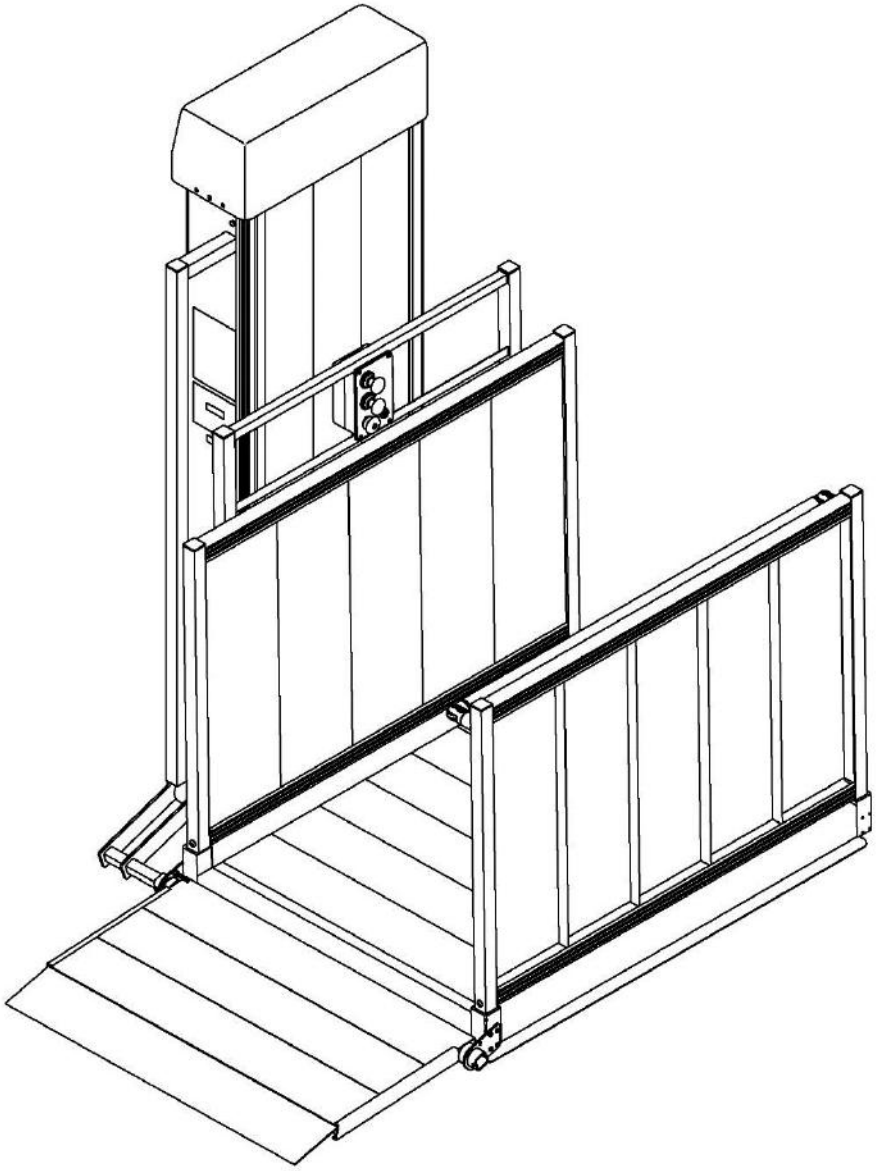
PASSPORT® Vertical Platform Lift (VPL)

Installation Manual

Models: PL44SP3651, PL44TP3860, PL52SP3651, PL52TP3860, PL72SP3651, & PL72TP3860

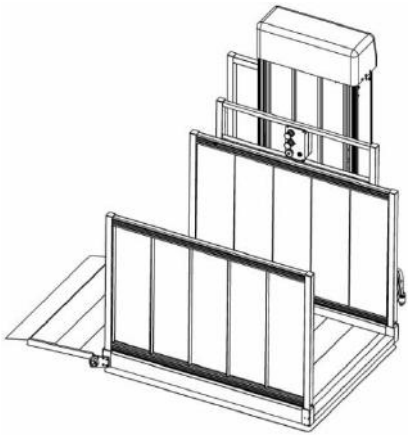


Intertek
4010490

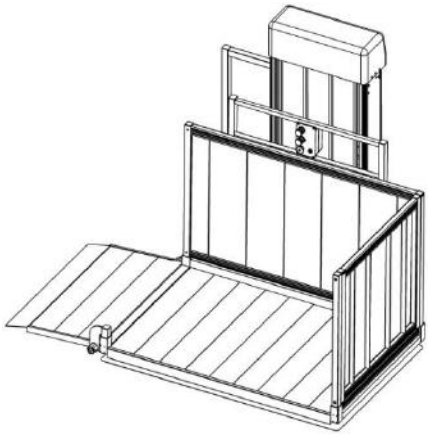
Manufactured in the USA

12274 11-22-19

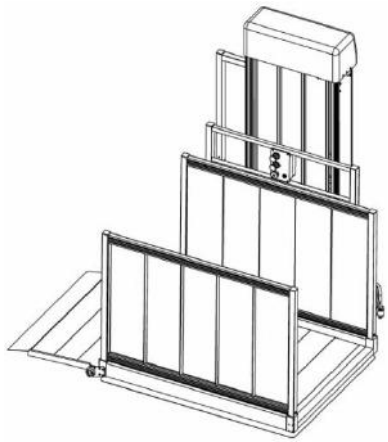
PL44SP3651 — 44” MAXIMUM HEIGHT STRAIGHT PLATFORM



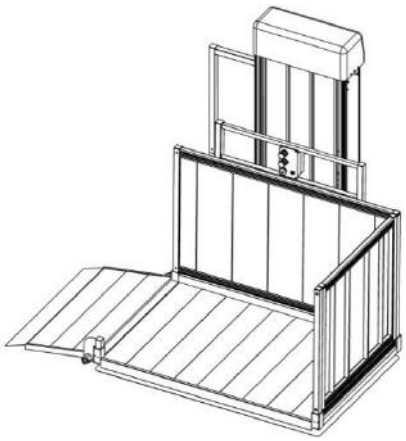
PL44TP3860 — 44” MAXIMUM HEIGHT TURN PLATFORM



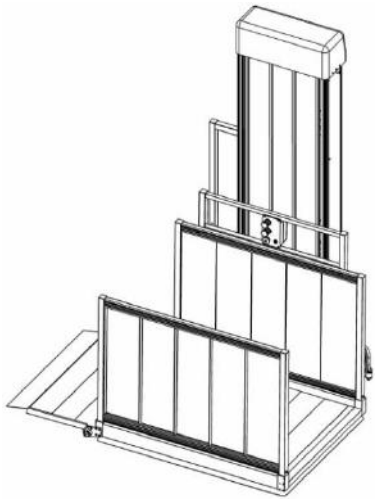
PL52SP3651 — 52” MAXIMUM HEIGHT STRAIGHT PLATFORM



PL52TP3860 — 52” MAXIMUM HEIGHT TURN PLATFORM



PL72SP3651 — 72” MAXIMUM HEIGHT STRAIGHT PLATFORM



PL72TP3860 — 72” MAXIMUM HEIGHT TURN PLATFORM

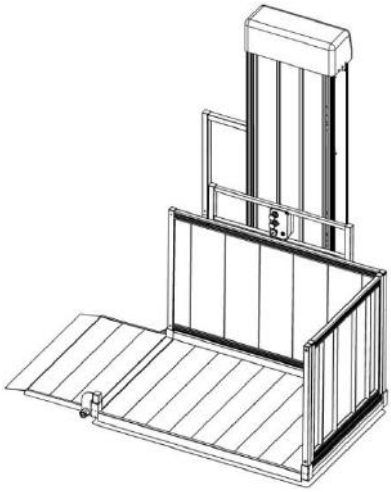


TABLE OF CONTENTS

INTRODUCTION

This manual covers installation for the 44”, 52”, and 72” heights of the PASSPORT® Vertical Platform Lift. Throughout this document, the PASSPORT Vertical Platform Lift is also referred to as “VPL” or “Lift”.

Before using the VPL, read and understand this manual as well as the User Manual, Supplements (including the PASSPORT® Vertical Platform Lift (VPL) Installation Supplement for 120” (10’), 144” (12’), and 168” (14’) when using a VPL over 72” tall), and Addendums, if any, in their entirety.

IMPORTANT SHIPPING INFORMATION

- The PASSPORT Vertical Platform Lift is shipped with a packing list. Confirm all items are present before starting installation. Open shipping boxes and inspect for damage or missing parts. If damaged or missing parts are noted, DO NOT INSTALL OR USE.
- Check for shipping damage immediately upon receipt and note any freight damage on freight bill while driver is still present. Contact shipper right away with any freight damage concerns. In most cases, freight damage claims will not be allowed unless noted on the freight bill. Pictures of damage before the unit is unpacked can be very helpful.

REQUIRED TOOLS

- ✓ 1/8” ALLEN WRENCH
- ✓ 7/32” ALLEN WRENCH
- ✓ 3/16” ALLEN WRENCH
- ✓ 3/8” DRIVE RATCHET
- ✓ 1/4” OPEN/BOX END WRENCH, SOCKET
- ✓ 1/2” OPEN/BOX END WRENCH, SOCKET
- ✓ 7/16” OPEN/BOX END WRENCH, SOCKET
- ✓ 9/16” OPEN/BOX END WRENCH, SOCKET
- ✓ ADJUSTABLE CRESCENT WRENCH
- ✓ 13/64” OR #7 DRILL BIT
- ✓ STANDARD PHILLIPS SCREWDRIVER
- ✓ STANDARD FLAT SCREWDRIVER
- ✓ PENCIL OR SIMILAR MARKER
- ✓ C-CLAMPS

TOOLS TECHNICIAN MAY FIND USEFUL

- ✓ TORPEDO LEVEL
- ✓ TAPE MEASURE
- ✓ RUBBER MALLET
- ✓ 3/8” DRIVE SOCKET SET (1/4”)
- ✓ SIDE-CUTTING PLIERS
- ✓ DIGITAL MULTIMETER (DVM)
- ✓ PLUMB BOB
- ✓ NEEDLE NOSE PLIERS
- ✓ BLADE STYLE FUSE PULLER
- ✓ SPARE 5 AMP BLADE STYLE FUSES
- ✓ ELECTRICAL TAPE
- ✓ FLASHLIGHT
- ✓ LED HEADLAMP
- ✓ TORQUE WRENCH
- ✓ MAGNET PICKUP
- ✓ FILE
- ✓ 12” 12AWG JUMPER WIRE
- ✓ HACKSAW OR COPING SAW

SYMBOLS, SAFETY, AND WARNINGS

- ⚠ The **WARNING** symbol indicates a potentially hazardous condition/situation. The safety warnings throughout this manual, and on your equipment, if any, are for the protection of people and property. Failure to abide by safety warnings will result in a waiver of all liabilities, loss of your warranty, and could result in equipment damage and or failure, property damage, risk of serious bodily injury, and or death, to operators, riders, and those nearby the symbol may appear in various colors and in conjunction with other symbols.
- ✋ The **NOTE** symbol indicates important information. Failure to obey all notes could result in improper operation, less-than-optimum equipment performance, and at the sole discretion of the equipment manufacturer, may void your warranty. The symbol may appear in various colors and in conjunction with other symbols.

PRIOR TO INSTALLATION

- ⚠ Professional installation by an EZ-ACCESS approved technician is required.
- ⚠ Anchoring and bracing drawing details, if required, are the responsibility of the installer.
- ⚠ The installer must ensure that the structure the VPL braces (if required) will be mounted to, and the reinforced concrete pad the VPL will be anchored to, are of adequate structural integrity, as determined by the installer and the authority having jurisdiction (AHJ) local to the VPL installation site.
- ⚠ The VPL platform guard walls must be at least 2” but no more than 3” (horizontally) from walls or other obstructions.
- ⚠ The VPL is supplied with a 12’ AC power cord. It is the installer’s responsibility to verify local codes and regulations regarding power supply and electrical connections. Custom power cord lengths are available.
- ⚠ Confirm the structural integrity of any existing fascia.
- ⚠ Verify that the upper landing area is level.
- ⚠ Determine which side the guard ramp will be attached to and verify adequate clearances.
- ⚠ Platform must travel up and down and guard ramp must fold and unfold without interference or obstruction.
- ✋ Lay out the installation site, taking into consideration VPL entry and exit points, height, and electrical supply location.
- ✋ Check for adequate headroom clearance above VPL platform.

WARNINGS

- ⚠ Prior to use, read and understand this manual and all other applicable manuals, including supplements and addendums, if any, and warning labels, in their entirety. Learn and understand the location and function of all features, Rated Load, safety devices, and labels before use. If you do not understand which manuals apply, or their content, do not use the VPL and call 1-800-451-1903 for further information.
- ⚠ Do not remove safety labels. Maintaining all labels and manuals in legible condition is required by the VPL owner and is essential for safe VPL operation. If labels are missing, damaged, or become illegible, they must be replaced by VPL owner. A missing or illegible label will fail to alert individuals on or around the VPL of a procedure or hazardous operating conditions. For replacement copies, please call 1-800-451-1903.
- ⚠ VPL Rated Load is 750 lbs. (340 kg.). Do not exceed Rated Load.
- ⚠ Do not operate a VPL over 72" without a Platform Gate installed.
- ⚠ Do not use VPL if Top Landing Gate is not secure and or functioning properly.
- ⚠ Anchoring details and or calculations are supplied by others.
- ⚠ Do not use VPL for anything other than its intended purpose of personal residential use for lifting of individuals and personal mobility devices.
- ⚠ Keep all body parts away from moving components and within the platform guards during VPL operation.
- ⚠ The Platform Safety Rail is required for anyone who will be standing on the VPL.
- ⚠ Never play on or near the VPL.
- ⚠ Turn mobility device's power 'OFF' and engage the brake prior to use on the VPL.
- ⚠ Remove ice, snow, leaves, and all potentially unsafe materials from VPL and landings before each use.
- ⚠ Inspect VPL for damaged, missing, or inoperable parts before each use. Never use a damaged or unstable VPL.
- ⚠ Annually (more frequently in harsher environments), check all fasteners and verify all nuts, bolts, screws, and other fasteners are undamaged and secure. Contact your dealer to schedule any needed inspections, repairs, or service.
- ⚠ Do not tamper with, attempt to repair, or modify any portion of the VPL. Only EZ-ACCESS approved technicians may service the VPL. Contact your dealer to schedule inspections, repairs, or service.
- ⚠ Observe and avoid all pinch points.
- ⚠ Whenever not actively raising or lowering the VPL, turn keyed power switch to 'OFF' position and remove key.
- ⚠ Always unplug VPL from electrical outlet before cleaning. Only plug VPL back in when area around VPL is dry.
- ⚠ Never operate VPL with damaged electrical wires, cords, or plugs.
- ⚠ The VPL's electrical cord must be routed and situated in a manner that poses no electrical or other hazards. Do not lay power cords on or across electrically conductive materials, such as metals, and always route power cords in such a manner so no one can trip over them and that they are not exposed to risk of accidental or incidental damage.
- ⚠ The AC electrical plug on this VPL is grounded and intended to be used only with a properly grounded GFCI outlet. If AC electrical wire ground pin is broken or missing, immediately contact your dealer to schedule repairs.
- ⚠ Stop using VPL and immediately contact your dealer for inspection, repairs, or service if any defect is suspected.
- ⚠ Use VPL only with a qualified helper.
- ⚠ Do not use any part of the VPL to support, attach, or hang planters, baskets, lights, ropes, cords, decoration, fabrics, or other ornaments or furnishings.
- ⚠ Annual (more frequent in harsher environments) inspections by an EZ-ACCESS approved technician are required. Contact your dealer to schedule any needed inspections, repairs, or service.
- ⚠ Before and while operating VPL, ensure hair, clothing, shoelaces, jewelry, and other personal items do not catch on anything that may create a hazard.
- ⚠ Correct installation, proper use, and following of instructions and obeying safety warnings of the VPL are necessary for safe operation.
- ⚠ Do not operate a VPL that has not been properly anchored to the reinforced concrete pad.
- ⚠ Do not operate VPL while occupied until VPL is properly anchored (and braced, when bracing is required). Operating the VPL, while occupied, before installation is complete is hazardous.
- ⚠ Unless servicing or inspecting the VPL, always keep all panels and protective coverings in place.
- ⚠ Maintenance must only be performed by EZ-ACCESS approved technicians. Contact your dealer to schedule any needed inspections, repairs, or service.
- ⚠ Caustics and high alkaline detergents and solutions should not be used to clean aluminum.

1. HARDWARE CONTENTS

STRAIGHT PLATFORM		
IMAGE*	**DESRIPTION**	**QTY**
	GUARD RAMP PIVOT PLATE	**2**
	PIVOT PLATE BOLT 1.4”-20 X ½” LONG HEX BOLT	**8**
	GUARD RAMP SPACER 2” O.D. X 11/16” LONG	**2**
	PIVOT ARM ASSEMBLY BOLT 5/16”-18 X 2” LONG HEX BOLT	**1**
	PIVOT ARM ASSEMBLY & PLATFORM ATTACHMENT NUT 5/16”-18 LOCKNUT	**4**
	PLATFORM ATTACHMENT BOLT 5/16”-18 X 1-1/2” LONG HEX BOLT	**2**
	GUARD RAMP ACTIVATING BAR ASSEMBLY & ATTACHMENT BOLT 5/16”X18 X 1” LONG HEX BOLT	**4**
	SIDE GUARD WALL ASSEMBLY BOLT 5/16”-18 X 2” LONG BUTTON HEAD SCREW	**1**

TURN PLATFORM		
IMAGE*	**DESCRIPTION**	**QTY**
	WELDED PIVOT PLATE ASSEMBLY	**1**
	GUARD RAMP PIVOT PLATE	**2**
	PIVOT PLATE BOLT 1.4”-20 X ½” LONG HEX BOLT	**4**
	PIVOT ARM ASSEMBLY BOLT 5/16”-18 X 2” LONG HEX BOLT	**1**
	PIVOT ARM ASSEMBLY & PLATFORM ATTACHMENT NUT 5/16”-18 LOCKNUT	**4**
	PLATFORM ATTACHMENT BOLT 5/16”-18 X 1-1/2” LONG HEX BOLT	**2**
	GUARD RAMP ACTIVATING BAR ASSEMBLY & ATTACHMENT BOLT 5/16”X18 X 1” LONG HEX BOLT	**4**
	SIDE GUARD WALL ASSEMBLY BOLT 5/18”-18 X 2-1/4” LONG HEX BOLT	**2**
	SIDE GUARD WALL ASSEMBLY BOLT 5/16”-18 X 2” LONG BUTTON HEAD SCREW	**1**

*** IMAGES NOT TO SCALE**

2. LABELING

2.1. Maintaining all labels and manuals in legible condition is required by the VPL owner and is essential for safe operation. Labels are pre-installed and positioned as shown (FIG. 2.1). These labels may vary in color, border style, size, and written content. For replacement copies, please contact your dealer or call 1-800-451-1903.

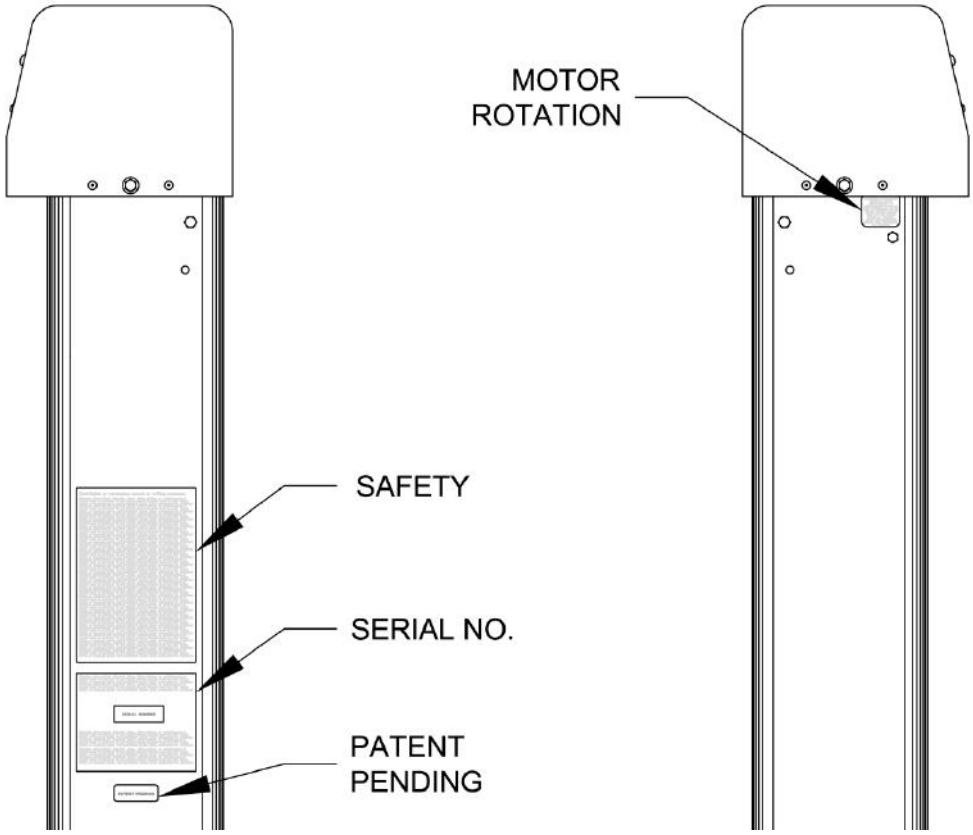


FIG. 2.1

3. OPTIONAL EQUIPMENT NOTICE

3.1. VPL options are sold separately. To order optional equipment, contact your dealer or call 1-800-451-1903 for additional information.

4. CONTROL VOLTAGE SAFETY SERVICE SWITCH "HOOD SWITCH"

4.1. For lifts taller than 72", refer to the PASSPORT® Vertical Platform Lift (VPL) Installation Supplement for 120" (10'), 144" (12'), and 168" (14').

4.2. The VPL comes with a control voltage safety service switch ("hood switch"), a control voltage disconnect ("switch") that is located under the power head cover ("hood") as shown (FIG. 4.1).

4.3. This hood switch is a magnetic reed switch which works in conjunction with a magnet mounted to the inside of the hood on the angle. When the hood is installed on the VPL, the magnet is in proximity to the hood switch, causing the hood switch contacts to close, enabling control voltage to the control box.

4.4. When the hood is removed, the magnet is no longer in proximity to the switch, causing the switch to open, disabling control voltage to the control box.

4.5. When servicing the VPL, the installer may find it necessary to enable the control circuit power with the hood off. This can be accomplished as follows (FIG. 4.2):

- 4.5.1 Unplug Connector "A" from Fuse Block Tab "F4".
- 4.5.2 Unplug Connector "C" from Connector "D".
- 4.5.3 Plug Connector "C" to Fuse Block Tab "F4".

⚠ Disabling the hood switch keeps the VPL control circuit energized. The VPL is electrically active in this state and will operate if the control buttons are pressed or if the control circuit is inadvertently jumpered.

⚠ Disable the hood switch at your own risk!

⚠ Always enable the hood switch electrical system when service is complete.

⚠ The hood switch does not remove battery power from the VPL motor circuit, only the control circuit.

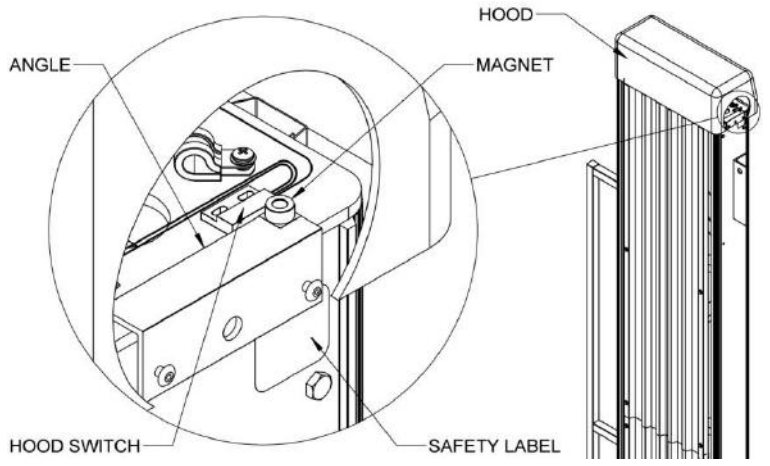


FIG. 4.1

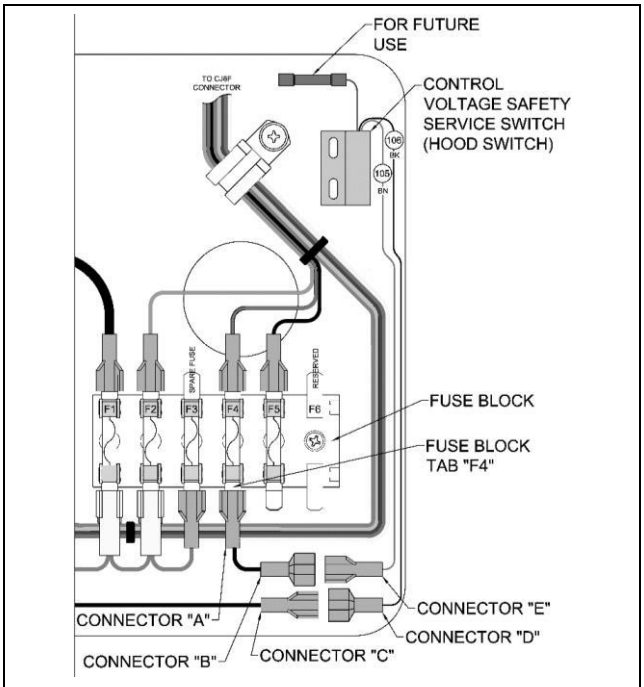


FIG. 4.2

5. ASSEMBLING THE VPL

- It is assumed at this stage that you have already poured a reinforced concrete pad for anchoring your VPL.

5.1. Assemble the VPL a few inches away from its final position, and carefully reposition as required.

- ⚠ VPLs are top heavy; use extreme caution when moving VPLs.

5.2. Remove the power head cover ("hood") first by removing the two button head bolts on either end (FIG. 5.1).

5.3. If attached, remove the front and rear tower covers and set aside.

- For lifts taller than 72", refer to the PASSPORT® Vertical Platform Lift (VPL) Installation Supplement for 120" (10'), 144" (12'), and 168" (14').

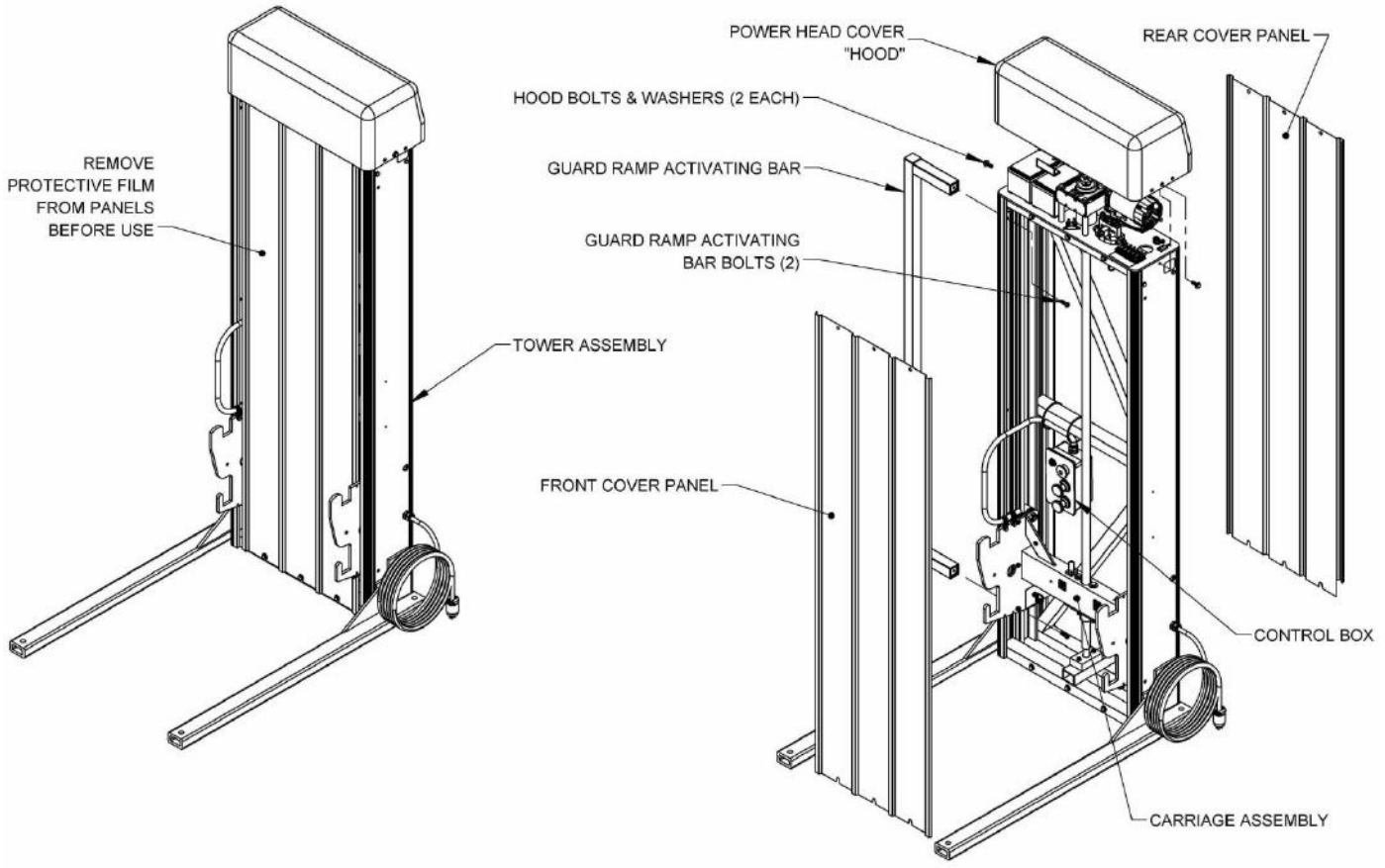


FIG. 5.1

5.4. Locate the guard ramp activating bar (FIG. 5.1).

5.5. Determine which side of the platform will have the guard ramp (the guard ramp activating bar must always be installed on the same side as the guard ramp).

5.6. Attach the guard ramp activating bar in the two open holes on the corresponding side of the tower using two 5/16"-18 x 1" long attachment bolts.

- There are two holes in the tower used for mounting the guard ramp activating bar which do not have fasteners in them. This is normal since the guard ramp activating bar can be mounted on either side.

5.7. Tighten all fasteners securely.

- ⚠ The turn platform guard ramp activating bar extends further away from the tower than the straight platform guard ramp activating bar. This extension for the straight platform is approximately 7-7/8" and approximately 12-3/8" for the turn platform. The correct guard ramp activating bar must be used with its intended platform for the guard ramp to operate correctly and to prevent damage.

5.8. STRAIGHT PLATFORM

5.8.1. Lift the platform assembly onto carriage, engaging both 1½" square tubes on the platform to the corresponding hooks in the carriage.

⚠ Never lift or carry the platform using the safety pan. Damage to the safety pan sensors can occur rendering the lift unsafe or inoperable.

5.8.2. Install two 5/16"-18 x 1-1/2" attachment bolts and locknuts through the mating holes in the platform assembly and the carriage side plate (FIG. 5.2). Tighten securely.

5.8.2.1. The outer cable clamp holding the control box wire bundle may need to be temporarily removed from the carriage to fully engage the platform tubes. If control box wire bundle is removed, it must be reinstalled (FIG. 5.2).

✋ For annual inspection purposes (see 'MAINTENANCE' SECTION)

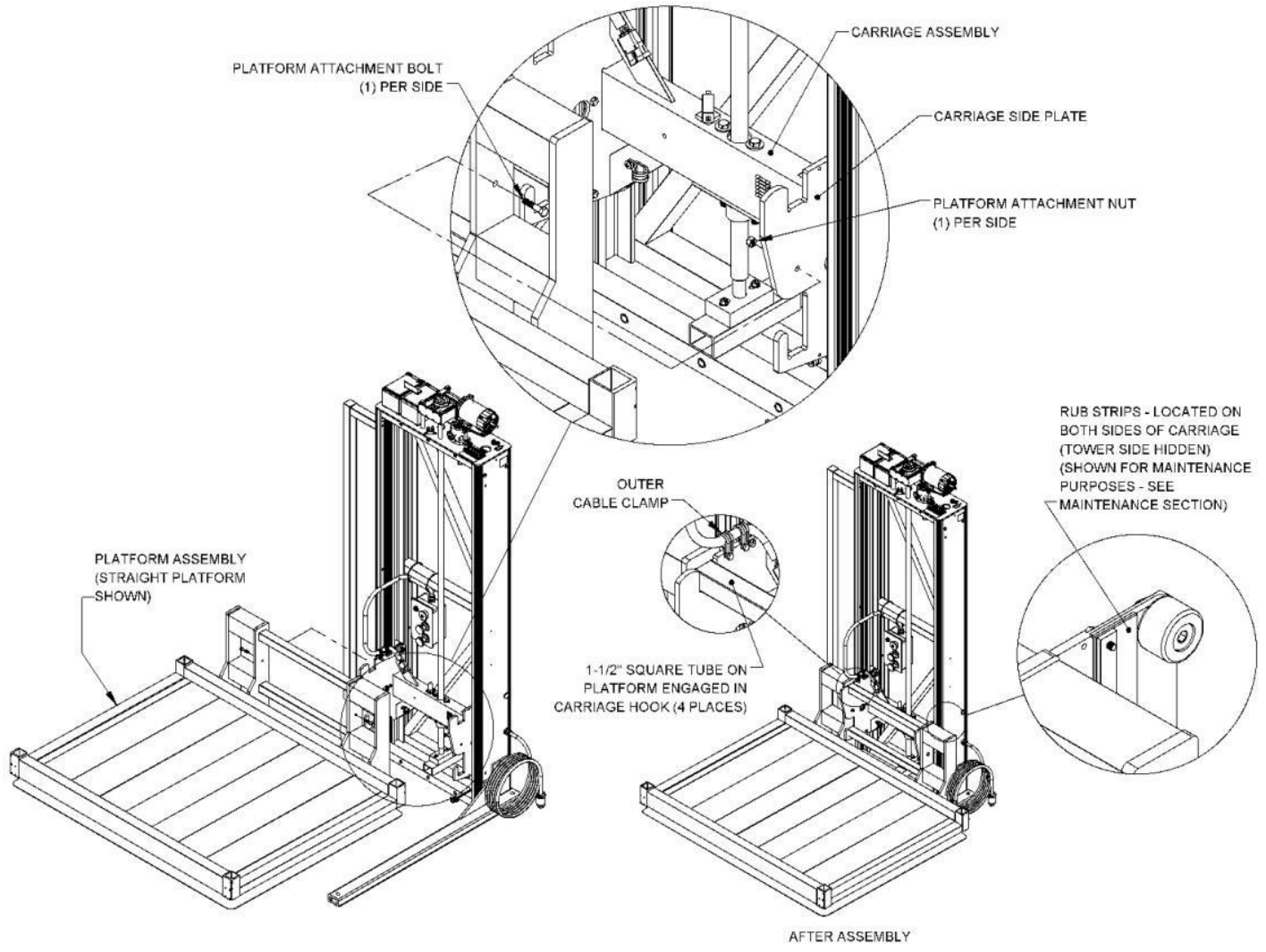
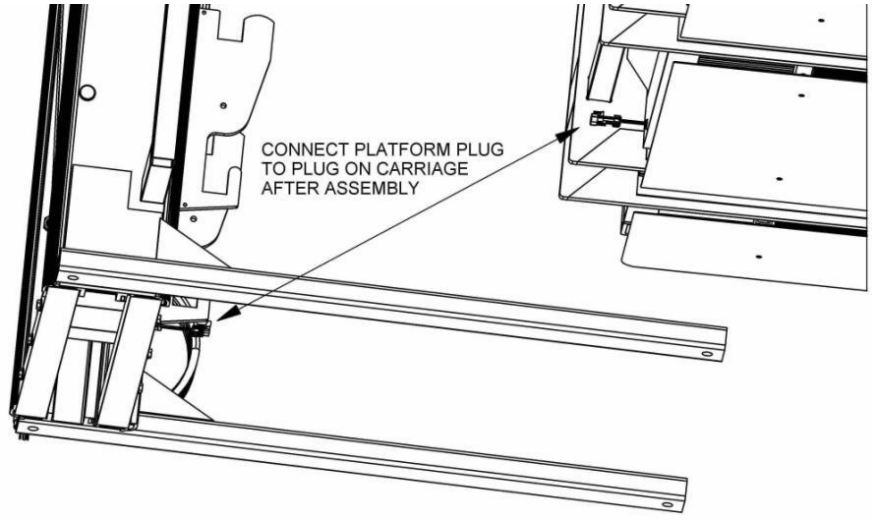


FIG. 5.2

5.8.3. Locate the wiring connector protruding from the back of the platform and attach to the corresponding connector on carriage (FIG. 5.3).

✋ If installing a Turn Platform, connect the platform plug, and then skip to Step 5.10.

FIG. 5.3



5.8.4. Install 5/16”-18 x 2” ss button head screw on pivot plate. Secure with 5/16”-18 locknut (FIG. 5.4).

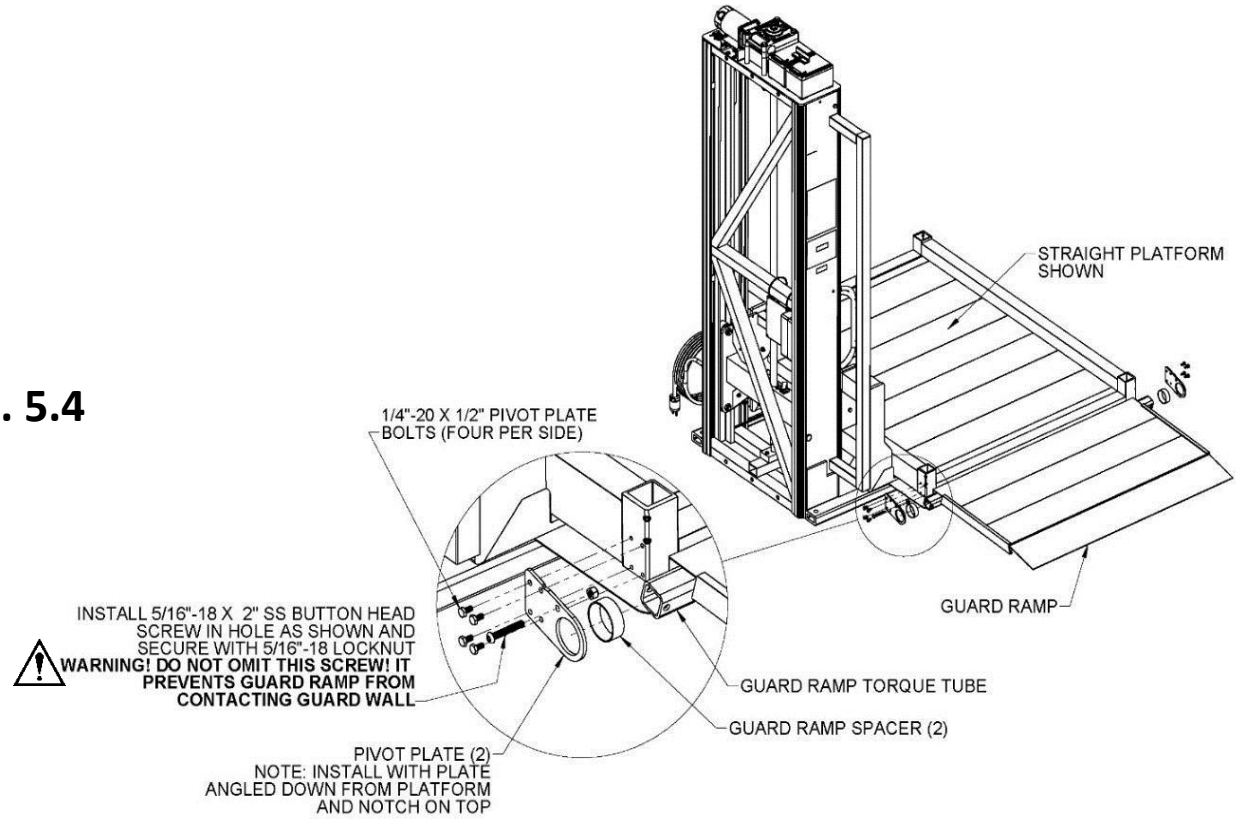
⚠ This screw must be installed to prevent the guard ramp from contacting the guard wall.

5.8.5. Locate the guard ramp, guard ramp pivot plates, 1/4”-20 x 1/2” pivot plate attachment bolts, and guard ramp spacers.

5.8.6. Slide the pivot plates and spacers over the ramp torque tubes as shown (FIG. 5.4).

5.8.7. Position the guard ramp with pivot plates on the entry side of the platform and secure both pivot plates to the platform with 1/4”-20 x 1/2” pivot plate attachment bolts (FIG. 5.4).

FIG. 5.4



5.8.8. Locate the 5/16”-18 x 2” hex bolt and locknut before installing the pivot arm assembly (FIG. 5.4 and FIG. 5.5).

5.8.9. Slide the pivot arm into the torque tube on the guard ramp until the bolt hole in the torque tube aligns with the hole in the pivot arm.

- There are two bolt holes in the pivot arm. One centers the roller under the guard ramp activating bar for the straight platform and the other centers the roller under the guard for the turn platform.

5.8.10. Secure with 5/16”-18 x 2” hex bolt and locknut installed in the orientation shown (FIG. 5.5).

5.8.11. Verify that the roller is positioned beneath the guard ramp activating bar.

- The roller will contact activating bar when operated. Avoid pinch points!

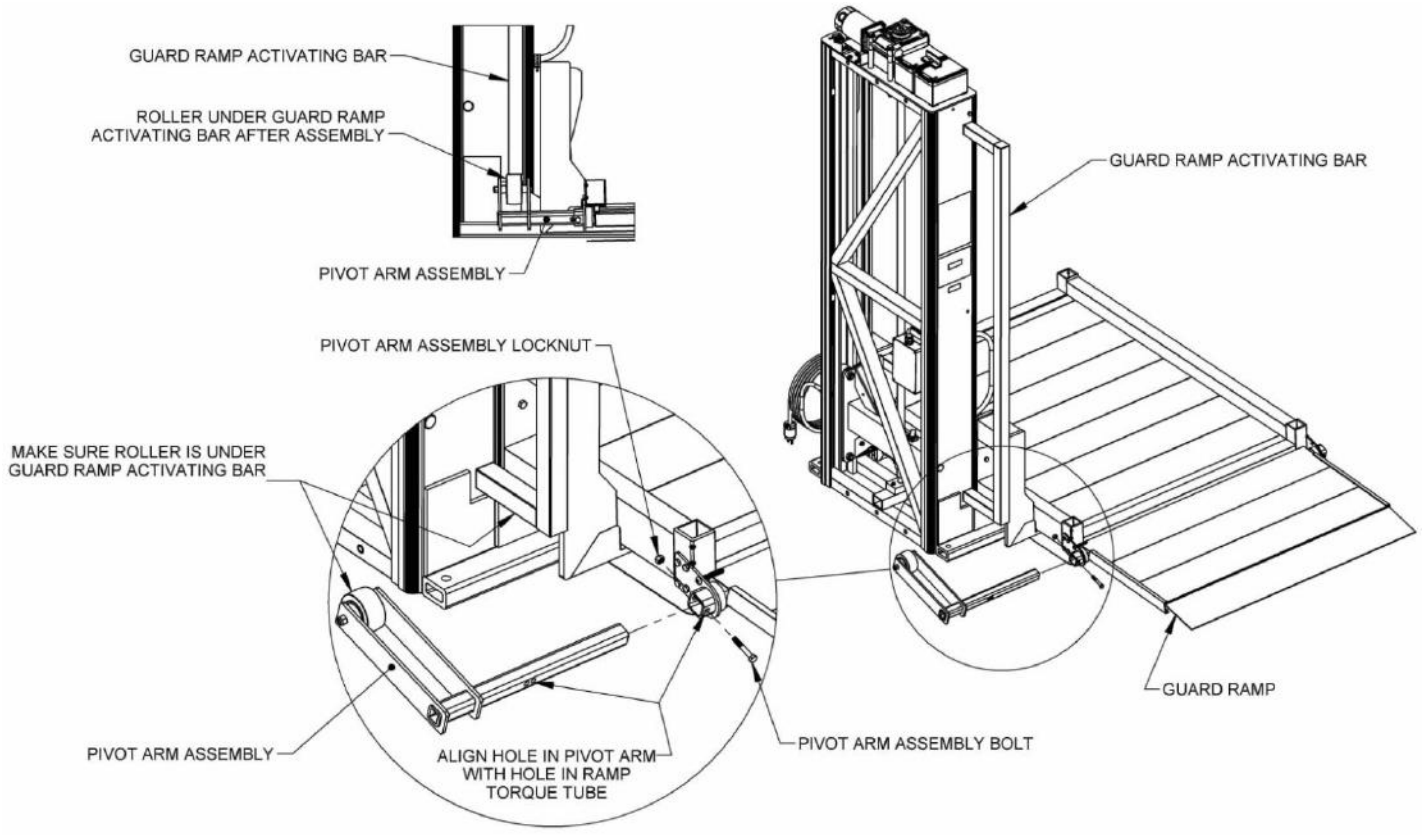
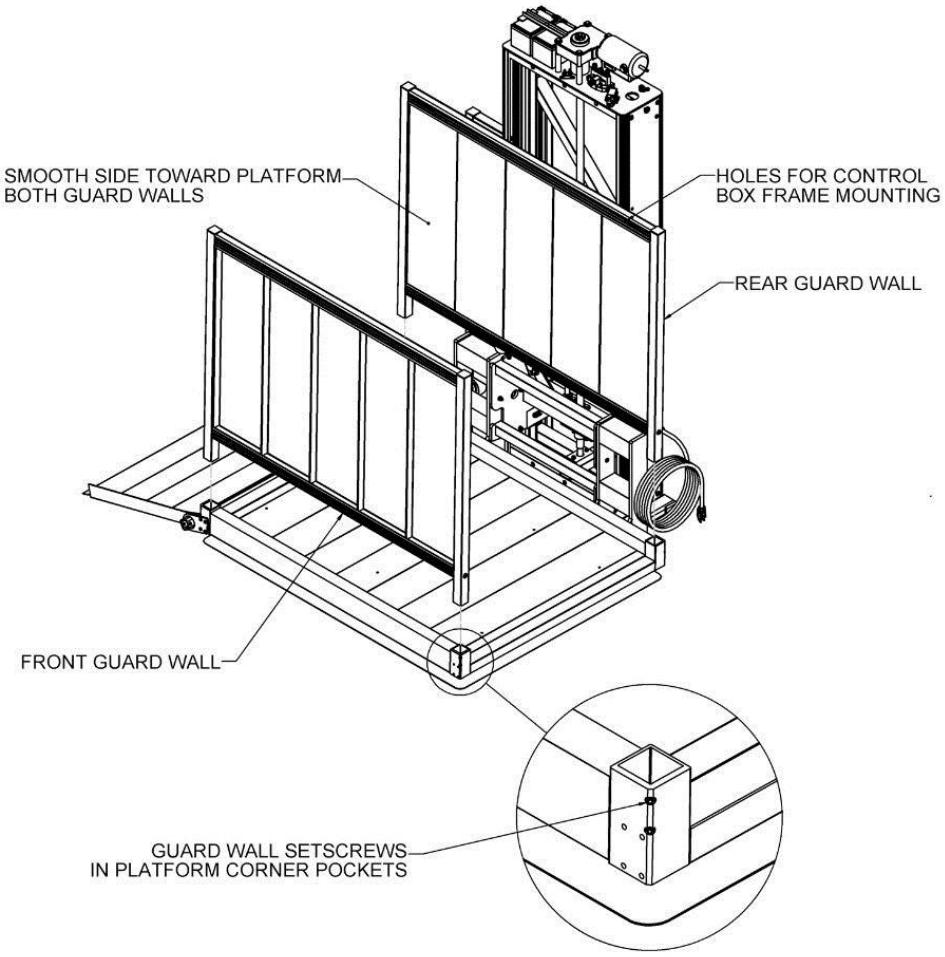


FIG. 5.5

5.8.12. Install the guard walls with the smooth side toward inside of the platform (FIG. 5.6). Loosen two set screws in each platform corner pocket as needed to fully engage the guard wall posts. Tighten all set screws securely after the guard walls are installed.

- Ensure guard wall with two holes in top rail is installed closest to the tower (FIG. 5.6).

FIG. 5.6

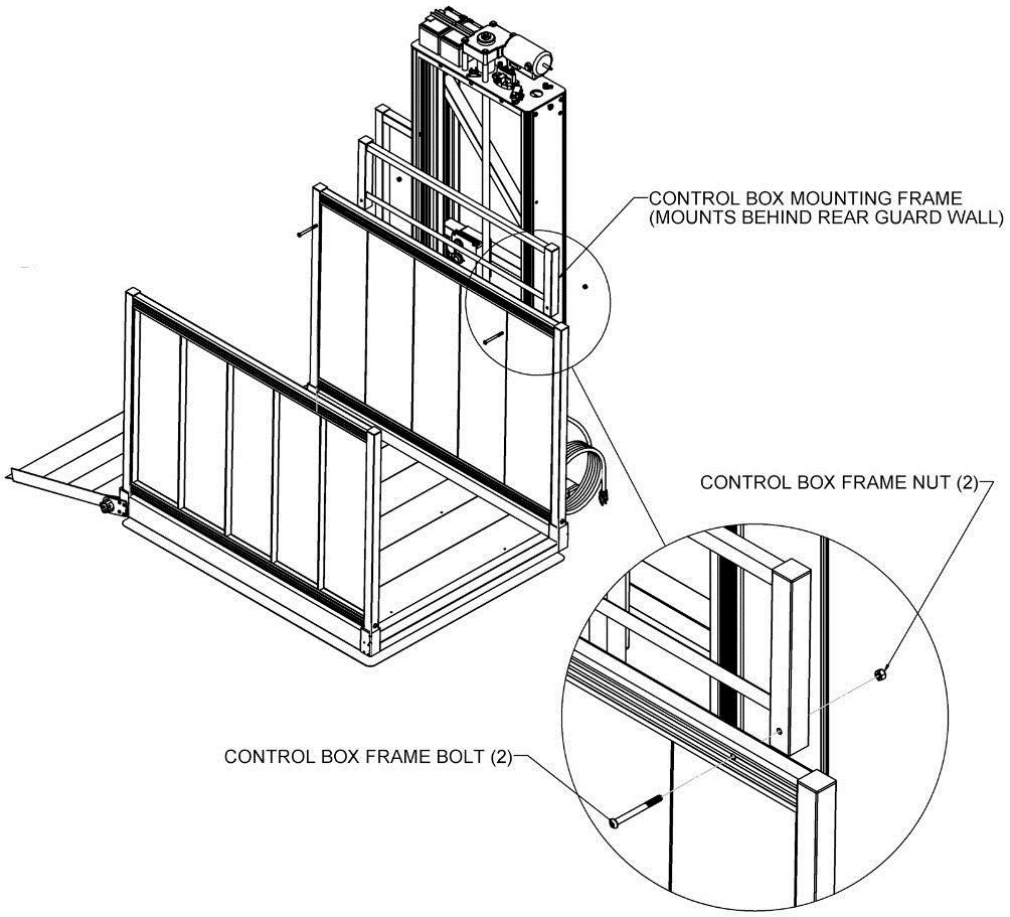


5.8.13. Install control box mounting frame to rear guard wall by first removing nuts and bolts from control box mounting frame posts (FIG. 5.7).

- Installation of the control box mounting frame is the same for the turn platform and the straight platform.

5.8.14. Using provided nuts and bolts, install the mounting frame between the guard wall and tower, oriented as shown (FIG. 5.7). Tighten securely.

FIG. 5.7



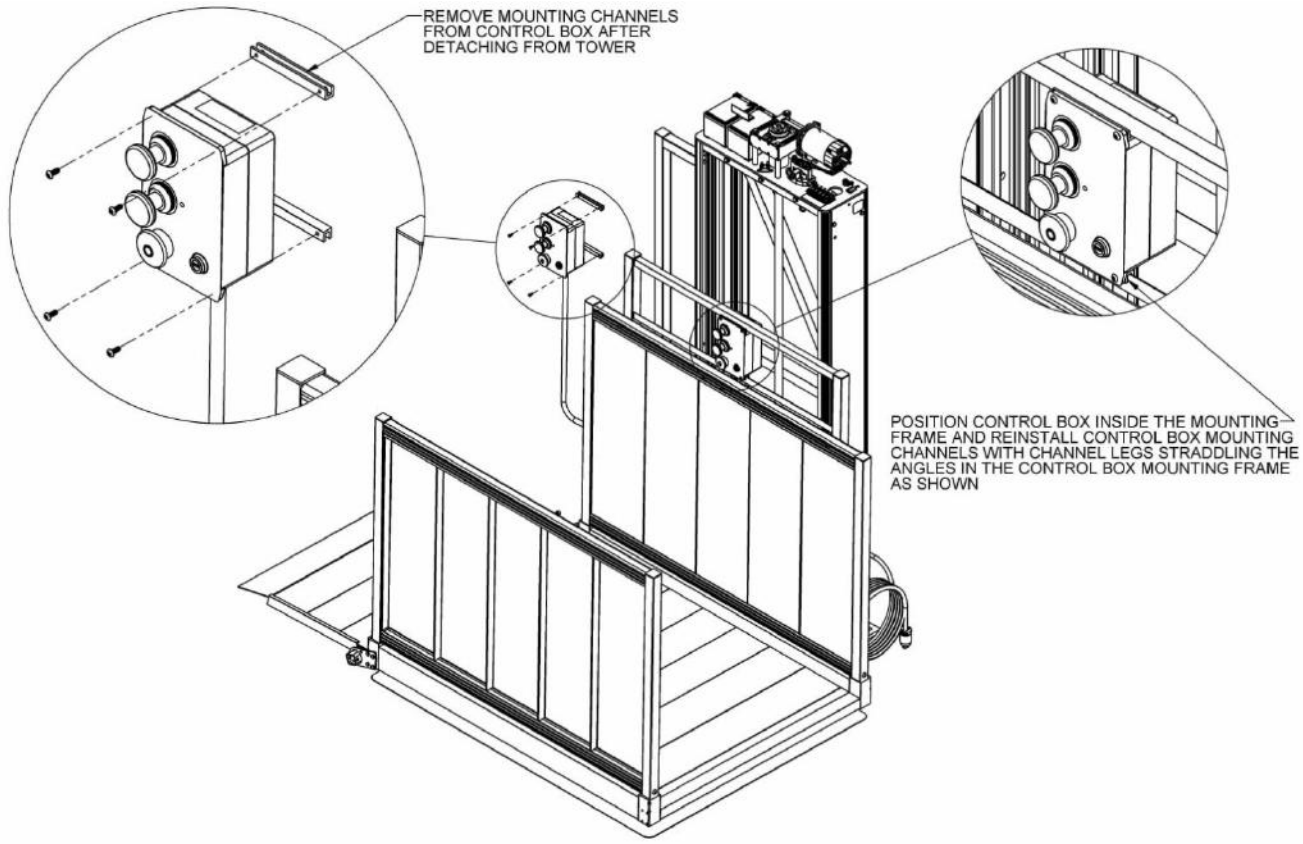


FIG. 5.8

5.8.15. The control box (FIG. 5.8) is secured to inside of tower with zip ties. Locate and cut the zip ties to free the control box.
5.8.16. Remove fasteners securing mounting channels to control box.
5.8.17. Position control box into the mounting frame as shown (FIG 5.8) and reinstall the mounting channels using the fasteners removed in the previous step.
5.8.18. Ensure that the control box is free to slide the entire length of mounting frame.

5.9. TURN PLATFORM

5.9.1. When assembling a turn platform, one pivot plate is installed on the side closest to the lift tower and one welded pivot plate assembly is installed in the opposite corner.

5.9.2. Determine which end of the platform the guard ramp will be installed on.

5.9.3. Insert the welded pivot plate assembly into the corner pocket furthest from the lift tower until fully engaged (FIG. 5.9). Tighten set screws in corner pocket securely.

5.9.4. Install 5/16”-18 x 2” ss button head screw on pivot plate and secure with 5/16”-18 locknut (FIG. 5.10)

⚠ This screw must be installed to prevent the guard ramp from contacting the guard wall.

FIG. 5.9

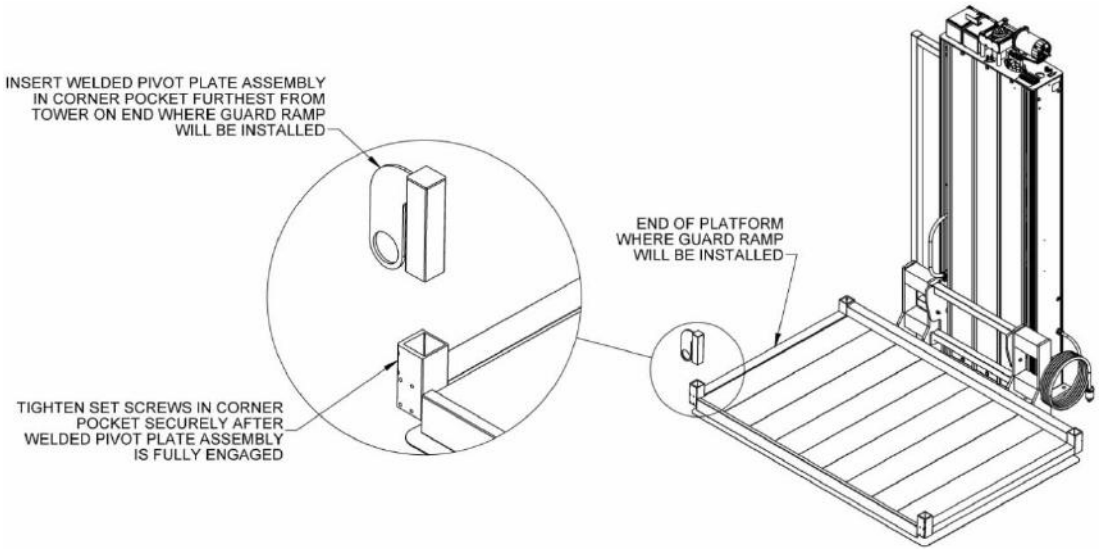
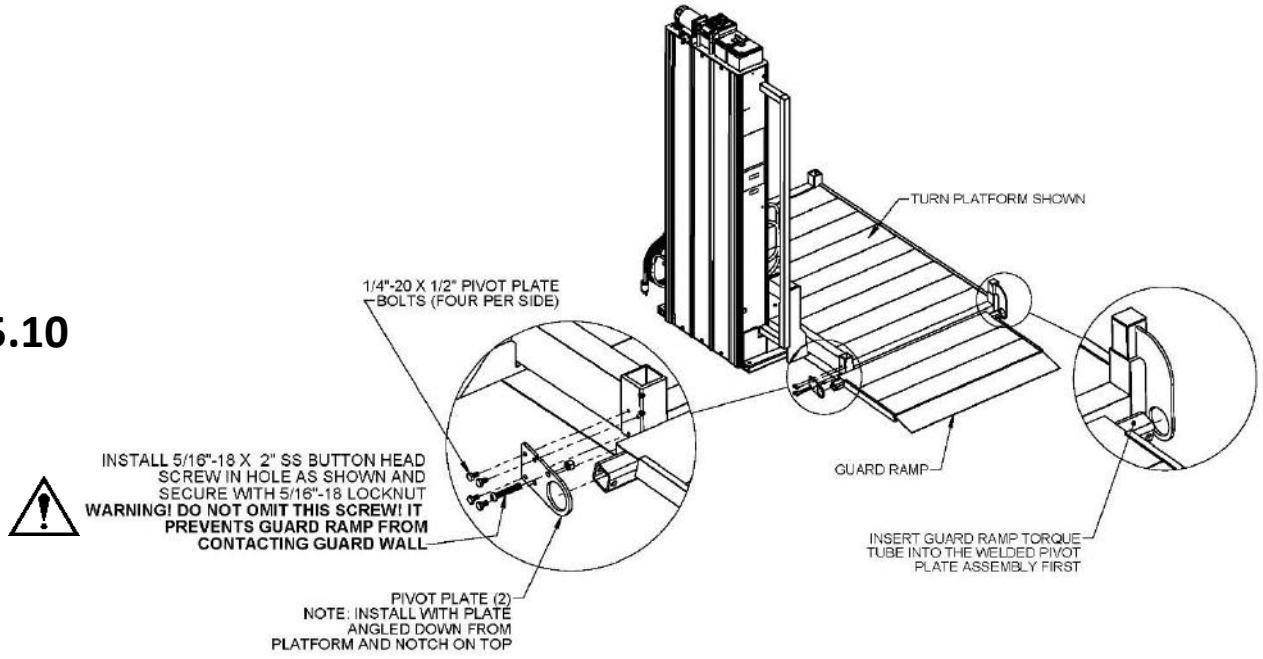


FIG. 5.10



5.9.5. Install the guard ramp by first inserting the outer torque tube into the hole in the welded pivot plate assembly.

5.9.6. Install the pivot plate over the torque tube on the opposite side. Attach to platform in the orientation shown using the four 1/4”-20 x 1/2” pivot plate attachment bolts (FIG. 5.10).

5.9.7. Complete steps 5.10.1 through 5.10.4 (install the pivot arm assembly) before continuing to guard wall installation.

5.9.8. Install the rear guard wall with the smooth side toward the inside of platform (FIG. 5.11).
5.9.9. Loosen the two set screws in each of the platform corner pockets (closest to the lift tower) as needed to fully engage the guard wall posts. Tighten all set screws securely after the guard wall is installed.

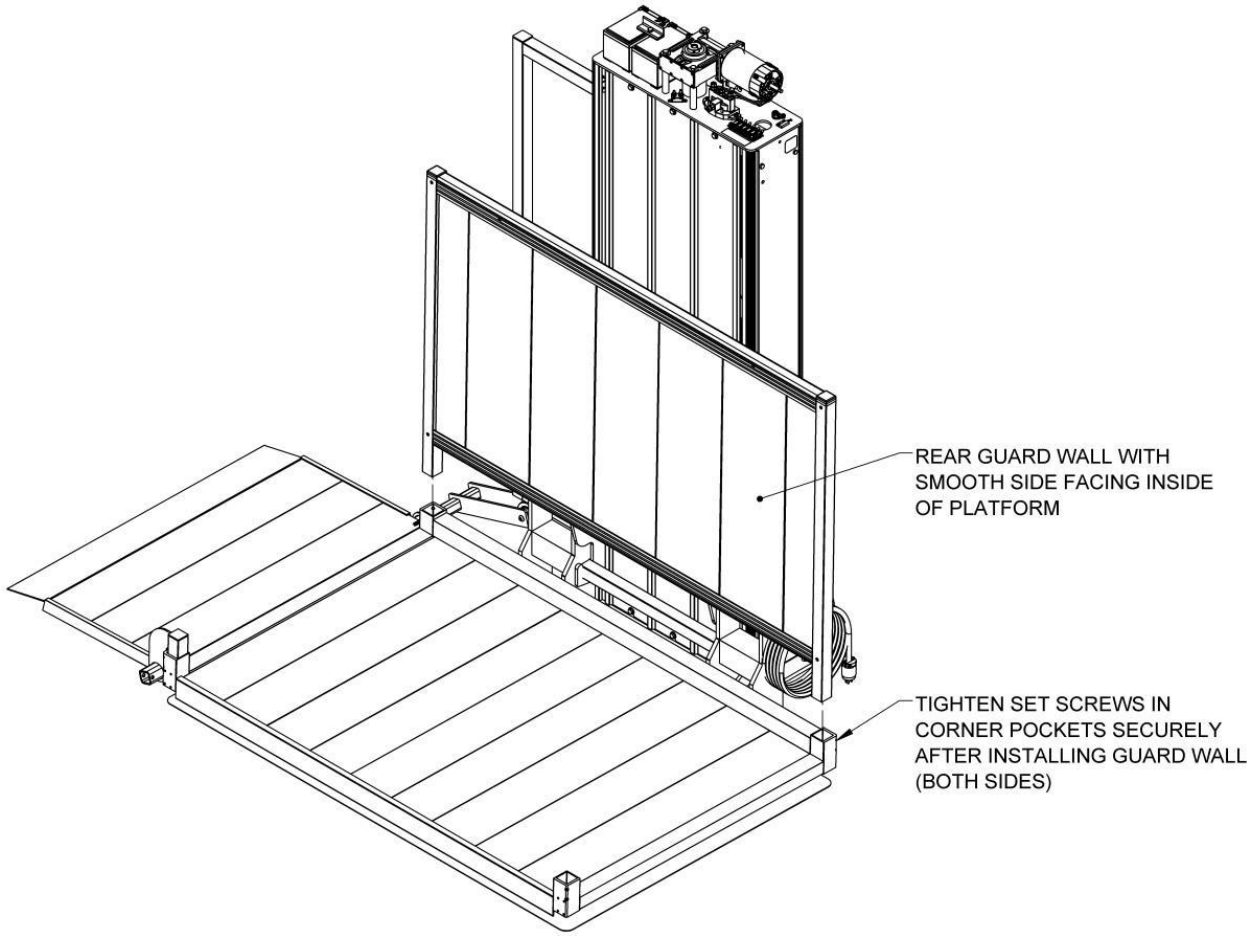


FIG. 5.11

5.9.10. Install the side guard wall with the smooth side toward the inside of platform (FIG. 5.12). The side guard wall comes with its post installed on one side. If the post is not on the side needed for the smooth side to be installed toward the inside of the platform, disassemble the post from the guard wall and reinstall on the opposite side before proceeding.

5.9.10.1. Loosen the two set screws in the remaining open platform corner pocket as needed to fully engage the guard wall post.

5.9.10.2. Align the threaded inserts in the side guard wall with the holes in the rear guard wall post and install two 5/16”-18 button head socket cap screws through the rear guard wall post into the threaded inserts. Tighten securely.

5.9.10.3. Tighten platform corner pocket set screws securely after side guard wall is installed.

5.9.11. Installation of the control box mounting frame and the control box is the same for the turn platform and the straight platform.

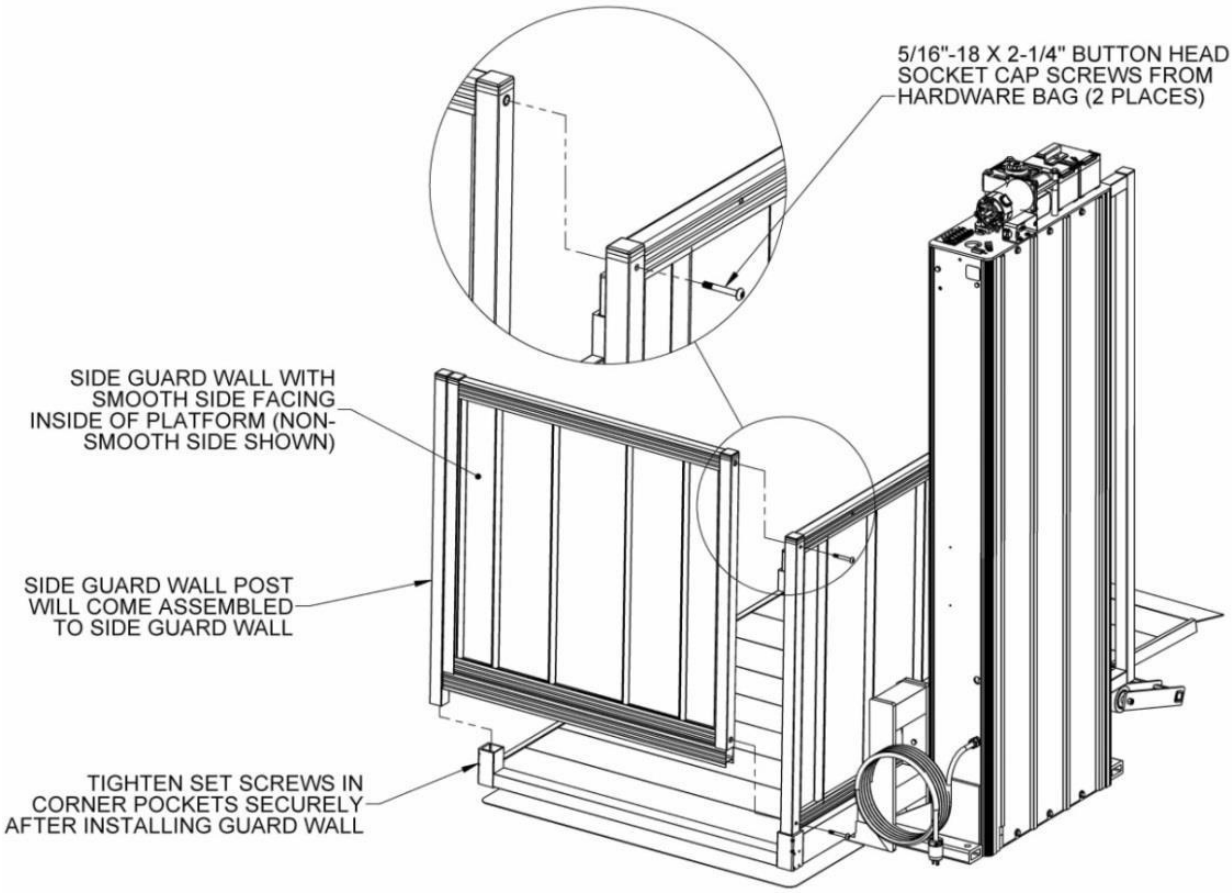


FIG. 5.12

6. CONFIRM BASIC VPL OPERATION

- ⚠ If plugged in to an AC outlet, unplug the VPL 120-volt AC power cord before proceeding with next steps.
- ⚠ Do not operate a VPL that has not been properly anchored to the reinforced concrete pad.
- ⚠ If cover panels are not installed, the VPL's internal mechanisms will be exposed at this point. Be sure to keep all body parts and loose clothing, as well as other people and pets, clear of the VPL to avoid injury.

6.1. Ensure no one is standing on the platform while completing this section.
6.2. Slide control box to one side so the VPL can be operated while standing on the ground.
6.3. Ensure the white wire (connects to the negative battery terminal) is disconnected.
6.4. Verify that the keyed switch on the control box is in the 'Power Off' position.
6.5. With no one standing on the platform, locate and connect the white wire (there should only be one open terminal on the batteries, see FIG. 6.1).

6.5.1. The VPL will not operate when the wire is connected to the battery when the keyed switch is the 'Power Off' position. However, in case of unexpected operation, be sure you are positioned to prevent injury.

- ✋ A small amount of sparking is normal when connecting the wire.
- ✋ The VPL includes a control voltage safety service switch ("hood switch"), a control voltage disconnect switch under the power head cover. This switch can disable the VPL control circuit. If you are having difficulty with the control circuit, see SECTION 4 for additional information.
- ✋ When plugged in to AC power, the VPL battery charger LED (FIG. 6.2) illuminates green indicating the batteries are charged, red indicates the batteries are charging.

FIG. 6.1

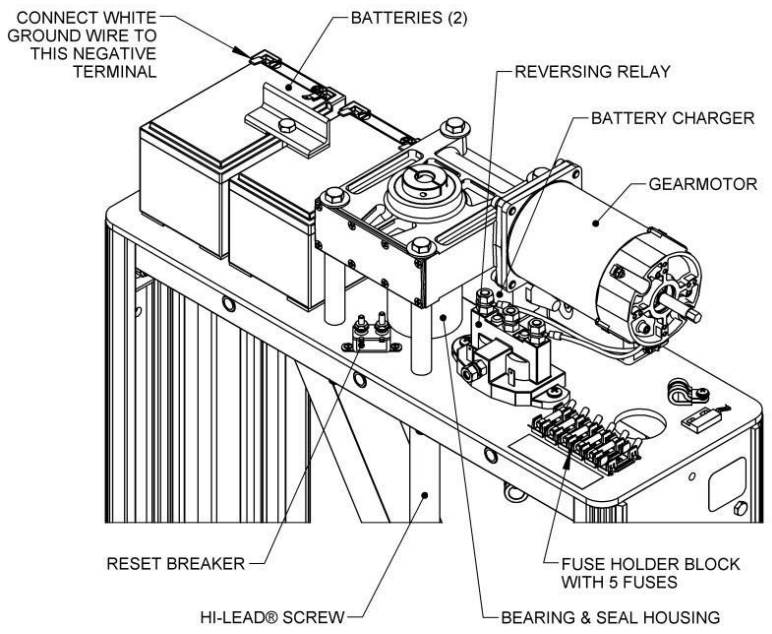
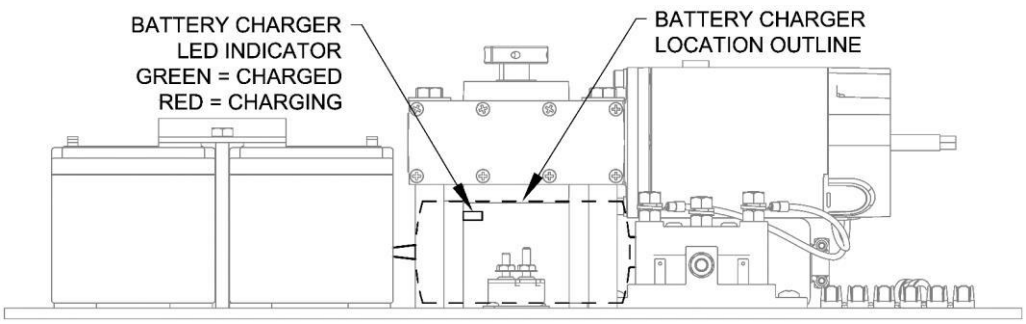


FIG. 6.2



FRONT VIEW (WIRING NOT SHOWN FOR CLARITY)

7. PLACEMENT AND INSTALLATION

7.1. If using VPL with the optional Top Landing Gate, proceed to SECTION 9 prior to placing and installing VPL.

7.2. Position the VPL in its approximate final position.

7.3. Plug VPL into AC power, reinsert key into the keyed power switch, and turn to the 'Power On' position.

7.4. Run the VPL Platform up to the upper landing height. If supplied, use the optional Call/Send Control or optional Wireless Remote to operate VPL.

⚠ Do not operate an occupied VPL that has not been properly anchored to a reinforced concrete pad.

7.5. Check for adequate running clearances. The platform must be able to travel up/down and the guard ramp must be able to fold/unfold without interference or obstruction.

7.6. Shim VPL legs as needed to fine-tune level and plumb.

- There is a one-degree (1°) preload angle built into the VPL platform. Level the VPL using the tower as plumb reference not the platform surface.
- If using with a Top Landing Gate, it is recommended that the VPL not be shimmed or anchored until the Top Landing Gate has been completely installed.

7.7. Anchor the VPL using four 1/2" x 3-1/2" Red Head® Trubolt® Wedge or Trubolt®+ Seismic Wedge concrete anchors or equivalent (not supplied). Follow the anchor manufacturer's instructions for proper installation of concrete anchors.

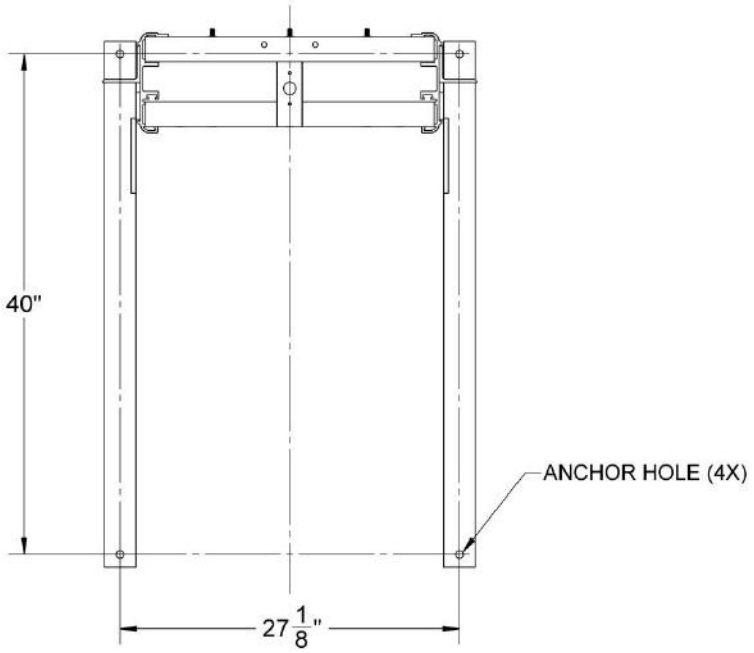
⚠ Ensure anchor tops do not interfere with platform operation.

7.7.1. The legs of the VPL are pre-drilled with four 5/8" holes (40" on-center and 27-1/8" on-center) for anchoring the VPL to a reinforced concrete pad. See FIG. 7.1 for leg anchor layout.

- The anchor hole pattern shown below pattern is correct for all standard VPLs.
- See Technical Specifications for additional dimensions and anchoring information.

7.7.2. Once properly anchored and braced (if equipped), the VPL can be operated safely while occupied for the remainder of the installation.

FIG. 7.1



7.8. The lower travel limit of the VPL is factory set and should not require adjustment.

7.9. Upper travel limit adjustment is factory set at the maximum height. Raise the VPL platform until the platform stops and the ENTER/EXIT indicator illuminates.

7.10. Measure the vertical distance from the platform deck to the upper landing and record this dimension.

7.11. Lower the VPL past the upper landing.

7.12. Locate the limit switch trigger on the upper right inside of the tower side. Place a mark on the tower side aligned with one of the flat head adjustment screws on the limit trigger (FIG. 7.2).

7.13. Measures down from the mark on the tower side by the same dimension recorded in the previous step and mark the tower at this point.

7.14. Loosen, but do not remove the two 1/8" limit switch trigger adjustment screws until the trigger moves. Slide the limit switch trigger assembly down until the same flat head screw where the upper mark was made is now aligned with the lower mark on the tower side. Tighten (Do Not overtighten) two flat head adjustment screws.

⚠ Use only a 1/8" Allen Wrench on the Limit Switch Trigger screws or the screw head may strip.

7.15. Raise the VPL platform until it stops and the ENTER/EXIT indicator illuminates.

7.16. Check the height alignment between the upper landing and the platform deck, then fine tune by adjusting limit switch trigger up or down as needed. Final height should be set so the platform height is approximately 1/4" above the landing height when the VPL is unoccupied.

7.17. Verify proper operation of guard ramp.

7.18. Ensure that the flat head screws on the limit switch trigger are securely tightened.

7.19. Replace the front cover panel.

7.20. Replace the power head cover.

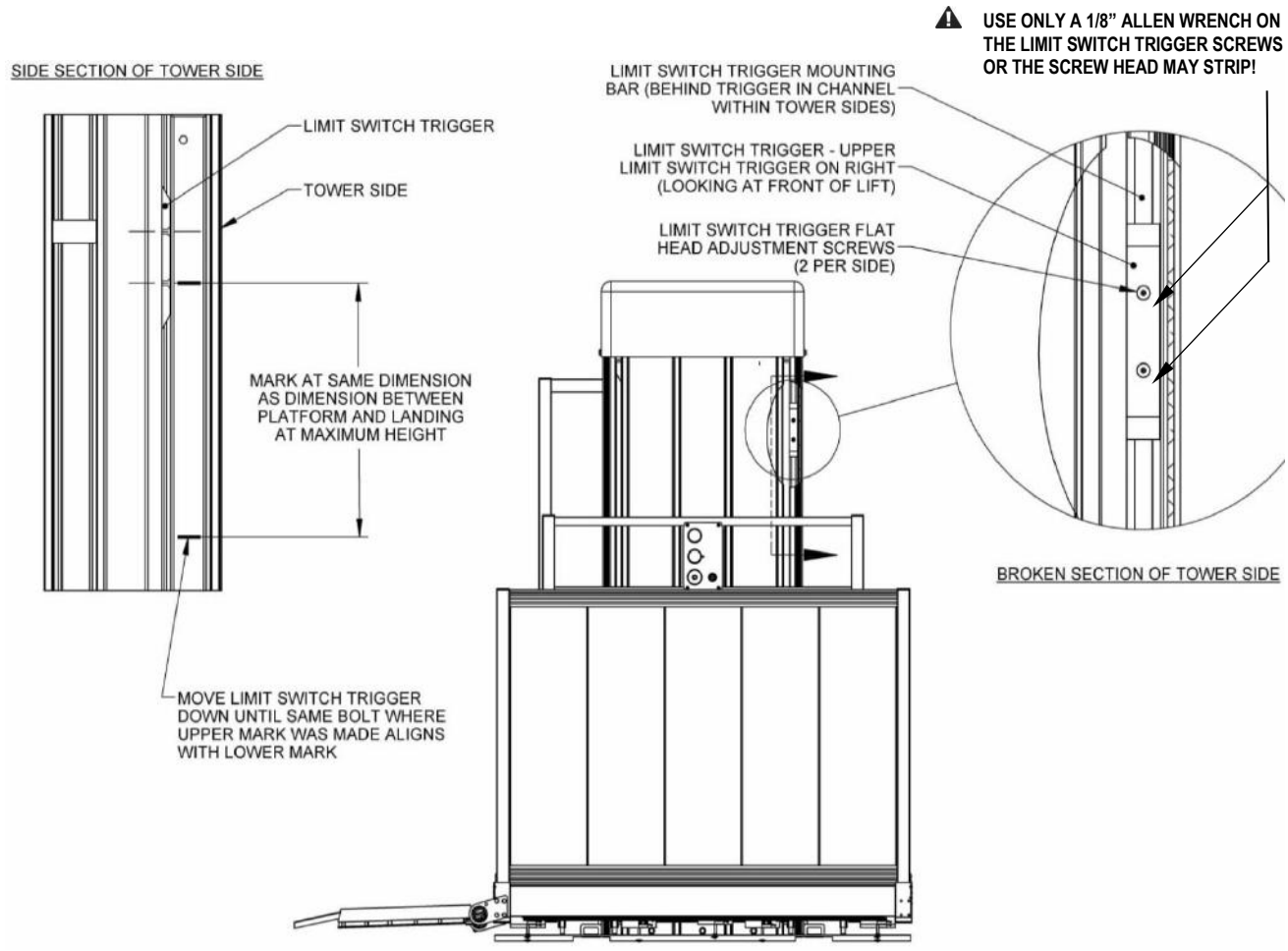


FIG. 7.2

8. OPTIONAL EQUIPMENT – WIRELESS REMOTE

8.1. OVERVIEW

8.1.1. The wireless remote allows remote operation of the VPL from a suitable location and can be used in conjunction with the call/send control option. Multiple FOB transmitters allow VPL operation from various locations, for instance, inside a home or vehicle.

- ⚠ Do not allow unauthorized persons to use the VPL or wireless remote.
- ⚠ To prevent unwanted electrical discharge, always turn off VPL power, unplug VPL AC power cord, and unplug the white ground wire from battery before installing the antenna.

8.2. The wireless remote antenna cable is available in two lengths:

8.2.1. 108” for standard VPL heights up to and including 72”.

8.2.2. 199” for standard VPL heights over 72”.

8.3. INSTALLATION

8.3.1. If connected, disconnect the 12-volt AC power cord from the receptacle.

8.3.2. If connected, disconnect the white wire (there is only 1 white battery wire) from the battery terminal.

8.3.3. Refer to the wireless remote parts list (FIG. 8.1).

8.3.4. Refer to GAMA receiver (“receiver”) mounting location (FIG. 8.2) and place receiver on VPL’s lower rail.

8.3.4.1. Hold receiver steadily. Insert a marker into the holes where the two #8-32 thread cutting screws will go and mark the VPL frame.

8.3.4.2. Use a #20 drill bit to drill a pilot hole for the screws.

8.3.4.3. Place receiver’s 5/16” ring terminal (on black ground wire) under receiver and secure with two #8-32 thread cutting screws (FIG. 8.3).

FIG. 8.1

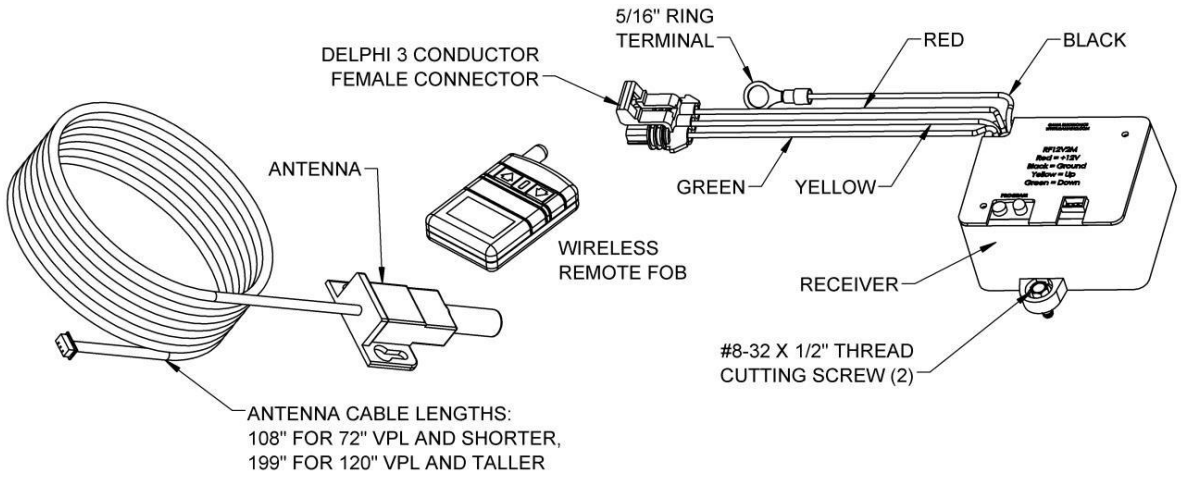
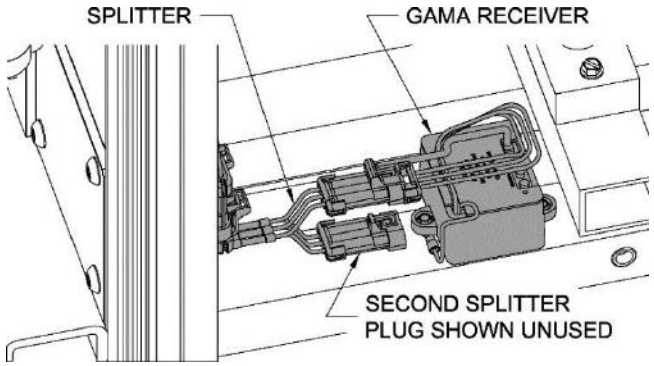


FIG. 8.2

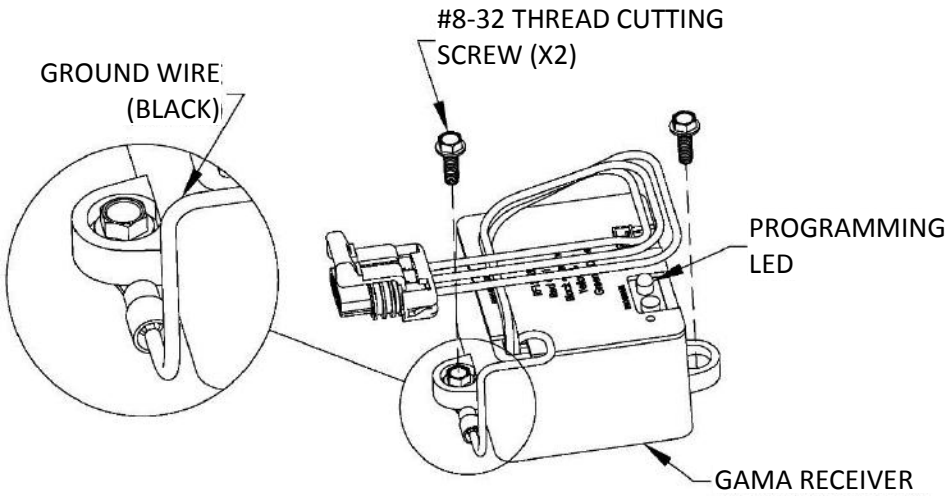


8.3.5. Illustration of overall installation of the receiver (FIG. 8.3).

8.3.6. To install the antenna, drop antenna cable down through the VPL's tower wire channel (FIG. 8.4).

8.3.6.1. Note the location of the hook and loop fastener on the underside of the antenna (FIG. 8.5).

FIG. 8.3



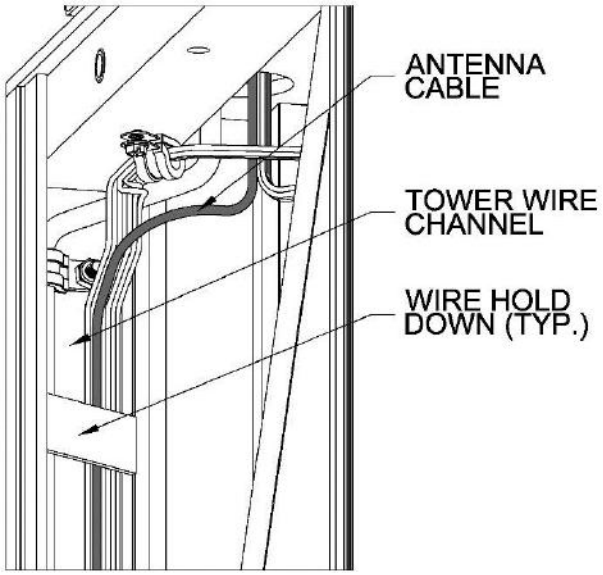


FIG. 8.4

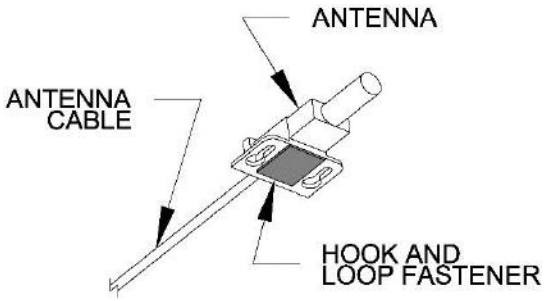


FIG. 8.5

8.3.7. Once the mount location for the antenna is determined, remove protective adhesive from hook and loop fastener and press to stick the antenna in place (FIG. 8.6).
8.3.8. Plug the antenna into the receiver (FIG. 8.7).
8.3.9. Stow excess antenna cable neatly and securely away from all VPL moving parts.
8.3.10. Install splitter (FIG. 8.8) by plugging it into the VPL options plug and the receiver plug (FIG. 8.9).

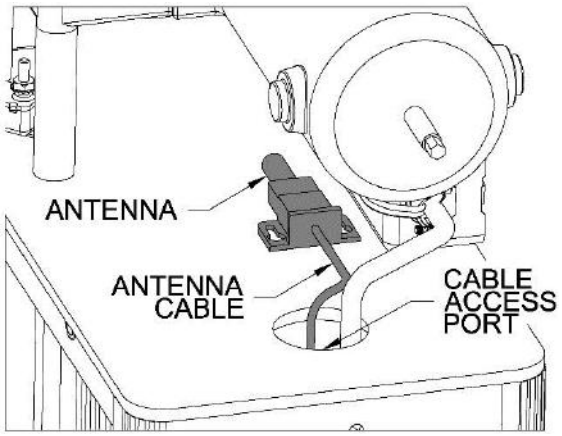


FIG. 8.6
(COMPONENTS REMOVED FOR CLARITY)

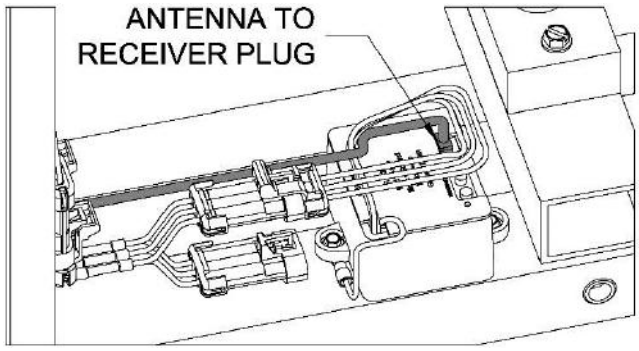


FIG. 8.7

FIG. 8.8

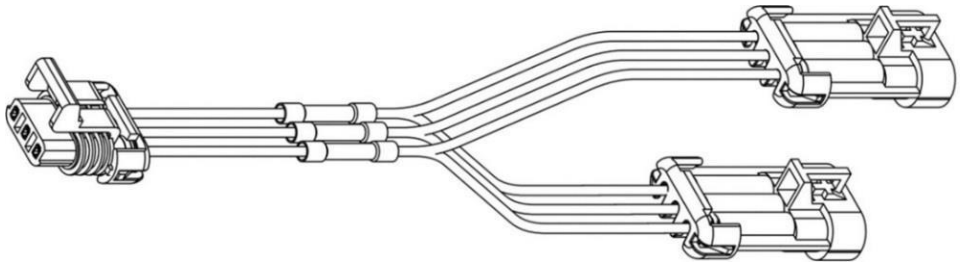
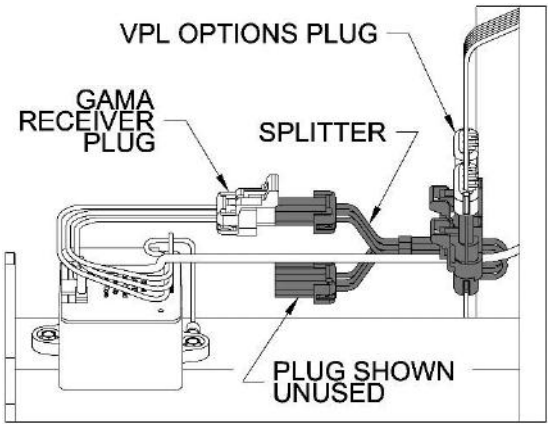


FIG. 8.9



9. OPTIONAL EQUIPMENT – TOP LANDING GATE

9.1. Always plan/lay out the installation site before beginning the actual installation. Consider the direction of the top landing gate swing and the top landing gate's position on the porch or deck with respect to where the VPL will be installed.

- ⚠ A smooth fascia panel is required to fill the area underneath the top landing gate (between the porch or deck and the ground). It is the installer's responsibility to construct this fascia or confirm an existing fascia meets applicable codes.
- ⚠ Verify and follow all applicable codes and regulations regarding use of a top landing gate with a VPL.
- ⚠ Never use the top landing gate for uses other than its intended function.
- ⚠ With the exception of adding the top landing gate latch cover, do not modify the top landing gate or latching mechanism.
- ⚠ Do not operate the top landing gate latch manually while the VPL is in operation.
- ⚠ Do not block the top landing gate open or closed.
- ⚠ Keep the area around the top landing gate free of debris.
- ⚠ Do not play on or around the top landing gate or attach foreign objects to the top landing gate.
- ⚠ Keep hands and other body parts clear of pinch points at all times.
- ⚠ Use only recommended fasteners and attachment points for anchoring the top landing gate.
- ⚠ Call your dealer for service if the top landing gate does not fully close unassisted and do not use until repairs have been completed by an EZ-ACCESS approved technician.

9.2. TOP LANDING GATE WITH TURN PLATFORM

9.2.1. When using a top landing gate with a turn platform, the gate latch must be on the same side as the side guard wall (FIG. 9.1).

- ⚠ The top landing gate will not span the entire length of a turn platform at the upper landing. It is the installer's responsibility to fill this area completely, making sure the side facing the lift is smooth, and also to reinforce all existing handrails and guardrails structurally, if needed (FIG. 9.1).

9.3. ASSEMBLY

9.3.1. The top landing gate is factory assembled with the hinges either on the right or the left, depending on the model ordered.

9.3.2. The top landing gate requires a section of landing 50" wide. Modifications to your decking/railings may be required.

9.4. INSTALLATION

9.4.1. The area between the ground and the porch or deck where the VPL Platform will travel must be closed. Consult local building codes and close this area as required.

9.4.2. Install the VPL as described elsewhere in the manual.

9.4.3. The side of the VPL platform adjacent to the fascia must be between 3/8" and 3/4" from the porch or deck.

9.4.4. The front or rear guard wall of the straight platform or the side guard wall of the turn platform must align with the latch roller on the top landing gate, depending on which way the top landing gate opens (FIG. 9.1, FIG. 9.2, and FIG. 9.3).

FIG. 9.1

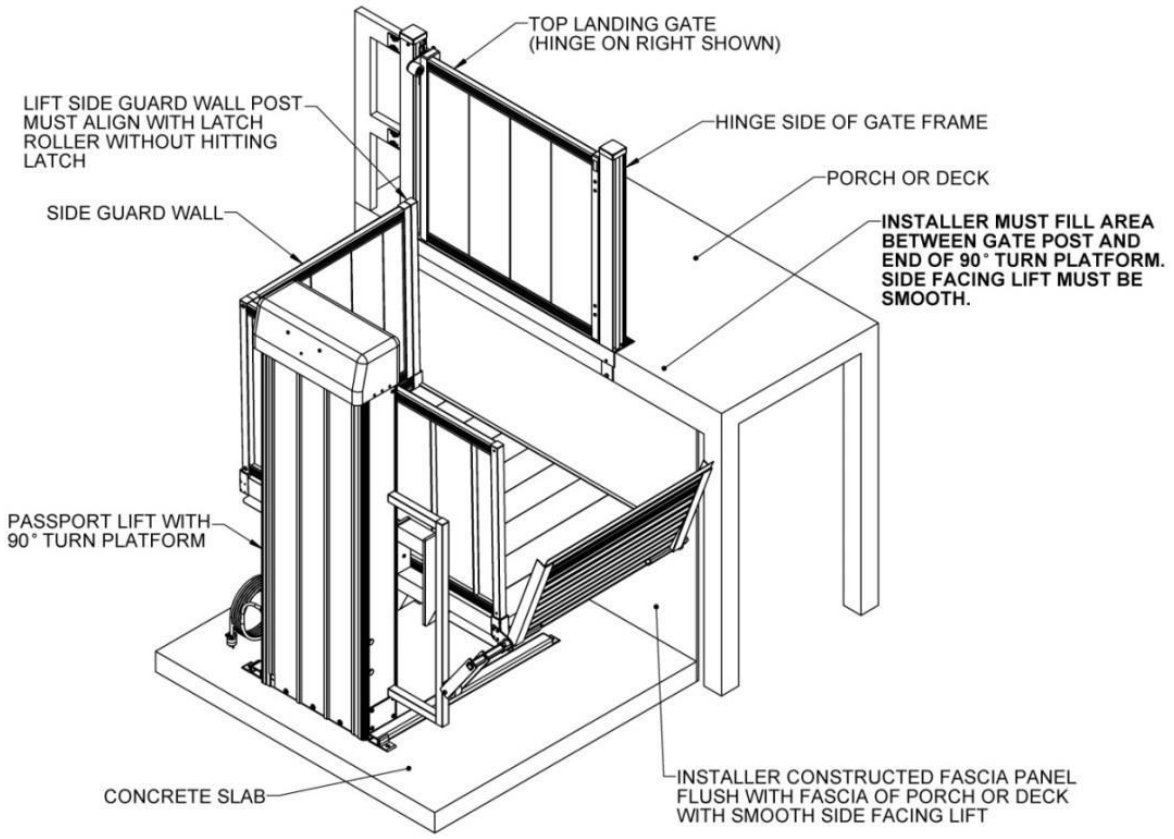
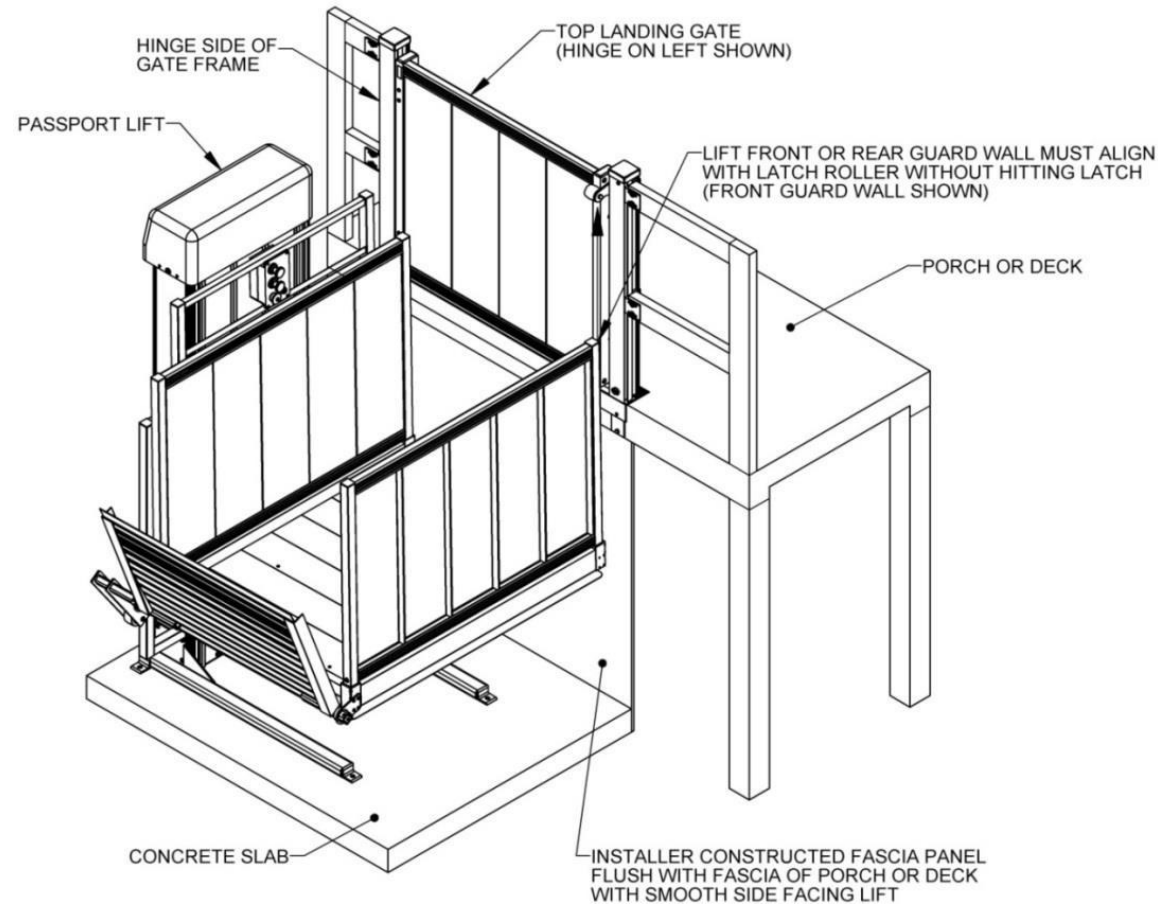

TOP LANDING GATE
(HINGE ON RIGHT SHOWN)
LIFT SIDE GUARD WALL POST MUST ALIGN WITH LATCH ROLLER WITHOUT HITTING LATCH
HINGE SIDE OF GATE FRAME
PORCH OR DECK
SIDE GUARD WALL
INSTALLER MUST FILL AREA BETWEEN GATE POST AND END OF 90° TURN PLATFORM. SIDE FACING LIFT MUST BE SMOOTH.
PASSPORT LIFT WITH 90° TURN PLATFORM
CONCRETE SLAB
INSTALLER CONSTRUCTED FASCIA PANEL FLUSH WITH FASCIA OF PORCH OR DECK WITH SMOOTH SIDE FACING LIFT

FIG. 9.2


HINGE SIDE OF GATE FRAME
TOP LANDING GATE
(HINGE ON LEFT SHOWN)
PASSPORT LIFT
LIFT FRONT OR REAR GUARD WALL MUST ALIGN WITH LATCH ROLLER WITHOUT HITTING LATCH (FRONT GUARD WALL SHOWN)
PORCH OR DECK
CONCRETE SLAB
INSTALLER CONSTRUCTED FASCIA PANEL FLUSH WITH FASCIA OF PORCH OR DECK WITH SMOOTH SIDE FACING LIFT

9.4.5. Complete the remaining steps in SECTION 5.

9.4.6. Place the top landing gate on the porch or deck and adjust its position side to side until the front or rear guard wall of the platform aligns with the latch roller on the top landing gate without hitting the latch (FIG. 9.3).

9.4.6.1. It is recommended that this be done with weight on the VPL platform approximately equal to the VPL user's weight since the platform has a built-in 1° angle which may affect the alignment.

9.4.7. Once the top landing gate is positioned correctly, attach to the porch or deck.

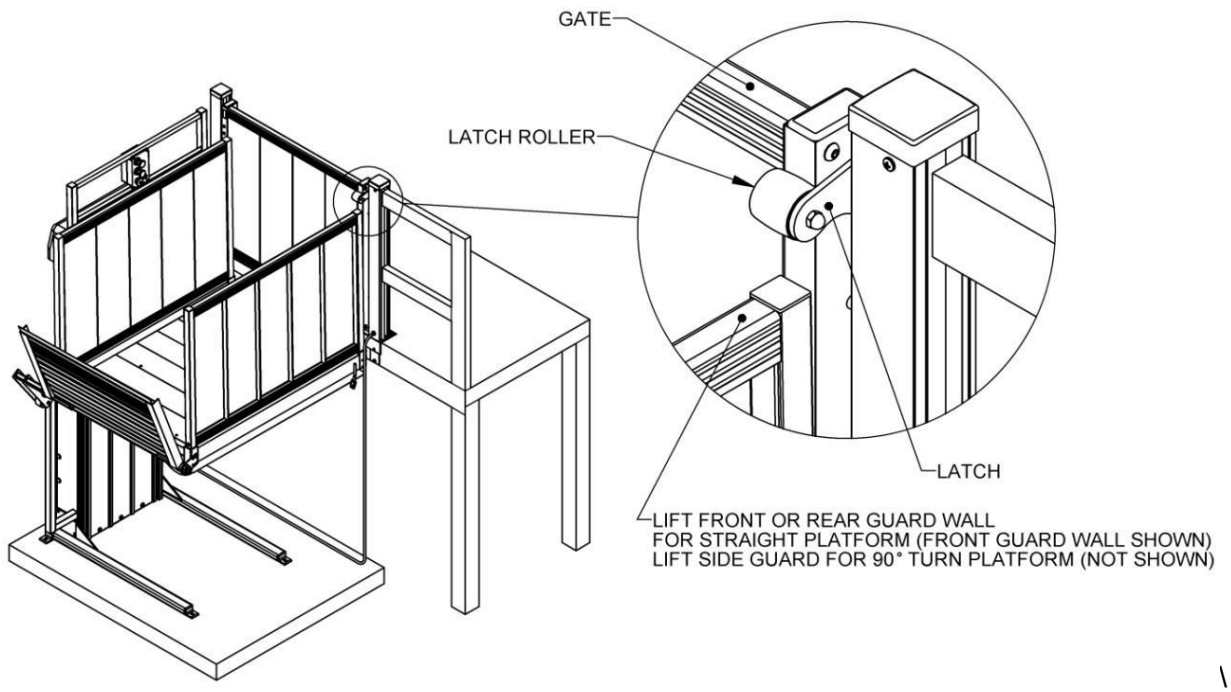


FIG. 9.3

9.4.8. The top landing gate comes with four 1/4” self-drilling screws for attaching the top landing gate sill to the deck surface and two 5/16”-18 x 4-1/2” long hex bolts for attaching the top landing gate sill to the deck fascia (FIG. 9.4).

9.4.9. Install four screws (two per side) and two bolts (one per side) as shown (FIG. 9.4).

9.4.9.1. If the top landing gate is being attached to a concrete porch or deck, these screws and bolts will need to be replaced with concrete anchors and alternate fasteners of the same size (not included).

⚠ Follow the concrete anchor and alternate fasteners manufacturer’s installation instructions.

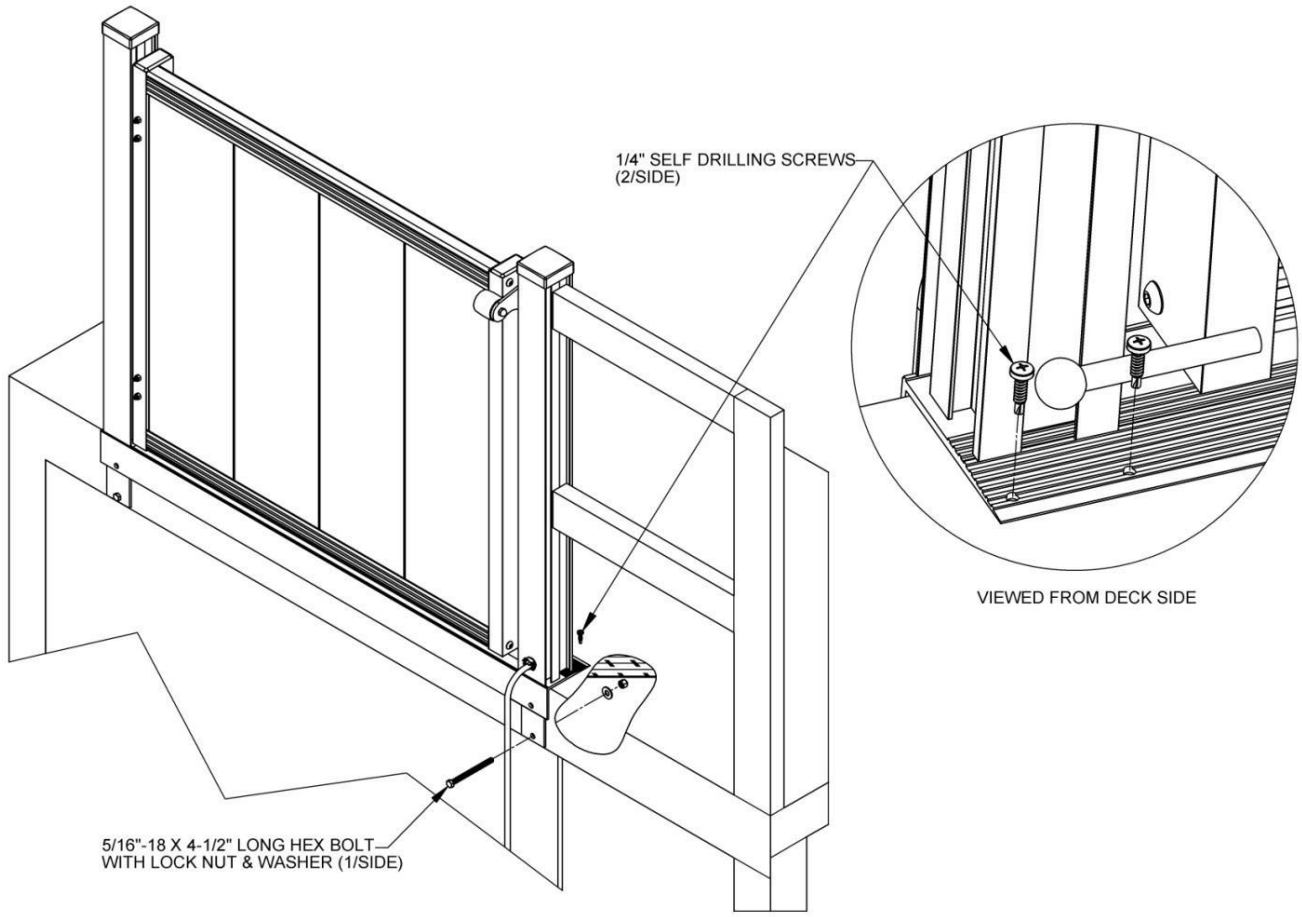


FIG. 9.4

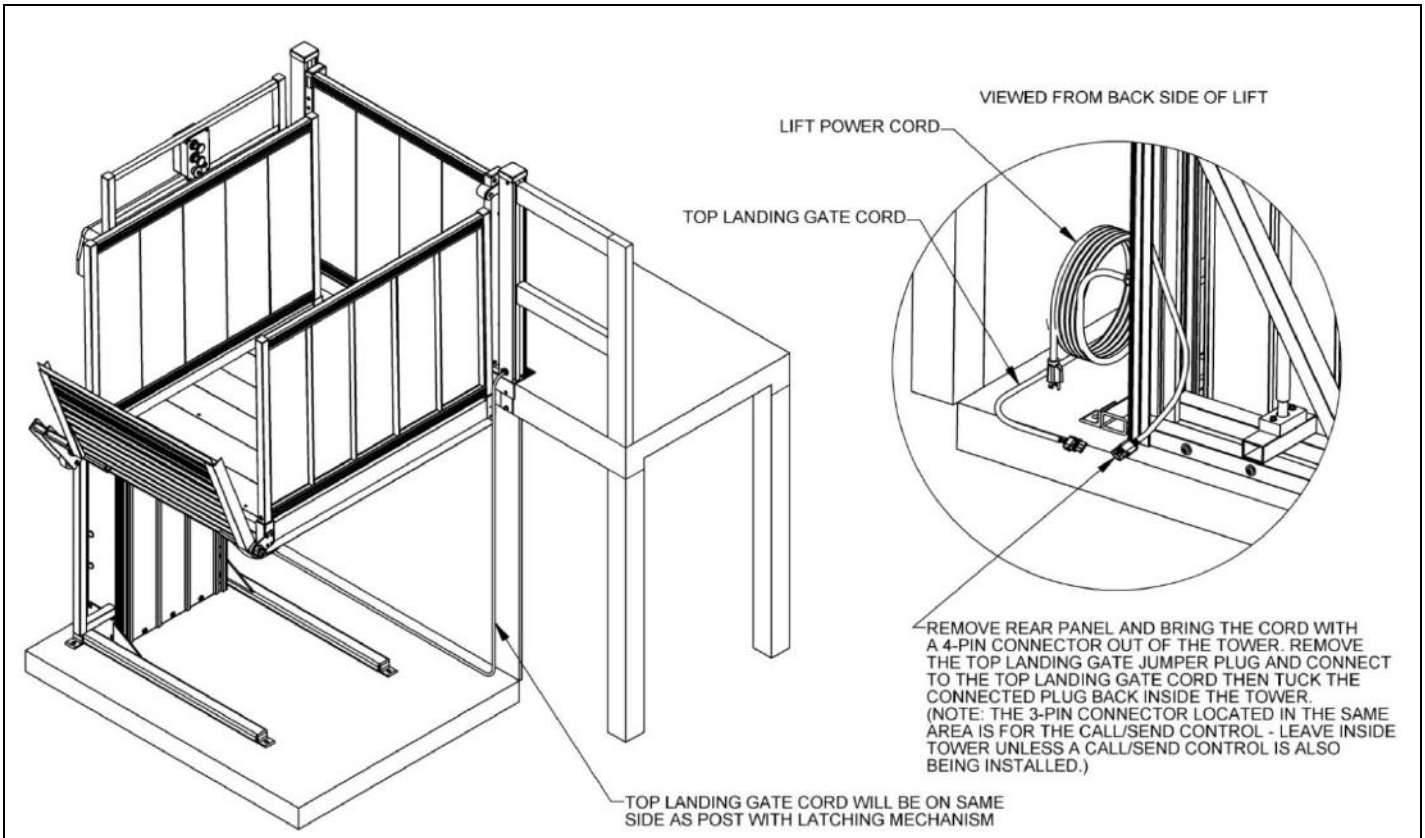


FIG. 9.5

9.4.10. Before connecting the top landing gate cord, the VPL platform must be set at the upper landing level. Proceed with Steps 7.9 through 7.18 in SECTION 7 if not already complete.

9.4.11. Connect the top landing gate cord to VPL by first removing rear cover. There will be a cord with a 4-pin connector inside the tower located in the area where the power cord exits the tower.

9.4.11.1. Bring the cord out of the tower and remove the top landing gate jumper plug from the connector. Connect the top landing gate cord and tuck the connected plug back inside the tower (FIG. 9.5).

- There is also a cord with a 3-pin connector in this area for connecting the call/send control. Leave this cord inside the tower unless installing a call/send control.

9.4.12. Re-install rear cover with the notch in the lower right corner (looking at the back of the VPL).

9.4.13. Secure the top landing gate cord to porch or deck in such a manner that it will not interfere with the VPL or top landing gate operation, nor pose a tripping hazard.

9.4.14. Run the VPL platform down, below the landing by approximately 12”.

9.4.15. Manually hold the top landing gate latch in the open position while simultaneously depressing the UP button on the control box. The VPL platform should not operate and the top landing gate indicator should be illuminated. Release the top landing gate latch. The top landing gate indicator light should go off and upward travel should now be possible.

9.4.16. Run the VPL several times through its entire travel limits. Make sure that the top landing gate is unlatched when the platform reaches the upper landing. If the VPL platform does not stop level with the upper landing, refer to SECTION 7 and adjust the upper limit accordingly.

9.4.17. Confirm the Top Landing Gate is latched when the platform travels in the downward direction, a maximum of 2” below the landing.

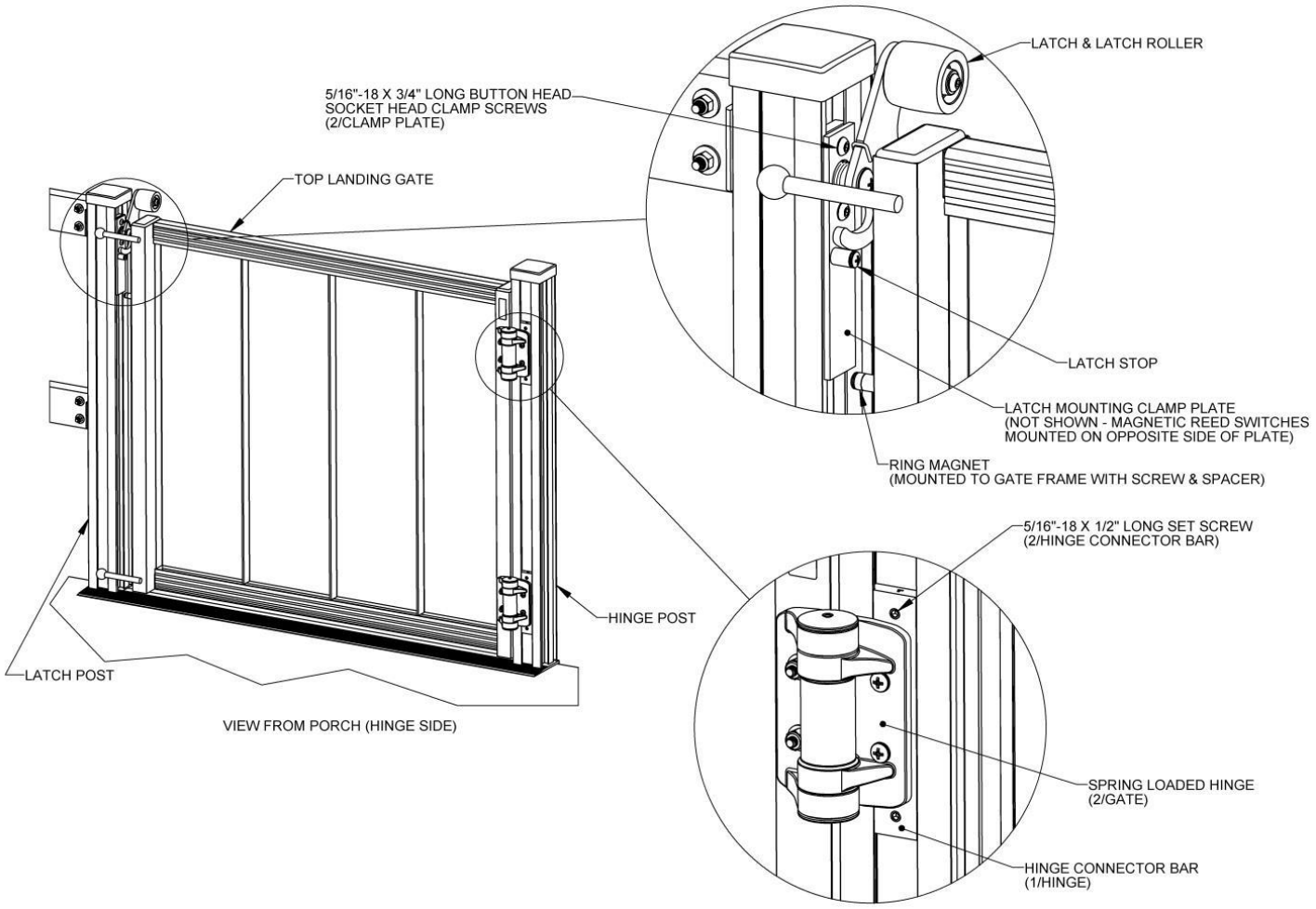


FIG. 9.6

9.4.18. The top landing gate will come preassembled with approximately a 1/2” gap between the bottom of the top landing gate frame and the sill. If needed, the top landing gate can be adjusted up or down to accommodate field conditions.

9.4.18.1. Loosen two 5/16”-18 x 1/2” set screws in each hinge connector bar enough that the top landing gate will move but do not remove completely (FIG. 9.6).

9.4.18.2. Move the top landing gate up or down to the desired location, and then re-tighten set screws securely. It may be necessary to manually open the latch and rotate it out of the way to move the top landing gate.

9.4.18.3. Loosen the two 5/16”-18 x 3/4” long button head socket clamp screws holding the latch mounting clamp plate just enough that the latch assembly will move but do not remove clamp screws completely. It may be necessary to manually rotate the latch out of the way to access the clamp screws.

9.4.18.4. Move the latch assembly up or down (the same distance the top landing gate was moved), and re-tighten the clamp screws securely. The ring magnet attached to the top landing gate frame should be just below the bottom of the latch mounting clamp plate after moving the latch assembly.

9.4.18.5. Repeat Steps 7.9 – 7.16 to ensure that the VPL platform stops at the correct level and that the latch latches/unlatches in the specified travel distance. It may be necessary to fine tune the height of the latch assembly to assure the magnets are activating the magnetic reed switches located on the latch mounting clamp plate “inside” the latch post.

9.5. TOP LANDING GATE LATCH COVER

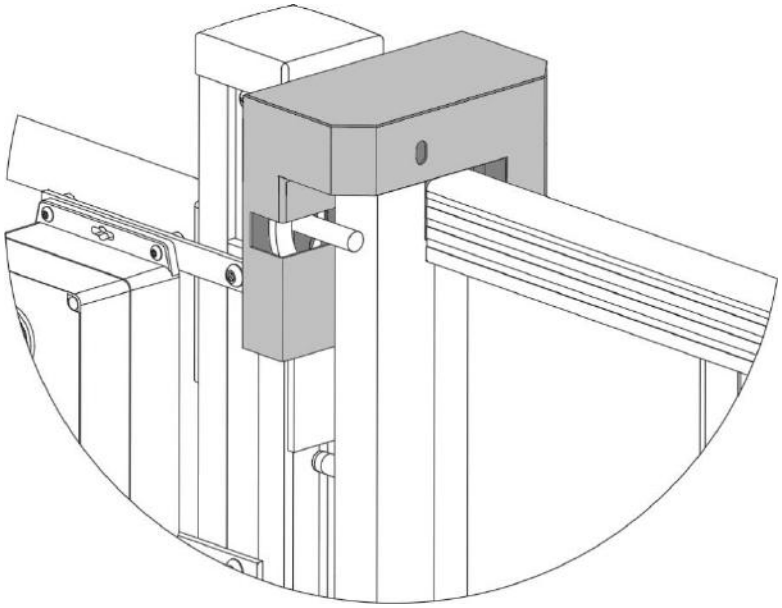
9.5.1. PRIOR TO INSTALLATION

9.5.1.1. The top landing gate latch cover (FIG. 9.6) is installed over the latch on the top landing gate ("gate"). Ensure that you have the properly handed (left or right) latch cover for the gate. Always test fit prior to beginning installation.

9.5.1.1.1. If the gate opens to the left as you exit the VPL platform, use a LEFT latch cover (FIG. 9.7).

9.5.1.1.2. If the gate opens to the right as you exit the VPL Platform, use a RIGHT latch cover (FIG. 9.8).

FIG. 9.6



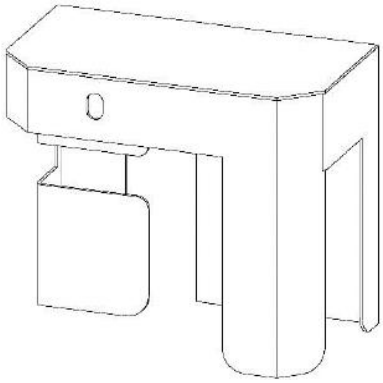


FIG. 9.7

LEFT OPENING

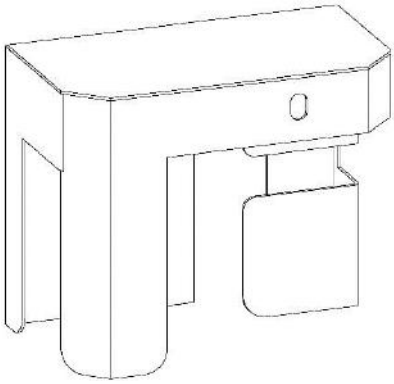


FIG. 9.8

RIGHT OPENING

9.5.2. MODIFYING TOP LANDING GATE

9.5.2.1. Remove plastic ball cap from upper strike rod and discard; you will not reuse it.

9.5.2.2. Mark the upper strike rod 1-3/8” from the outside of the gate (FIG. 9.9).

9.5.2.3. Verify that the upper strike rod will clear the latch cover and engage with the latch when cut at the mark.

9.5.2.3.1. Place the latch cover over the latch mechanism and flush with the gate post, referring to FIG. 9.12 for orientation.

9.5.2.4. Cut the upper strike rod.

9.5.2.5. Use a file to deburr all sharp edges.

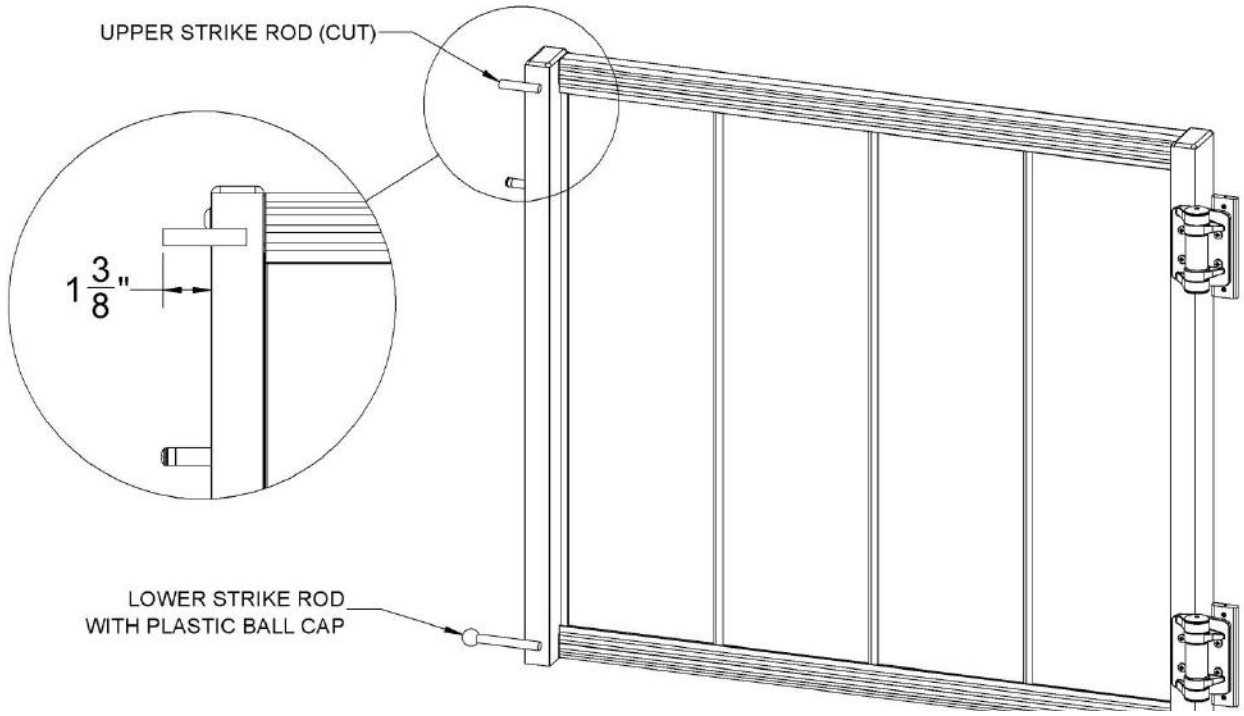


FIG. 9.9

(LEFT HANDED GATE SHOWN)

9.5.3. INSTALLATION OF GATE LATCH COVER

9.5.3.1. Remove gate post cap from latch post and set aside for later use (FIG. 9.10).

9.5.3.2. Attach mounting plate loosely to the back side of the latch cover with provided 5/16”-18 x 1/2” button head socket cap screw (FIG. 9.11).

9.5.3.2.1. Screw head can be accessed via the access hole (FIG. 9.12).

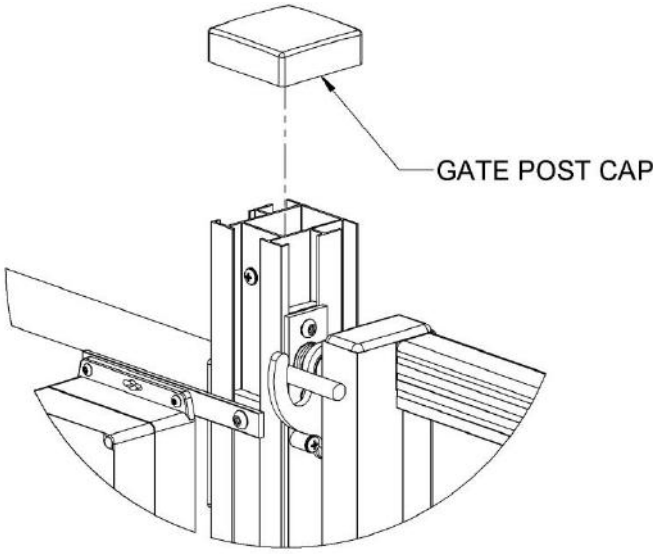


FIG. 9.10

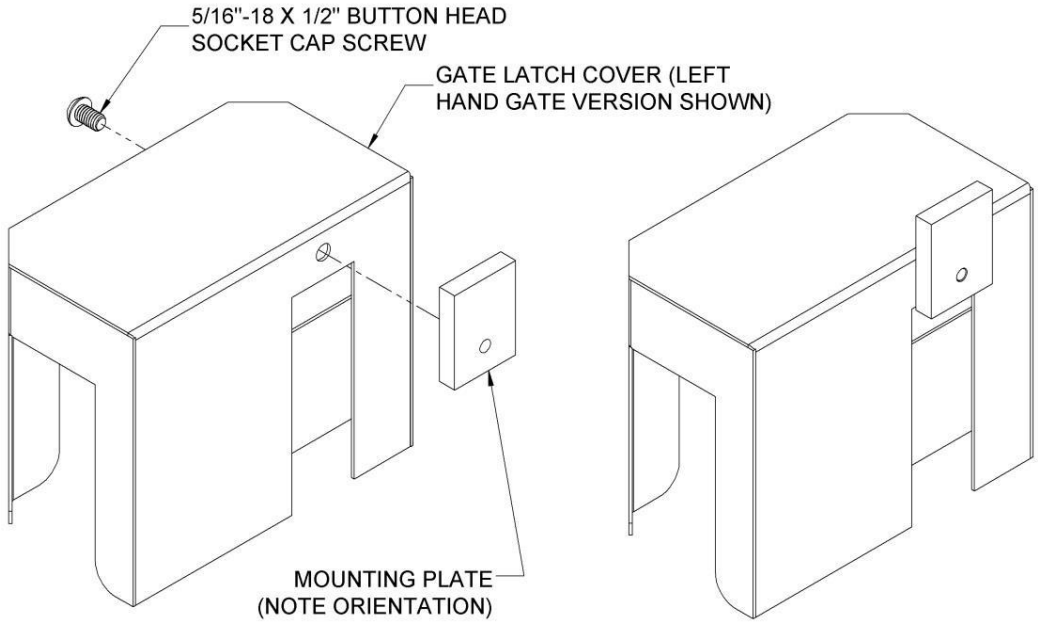


FIG. 9.11

9.5.3.3. Put latch cover assembly in place by sliding the mounting plate into the same post channel as the existing gate latch mechanism mounting plate (FIG. 9.12).

- The cut-out on the back of the cover fits around the latch mechanism clamp plate.
- Note the orientation of the mounting plate in post channel.

9.5.3.4. Secure latch cover by tightening the 5/16”-18 x ½” button head socket cap screw, accessed via the screw access hole, against the inside of the post channel (FIG. 9.12).

9.5.3.5. Place gate post cap back on latch post (FIG. 9.10).

9.5.3.6. Test the gate for proper functionality and adjust latch cover up or down if needed.

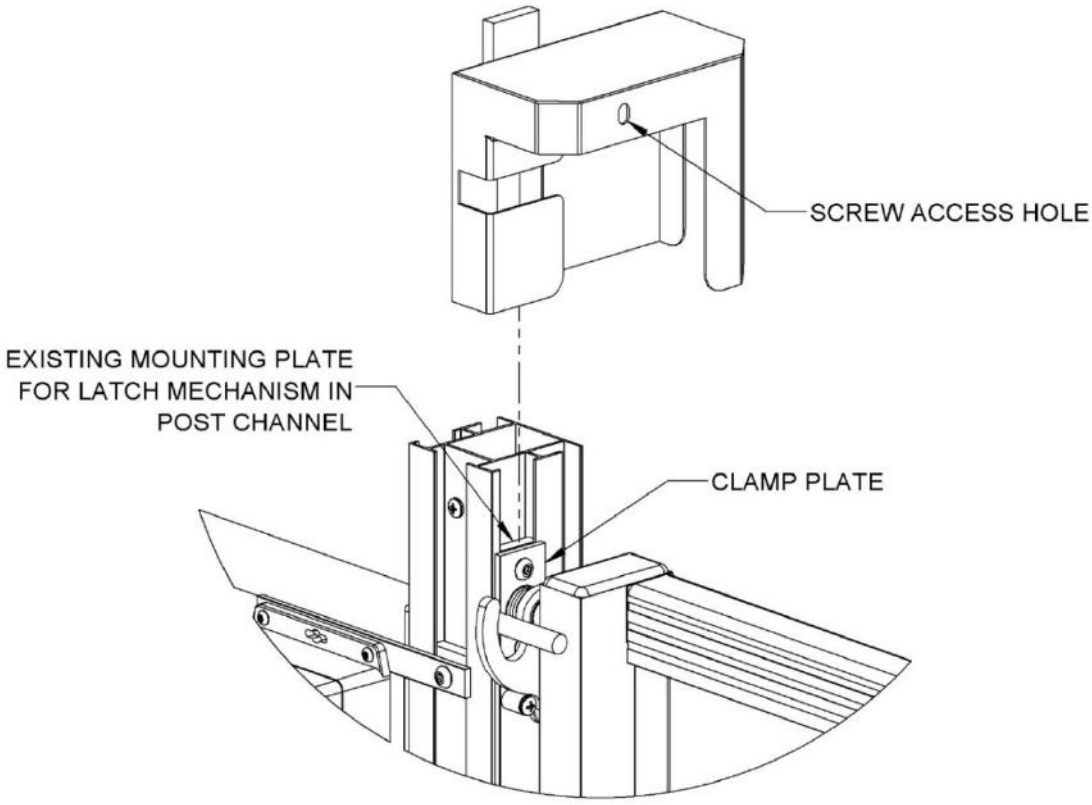


FIG. 9.12

10. OPTIONAL EQUIPMENT – TOP LANDING GATE CONNECTOR TO PATHWAY HANDRAIL

10.1. INTRODUCTION

10.1.1. Connector kits are designed to fill the space between the VPL's top landing gate ("gate") and a two-line platform handrail post on a PATHWAY® Modular Access System.

10.1.2. Connectors come in two styles: One for the PATHWAY® system and another for the PATHWAY® 3G system. Depending on which PATHWAY system you are connecting to, refer to the appropriate section below.

10.2. INSTALLATION TO PATHWAY

10.2.1. The connector kit (FIG. 10.1) includes two 1-1/2" diameter handrail tubes, two connector plates, two clamp plates, and attachment hardware (FIG. 10.1). If connecting both gate posts to platform handrail posts, use two kits.

- The 1-1/2" diameter handrail tubes are sized for larger (6') platforms and are typically cut to fit others.

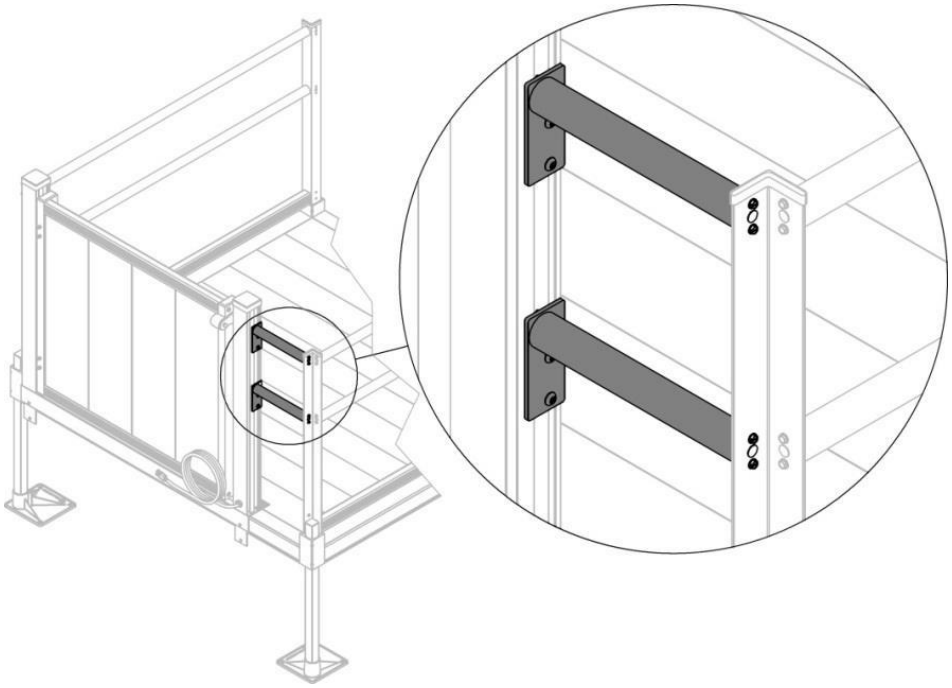
10.2.2. Install the PATHWAY platform (per PATHWAY instructions) in the desired location.

10.2.3. Do not install a handrail on the side of the platform where the gate will be installed.

10.2.4. A smooth fascia panel is required to fill the area underneath the gate, between the platform and the ground.

- It is the installer's responsibility to construct this fascia and confirm it meets applicable building codes.

FIG. 10.1



10.2.5. Place the gate on the platform and use the upper mounting holes in the gate sill as a template to drill 5/16” or 11/32” holes through the platform side rail (FIG. 10.2).

10.2.6. Install the two 5/16”-18 x 4-1/2” long hex bolts through the sill and the platform side rail, then secure with lock nuts and washers (FIG. 10.2).

10.2.7. Install four 1/4” self-drilling screws through sill and into platform walking surface (FIG. 10.2).

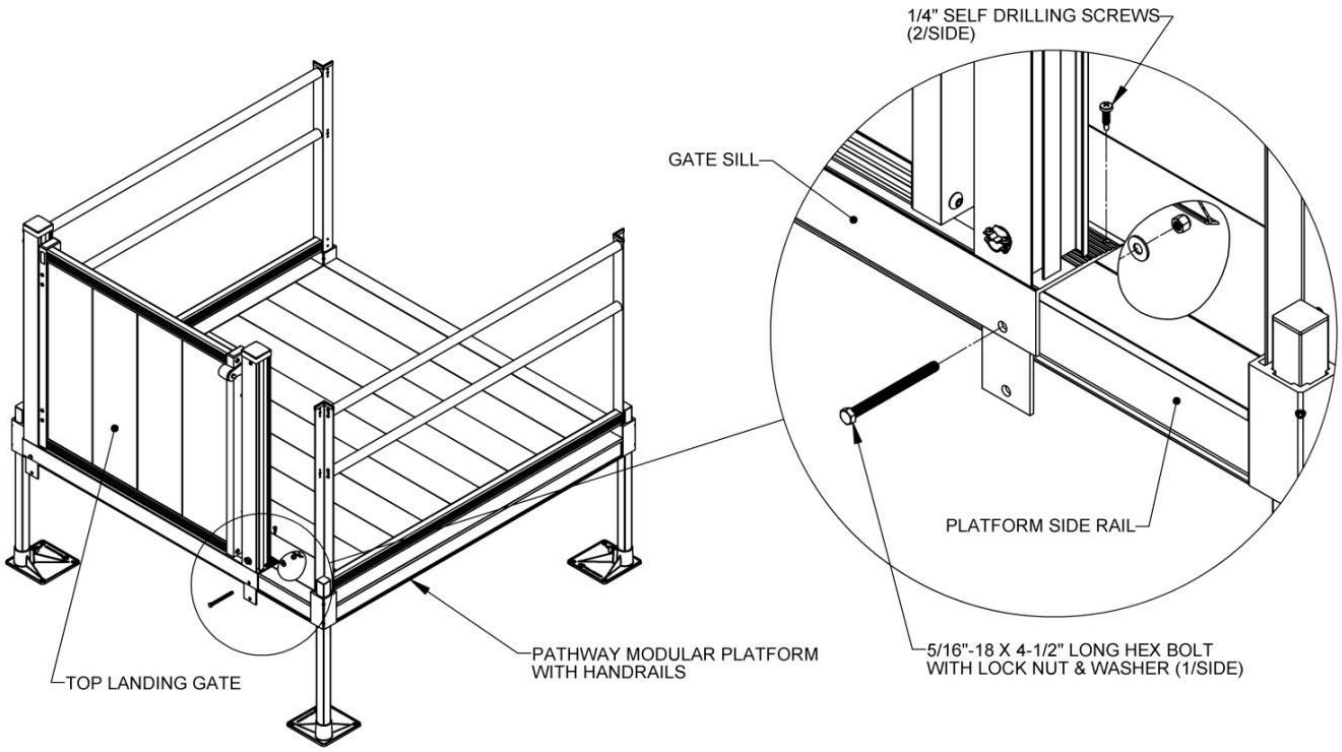


FIG. 10.2

10.2.8. Remove post cap (FIG. 10.3) from gate post where the connector will be installed.

10.2.9. Attach one of the handrail tubes to a connector plate using two #10 x 1” long self-tapping hex washer head screws.

10.2.10. Hold the connector plate with handrail tube against the outside of the gate post where it will be attached and mark handrail tube at the location flush with platform handrail post.

10.2.11. Cut both handrail tubes to the length determined in the previous step.

10.2.12. If they were disassembled for cutting, reassemble the connector plate to the handrail tube and assemble the clamp plate to the connector plate using two 5/16”-18 x 3/4” long button head socket clamp screws through the larger holes in the connector plate and into the tapped holes in the clamp plate.

10.2.12.1. Do not tighten fully at this time.

10.2.13. Orient the connector plate as shown (FIG.10.3) with the clamp plate below the handrail tube and toward the platform side of the gate post.

10.2.14. Slide the assembly into the back channel in the gate post closest to the platform post where it will connect with the clamp plate inside the channel and the connector plate on the outside of the post. Slide down until the screw splines in the handrail tube align with the lower handrail holes in the platform post.

- If the screw splines do not align vertically when appearing to align horizontally, the connector plate is most likely assembled in the wrong orientation. Disassemble the connector plate and clamp plate and flip the connector plate, keeping the holes for the clamp plate below the handrail tube, and then reassemble.

10.2.15. Once the screw splines are aligned correctly, use two #10 x 1” long self-tapping hex washer head screws through the platform post to attach the open end of the handrail tube to the platform post and tighten the 5/16”-18 x 3/4” long button head socket clamp screws securely.

10.2.16. Repeat the procedure for the upper handrail tube.

10.2.17. Reinstall the post cap and insert the 3/8” push in plugs in the open holes between the hex washer head screws in the platform post (FIG. 10.3).

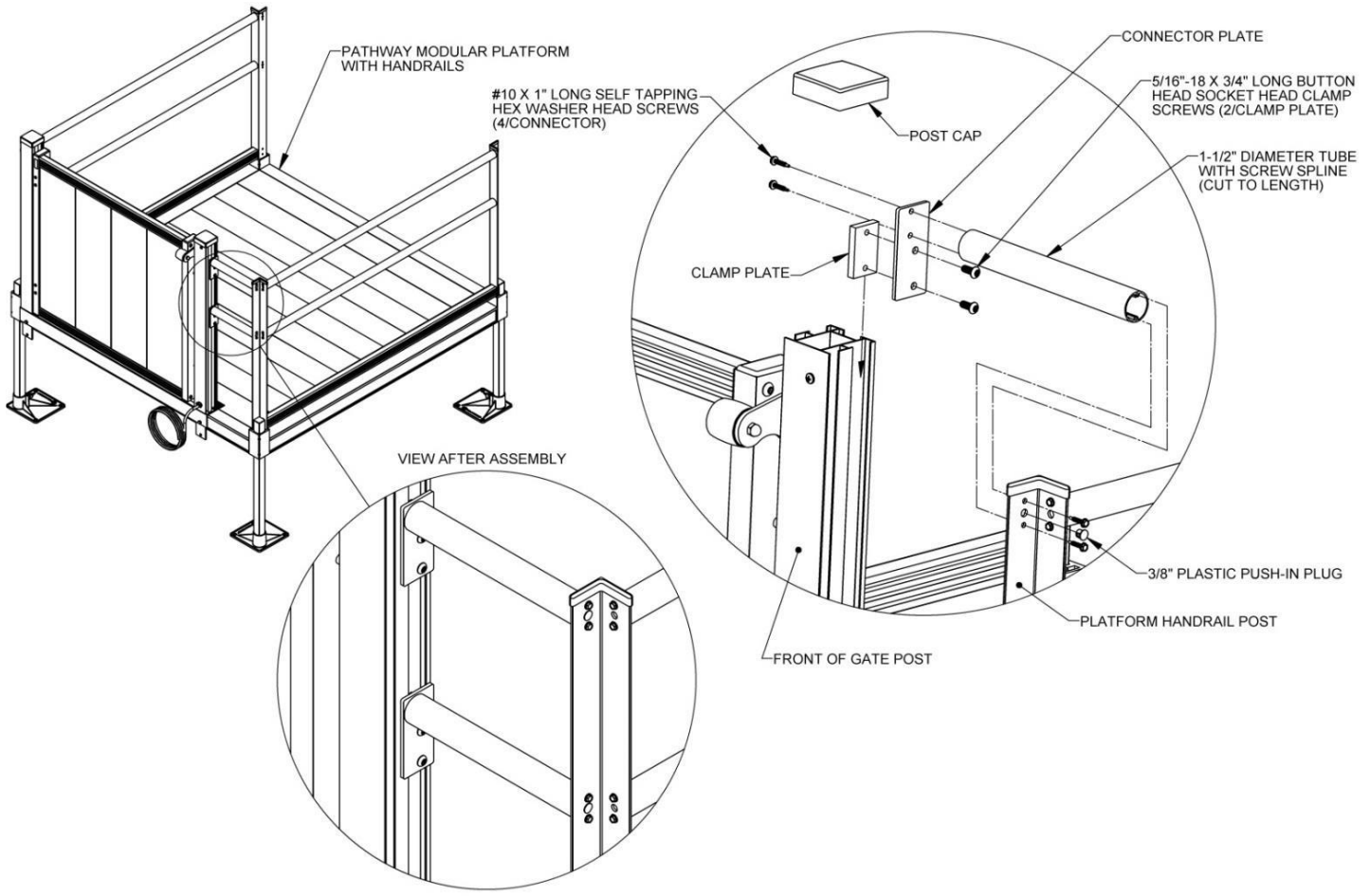


FIG. 10.3

10.3. INSTALLATION TO PATHWAY® 3G

10.3.1. The PATHWAY® 3G connector kit, also known as a closure kit, includes two 1-1/2” diameter handrail tubes, two connector plates, two clamp plates, two 5/16”-18 threaded round tube inserts, and attachment hardware (FIG. 10.4). If connecting both gate posts to platform handrail posts, use two kits.

- ✋ The 1-1/2” diameter handrail tubes are sized for larger (6’) platforms and are typically cut to fit others.

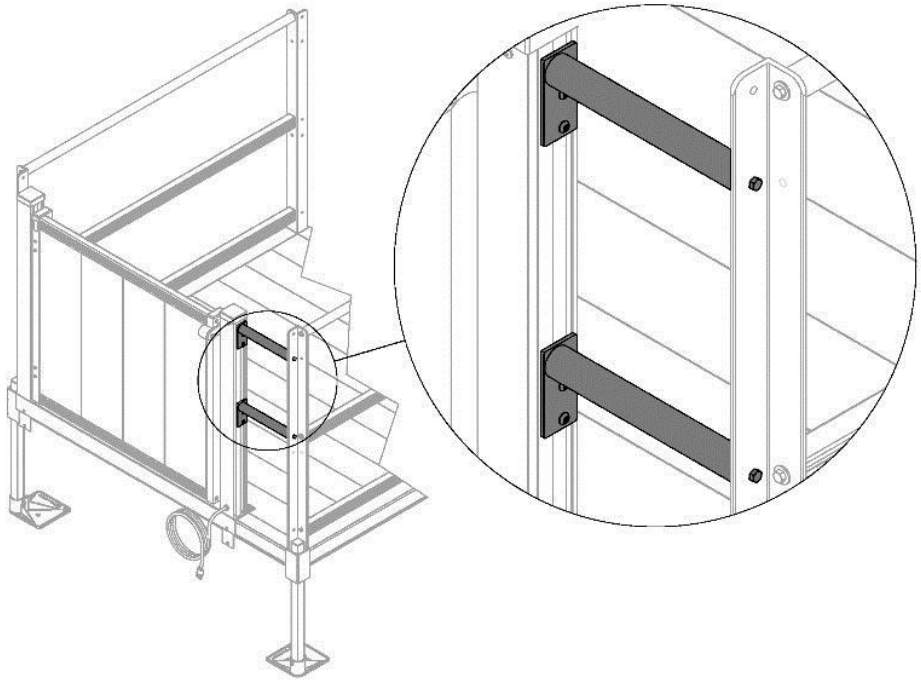
10.3.2. Install the PATHWAY platform (per PATHWAY instructions) in the desired location.

10.3.2.1. Do not install a handrail on the side of the platform where the gate will be installed.

10.3.3. A smooth fascia panel is required to fill the area underneath the gate, between the platform and the ground.

- ⚠ It is the installer’s responsibility to construct this fascia and confirm it meets applicable building codes.

FIG. 10.4



10.3.4. Install Top Landing Gate per instructions in SECTION 9.

10.3.5. Assemble one of the handrail tubes to a connector plate using two #10 x 1” long self-tapping hex washer head screws.

10.3.6. Hold the connector plate with handrail tube against the outside of the gate post where it will be attached and mark the handrail tube at the location flush with the platform handrail post.

10.3.6.1. Subtract the thickness of the 5/16”-18 threaded round tube insert.

10.3.6.2. Mark the tube for cutting.

10.3.7. Cut both tubes to the length determined in the previous steps.

10.3.8. If they were disassembled for cutting, reassemble the connector plate to the handrail tube and assemble the clamp plate to the connector plate using two 5/16”-18 x 3/4” long button head socket clamp screws through the larger holes in the connector plate and into the tapped holes in the clamp plate.

10.3.8.1. Do not tighten fully at this time.

10.3.9. Tap a 5/16”-18 threaded round tube insert into the end of the 1-1/2” diameter tube, opposite the end you installed the connector plate on (FIG. 10.5).

10.3.10. Orient the connector plate as shown (FIG. 10.5) with the clamp plate below the handrail tube and toward the platform side of the gate post.

10.3.11. Slide the assembly into the back channel in the gate post closest to the platform post where it will connect with the clamp plate inside the channel and the connector plate on the outside of the post. Slide down until the 5/15”-18 threaded hole of the round tube insert aligns with the hole in the platform rail post (FIG. 10.5) and insert a 5/16”-18 hex head bolt thorough the platform angle post and threading it into the threaded hole of the round tube insert.

10.3.11.1. Do not tighten fully at this time.

10.3.12. Repeat the procedure for the remaining handrail tubes.

10.3.13. Tighten all hardware.

10.3.14. Reinstall the post cap and insert the 3/8” push in plugs (if equipped) in the open holes between the hex washer head screws in the platform post (FIG. 10.5).

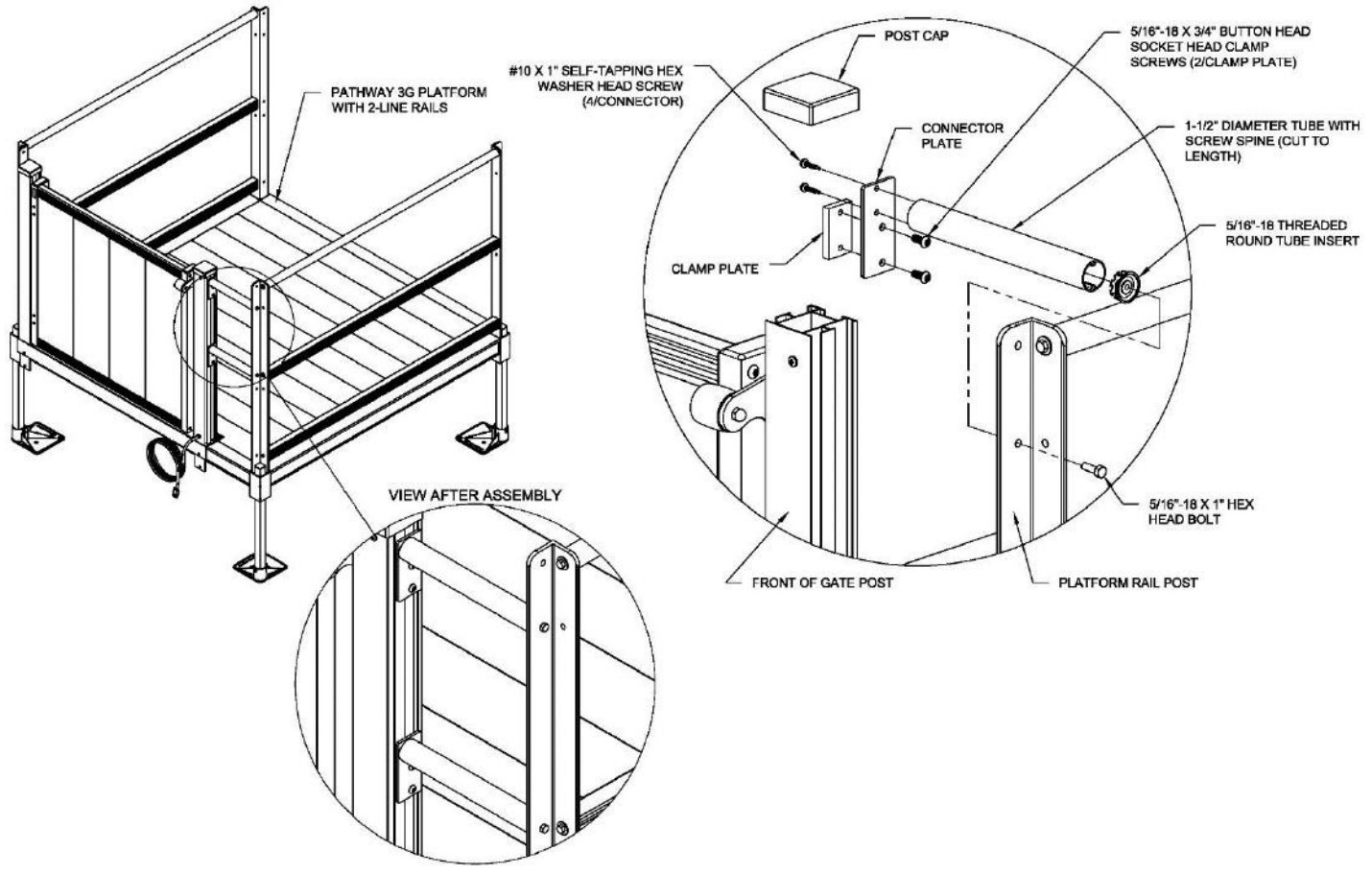


FIG. 10.5

11. OPTIONAL EQUIPMENT – TOP LANDING GATE CONNECTOR TO WOOD DECK

11.1. OVERVIEW

11.1.1. This option is used to tie the top landing gate post to handrails or posts on an existing wood porch or deck. Each connector includes two clamp plates, two angle connectors, and attachment hardware (FIG. 11.1).

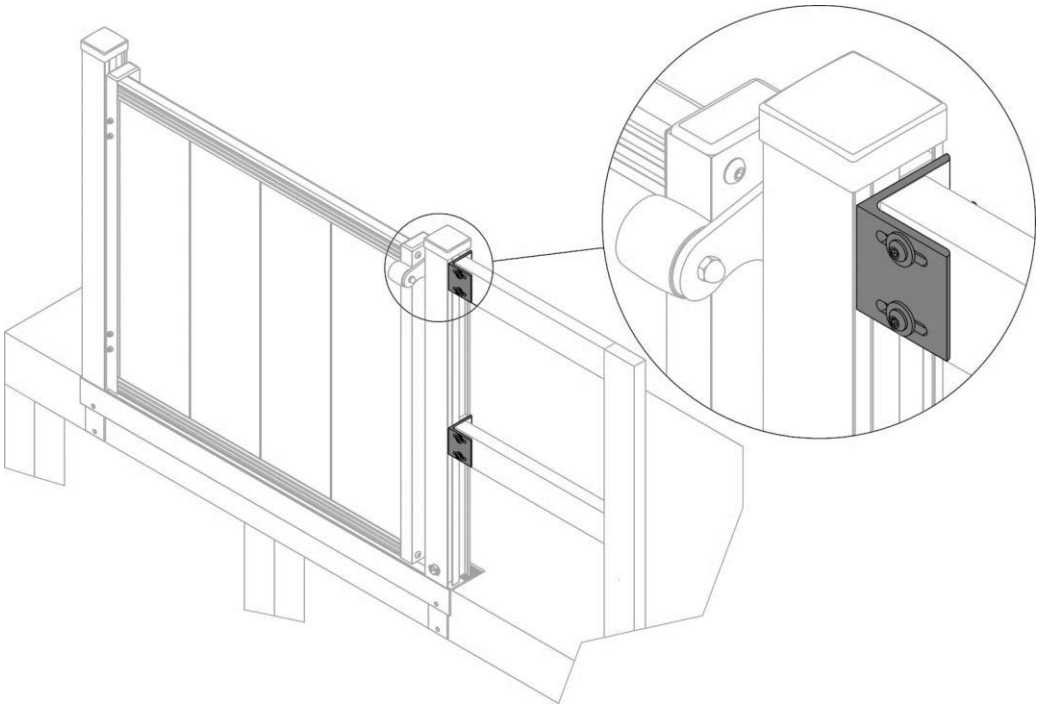


FIG. 11.1

11.1.2. Insert two 5/16”-18 x 3/4” long button head socket clamp screws through the slots in one leg of the angle connector and into the tapped holes in the clamp plate (FIG. 11.2).
- Do not fully tighten fully at this time.
- FIG. 11.2 shows one of many possible orientations of the angle connector. The slots in the connector allow versatility but may not be appropriate in every situation.

11.1.3. Remove the post cap and slide the clamp plate into the one of the three channels in the “back” side of the top landing gate post closest to the rail or post where the connection will be made. The angle connector should be on the outside of the post.

11.1.4. Slide assembly down until slots in the other leg of the angle connector are positioned where they will be attached to the existing rail or post. Use the slots as a guide to mark where holes in the existing rail or post will be drilled. Slide the assembly out of the way and drill 5/16” or 11/32” holes through the existing rail or post in the marked locations.

11.1.5. Reposition the connector assembly to align the slots in the angle connector with the holes drilled in the previous step then tighten the clamp screws securely. This should clamp the post wall between the clamp plate and the angle connector holding the connector assembly in place.

11.1.6. Install two 5/16”-18 x 2-1/2” long fully threaded button head socket cap screws through the slots in angle connector and drilled holes. Secure with lock nut and washer (FIG. 11.2).

11.1.7. Tighten all loose hardware.
- If desired, cap screws can be replaced with lag screws (not included) when attaching to wood.

11.1.8. Repeat previous steps as needed with additional connectors.

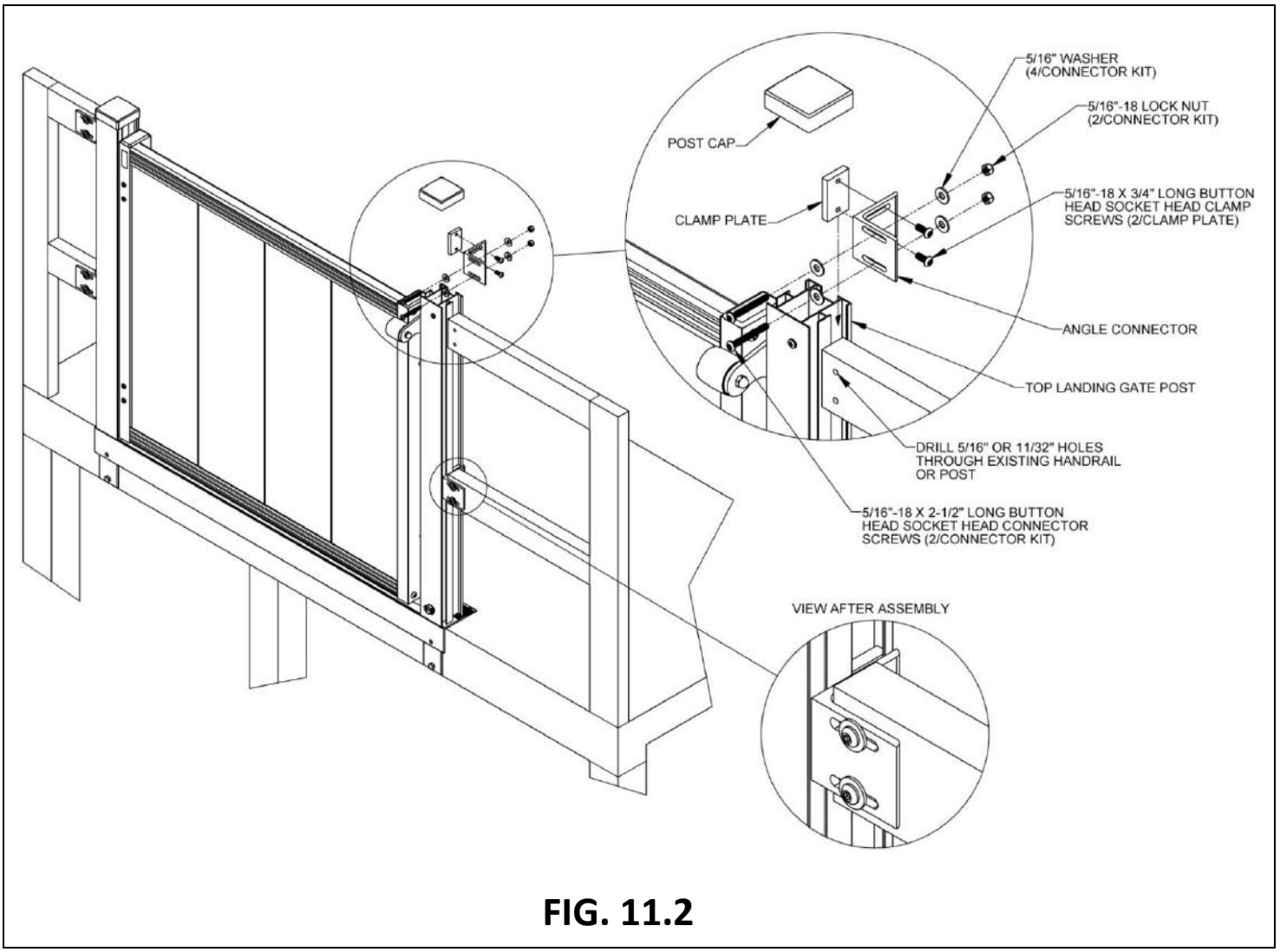


FIG. 11.2

12. OPTIONAL EQUIPMENT – PLATFORM SAFETY RAIL

12.1. OVERVIEW

12.1.1. The platform safety rail (FIG. 12.1) is designed exclusively for the purpose of providing additional personal stability while standing on the VPL.

- ⚠ The platform safety rail is required for anyone who will be standing on the VPL.
- ⚠ Do not install the platform safety rail on the outside of the platform guard walls; install only on the inside of the front or rear guard walls.
  - ✋ The "inside" is the platform side of the guard walls, not outside the platform.

12.2. BEFORE YOU BEGIN

12.2.1. When used with a straight platform, the platform safety rail can be installed on the inside of either the front guard wall (FIG. 12.1) or rear guard wall (FIG. 12.2).

12.2.1.1. Determine which location will be more convenient for the intended occupant's particular situation.

12.2.2. When used with a turn platform, the platform safety rail can only be installed on the inside of the rear guard wall.

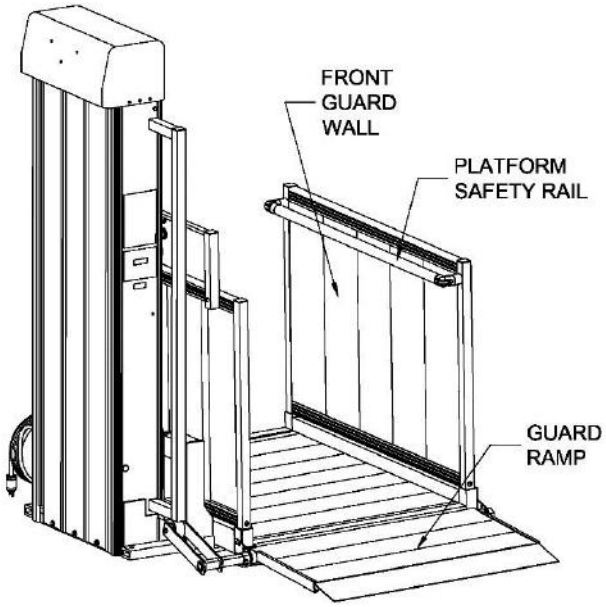


FIG. 12.1

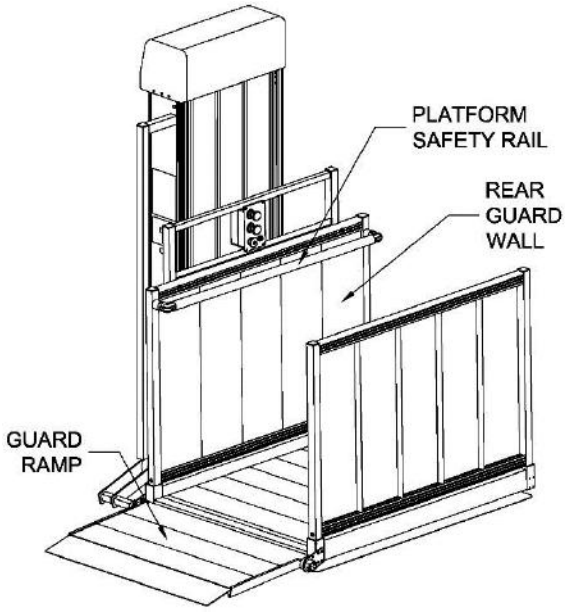


FIG. 12.2

12.3. INSTALLATION

12.3.1. STRAIGHT PLATFORM

12.3.1.1. Measure 3/4” in from the end of one guard wall post and make a mark. Next, measure 2-1/2” down from the top of the guard wall post (excluding the plug) and mark. Find the location where the two marks cross. Mark a location on the other guard wall post 2-1/2” down from the top of the guard wall post (excluding plug) and 48-5/8” away from where the two marks cross on the opposite post.

12.3.1.2. Drill 3/8” diameter holes through both posts at the marked locations (FIG. 12.3).

12.3.2. TURN PLATFORM

12.3.2.1. Measure 5-3/16” in from the end of one rear guard wall post and make a mark on the rear guard top rail. Next, measure 1” down from the top of the rear guard wall top rail and mark. Find the location where the two marks cross. Mark a location on the other end of the rear guard wall top rail 1” down from the top and 48-5/8” away from where the two marks cross on the opposite side.

12.3.2.2. Drill 3/8” diameter holes through the rear guard wall top rail at the marked locations (FIG. 12.4).

FIG. 12.3

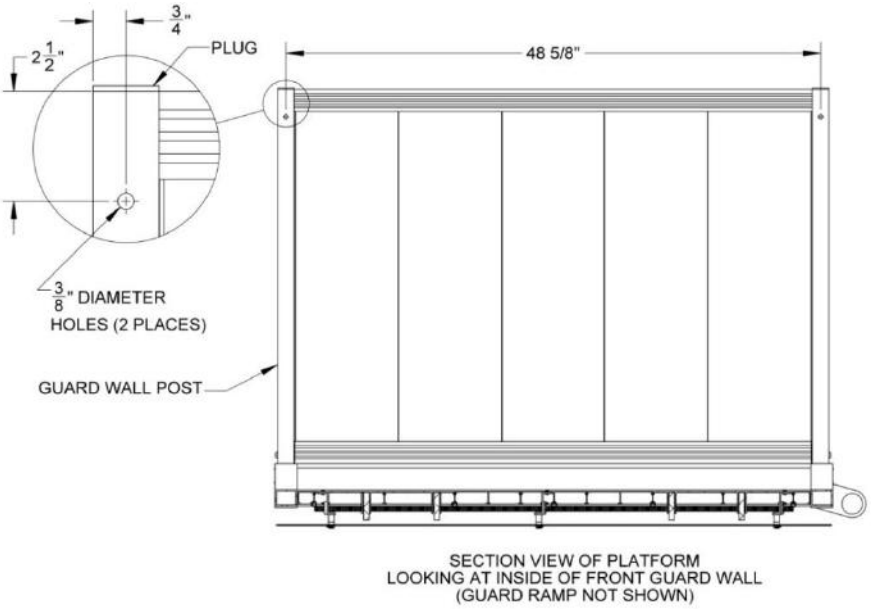
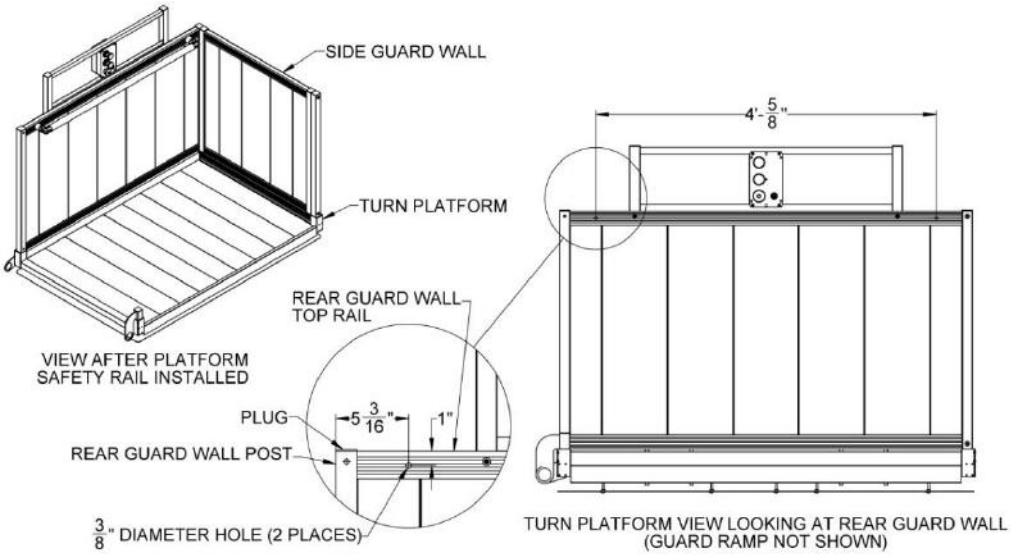


FIG. 12.4

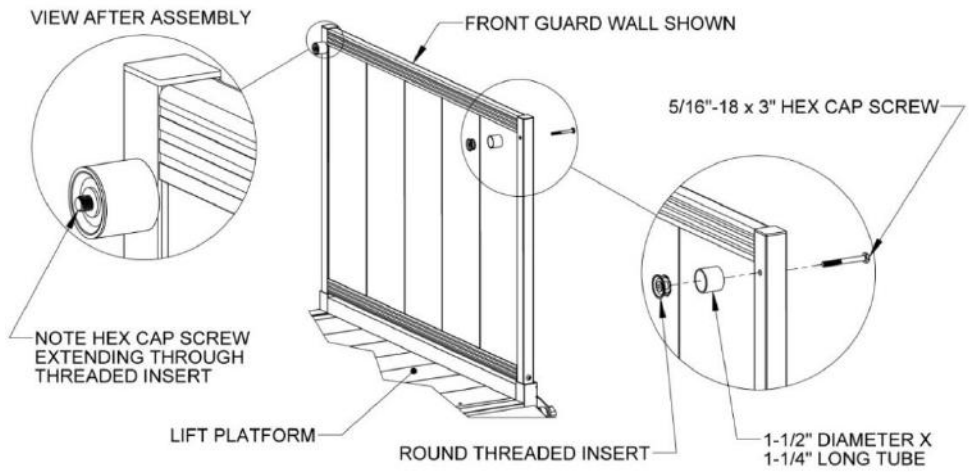


12.3.3. Install a round threaded insert into one end of each 1-1/2” diameter x 1-1/4” long tube (FIG. 12.5). Use a rubber mallet to fully seat the threaded inserts into tubes.

12.3.4. Hold one 1-1/2” diameter x 1-1/4” long tube with the threaded insert to the inside of the guard wall (tube will be oriented toward the guard wall post or top rail and the insert will be oriented toward the other side of the platform). Install a 5/16”-18 x 3” long hex cap screw through hole previously drilled and into threaded insert (FIG. 12.5). Tighten securely.

12.3.5. FIG. 12.5 shows the correct orientation. Repeat for the other guard wall post or top rail.

FIG. 12.5



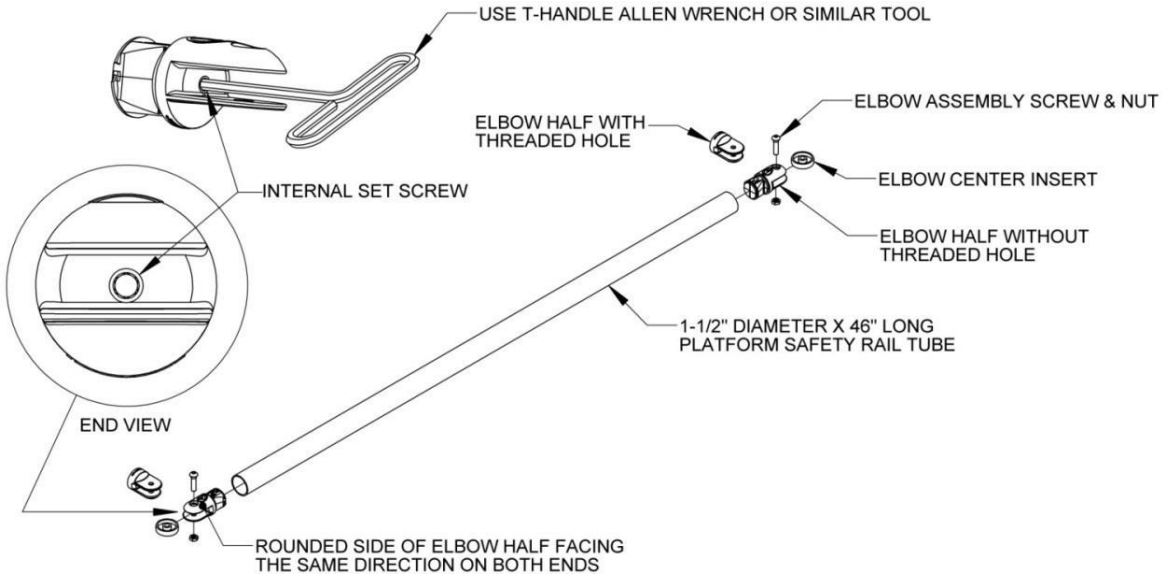
12.3.6. Locate closure elbows and disassemble by removing screws and nuts (FIG. 12.6).

12.3.6.1. Install elbow halves without the threaded holes into both ends of the 1-1/2” diameter x 46” long platform safety rail tube (FIG. 12.6).

12.3.6.2. Ensure rounded side of the elbow halves are facing the same direction in both ends, and then tighten internal set screws with an Allen wrench or similar tool (FIG 12.6).

12.3.6.3. Install elbow halves with threaded holes onto the portion of the 5/16”-18 x 3” long hex cap screw which extends past the threaded inserts (FIG. 12.6). Tighten securely.

FIG. 12.6



12.3.6.4. After tightening, the rounded side of the elbow halves should be on the bottom facing the platform.

- It may be necessary to loosen the hex cap screws holding the round tubes with threaded inserts and rotate in one direction or the other. Re-tighten to get the elbows to end up in the correct orientation when fully secured (FIG. 12.7).

12.3.6.5. Assemble the 1-1/2” diameter x 46” long platform safety rail tube to the guard wall by reassembling the elbows. Align the holes in the elbow halves and replace the center insert then insert the elbow assembly screw through all the components on one side. Repeat on the opposite side.

12.3.6.6. Place elbow assembly nuts on the screws and tighten securely (FIG. 12.8).

12.3.6.7. Ensure the platform safety rail is properly attached and secured. Tighten internal set screws, elbow assembly screws, and 5/16”-18 x 3” long hex cap screws.

FIG. 12.7

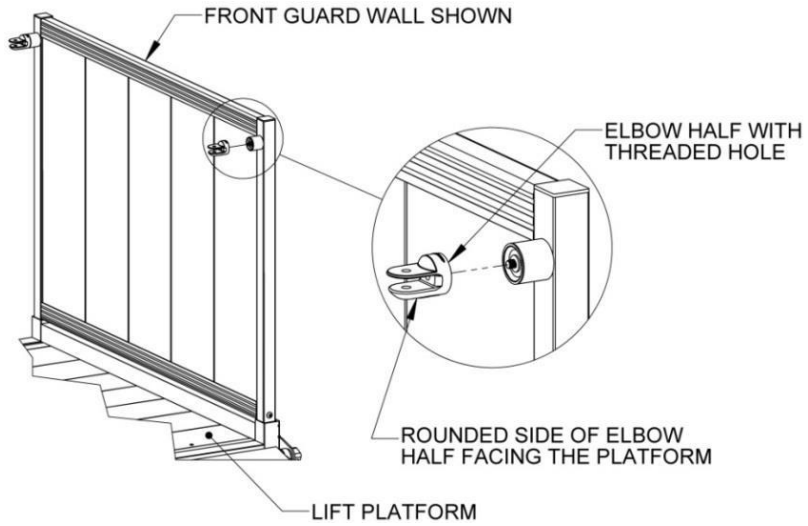
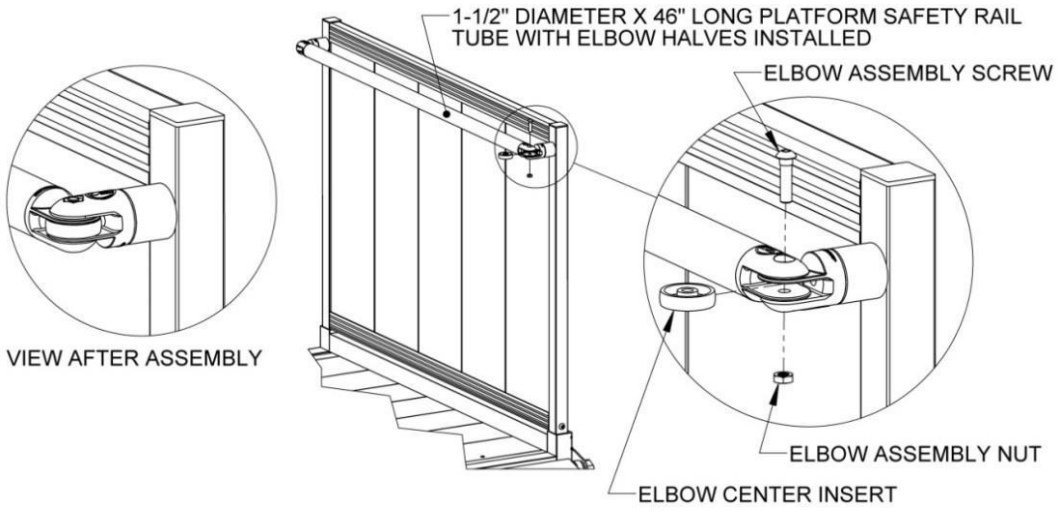


FIG. 12.8



13. OPTIONAL EQUIPMENT – PLATFORM SAFETY PAN WEATHER GUARD

13.1. The platform safety pan weather guard ("weather guard") installs by clipping it onto the safety pan (FIG. 13.1).

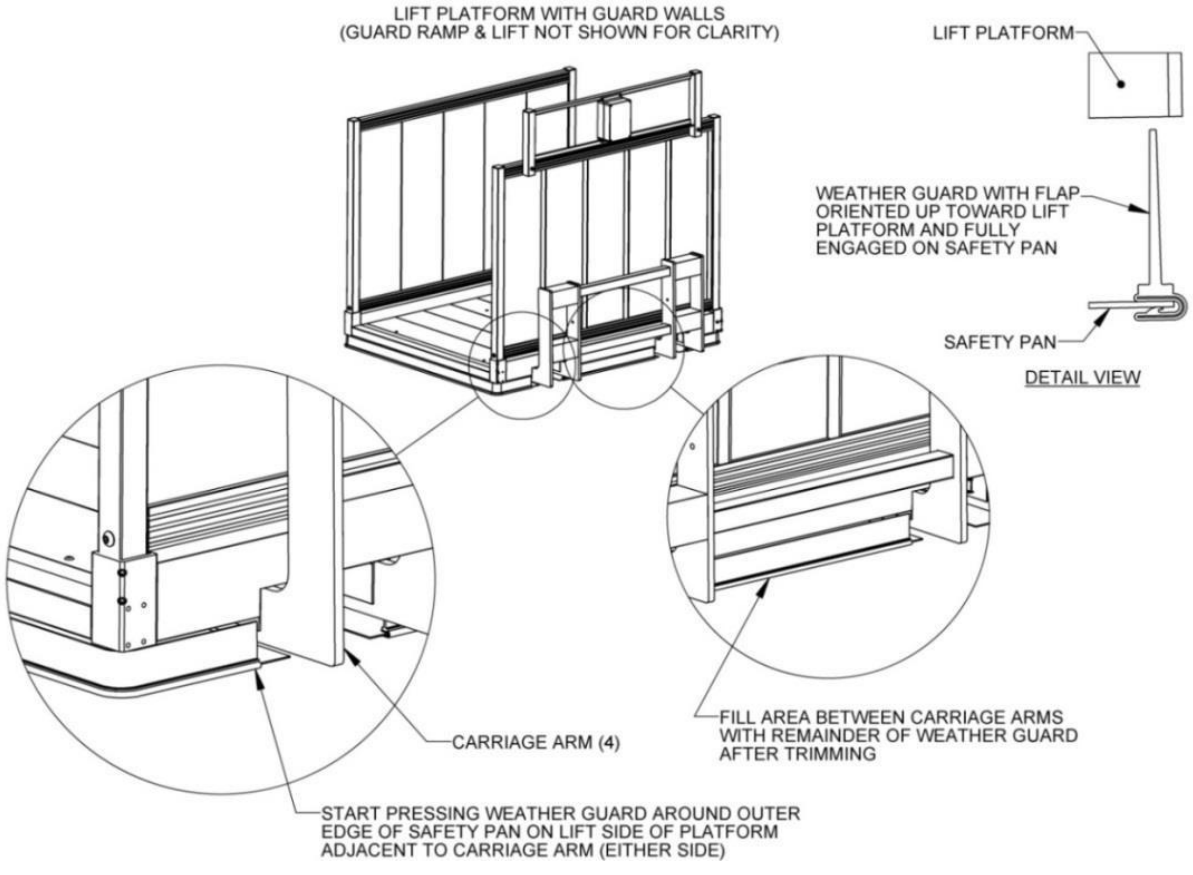
13.2. Begin at the rear (closest to lift) and adjacent to one of the outer carriage arms (FIG. 13.2). Orient the weather guard with the flap pointing up toward the platform and firmly press onto the outer edge of the safety pan until fully engaged (FIG. 13.2). If not fully engaged, the weather guard may not hold on the safety pan.

13.3. Continue pressing and forming the weather guard around the edge of the safety pan until it reaches the carriage arm on the opposite side. Trim off excess and retain (if needed, use trimming to fill the area between the two inner carriage arms).

13.4. Run the lift up and down a few times to confirm that the weather guard is not interfering with the operation of the safety pan or contacting the legs.

FIG. 13.1

FIG. 13.2



14. OPTIONAL EQUIPMENT – INTERLOCK

14.1. BEFORE YOU BEGIN

14.1.1. Read this section in its entirety before beginning the installation process.

14.1.2. For interlock installation, see the Porta Electric Door Lock (6-position) Installation Instructions, which came with your Porta Electric Door Lock.

14.1.3. The interlock is handed, either left or right, depending on the model ordered. Before installation, ensure that you have the correct version. When looking at the door from the VPL platform, refer to FIG 14.1 and FIG. 14.2 to determine interlock handing.

- ⚠ With interlock use, the door must swing away from VPL, regardless of hinge location.
- ⚠ VPLs altered to operate with an interlock will not operate correctly if connected to a top landing gate. The wiring must be returned to its original wiring scheme (pre-interlock alteration) to work with the top landing gate.

14.1.4. Interlock kit contents are shown in FIG. 14.3 and FIG. 14.4.

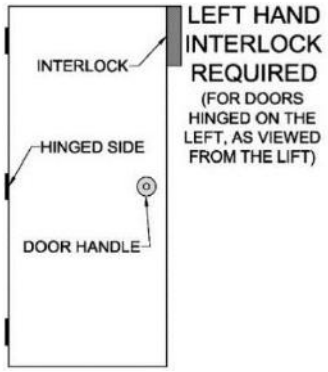


FIG. 14.1

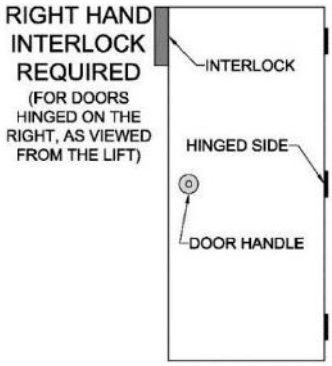


FIG. 14.2

ITEM #	DESRIPTION	QTY
1	PORTA ELECTRIC EMDL 06 DOOR INTERLOCK	1 ea.
2	14 FT. OF 18/4 SOOW CORD WITH A METRIPACK-150 4-PIN FEMALE CONNECTOR AND A ¼" MALE SPADE CONNECTOR ON THE RED WIRE	1 ea.
3	RED 16 GAUGE WIRE WITH A 16-14 GAUGE ¼" FEMALE SPADE CONNECTOR ON ONE END. 85" LONG FOR 44"-72" LIFTS, 181" LONG FOR 120"-168" LIFTS	1 ea.
4	4" ZIP TIE	5 ea.
5	16" PIECE OF BLACK 16 GAUGE WIRE WITH A 16-14 GAUGE ¼" RING TERMINAL ON ONE END AND A 16-14 GAUGE ¼" MALE SPADE CONNECTOR ON THE OPPOSITE END	1 ea.
6	12 GAUGE INLINE FUSE HOLDER WITH FIVE-AMP TUBE FUSE. ONE END OF THE FUSE HOLDER TERMINATES WITH A 12-10 GAUGE X 5/16" RING TERMINAL. THE OPPOSITE END HAS A 14-16 GAUGE BUTT-SPLICE	1 ea.

FIG. 14.3

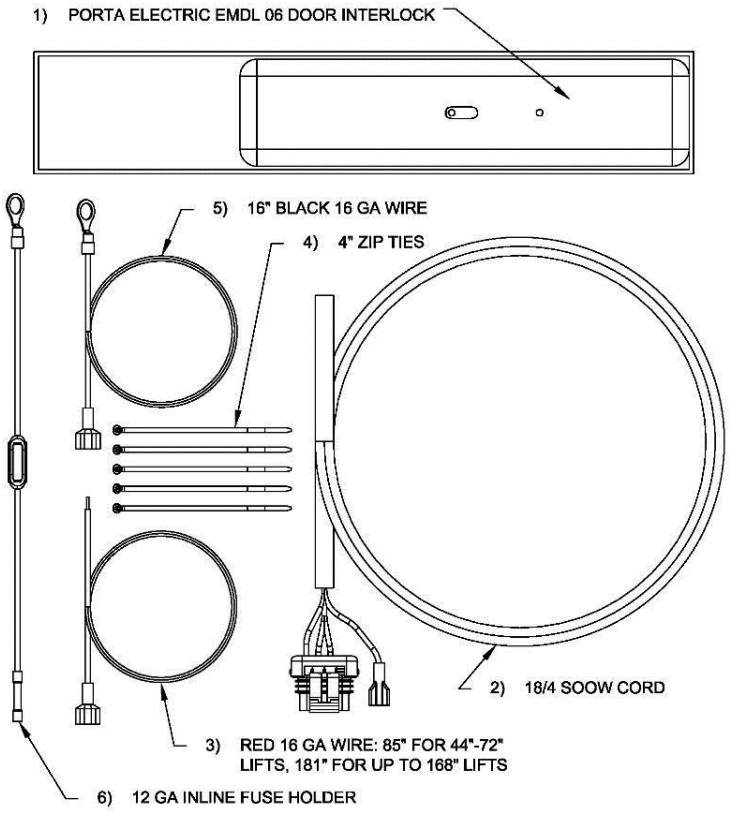


FIG. 14.4

14.2. INSTALLATION PREPARATION

14.2.1. Interlock electrical connections are shown in FIG. 14.5 and FIG. 14.6.

14.2.2. Strip the 18/4 SOOW cord insulation back, exposing approximately 1.25” of internal 4-white, black, green, and red wires (FIG. 14.5).

14.2.3. Strip the insulator from the internal white, black, green, and red wires to expose 1/2” of the conductor (FIG. 14.7).

14.2.4. Remove the cover from the interlock and connect the wires from the SOOW cord as shown (FIG. 14.5).

14.2.5. Cut wire, if needed, to lengths shown below:

LIFT HEIGHT	CUT LENGTH
44”	Cut 85” wire to 57”
52”	Cut 85” wire to 65”
72”	Do NOT cut; leave wire at 85”
120”	Cut 181” wire to 133”
144”	Cut 181” wire to 133”
168”	Do NOT cut; leave wire at 181”

14.2.6. Strip the end of red 16-gauge wire to expose 1/4" of conductor.

14.2.7. Insert stripped end of red 16-gauge wire into open end of butt connector on inline fuse holder wire (FIG. 14.9).

- Make sure conductor is fully engaged with metal tube inside butt connector.

14.2.8. Crimp metal tube section tight with wire crimper. Gently tug on wire to ensure tight fit.

14.2.8.1. Heat the end of butt connector to shrink for water-tight fit.

TERMINAL 1 = UNUSED
TERMINAL 2 = UNUSED
TERMINAL 3 = WHITE
TERMINAL 4 = BLACK
TERMINAL 5 = GREEN
TERMINAL 6 = RED

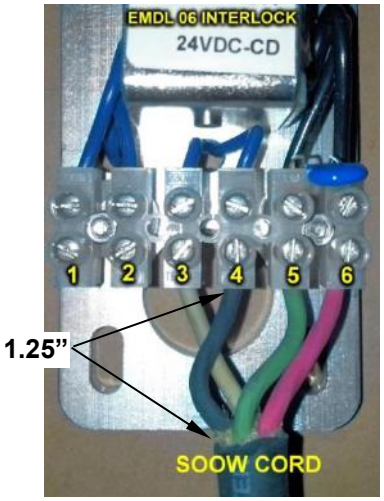


FIG. 14.5

A = WHITE
B = GREEN
C = BLACK
D = RED

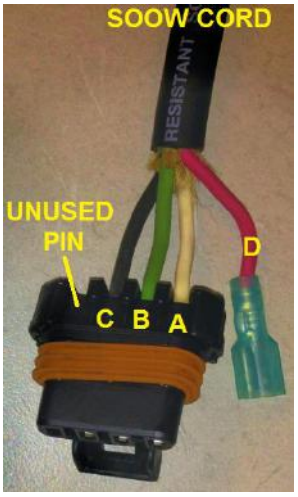


FIG. 14.6

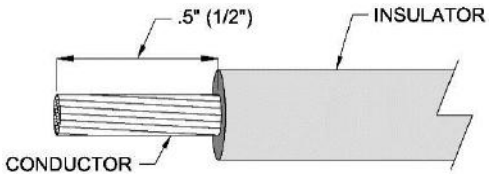


FIG. 14.7

14.3. INSTALLATION

14.3.1. Turn VPL keyed power switch to ‘Power Off’ position, remove key, and unplug VPL from AC power.

⚠ Failure to turn the VPL keyed power switch to the ‘Power Off‘ position, remove key, and unplug AC power cord could create a dangerous situation and result in equipment damage or failure, injury to property, risk of electrical shock, risk of fire, risk of crushing injuries, risk of serious personal injury, and or death.

14.3.2. Remove Power Head Cover (“hood”), per instructions in SECTION 5.

14.3.3. Disconnect the white 10-gauge ground wire from negative battery terminal (FIG. 19.3).

14.3.4. Leaving control box connected, remove rear platform guard wall (FIG. 5.6) and set it on a surface that will not scratch or damage the rear platform guard wall.

14.3.5. Remove front and rear cover panels from lift tower, per instructions in SECTION 5.

14.3.6. Remove 1/2” nut from center stud on reversing relay (FIG. 14.8).

14.3.7. Install 5/16” ring terminal on yellow wire (with inline fuse holder) over center stud. Replace nut and tighten securely (FIG. 14.8 and FIG. 14.9).

14.3.8. Route red wire (attached to yellow fuse wire in FIG. 14.9) down through the cable access port (FIG. 14.9) and run parallel to the AC power cord, down the right side of lift tower behind wire hold-downs (FIG. 8.4). String red wire down to match the length of the other two plugs (FIG. 14.10).

14.3.9. Locate the 4-pin female connector on end of the rainbow ribbon cable near base of tower and remove the gate bypass jumper (FIG. 14.10). Connect the 4-pin male connector end of 14’ SOOW cord to this plug and join the single red wires with the attached 1/4” male and female spade connectors (FIG. 14.11). Route cord out through notch in rear cover panel (FIG. 14.12).

14.3.10. From the front side of the tower, locate the blue wire from gate bypass switch (wire No. 4 on right side of carriage) where it joins the black wire J3H from female 8-pin connector on left side of carriage, and disconnect the spade connector (FIG. 14.13) where the wires join.

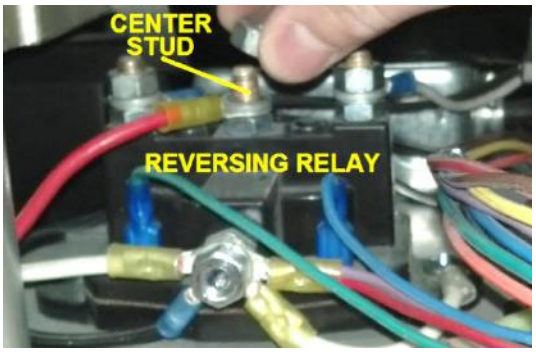


FIG. 14.8

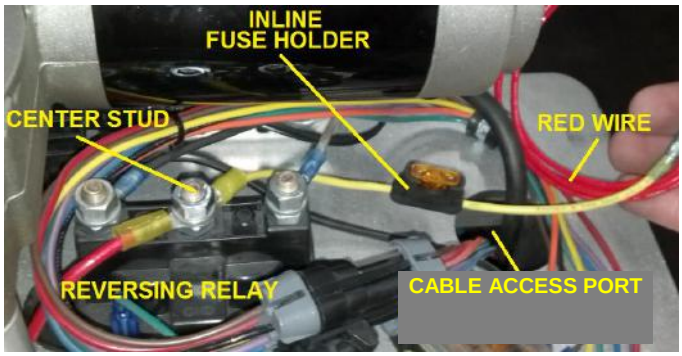


FIG. 14.9

FIG. 14.10

FIG. 14.11

FIG. 14.12

14.3.11. Connect the male spade connector on the end of the 16” black wire with the 1/4” ring terminal on the opposite end to the female spade connector on the blue wire, which was disconnected in the previous step. (FIG. 14.14).

14.3.12. Remove 1/4” nut & bolt attaching purple ground wire to upper left gusset on carriage. Slide 1/4” ring terminal on other end of 16” black wire over bolt and reassemble so both purple and black wires are grounded to carriage (FIG. 14.15).

14.3.13. Secure the added wires to existing wires with the zip ties provided. Cut excess material from zip ties as needed (FIG. 14.16).

14.3.14. Reinstall the front and rear cover panels on lift tower.

14.3.15. Reinstall the rear platform guard wall.

14.3.16. Follow the Porta Electric EMDL 06 Door Interlock manufacturer’s instructions for the mounting and use of the Interlock on an existing door.

14.3.17. Reattach the white 10-gauge ground wire to negative battery terminal.

14.3.18. Reinstall the plastic cover on power head.

14.3.19. Plug in AC power cord and turn the VPL keyed power switch to the “ON” position.

14.3.20. Test exterior door interlock

14.3.21. With door closed, operate lift through entire range of travel up and down. The door interlock mechanism should only unlatch and allow door to open when lift platform is within 3” of threshold. The door must also be closed and interlock latched for the platform to descend more than 3” from the threshold.

⚠ VPLs altered to operate with an interlock will not operate correctly if connected to a top landing gate. The wiring must be returned to its original wiring scheme (pre-interlock alteration) to work with the top landing gate.

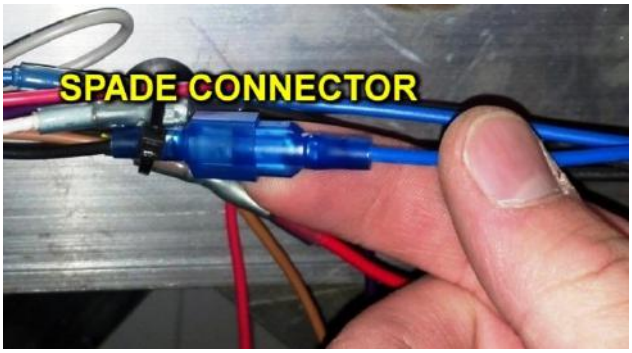


FIG. 14.13

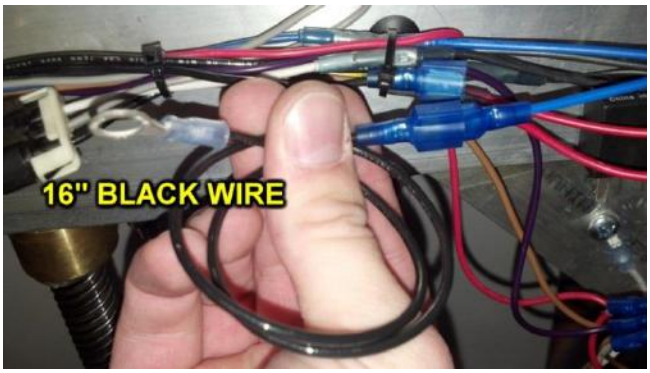


FIG. 14.14

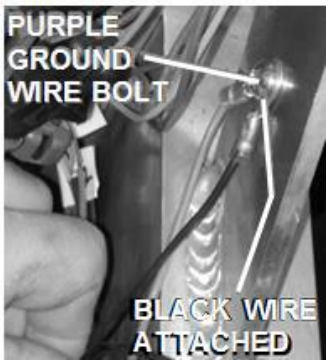


FIG. 14.15

FIG. 14.16

15. OPTIONAL EQUIPMENT – CALL/SEND CONTROL

15.1. OVERVIEW

15.1.1. The call/send control allows you to “call” the VPL up or down (FIG. 15.1). Multiple call/send controls can be used, allowing the lift to be called from various locations (fig. 15.2). Press the ‘down’ button and the platform descends; press the ‘up’ button and the platform ascends.

15.1.2. The keyed power switch on the control panel must be in the ‘Power On’ position for the call/send control to operate.

15.1.3. The VPL tower is pre-wired for one call/send control (splitter is included with additional call/send controls).

⚠ Mount call/send control in safe locations and in accordance with applicable codes.

FIG. 15.1

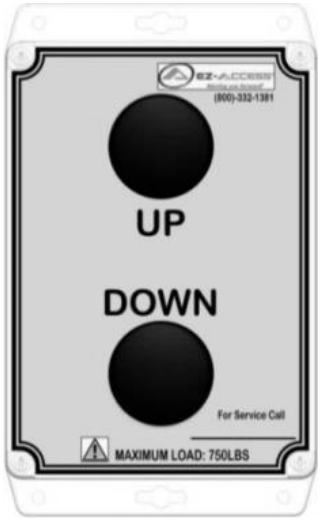
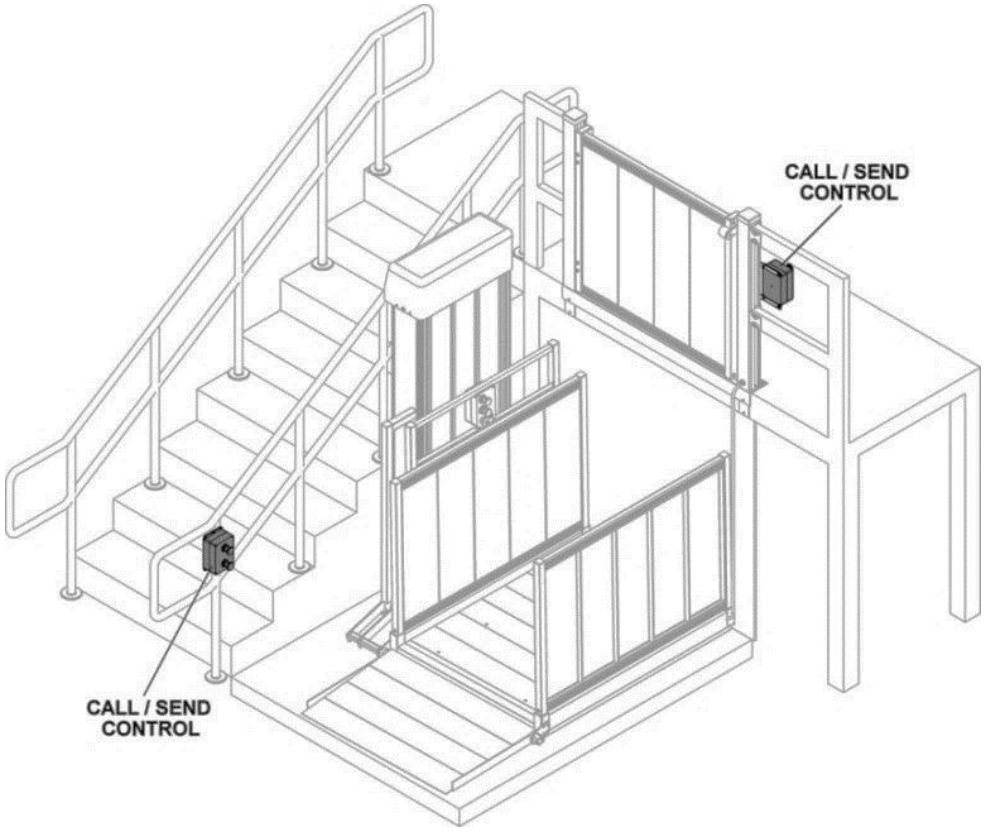


FIG. 15.2



15.2. INSTALLATION

15.2.1. Connect the call/send control cord to VPL by first removing rear cover panel.

15.2.2. Locate the cord with a 3-pin connector inside the tower (this cord is positioned in the area where the power cord exits the tower).

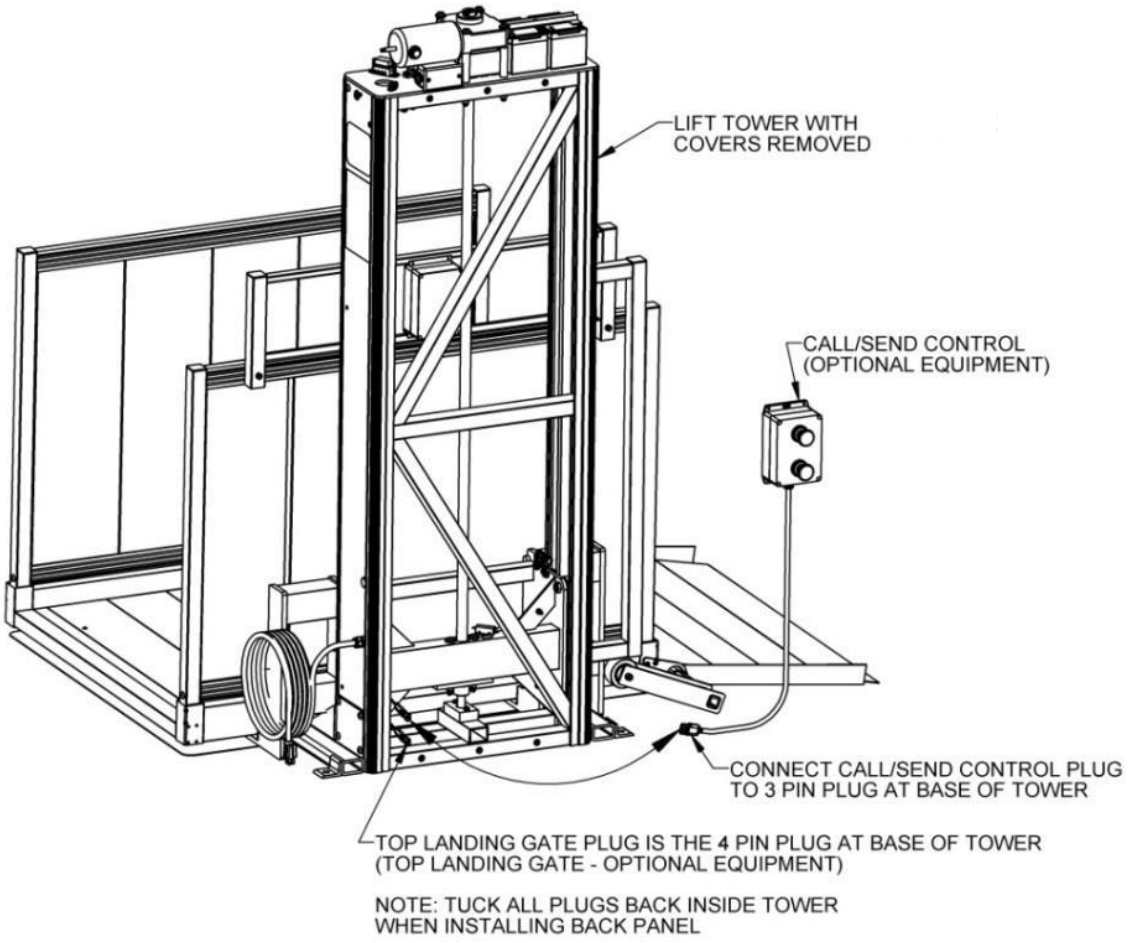
15.2.3. Bring the cord out of the tower, connect the call/send control plug, and tuck the connected plug back inside the tower (FIG. 15.2).

15.2.4. Reinstall rear cover panel, ensuring that the notch is in the lower right corner (looking at the back of VPL).

15.2.5. Mount the call/send control securely using #10 bolts or screws (not included) in a suitable location where it can be accessed easily by the VPL user.

15.2.6. Secure the call/send control cord in such a manner that it will not interfere with the VPL operation or pose a tripping hazard.

FIG. 15.2



16. OPTIONAL EQUIPMENT – CALL/SEND CONTROL MOUNTING KIT

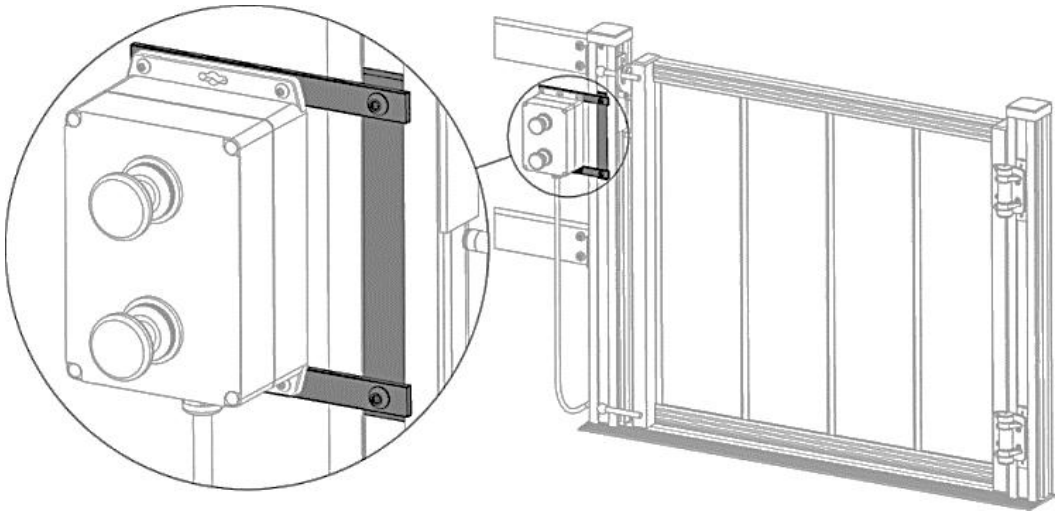
16.1. OVERVIEW

16.1.1. The call/send control mounting kit (FIG. 16.1) is used to mount the call/send control to the top landing gate post. The kit includes two mounting bars, one attachment bar, and attachment hardware.

16.2. INSTALLATION

16.2.1. Mounting must be done on the latch mounting post in the orientation shown (FIG. 16.1), extending away from the top landing gate, on the same side as the latch bar. It cannot be installed on the hinge side.

FIG. 16.1



16.2.2. Assemble the two mounting bars to the call/send control using four #10-24 x 3/4” long button head socket cap screws and nylon locking nuts (FIG. 16.2). Assemble the bars in such a manner that the larger hole is on the gate side when mounted to the same post which contains the latching mechanism.

16.2.3. Install two 5/16”-18 x 3/4” long button head socket clamp screws through the larger holes in the mounting bars and into the tapped holes in the attachment bar. Do not tighten fully at this time.

16.2.4. Remove the post cap.

16.2.5. Attach the call/send control and mounting assembly by sliding the attachment bar into the channel at the back of the latch mounting post while the mounting bars remain on the outside the post.

16.2.6. Slide the assembly below the latch bar and tighten the clamp screws securely. This should clamp the post wall between the attachment bar and the mounting bars, holding the call/send control in place.

16.2.7. Reinstall the post cap.

16.2.8. If not done so previously, bring the 3-pin connector out of the VPL tower in the same manner described in SECTION 15 and connect it to the cord in the VPL tower.

16.2.9. Secure the call/send control cord to the porch or deck in such a manner that it will not interfere with the VPL or gate operation or pose a tripping hazard.

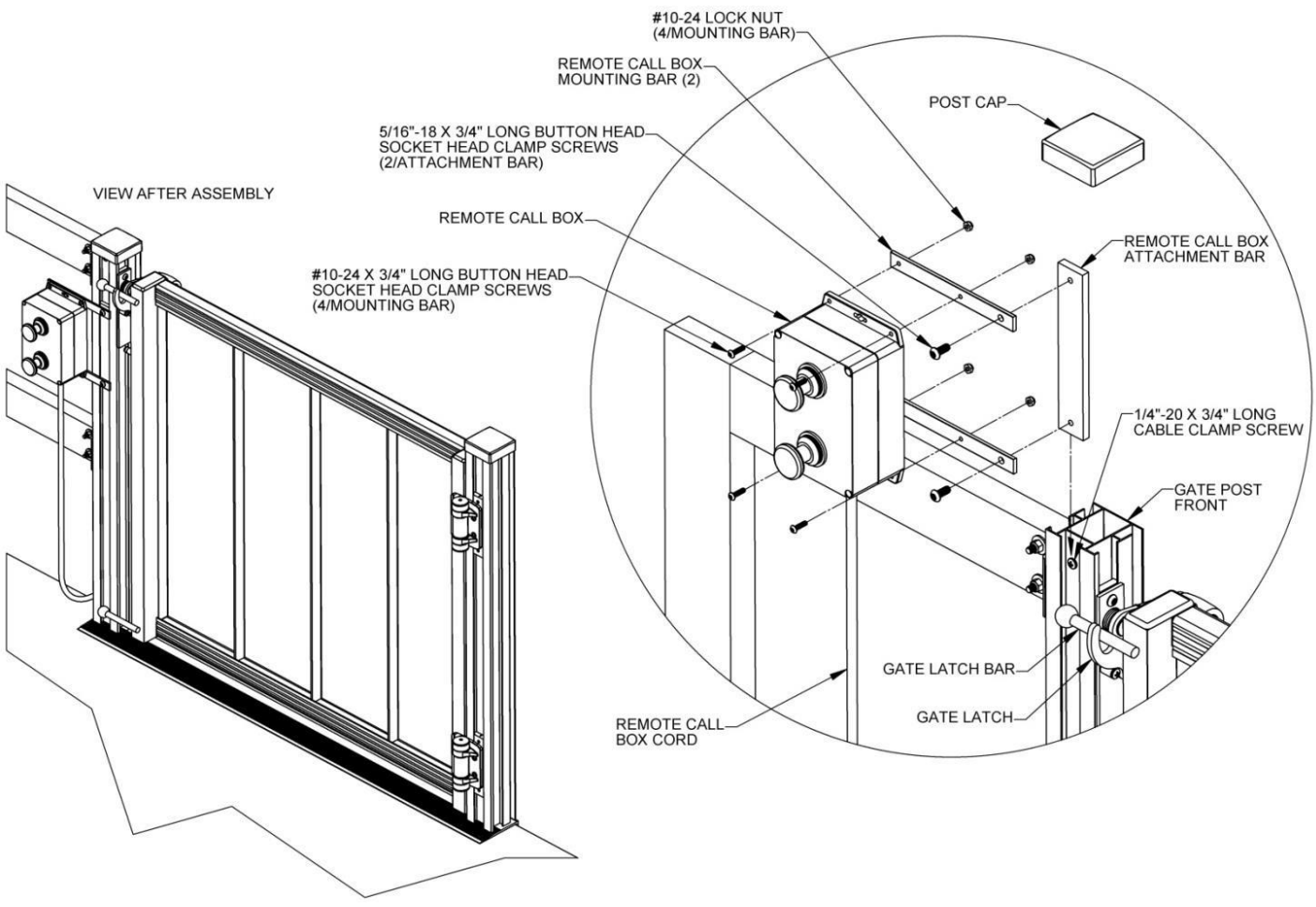


FIG. 16.2

17. OPTIONAL EQUIPMENT – TURN PLATFORM PIVOT POST

17.1. OVERVIEW

17.1.1. The turn platform pivot Post (FIG. 17.1) is used when a top landing gate latch is mounted opposite the guard wall (FIG. 17.1).

- This option replaces the welded pivot plate.

17.2. INSTALLATION

17.2.1. The turn platform pivot post uses the same installation procedure(s) as the welded pivot plate. See SECTION 5 for installation information.

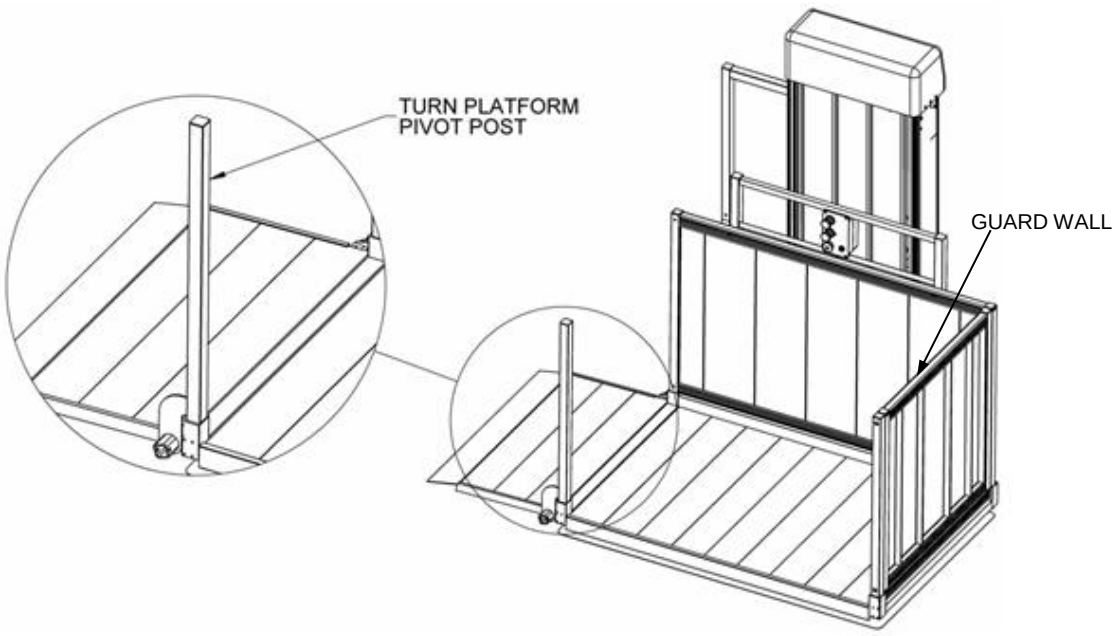


FIG. 17.1

18. OPTIONAL EQUIPMENT – PLATFORM GATE

18.1. OVERVIEW

18.1.1. VPLs taller than 72” include a platform gate as standard equipment. The platform gate is an option available for lifts 72” and shorter.

18.1.2. Installation is always on the guard ramp side of the platform. Its tension hinges are adjustable and can mount left or right.

18.1.3. Kit contents include the gate, rubber bumper, and necessary hardware.

- ⚠ The Platform Gate is not designed to bear weight. Never hang weight, of any kind, on the platform gate. Damage and possible injury could result.
- ⚠ Do not use until installation is complete.

18.2. INSTALLATION

18.2.1. Before starting, determine which side the hinges will be installed on, considering the required gate swing direction based on the specific installation and the end user’s desired placement.

18.2.2. Position hinges in the desired location against the platform guard end post.

18.2.3. Further position the platform gate so the top of the upper tube aligns with the top of the platform guard end post. Flush the outside edge of the hinge with the outside edge of the platform guard end post (FIG. 18.1).

18.2.4. Once the platform gate and hinges are positioned, attach in one of two ways:

18.2.4.1. Use the holes in the hinge as a template and mark the locations with a pencil or marker. Drill holes in one wall of the platform guard end post using a 13/64” (#7) drill bit, then insert four 1/4”-20 X 1” pan head Philips self-drilling screws through the holes in the hinge and into one wall of the post, or

18.2.4.2. C-clamp the platform gate in place and drive four 1/4”-20 X 1” pan head Phillips self-drilling screws through the holes in the hinge and into one wall of the post (FIG. 18.1).

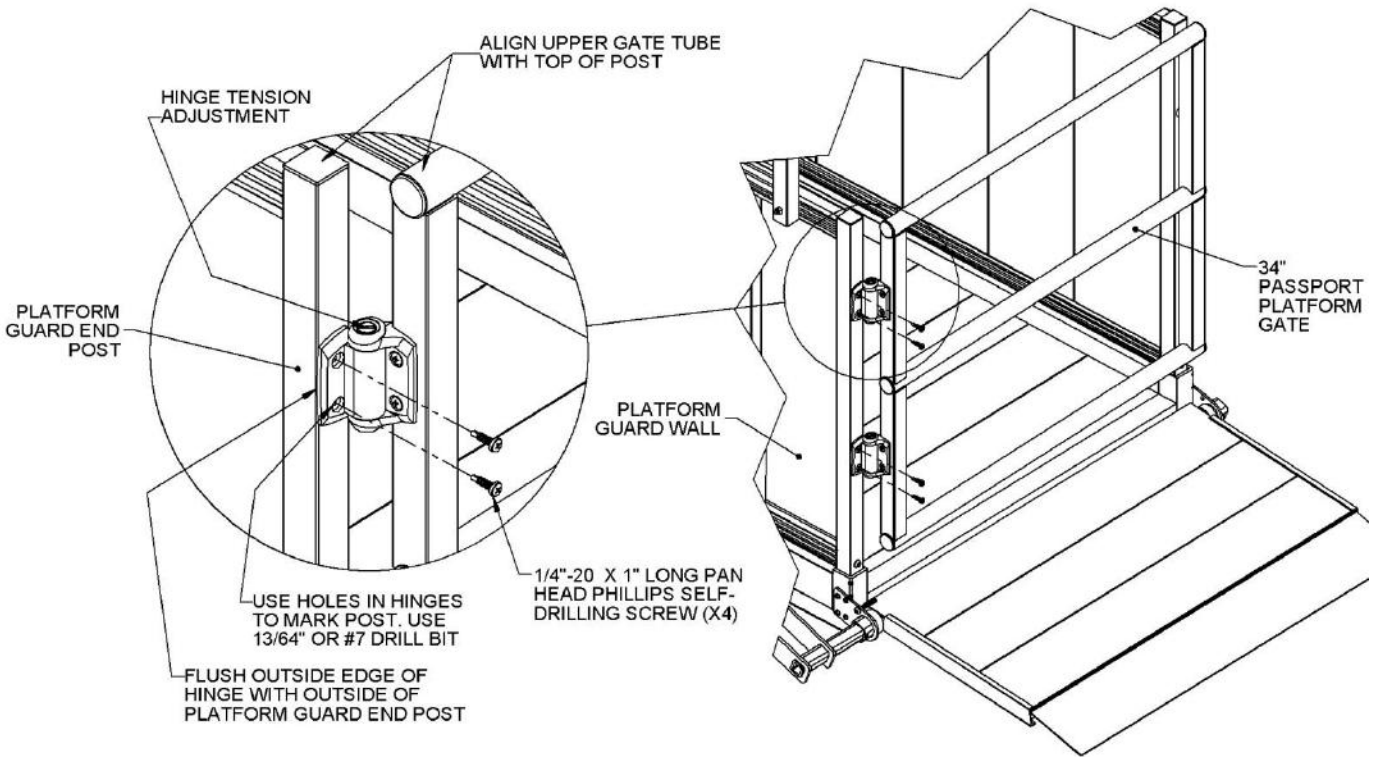


FIG. 18.1

18.2.5. Hinge tension is factory set. However, tension can be adjusted as desired on both hinges using a flat screwdriver and adjusting from the top. Depress and turn counterclockwise to increase tension, clockwise to release tension. The platform gate should swing fully shut gently so as not to bounce off bumper (installed in next steps) more than once.

18.2.6. Install the rubber bumper similarly to the hinges by drilling a 13/64” (#7) pilot hole through one wall of the opposite post, 8-3/4” from the top and centered vertically.

18.2.6.1. Attach the rubber bumper to the post using one 1/4”-20 X 1” pan head Phillips self-drilling screw (FIG. 18.2).

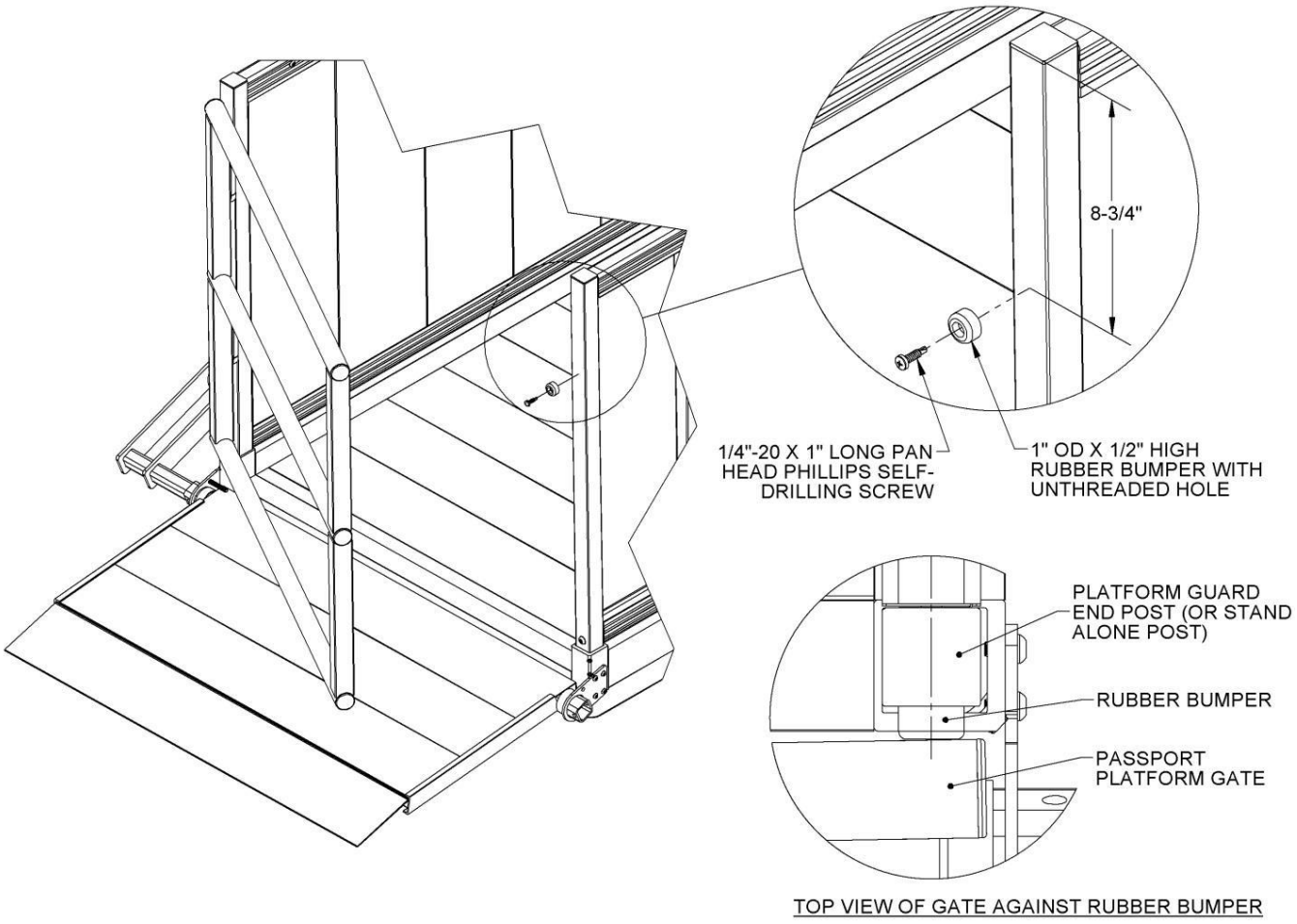


FIG. 18.2

19. MAINTENANCE AND SERVICE

19.1. OVERVIEW

19.1.1. Maintenance and service must be performed only by an EZ-ACCESS approved technician. Contact your dealer with questions or to schedule any needed inspections, repairs, or service.

19.1.2. If the platform and guard ramp surface are covered with frost, ice and or snow, remove frost, ice and or snow before using the VPL.

- Calcium chloride is often used to deice and prevent ice from forming on roads. Used properly, this may be useful to help rid or keep your VPL platform free of frost, ice, and snow. Calcium chloride may not always be effective in removing frost, ice and or snow.

19.1.3. Weekly test and ensure that the safety pan, the built-in device designed to detect obstructions under the platform, is not damaged, moves freely up and down, and illuminates the 'obstruction' lamp on the control box when the safety pan is pushed up toward the platform.

20. BATTERIES

20.1. BEFORE YOU BEGIN

⚠ Before performing battery services, confirm the keyed power switch is in the 'Power Off' position and that the emergency stop switch is pushed in.

20.1.1. The VPL comes with two standard batteries, each are 12-volt 12 Ah valve regulated (VRLA) AGM, sealed lead acid batteries in spill proof housing.

20.1.2. Battery specifications are as follows:

Model	:	MK ES12-12
Type	:	AGM
Voltage	:	12 V
Capacity	:	12 Ah
Length	:	5.94" (151 mm)
Width	:	3.86" (98 mm)
Height	:	3.8" (98 mm)
Weight	:	7.96 lbs. approx. (3.6 kg)

20.1.3. The information provided below pertains to cross reference batteries. While care has been taken to ensure the cross-reference information is accurate, battery manufacturers may make changes to battery descriptions, dimensions, capacities, recommended functions, and usage requirements. Always check with the battery distributor to determine which battery is best for your particular installation.

- KUNG LONG WP12-12
- MK EAST PENN ES12-12
- B&B BP12-12
- LEOCH DJW12-12HD
- EAGLE PICHER CF-12V12
- UNIVERSAL UB12120
- CSB GP12120
- PANASONIC LC-RA1212P
- VISION CP12100
- POWER PATROL SLA1105CSB
- CSB GP12110F2
- POWERSONIC PS-12120

20.2. BATTERY REMOVAL

20.2.1. Unplug all electrical wiring from battery terminals (FIG. 20.3).

20.2.2. Remove locknut, washer, and battery mounting bolt (FIG. 20.1). Set aside for reuse.

20.2.3. Remove battery hold down by twisting from side-to-side until the double-back foam tape breaks free. Scrape excess foam tape from battery hold down.

- Double-back foam tape or hook and loop fastener may have been used on the underside of the battery hold down. If prying is needed to remove battery hold down from batteries, use caution not to crack battery casings.
- If the lower hook and loop fastener portion remains on the power head from a previous battery replacement, it can stay on the power head; no need to remove it. However, batteries need to be level. If one piece of foam/hook and loop fastener is missing, remove them all.

20.3. BATTERY INSTALLATION

20.3.1. Set replacement batteries in same orientation as the batteries previously removed.

- ✋ Field-replaced batteries do not use double-back foam tape or hook and loop fastener.

20.3.2. Insert bolt (removed earlier) through battery hold down, between batteries, and through power head mounting plate (FIG. 20.1).

20.3.3. Put washer and locknut on bolt and tighten nut until washer makes contact with the bottom of the power head mounting plate, then turn another quarter turn.

20.3.4. Do not overtighten! A properly tightened battery hold down will allow slight twisting movement with fingers (FIG. 20.2).

- ⚠ Battery hold down will keep batteries in place with bolt & nut only lightly tightened.
- ⚠ Battery hold down cannot be easily twisted with fingers when over-tightened.
- ⚠ When over-tightened, battery cases will be visibly distorted in the areas where the battery hold down is in contact with the battery casing (FIG. 20.2).
- ⚠ An over-tightened nut will cause stress on battery cases that could result in cracks and leaking of battery acid (FIG. 20.2).

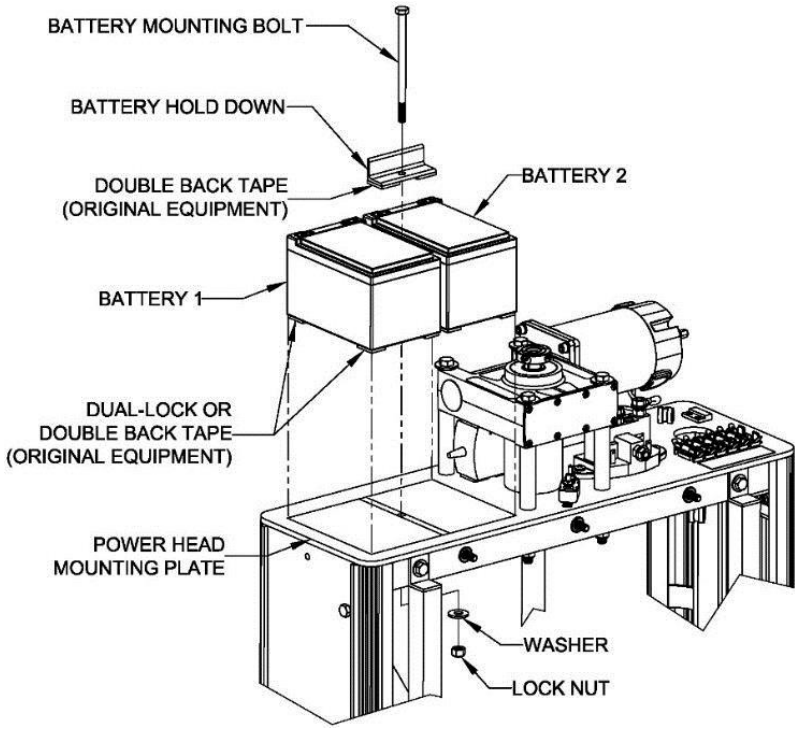


FIG. 20.1

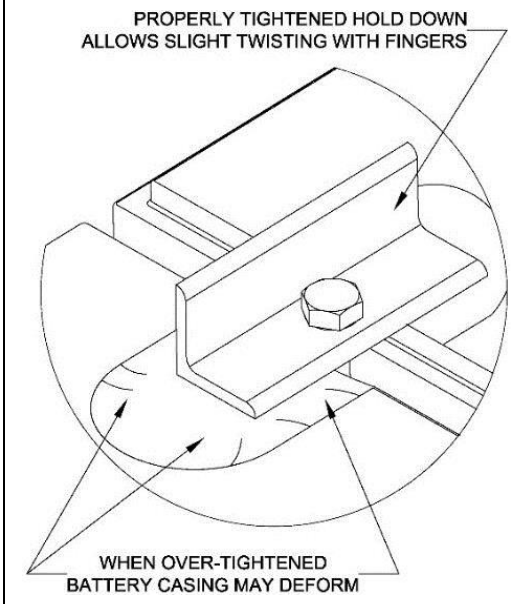


FIG. 20.2

⚠ Before continuing, confirm the keyed switch is in the 'Power Off' position and that the emergency stop switch is pushed in.

20.3.5. Using FIG. 20.3 as a guide, plug previously removed wires back into batteries.

20.3.5.1. Connect the red #10AWG to the positive terminal of Battery 2.

20.3.5.2. Connect the short single black #10AWG wire of the splitter with the 2 black wires to the positive terminal of Battery 1.

20.3.5.3. Connect opposite end with 2 black wires (one #10AWG and one #16AWG) to Battery 2 negative terminal.

20.3.5.4. Connect the White #10AWG wire, to the negative terminal of Battery 1.

20.3.5.5. Reconnect the 120VAC power cord to the 120VAC outlet. Turn keyed switch to the 'Power On' position, and pull Emergency Stop button out.

20.3.5.6. Cycle VPL up and down several inches to confirm proper battery function

WHITE #10AWG = NEGATIVE/GROUND WIRE, GROUND CIRCUIT FOR MOTOR
BLACK #10AWG = BATTERY PARALLEL JUMPER WIRE, CREATES 24VDC FOR MOTOR
BLACK #16AWG = 12VDC POWER FOR CONTROL CIRCUIT
RED #10AWG = POSITIVE/HOT WIRE, MOTOR CIRCUIT

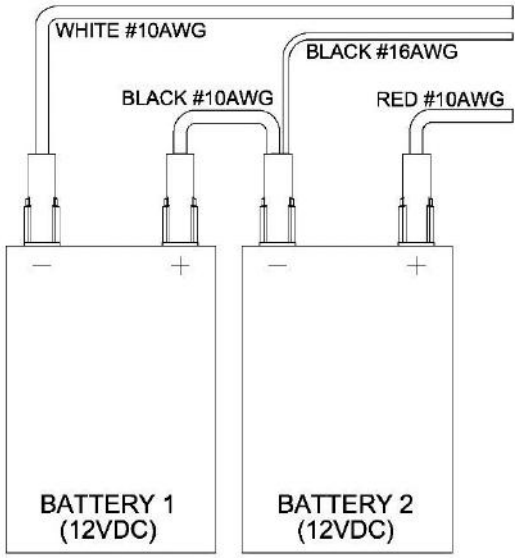


FIG. 20.3

21. HI-LEAD® SCREW LUBRICATION

21.1. OVERVIEW

21.1.1. The Hi-Lead® Screw ("screw") drives the lift platform up and down and must be lubricated at minimum once per year or more frequently if the VPL is used in extremely hot or cold locations (FIG. 21.1).

21.1.1.1. Use Chevron Ulti-Plex® Synthetic Grease EP, NLGI Grade 1.5, or equivalent.

⚠ Failure to use the correct grease and or keep the screw properly lubricated can cause equipment failure.

21.1.2. Remove the power head cover ("hood"), per instructions in SECTION 5.

21.1.3. Remove either the front or rear cover panel (FIG. 21.1).

21.1.3.1. The screw is more easily accessed by removing the rear cover panel (removing both rear cover panels on lifts taller than 72" is required).

21.1.4. Use a brush or similar tool to work the grease into the screw threads, even the sections above and below where the carriage travels.

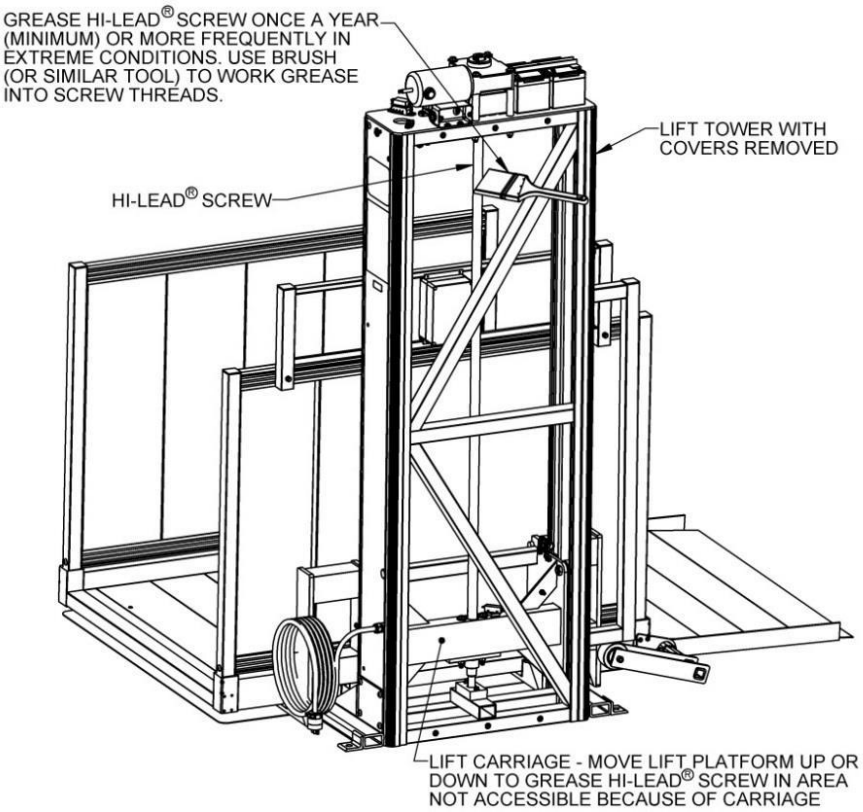
21.1.5. Move the lift platform up or down approximately 1-foot and grease the previously inaccessible screw area where the carriage was located.

21.1.6. Cycle the VPL up and down a couple of times to help spread the grease. Add grease to any areas which appear unlubricated.

21.1.7. Reinstall cover panel(s) and hood.

21.1.8. Tighten all fasteners securely.

FIG. 21.1



22. ANCHORING VPL TO REINFORCED CONCRETE PAD

22.1. OVERVIEW

22.1.1. The VPL must be anchored “plumb”, to a level, 3,500 PSI, 4” thick (minimum) reinforced concrete pad.

22.1.2. Minimum pad dimensions are 41” x 50” to anchor the legs and support the tower. However, a larger pad will be needed if it is desired that the guard ramp land on the pad and or the approach to the VPL ramp.

⚠ Do not install a VPL on asphalt, pavers, ornamental stones, or any other unstable surface.

22.1.3. Using 4-each 1/2” x 4” concrete anchors, anchor the VPL to reinforced concrete pad once it is fitted into place.

⚠ Always follow concrete anchor manufacturer’s directions when using concrete anchors.

✋ For additional anchoring information, refer to the PASSPORT® Vertical Platform Lift (VPL) Technical Specifications and the PASSPORT® Vertical Platform Lift (VPL) Installation Supplement for 120” (10’), 144” (12’), and 168” (14’). For replacement copies, please call 1-800-451-1903.

22.1.4. Anchor hole and dimensional data shown (FIG. 22.1).

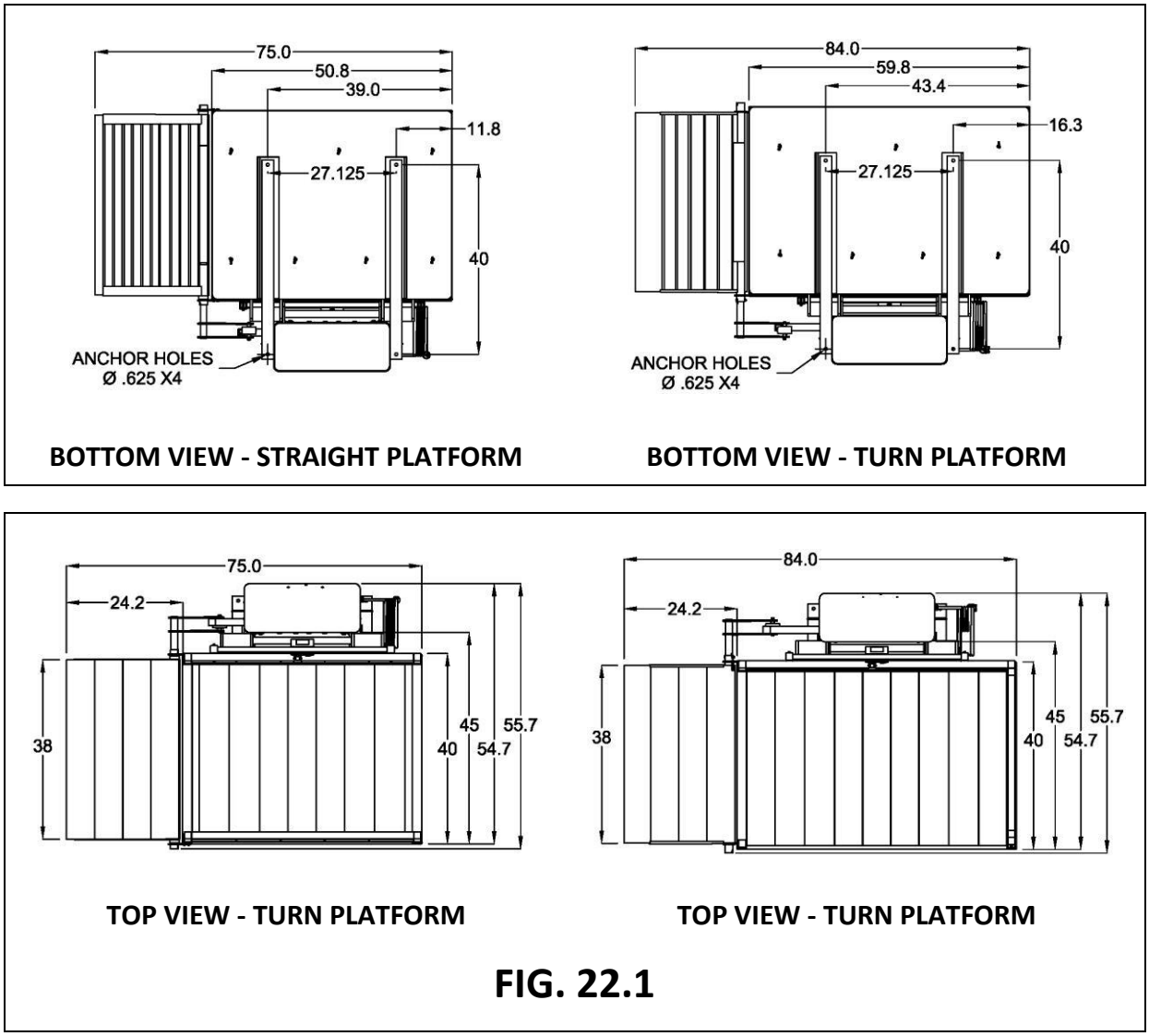
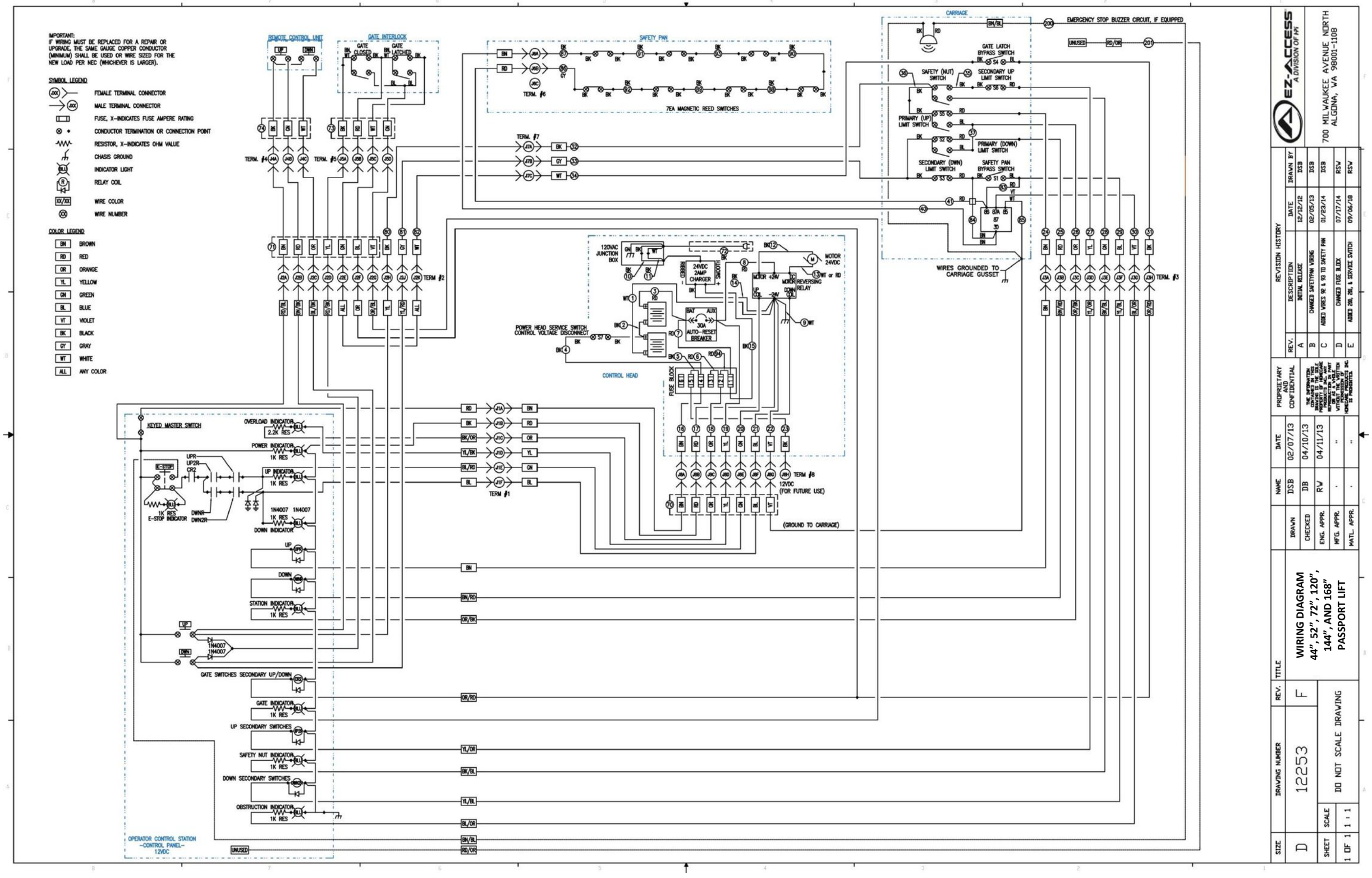


FIG. 22.1

23. **ELECTRICAL DRAWING**


IMPORTANT:
IF WIRING MUST BE REPLACED FOR A REPAIR OR UPGRADE, THE SAME GAUGE COPPER CONDUCTOR (MINIMUM) SHALL BE USED OR WIRE SIZED FOR THE NEW LOAD PER NEC (WHICHEVER IS LARGER).
SYMBOL LEGEND
FEMALE TERMINAL CONNECTOR
MALE TERMINAL CONNECTOR
FUSE, X-INDICATES FUSE AMPERE RATING
CONDUCTOR TERMINATION OR CONNECTION POINT
RESISTOR, X-INDICATES OHM VALUE
CHASSIS GROUND
INDICATOR LIGHT
RELAY COIL
WIRE COLOR
WIRE NUMBER
COLOR LEGEND
BN BROWN
RD RED
OR ORANGE
YL YELLOW
GN GREEN
BL BLUE
VT VIOLET
BK BLACK
GY GRAY
WT WHITE
ALL ANY COLOR
REMOTE CONTROL UNIT
UP
DWN
GATE INTERLOCK
GATE CLOSED
GATE LATCHED
SAFETY PAN
TERM #6
7EA MAGNETIC REED SWITCHES
TERM #7
TERM #4
TERM #5
TERM #2
CARRIAGE
EMERGENCY STOP BUZZER CIRCUIT, IF EQUIPPED
UNUSED
GATE LATCH BYPASS SWITCH
SAFETY (NUT) SWITCH
SECONDARY UP LIMIT SWITCH
PRIMARY (UP) LIMIT SWITCH
PRIMARY (DOWN) LIMIT SWITCH
SECONDARY (DWN) LIMIT SWITCH
SAFETY PAN BYPASS SWITCH
WIRES GROUNDED TO CARRIAGE GUSSET
TERM #3
120VAC JUNCTION BOX
24VDC 2AMP CHARGER
MOTOR 24VDC
MOTOR REVERSING RELAY
POWER HEAD SERVICE SWITCH CONTROL VOLTAGE DISCONNECT
30A AUTO-RESET BREAKER
CONTROL HEAD
FUSE BLOCK
TERM #8
12VDC (FOR FUTURE USE)
(GROUND TO CARRIAGE)
TERM #1
KEYED MASTER SWITCH
OVERLOAD INDICATOR 2.2K RES
POWER INDICATOR 1K RES
UP INDICATOR 1K RES
E-STOP INDICATOR 1K RES
DOWN INDICATOR 1K RES
STATION INDICATOR 1K RES
GATE INDICATOR 1K RES
UP SECONDARY SWITCHES
SAFETY NUT INDICATOR 1K RES
DOWN SECONDARY SWITCHES
OBSTRUCTION INDICATOR 1K RES
GATE SWITCHES SECONDARY UP/DOWN
OPERATOR CONTROL STATION -CONTROL PANEL- 12VDC
EZ-ACCESS A DIVISION OF IVI
700 MILWAUKEE AVENUE NORTH ALGONA, WA 98001-1108
REVISION HISTORY
REV. A DESCRIPTION INITIAL RELEASE DATE 12/12/12 DRAWN BY DSB
REV. B CHANGED SAFETYPAN WIRING DATE 02/05/13 DRAWN BY DSB
REV. C ADDED WIRES 92 & 93 TO SAFETY PAN DATE 01/23/14 DRAWN BY DSB
REV. D CHANGED FUSE BLOCK DATE 07/17/14 DRAWN BY RSV
REV. E ADDED CKT. 201, & SERVICE SWITCH DATE 09/06/18 DRAWN BY RSV
PROPRIETARY AND CONFIDENTIAL
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DRAWN DSB 02/07/13
CHECKED DB 04/10/13
ENG. APPR. RW 04/11/13
MFG. APPR. " "
MATL. APPR. " "
TITLE
WIRING DIAGRAM
44", 52", 72", 120", 144", AND 168"
PASSPORT LIFT
REV. F
DRAWING NUMBER 12253
SIZE D
SCALE DO NOT SCALE DRAWING
SHEET 1 OF 1

24. WRITTEN MAINTENANCE PROGRAM (WMP) AND SERVICE LOG FOR THE EZ-ACCESS PASSPORT® VERTICAL PLATFORM LIFT

24.1 ROUTINE MAINTENANCE AND INSPECTION/TEST SCHEDULE: Refer to the PASSPORT® Vertical Platform Lift (VPL) User manual, Installation Manual, and all applicable supplements and addendums, if any.

- ✋ Attention maintenance/service personnel – action required!
- ✋ Maintenance/service personnel are required to document maintenance and service activities (photocopy the pages as needed). The WMP and Service Log must be immediately available to any inspector, maintenance, or service personnel at the site of the VPL installation. Service Logs must be kept for a period of 5-years.
- ✋ The WMP and Service Logs belong to the VPL owner. DO NOT remove from the VPL installation site.
- ✋ Additional documentation required to remain on-site:
  (a) Wiring Diagram, (b) Installation Manual, (c) User Manual, (d) Service Log
- ✋ In case of a non-life threatening VPL-related emergency, contact your dealer or EZ ACCESS Technical Support at 1-800-332-1381.
- ⚠ All maintenance and service must be performed only by EZ-ACCESS approved technicians. Contact your dealer with questions.

☐ LUBRICATE HI-LEAD® SCREW*	EVERY 6 MONTHS
☐ INSPECT/CONFIRM LABELS ARE PRESENT AND LEGIBLE	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ TEST/CONFIRM CORDED CONTROLS OPERATE LIFT AS BUTTONS INDICATE: UP, DOWN, EMERGENCY STOP	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ TEST REMOTE CONTROLS: CONFIRM VPL OPERATES AS BUTTONS INDICATE: UP, DOWN	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ TEST/CONFIRM KEYED POWER SWITCH FUNCTIONS	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ TEST/CONFIRM PLATFORM STOPS AT UPPER LANDING	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ INSPECT/CONFIRM AC POWER CORD IS UNDAMAGED	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ IF EQUIPPED: TEST/CONFIRM UPPER LANDING GATE LATCHING MECHANISM FUNCTIONS PROPERLY	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ IF EQUIPPED: TEST/CONFIRM PROPER OPERATION OF INTERLOCK	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ IF EQUIPPED: TEST/CONFIRM PROPER OPERATION CALL/SEND CONTROL(S)	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ IF EQUIPPED: TEST/CONFIRM PROPER OPERATION OF PLATFORM GATE	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ VISUALLY INSPECT ALL ELECTRICAL CONNECTIONS FOR CORROSION OR DAMAGE	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ VISUALLY INSPECT FOR MISSING OR DAMAGED HARDWARE	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ ENSURE GUARD WALLS ARE MOUNTED SECURELY	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ ENSURE GUARD RAMP OPENS AND CLOSES FREELY	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ VISUALLY INSPECT RUB STRIPS FOR SIGNS OF WEAR	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ VISUALLY INSPECT LUBRICATE HI-LEAD® SCREW	ROUTINE INSPECTIONS & TEST ANNUALLY
☐ TEST SAFETY PAN TO ENSURE PROPER FUNCTION	ROUTINE INSPECTIONS & TEST ANNUALLY

* CERTAIN ENVIRONMENTAL FACTORS MAY REQUIRE MORE FREQUENT SERVICE INTERVALS

24.2 SERVICE LOG

SERVICE DATE	SERVICE COMPANY NAME		SERVICE TECHNICIAN NAME FULL NAME (PLEASE PRINT)	
SERVICE COMPANY ADDRESS		CITY	ST	ZIP
REASON FOR SERVICE		DESCRIBE SERVICE		
ACCIDENTS INVOLVING LIFT? ☐ YES ☐ NO	IF YES, PLEASE EXPLAIN			
CONFIRM DOCUMENTS ARE ON SITE ☐ WIRING DIAGRAM	☐ INSTALLATION MANUAL	☐ USER MANUAL	☐ SERVICE LOG(S)	
TECH NOTES				

SERVICE DATE	SERVICE COMPANY NAME		SERVICE TECHNICIAN NAME FULL NAME (PLEASE PRINT)	
SERVICE COMPANY ADDRESS		CITY	ST	ZIP
REASON FOR SERVICE		DESCRIBE SERVICE		
ACCIDENTS INVOLVING LIFT? ☐ YES ☐ NO	IF YES, PLEASE EXPLAIN			
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TECH NOTES				