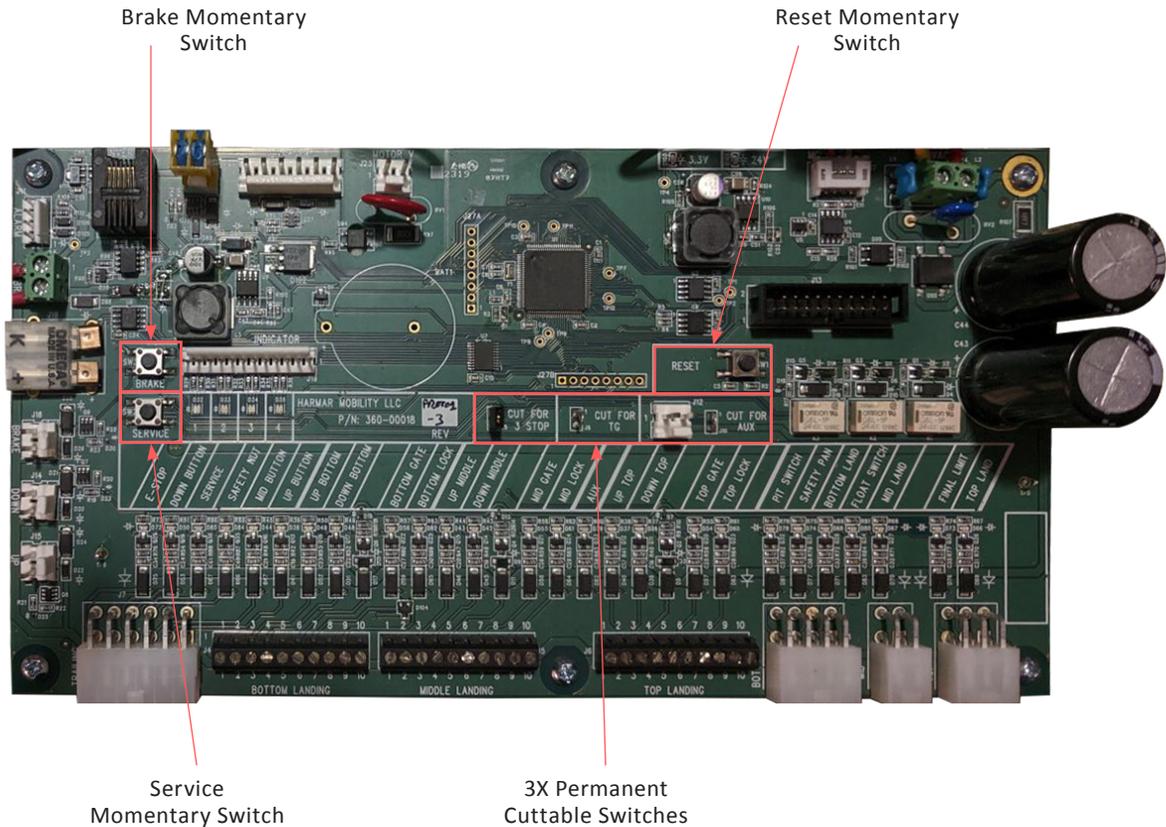


Figure 6-5

**BRAKE MOMENTARY SWITCH**

The brake on the back of the gear motor is 24V DC “fail safe,” electromagnetic holding brake. The brake is released when 24V DC is applied. Pressing the BRAKE momentary switch will apply 24V DC and release the brake with an audible “Click.”

This switch can be used to check brake operation and is recommended to be used in the emergency lowering procedure.

**RESET MOMENTARY SWITCH**

Pressing the RESET momentary switch will reset the processor and exit “Service Mode” if board were in that mode. “Out of Service Mode” flag is not cleared by pressing the RESET switch.

**⚠ WARNING**

Pressing and holding this switch could result in the platform slowly drifting down.

### SERVICE MOMENTARY SWITCH

The SERVICE switch should only be used during installation and for service by authorized technicians.

#### **WARNING**

**Pressing this switch results in the disabling of safety circuits.**

Pressing the SERVICE switch puts the lift into a “Service Mode” which temporarily ignores most safety circuits and major faults allowing the technician to move the platform and troubleshoot issues more easily. All four (4) Indicator LEDs will flash green when the unit is in “Service Mode” and the lift will automatically go back to normal operation after 10-minutes. You can hit the RESET switch to exit “Service Mode” before 10-minutes. All status LEDs on the control board will work normally in “Service Mode.”

Pressing the SERVICE will allow the platform to move if the unit is in “Out of Service Mode”, however the lift will return to “Out of Service Mode” when the “Service Mode” expires.

To reset the “Out of Service Mode” flag and clear memory/errors after required service has completed:

1. Enter “Service Mode” by pressing and releasing the SERVICE switch.
2. Press and hold the SERVICE switch for at least 3 seconds then release.
3. Press and release the RESET switch within 10-minutes.

#### **WARNING**

**Do not reset the "Out of Service Mode" flag until required service has been performed. Unsafe operation could result.**

### PERMANENT CUTTABLE JUMPERS

Three permanent cuttable jumpers are included on the Control Board that allow the software characteristics to change based on configuration. If needed these jumpers are cut in the factory and should never need to change.

#### 3-STOP JUMPER

This jumper is cut in the factory on 3-stop lifts. The control board will ignore any mid landing circuits when this jumper is intact.

#### TG JUMPER (UNUSED)

In the future this jumper will be used on Toe-Guard lifts.

#### AUX JUMPER (UNUSED)

This jumper could be used for future expansion/features.

## **GEARMOTOR**

The VPL uses a 2/3 Hp gearmotor mounted to the top of the tower frame. The brake on the back of the gear motor is a “fail safe,” electromagnetic holding brake. The Motor Gearbox on the front of the motor is a vented 26:1 worm drive gear reduction with synthetic gear and bearing oil.

**See Figure 6-6 on page 33.**

Motor is designed for a duty cycle of 25% with a maximum continuous operation of 45-minutes. In other words, 45-minutes of continuous operation must be followed by 2-hours and 15-minutes of rest to prevent possible motor damage. Motor temperature is monitored by a thermocouple inside the motor housing. If the motor gets too hot it could restrict travel of platform to DOWN only. If the motor gets so hot that it could cause damage to the motor it will restrict platform movement entirely. Platform movement will be restored after temperatures fall below hot temperature thresholds. See STATUS CODES section for the codes displayed.

## CONTACTOR TRAY

The Contactor Tray contains other control electronics wired to motor and control tray.  
**See Figure 6-6.**

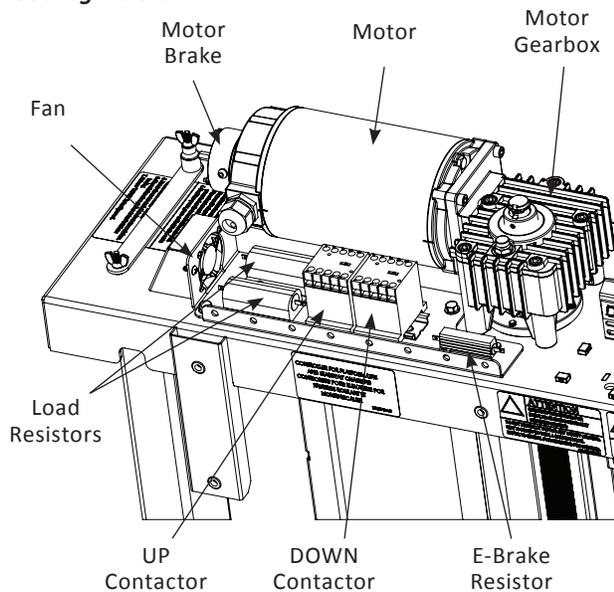


Figure 6-6 (wires not shown)

## UP AND DOWN CONTACTORS

Both contactors have 3-poles with an auxiliary circuit that are switched by 24V AC coils. On top of the contactors is a switch position indicator that can be observed to verify switching is occurring properly. Contactors operate independently and are controlled by the control board.

### WARNING

Do not manually switch the position indicator as all safeties would be bypassed.

## E-BRAKE RESISTOR

The E-Brake resistor electronically slows the motor quickly via eddy current braking. When both contactors are OFF the resistor essentially shorts the motor leads which resists motor shaft rotation. Braking is proportional to motor speed, so this brake slows the motor very quickly, but does not hold the motor from drifting after it stops. The electromagnetic holding brake on the motor is engaged after the motor comes to a stop. If the platform is taking too long to come to a stop there could be an issue with this resistor or the wiring on it.

## LOAD RESISTORS

The load resistors function is to slow the platforms speed in the DOWN direction. The resistors are in-circuit only when the DOWN contactor is ON and will generate significant heat as they dissipate some of the downward energy. The fan located next to the load resistors is there to cool the resistors.

### WARNING

Load resistors could be very hot. Do not touch.

## COOLING FAN

The cooling fan is primarily to cool the load resistors, but also cools the top compartment as it pulls air from the tower below. The fan is controlled by a thermostatic switch located on a load resistor. If the fan is not cutting off when the temperature drops there could be an issue with the switch.

## BATTERY BACKUP

If the VPL is equipped with a Battery Backup System, it will be located inside the tower below the top plate. **See Figure 6-7.**

# STRATOS: SECTION 6

## TROUBLESHOOTING

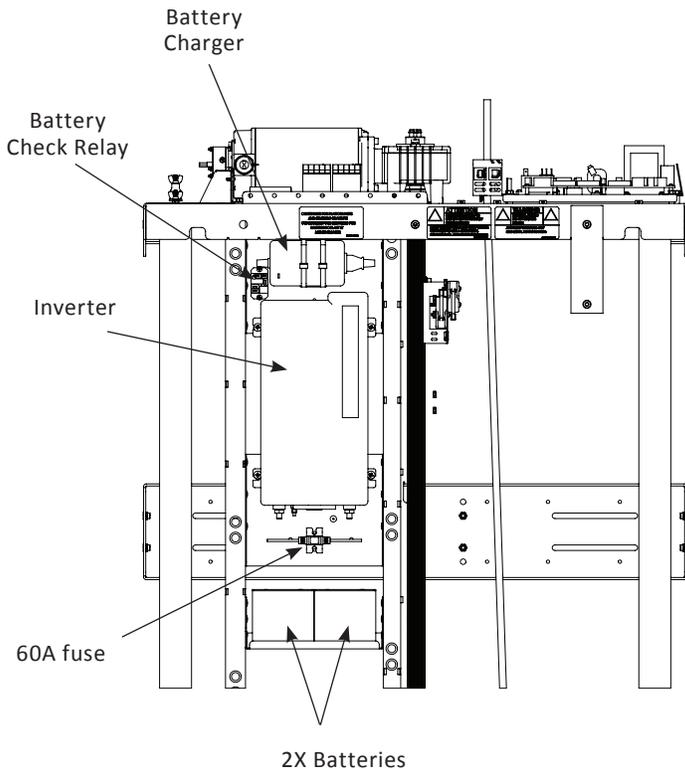


Figure 6-7 (wires not shown)

### **BATTERIES**

Each battery in a VPL is a 12V Sealed Lead Acid battery. VPL400 and VPL600 get two (2) batteries wired in series to provide 24V to the Inverter. VPL800 to VPL1400 get four (4) batteries where two (2) pairs of the batteries are wired in series and the pairs are wired together in parallel to get the 24V to the inverter. Properly maintained batteries are sized to be able to provide user with at least 5 round trips at full load while on battery power. For power outages in excess of 6-hours, batteries will deplete to the point of reduced performance.

### **60A FUSE**

Between the positive leads of the batteries and the inverter is an 60A fuse. This fuse protects the batteries and is very unlikely to independently blow unless there is a short during install or service.

### **BATTERY CHARGER**

The battery charger is 24V, 2A with 4-stage charge profiles to maximize battery life. After a power outage it may take 12 to 18-hours to return to a full charge.

### **BATTERY CHECK RELAY**

Since we cannot check battery voltage while the battery is charging, we have a Battery Check Relay that switches between charging and voltage monitoring. The battery voltage is monitored continuously any time while on battery power and checked every 4-hours while on AC power. A failed Battery Check Relay would result in a Very Low Battery warning.

### **INVERTER**

The inverter is 1500W and converts the 24V from the batteries into a 120 Volt modified sine wave to power the lift. The inverter is controlled by the control board via the Inverter Remote Control Cable. There are safeties built into the inverter, however the control board monitors the input and output of the inverter and will go into a fault state to prevent the inverter from tripping. A failed inverter will appear to switch over to battery power but not provide power to drive the motor. The periodic operational checks should include a check of the battery backup system. To do this the breaker must be interrupted at the two (2) pole fused disconnect, the tower junction box or the control tray screw terminal.

### **FLOAT SWITCH**

If the float switch is triggered for more than a minute, you will see a float switch indication (flashing #2 amber).

After 25-trips or 2-weeks in time, the unit will go into "out of service" mode which will not allow it to run (flashing #2 red). This is to protect the safety of the system from being compromised.

Service must be performed in order to restore functionality.

## EMERGENCY EVACUATION PROCEDURE

**⚠ CAUTION**

Platform lifts should not be used for evacuation during emergencies.

Do not use the lift alone if you are not sure that you can maintain pressure on the control buttons for the duration of travel.

If using the lift alone, and you do not have the optional phone equipped in the cab, it is best practice to have a cell phone with you in case of a malfunction that prevents the platform movement.

If the lift malfunctions while occupied:

- Occupant should follow the directions located next to the platform controls and never try to evacuate the lift on their own.
- Contact dealer and/or 911 (dealers phone number is written on the label next to the cab controls).
- Push in the Red Emergency Stop button on the cab control. If equipped, an alarm will sound.

Once help arrives, they should follow the Emergency Lowering Procedure to evacuate the occupant.

## EMERGENCY LOWERING PROCEDURE

**⚠ WARNING**

Never exit an elevated platform unless it is fully parked at a landing. Do not attempt to manually lower the device while in the platform.

In the event that the lift becomes disabled with passengers on the platform that is not at a landing, it may be necessary/desirable to manually lower them prior to a technician arriving.

In that case, a manual lowering mechanism is located beneath the top cap of the lift. A person other than the lift passenger(s) will be required to make their way to the top of the tower to perform this procedure.

1. Loosen seven (7) screws around the perimeter of the top cap with a Phillips head screwdriver.
2. Lift the top cap partially and disconnect the cable between the top cap at the control board. Set the top cap aside. *See Figure 6-8.*

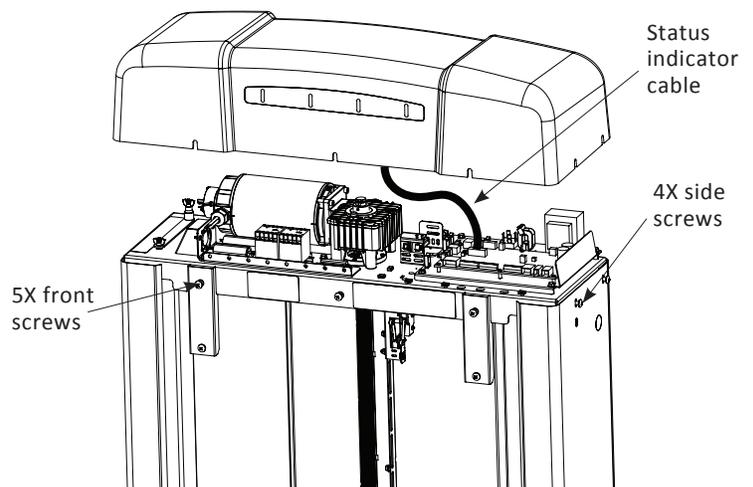


Figure 6-8

3. Remove the two wingnuts holding down the manual lowering tools ( $\frac{1}{4}$ " wrench and  $\frac{1}{4}$ " x  $\frac{3}{8}$ " drive socket). *See Figure 6-9.*

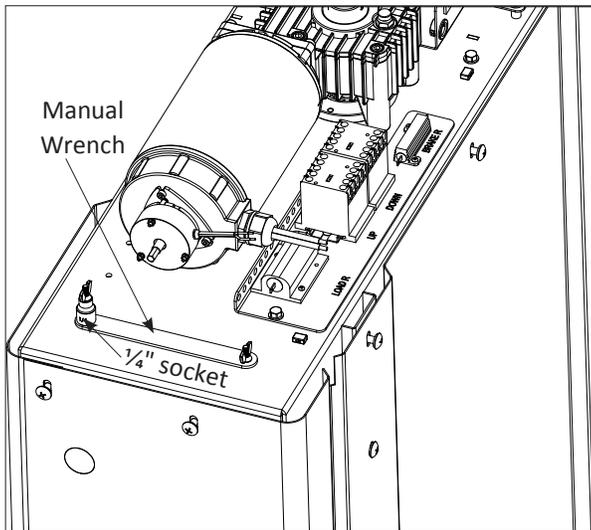


Figure 6-9

- The wrench fits over the 1/4" hex shaft at the end of the drive motor. It is designed to be rotated by hand — clockwise, which will turn the screw and lower the platform.  
**See Figure 6-10.**

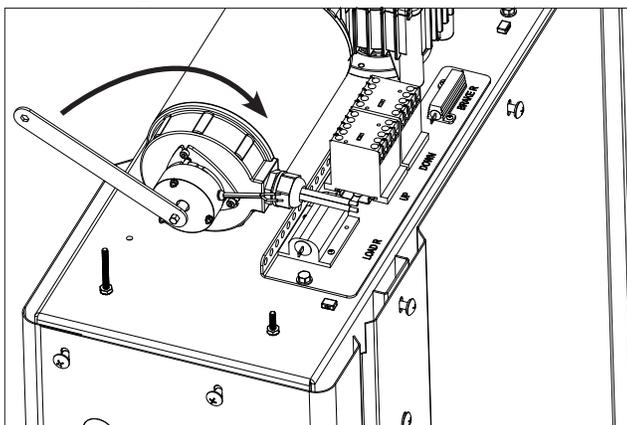


Figure 6-10

- If you have a 3/8" drive ratchet or a cordless drill with a 3/8" socket adapter bit you can use the 1/4" socket for lowering. Power the drill in the forward direction - rotating clockwise to lower the platform. **See Figure 6-11.**

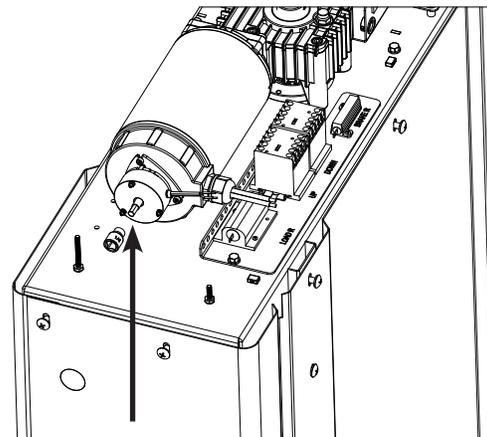


Figure 6-11

**⚠ CAUTION**

**Do not use an impact drill to move the lift.**

*NOTE: The drive motor is equipped with a low holding force brake to prevent the platform from drifting with heavy loads. Lowering the platform with the brake engaged will require a bit of strength, typically the equivalent of being able to lift 20 lb with one arm.*

- If the lift has power, press and hold the button on the control board labeled BRAKE. This will release the brake and make lowering the platform a little easier.
- Rotate the motor shaft clockwise to lower the platform.

*NOTE: Do not attempt to raise the platform. The required torque to do so is substantially higher.*

- Stop rotation when the platform is level with the lower landing.
- Release the BRAKE button if pressed.
- If the lower gate/door does not open, the crescent key can be used to release it.
- Use disconnect to remove all power from lift.

**⚠ WARNING**

**Wait for a Ameriglide dealer to service and inspect the lift prior to using it again.**

SECTION 7

# MAINTENANCE & INSPECTION

Annual inspections are highly recommended to help prevent unsafe conditions and operation.

## RESIDENTIAL APPLICATIONS OWNER / MAINTENANCE PERSONAL

### BEFORE USE

Do not use lift until these conditions are rectified.

- All doors and gates are locked and secure.
- Check for standing water around the unit.
- Make sure the AC connections are in good condition and that there are no cracks or gaps in conduit.
- Make sure there are no obstructions intruding in the path of the lift.
  - People, tree branches, loose items, etc.
- Check that there is no loose hardware or emerging cracks/deformations in the platform and tower. Make sure that there are no unusual noise or vibrations that develop.

### PERIODICALLY

- Check and ensure that the safety pan under the platform moves freely up and down and is not damaged. This is the built-in safety device designed to detect obstructions under the platform and stop platform downward motion. If there is an easy-to-remove obstruction, please remove it. If for any reason the safety pan does not move as intended, please contact your dealer.

- Check and ensure that all labels are intact and legible. If any safety or warning labels need to be replaced, please contact your dealer.
- Make sure you have a copy of the Owner's Manual. A digital copy of the Owner's Manual is available at Ameriglide.com.
- Check your key locks and emergency stop button for functionality.
- Check for any rust that may be developing. Rust is expected in outdoor applications (especially in coastal areas), but with proactive maintenance or quick repair, this can be minimized.

## COMMERCIAL APPLICATIONS END-USER/MAINTENANCE PERSONAL

### IMPORTANT

Understanding State/Local Inspection Requirements and Timing - Always Required.

### BEFORE USE

Do not use lift until these conditions are rectified.

- All doors and gates are locked and secure.
- Check for standing water around the unit.
- Make sure AC connections are in good condition and that there are no cracks or gaps in conduit.

- Make sure there are no obstructions intruding in the path of the lift.
  - People, tree branches, loose items, etc.
- Check that there is no loose hardware or emerging cracks/deformations in the platform and tower.

**OWNER/OWNER’S AGENT**

- Check and ensure that the safety pan under the platform moves freely up and down and is not damaged. This is the built-in safety device designed to detect obstructions under the platform and stop platform downward motion. If there is an easy-to-remove obstruction, please remove it. If for any reason the safety pan does not move as intended, please contact your dealer.
- Check and ensure that all labels are intact and legible. If any safety or warning labels need to be replaced, please contact your dealer.
- Make sure you have a copy of the Owner’s Manual. A digital copy of the Owner’s Manual is available at Ameriglide.com.
- Check your key locks and emergency stop button for functionality.
- Check for any rust that may be developing. Rust is expected in outdoor applications (especially in coastal areas), but with proactive maintenance or quick repair, this can be minimized.

**MAINTENANCE SCHEDULE  
RECOMMENDED EVERY 6-MONTHS**

**NOTICE**

*We recommend this be performed by a qualified service technician.*

- Check for motor gearbox leaks
- Check wear pads for gaps
- Lubricate ACME screw with Nook PAG-1 ACME Screw Grease
- Check all structural connections/hardware
- Inspect the safety brake
- Check the Battery Backup function (if installed)
- Ensure the Power Cut-Off system works as intended
- Check all interlocks, strikes and obstruction sensors

**RECOMMENDED ANNUALLY**

- Replace batteries (if equipped)





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