



Dock Lift Series

(PDL60-50, PDL60-60, PDL60-80)



The information in this manual is for our standard machines, if you have any questions regarding the specifications and dimensions of your actual lift table, contact Presto Lifts Customer Service or Sales if your order is being quoted or is in process.

Model: _____
Serial Number: _____
Date placed in service: _____

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**Owner
Manual**

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⚠ WARNING
Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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www.P65Warnings.ca.gov

1 INTRODUCTION

1.1 Specifications

The information in this manual is for our standard machines, if you have any questions regarding the specifications and dimensions of your actual lift table, contact Presto Lifts Customer Service or Presto Lifts Sales if your order is being quoted or is in process.

Model	Roll-Over Capacity Fully Lowered	Vertical Travel	Low Height	Throw Over Plate	Standard Platform	Maximum Platform	Motor
PDL60-50	10,000 lb.	59"	8"	18" x 60"	6' x 8'	8' x 10'	3.2 HP
PDL60-60			10"				
PDL60-80							

Model	Lift Capacity	Rise Time	Approx. Weight
PDL60-50	5,000 lb.	27 seconds	Up to 4,000 lb.
PDL60-60	6,000 lb.		
PDL60-80	8,000 lb.	42 seconds	

1.2 Non-Standard Machines

Non standard machines have features not covered in this manual and can include but are not limited to such accessories as multiple throw-over plates, powered throw-over plates, aluminum throw-over plates, hydraulic power unit covers, hydraulic fluid immersion heaters, unique handrail layouts, powered maintenance device, etc. If your dock lift has anything other than standard specifications, **contact Presto Lifts Customer Service for further assistance.**

1.3 Responsibilities of Owner and Users

Basic Principles - Owners/users shall apply sound principles of safety, training, inspection, maintenance to the expected operating environment. It shall be the responsibility of the owner/user to advise the manufacturer where deflection may be critical to the application.

Manuals - Owners/users shall keep and maintain a copy of the operating and maintenance manual(s) and ensure its availability to operating and maintenance personnel.

Inspection and Maintenance - It shall be the responsibility of the users to inspect and maintain the machine as required to ensure proper operation. The frequency of inspection and maintenance shall be based upon the manufacturer's recommendations and be compatible with operating conditions and the severity of the operating environment. Machinery that is not in proper operating condition shall be immediately removed from service until repaired. Maintenance and repairs shall be made by a qualified person and the repairs shall be in conformance with the manufacturer's recommendations.

Maintenance Safety Precautions - Before adjustments and repairs are started on the machine, the following precautions shall be taken as applicable:

1. Remove the load from the platform.
2. Lower platform to the full down position.
3. Relieve system pressure from all circuits before loosening or removing any components.
4. All controls in the "off" position and all operating features secured from inadvertent motion by brakes, blocks, or other means.
5. Disconnect power and follow established owner/user lockout/tag out policies.
6. Follow precautions and directions as specified by the manufacturer.

Replacement Parts - When parts or components are replaced, they shall be replaced with parts or components approved by the original manufacturer.

Maintenance Training - The user shall ensure only qualified personnel inspect and maintain the machine in accordance with the manufacturer's recommendations.

Operator Training - An owner/user, who directs or authorizes an individual to operate the machine shall ensure that the individual has been:

1. Trained in accordance with the manufacturer's operating manual.
2. Made aware of the responsibilities of operators as outlined. [See Section 1.4 Responsibilities of Operators on page 6.](#)
3. Retrained, if necessary, based on the owners/user's observation and evaluation of the operator.

Modifications and additions shall not be performed without the manufacturer's prior written approval. Where such authorization is granted, capacity, operation, and maintenance instruction plates, tags, or decals shall be changed accordingly.

1.4 Responsibilities of Operators

Basic Principles - Operators shall apply sound principles of safety and good judgment in the application, and operation of the machine with consideration given to its intended use and expected operating environment. Since the operator is in direct control of the machine, conformance with good safety practices is the responsibility of the operator. The operator shall make decisions on the use and operation with due consideration for the fact that his or her own safety as well as the safety of other personnel on or near the machine is dependent on those decisions.

General Training - Only personnel who have received general instructions regarding the inspection, application, and operation of machine, including recognition and avoidance of hazards associated with their operation, shall operate the machine. Such topics covered shall include, but not necessarily be limited to, the following issues and requirements:

1. A pre-start inspection
2. Responsibilities associated with problems or malfunctions affecting the operation of the machine
3. Factors affecting stability
4. The purpose of placards and decals
5. Workplace inspection
6. Safety rules and regulations
7. Authorization to operate
8. Operator warnings and instructions
9. Actual operation of the machine. Under the direction of a qualified person, the trainee shall operate the machine for a sufficient period of time to demonstrate proficiency in actual operation of the machine.

Pre-start Inspection - Before use each day or at the beginning of each shift, the machine shall be given a visual inspection and functional test including but not limited to the following:

1. Operating and emergency controls
2. Safety devices
3. Hydraulic system leaks
4. Electrical cables and wiring harness
5. Loose or missing parts
6. Nameplates, precautionary and instructional markings and/or labeling
7. Guarding system
8. Items specified by the manufacturer

Problem or Malfunctions - Any problems or malfunctions that affect the safety of operations shall be repaired prior to the use of the machine.

Before Operations - The operator shall:

1. Read and understand the manufacturer's operating instruction(s) and user's safety rules or have them explained.
2. Understand all labels, warnings, and instructions displayed on the machine or have them explained.

Workplace Inspections - Before the machine is used and during use, the operator shall check the area in which the machine is to be used for possible hazards such as, but not limited to:

1. Bumps, floor obstructions, and uneven surfaces
2. Overhead obstructions and electrical hazards
3. Presence of unauthorized persons
4. Other possible unsafe conditions as noted in the operating manual.

Operator Warnings and Instructions - The operator shall ensure the operation of the machine is in compliance with the following:

1. **Guarding system** - Guarding shall be installed and positioned, and access gates or openings shall be secured per the manufacturer's instructions (If applicable).
2. **Distribution of load** - The load and its distribution on the platform shall be in accordance with the manufacturer's rated capacity for that specific configuration.
3. **Maintaining overhead clearance** - The operator shall ensure that adequate clearance is maintained from overhead obstructions and energized electrical conductors and parts.
4. **Point of Operation** - The operator shall not place any part of their body under the platform.
5. **Precaution for moving equipment** - When other moving equipment or vehicles are present, special precautions shall be taken to comply with the safety standards established for the workplace.
6. **Reporting problems or malfunctions** - The operator shall immediately report to a supervisor any problem(s) or malfunction(s) that become evident during operation. The operator shall ensure all problems and malfunctions that affect the safety of operations are repaired prior to continued use.
7. **Capacity limitation** - Rated capacity shall not be exceeded when loads are transferred to the platform.
8. **Work area** - The operator shall ensure the area surrounding the machine is clear of personnel and equipment before lowering the platform.
9. **Securing the machine** - The operator shall comply with the means and procedures provided to protect against use by an unauthorized person(s).
10. **Altering safety devices** - Safety devices shall not be altered or disabled.
11. **Modifications** or alterations of the machine or the fabrication and attaching of frameworks or the mounting of attachments to the machine or the guarding system shall only be accomplished with prior written permission of the manufacturer.
12. **Assistance to the operator** - If an operator encounters any suspected malfunction or any hazard or potentially unsafe condition relating to capacity, intended use, or safe operation, the operator shall cease operation of the machine and request further instruction from the owner/user.
13. **Problems or malfunctions** - Any problem(s) or malfunction(s) that affect the safety of operations shall be repaired prior to the use of the machine.

2 SAFETY

All personnel installing, operating, and maintaining this machine shall read and understand this manual. For questions or concerns contact the manufacturer.

This machine shall be installed, operated, and maintained by trained and/or qualified personnel only.

2.1 Safety Alert Symbols



A symbol that indicates a hazard. It is composed of an equilateral triangle surrounding an exclamation mark. The safety alert symbol is only used on hazard alerting signs. It is not used on safety notice and safety instructions signs.

A – For use with **DANGER** signal word; (safety white triangle, safety red exclamation mark, safety red background)

B – For use with **WARNING** signal word; (safety black triangle, safety orange exclamation mark)

C – For use with **CAUTION** signal word; (safety black triangle, safety yellow exclamation mark)

D – For use with **DANGER, WARNING, or CAUTION** signal words; (**D** is a safety yellow triangle with a safety black border and safety black exclamation mark);

2.2 Signal Words

DANGER



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

WARNING



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

CAUTION



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

NOTICE



NOTICE Indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

2.3 Safety Devices

This machine is equipped with devices and features to protect the operator and nearby personnel from severe injury or death. These features and devices shall be installed and functioning correctly during operation.

3 LABELING

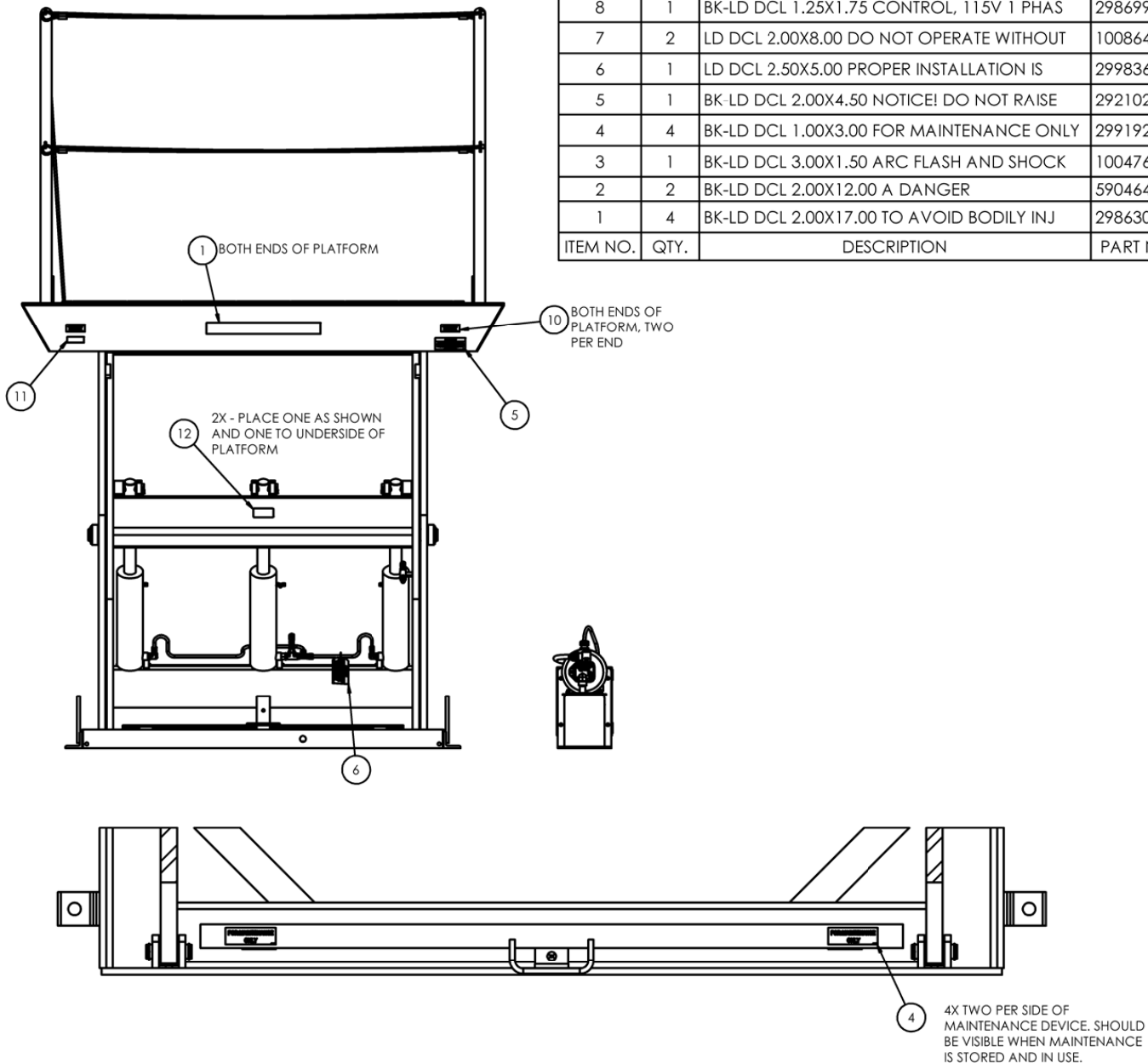
This machine has labeling to indicate potential hazards this machine may pose when operating and/or maintaining the machine. All labels must be legible. If any label is missing, damaged, or otherwise illegible contact the manufacturer for replacement labels.

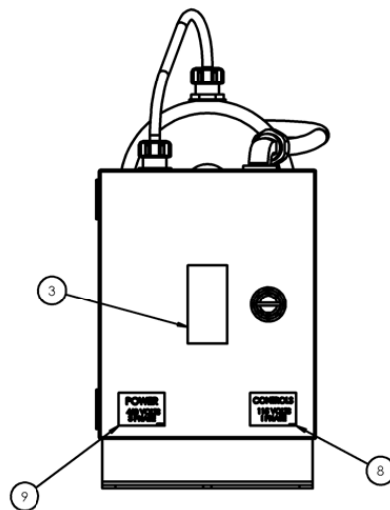
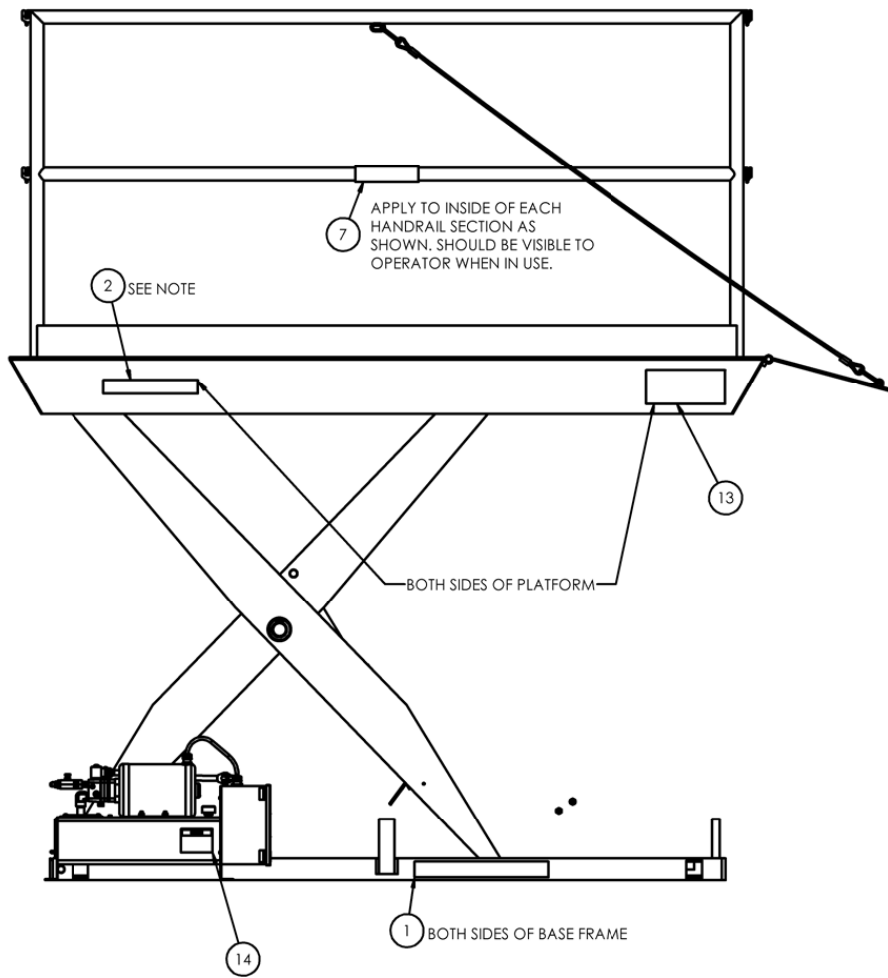
3.1 Label Placement Diagram



CUT AND DISCARD OFF LAST PANEL OF 5904643

14	1	BK-LD DCL 2.00X3.00 MIXING WITH FLUIDS C	10051574
13	2	LD 1.67x7.00 PRESTO ALPHA	C180N
12	2	LD DCL 2.00X3.00 SERIAL ID BL	10079929
11	1	LD WARNING CANCER AND REPRODUCTIVE	10095524
10	4	BK-LD DCL 1.25X2.75 CAPACITY 5000 LBS	2998442
9	1	BK-LD DCL 1.25X1.75 POWER, 460 VOLTS 3 P	2987003
8	1	BK-LD DCL 1.25X1.75 CONTROL, 115V 1 PHAS	2986999
7	2	LD DCL 2.00X8.00 DO NOT OPERATE WITHOUT	10086440
6	1	LD DCL 2.50X5.00 PROPER INSTALLATION IS	2998365
5	1	BK-LD DCL 2.00X4.50 NOTICE! DO NOT RAISE	2921026
4	4	BK-LD DCL 1.00X3.00 FOR MAINTENANCE ONLY	2991927
3	1	BK-LD DCL 3.00X1.50 ARC FLASH AND SHOCK	10047672
2	2	BK-LD DCL 2.00X12.00 A DANGER	5904643
1	4	BK-LD DCL 2.00X17.00 TO AVOID BODILY INJ	2986306
ITEM NO.	QTY.	DESCRIPTION	PART NO.





4 INSTALLATION

Installation of this machine shall be performed by trained and/or qualified personnel only. The owner/ installer is responsible for obtaining any necessary permissions and/ or permits. Follow all applicable codes and ordinances. Read and understand all safety and installation information in this manual.

Before installation, remove all shipping materials and verify all components on the packing list were received. Inspect the machine, all components, wiring and electrical connections, hydraulic hoses and fittings for damage. If components are missing or damage is found contact the manufacturer before continuing installation. If not being installed in a pit see Typical and Alternative Pad Plan sections.

DANGER

High Voltage: Electrical service and installation must be performed by trained and/or qualified personnel. Lock-out/tag-out the power source before installation.

Electric motors can create sparking, do not install in an area where flammable materials are present.

Never enter beneath the platform unless the machine is unloaded and secured against lowering using the maintenance device. If unable to engage the maintenance device the platform must be secured against lowering by other means. [See Section 6.1 Maintenance Device on page 24.](#)

All electrical components and the hydraulic power unit must be protected from wet and/or dirty environments unless specifically configured for such environments.

Pinch points and crush hazards exist when moving and transporting the machine. Do not enter under any equipment while moving or transporting. Keep hands, feet, and loose clothing away from moving equipment.

This machine must be installed on a solid, stable, level surface or machine will be unstable and can lead to injury. Do not install on asphalt or other unstable surface.

Use appropriate lifting device to lift the machine. Use a load spreader to lift the machine. Lift the machine using the provided lifting eyes only. Do not lift the machine by the platform, unless using the specific instructions provided in steps 1 through 6. [See Section 4.6 General Installation on page 17.](#)

This machine must be properly secured to the floor/ground before operation or the machine may be damaged.

4.1 External Power Unit

External power units should be placed within thirty feet (hose length) of the machine to avoid excess pressure drops. External power units must be protected from moisture and weather.

4.2 Pit Installation

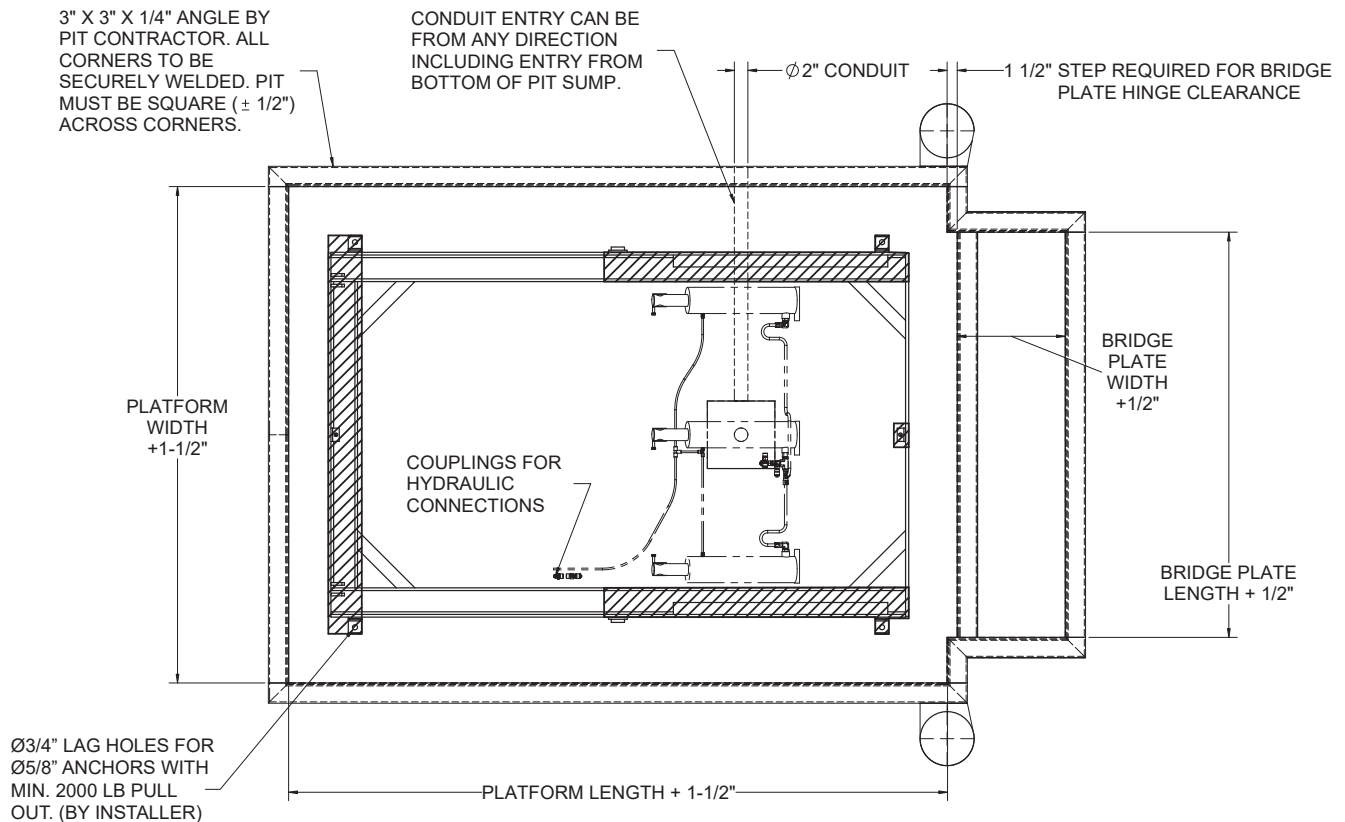
WARNING

Do not install this machine in a pit unless the machine has been designed for such installation. Shear points exist and can cause severe injury. Platforms traveling below floor level may require guarding in accordance with ANSI MH 29.1. Guarding must be installed before operation.

1. Verify that the pit dimensions match the pit plan.
2. Verify that pit is clear of tools and other debris before lowering the machine into the pit.
3. Follow General Installation instructions to complete the installation.

4.3 Typical Pit Plan

The information in this manual is for our standard machines, if you have any questions regarding the specifications and dimensions of your actual lift table, contact Presto Lifts Customer Service or Presto Lifts Sales if your order is being quoted or is in process.

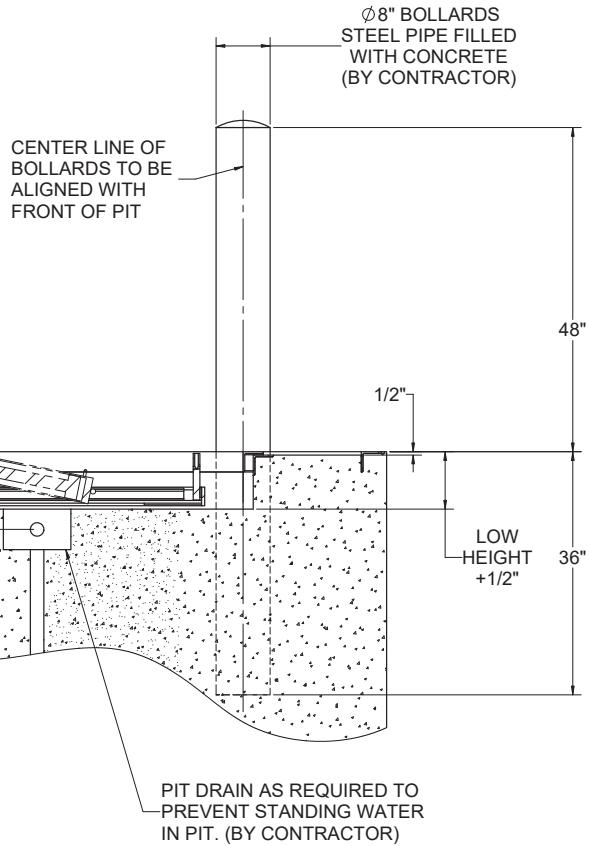


- CROSS HATCHING INDICATES AREAS OF BASE FROM THE MUST BE SHIMMED AND OR GROUTED AFTER LEVELING OF THE BASE FRAME TO ENSURE PROPER BASE FRAME SUPPORT.
- CONDUIT RUN IS REQUIRED FOR ROUTING OF HYDRAULIC HOSES AND ELECTRICAL WIRING UNLESS ALTERNATIVE ARRANGEMENTS ARE REQUESTED.
- $\varnothing 2$ " ELECTRICAL CONDUIT USED WHEN $1/2$ " HYDRAULIC HOSE, VENT LINE, AND ELECTRICAL LEADS ARE TO BE INSTALLED FROM POWER UNIT TO LIFT (BY PIT CONTRACTOR).

CONCRETE ANCHORS TO BE $\varnothing 1/2$ " X 6" LOCATED 12" O.C. WITH ONE 3" FROM EACH END.

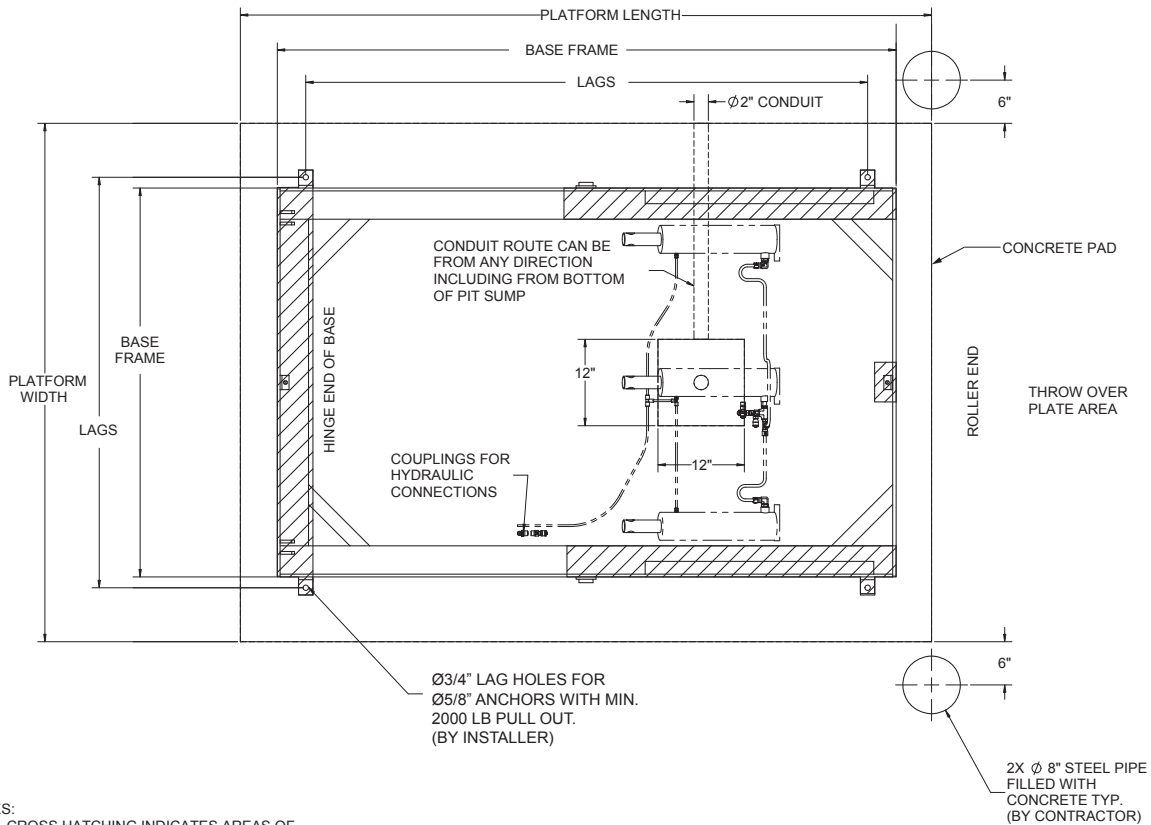
CONCRETE BEHIND CURB ANGLES MUST BE WELL COMPACTED WITH NO VOIDS

$1/2$ " SHIM UNDER EACH LAG PLATE FOR PROPER DRAINAGE



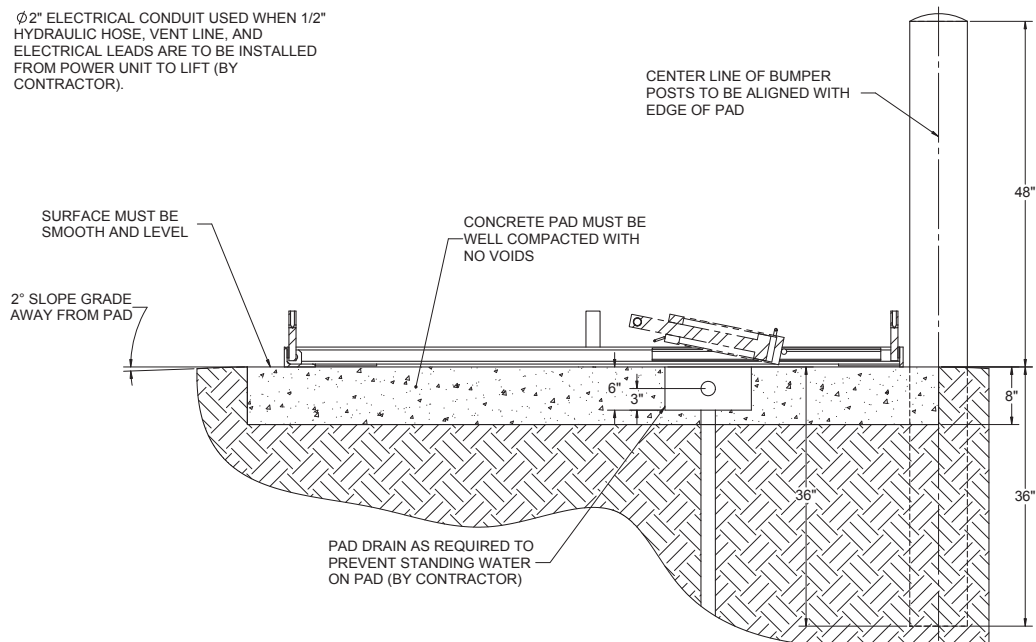
4.4 Recommended Pad Plan

Use of a sump/drain for proper drainage and a conduit run for hydraulic/electrical routing in pad is recommended.



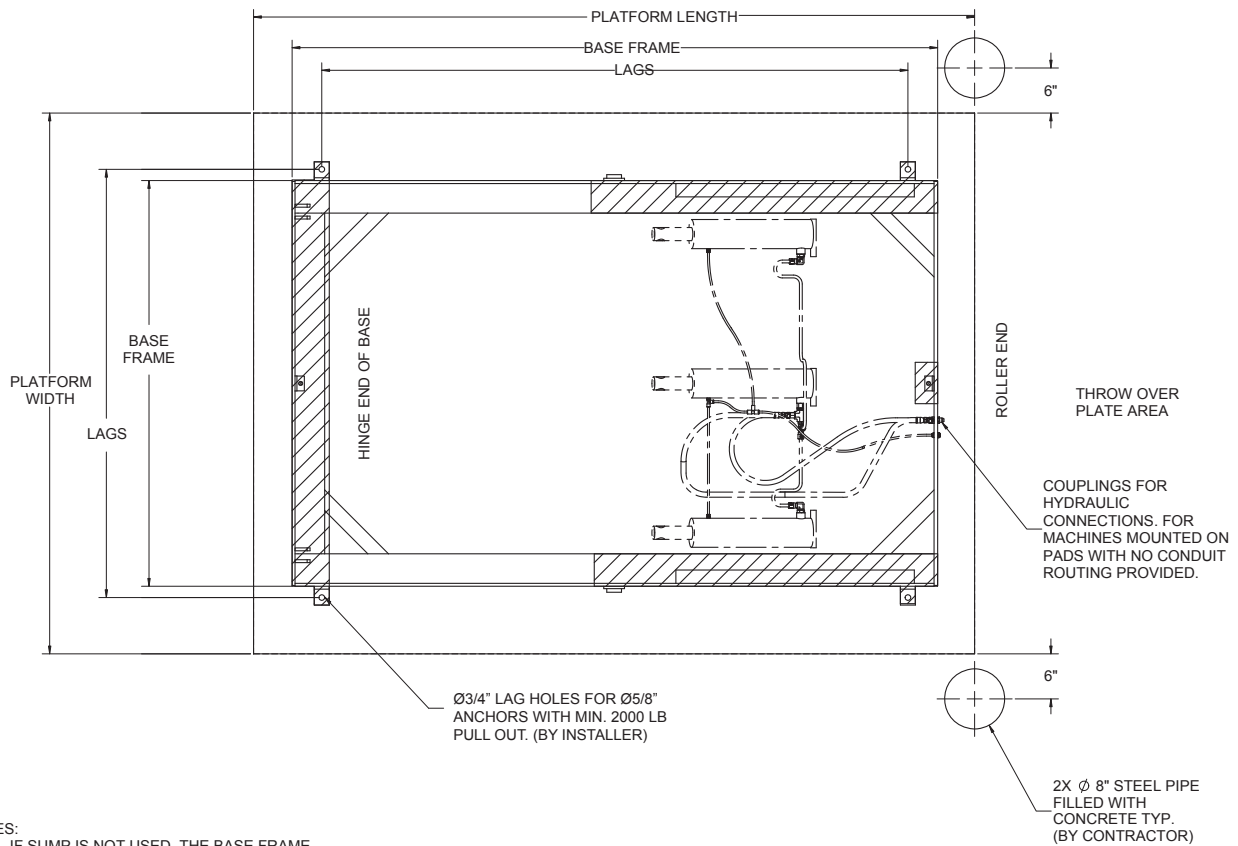
NOTES:

- CROSS HATCHING INDICATES AREAS OF BASE FRAME THAT MUST BE SHIMMED AND/OR GROUTED AFTER LEVELING OF THE BASE FRAME TO ENSURE PROPER BASE FRAME SUPPORT.
- CONDUIT RUN IS RECOMMENDED FOR ROUTING OF HYDRAULIC HOSES AND ELECTRICAL WIRING.
- Ø2" ELECTRICAL CONDUIT USED WHEN 1/2" HYDRAULIC HOSE, VENT LINE, AND ELECTRICAL LEADS ARE TO BE INSTALLED FROM POWER UNIT TO LIFT (BY CONTRACTOR).



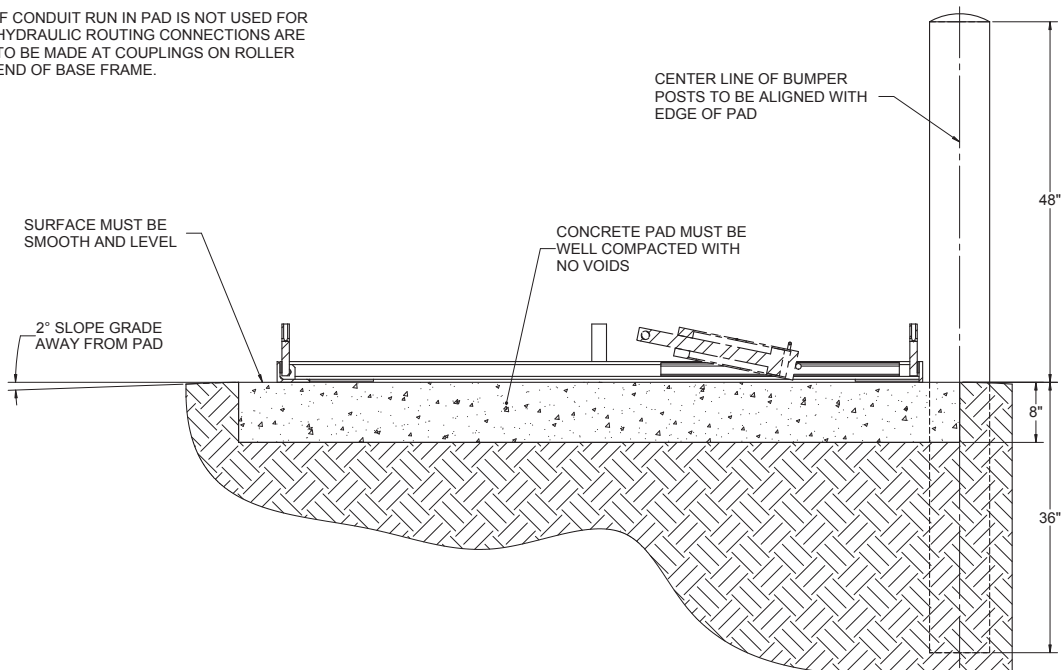
4.5 Alternative Pad Plan

If sump/drain is not used lift will require 1/2" shims under the lag plates to allow proper water drainage. The base frame must be shimmed and/or grouted according to the pad plan to ensure the base frame is properly supported. Hydraulic connections are to be made at the couplings on the roller end of the base frame.



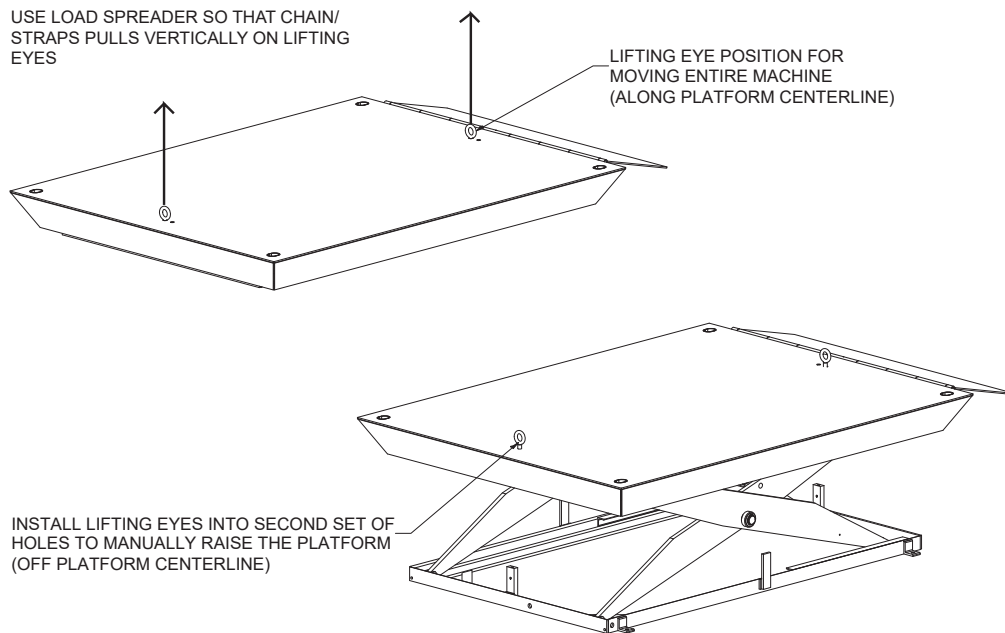
NOTES:

- IF SUMP IS NOT USED, THE BASE FRAME MUST BE RAISED 1/2" TO ALLOW FOR PROPER WATER DRAINAGE.
- CROSS HATCHING INDICATES AREAS OF BASE FRAME THAT MUST BE SHIMMED AND/OR GROUTED AFTER LEVELING OF THE BASE FRAME TO ENSURE PROPER BASE FRAME SUPPORT.
- IF CONDUIT RUN IN PAD IS NOT USED FOR HYDRAULIC ROUTING CONNECTIONS ARE TO BE MADE AT COUPLINGS ON ROLLER END OF BASE FRAME.



4.6 General Installation

1. Attach a chain or lifting strap with an appropriate load spreader to the main lifting eyes. The chain or strap must pull on the lifting eyes vertically.
2. Using an appropriate lifting device, carefully move the machine into position. Lifting device must be capable of supporting up to 4000 lb.



NOTICE

If the hydraulic connectors are accessible, connections can be made and the lift can be powered open using the hydraulic power unit (HPU). See Hydraulic Information section. Skip instructions three and four.

Ensure lifting eyes have been removed completely before attempting to raise the platform when using the HPU.

3. If manually raising the platform of the lift, remove the lifting eyes and install them into the second set of holes. The second set of holes (off platform centerline) have a nut welded to the bottom of the platform and are used to manually raise the platform for access during installation. Reattach the chain or strap.

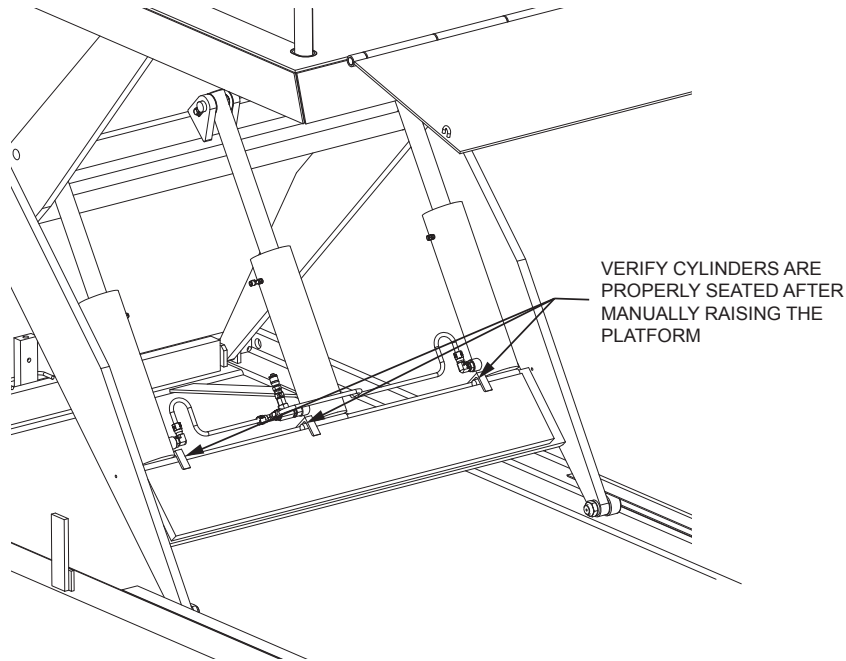
NOTICE

Lifting eyes must be hand tightened only. Over torquing the lifting eyes may cause them to fail.

Lifting eyes must be removed from holes securing the platform to the base frame (holes along platform center line) before attempting to raise the platform.

4. Using the lifting eyes, raise the platform and engage the maintenance device and then lower the platform onto the maintenance device. See [Section 6.1 Maintenance Device on page 24](#). Ensure the roller end of the platform is not lifted off of the upper rollers.

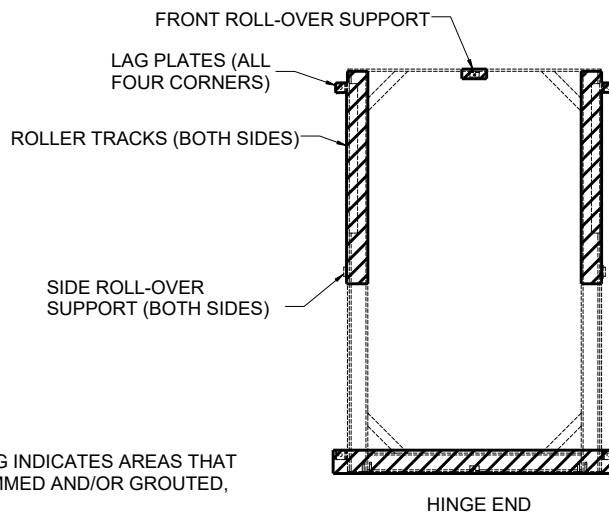
5. Remove the lifting eyes and save them for future use, if needed.
6. Once the platform has been raised and the maintenance device has been engaged, verify the pins at the base of the hydraulic cylinders are properly seated.



7. Ensure the machine is level. If necessary, use shims beneath the lag plates. All load bearing points of the base frame must be fully supported by using grout beneath the base frame.

NOTICE

•
• **An improperly supported base frame can cause excess wear and/or permanent damage to the machine.**
•
•



8. Anchor the machine using appropriate anchors.

9. Clear the hydraulic lines by flushing with compressed air.

NOTICE

Hydraulic lines must be clear of debris before connecting or damage may occur when the unit is powered.

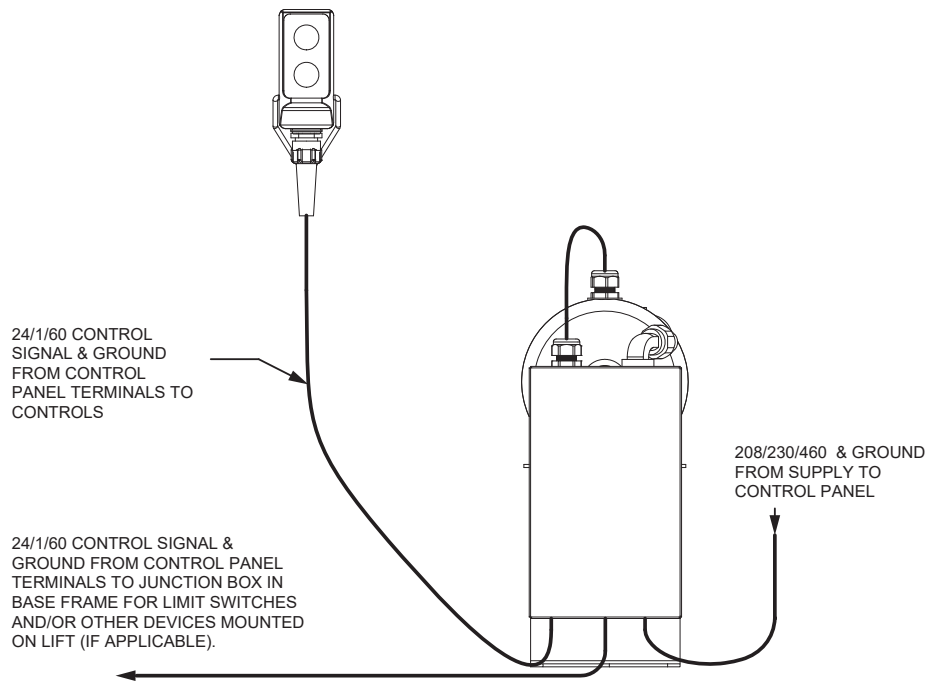
If hoses & electrical wiring are not routed through conduit, hoses and wiring must be protected from damage by other means.

10. Make all hydraulic connections according to the specifications and hydraulic schematic. See Section 9 Hydraulics on page 33.

11. Make all electrical connections according to the specifications and wiring schematic. See Section 8 Electrical on page 31.

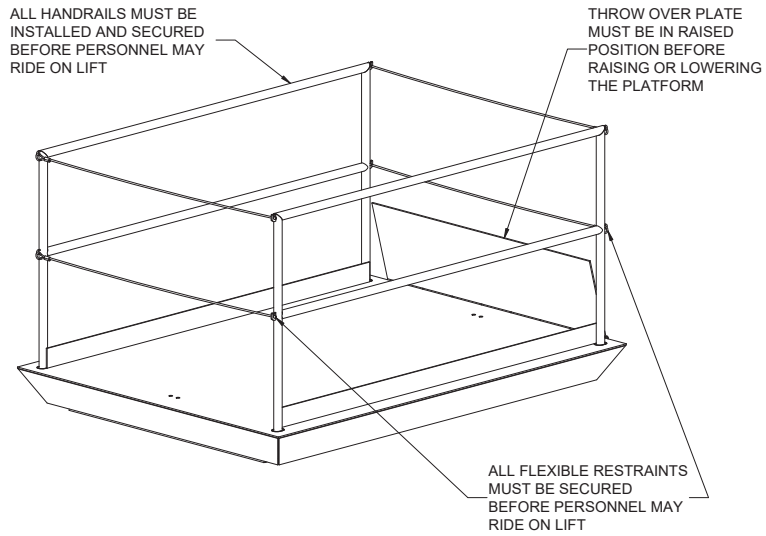
NOTICE

Typical required connections during installation shown here. Note that there can be variations in the configuration of the hydraulic power unit and the control panel, in some cases they are separate. Contact Presto Lifts Customer Service for further assistance.



12. If applicable, install and anchor ramp.

13. Install handrails, flexible restraints and throw-over plate pull cable.



14. Check all hydraulic hoses and connections, wiring and electrical connections, and other components for proper installation and damage.
15. Cycle the lift to test function. If platform does not begin to raise after a few seconds, [See Section 7 Troubleshooting on page 29.](#)

5 OPERATION

Before operating this machine, read and understand this manual. Inspect the machine, electrical and hydraulic components, controls and cords for excessive wear and/or damage. **If excessive wear or damage is found, remove the machine from service and contact maintenance personnel.** Inspect all precautionary labeling. If any label is missing or illegible contact the manufacturer for replacement labels. Ensure area is free of debris.

DANGER

Only authorized, trained and qualified personnel shall operate this machine. Personnel operating this machine must read and understand this manual.

Never enter beneath the platform unless the machine is unloaded and secured against lowering using the maintenance device. [See Section 6.1 Maintenance Device on page 24.](#)

Personnel are not permitted on the platform unless ANSI MH29.1 compliant personnel guarding is provided. Guarding must be installed and operational before use.

Keep hands, feet, and loose clothing away from moving parts during operation.

Verify the area around the machine is clear of debris and/or personnel before operating.

In the event of a malfunction, disconnect and lock-out the machine. Do not return to service until the cause of the malfunction has been determined and remedied.

Always keep power and control cords clear of foot and vehicle traffic during operation.

During operation, operator must be in view of the machine at all times.

When not in use the platform is to be in the fully lowered position.

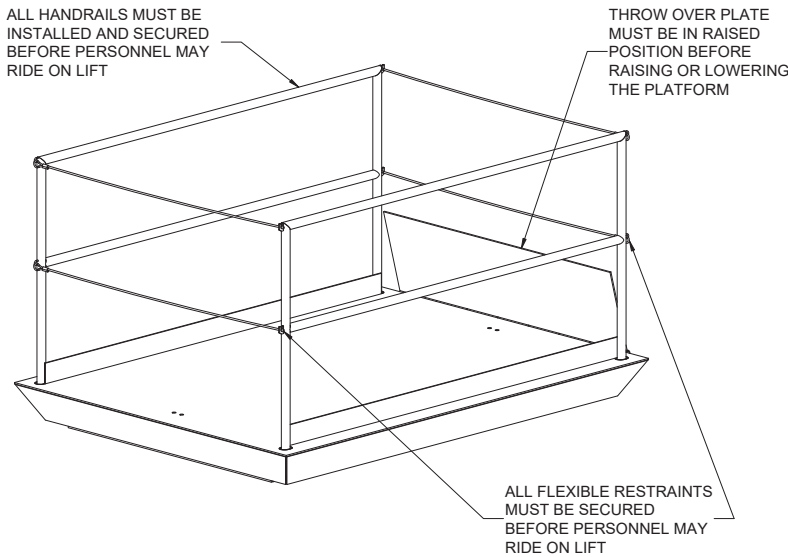
All lifting eyes on the platform used to position the machine must be removed before operating the machine or the machine may be damaged.

The load's center of mass must be centered on the platform. Uneven or off-center loading may cause excessive wear or permanent damage.

For use with two wheel dollies, hand carts, and hand pallet trucks only.

NOTICE

Before raising or lowering, raise throw-over plate(s) to avoid damaging them.



To raise the machine, press and hold the UP button on the controls. Release the button when the platform is at the desired height.

To lower the machine, press and hold the DOWN button on the controls. Release the button when the platform is at the desired height.

5.1 Loading

The Center of Gravity (CG) of all loads must be centered on the platform when lift is in motion. Uneven loading can lead to excessive wear and premature failure. Any regular, uneven loading must be offset by a counterweight installed on the opposite side of the platform. The combined load must not exceed the rated capacity.

CAUTION

Do not load or unload the lift table while moving.

Loads that may shift must be secured before operating.

Do not exceed maximum load capacity of lift table.

 DANGER

High Voltage: Electrical service and installation must be performed by trained and/or qualified personnel. Disconnect and lock out electrical supply before performing any maintenance or repair.

Electric motors create sparks. Do not service the power unit in an area where flammable gases may be present.

Never enter beneath the platform unless the machine is unloaded and secured against lowering using the maintenance device. If unable to engage the maintenance device the platform must be secured against lowering by other means. [See Section 6.1 Maintenance Device on page 24.](#)

All electrical components and the hydraulic power unit must be protected from wet and/or dirty environments unless specifically configured for such environments.

Keep hands, feet, and loose clothing away from moving parts during operation.

Only trained, authorized and qualified personnel shall perform maintenance or repair of this machine. Personnel repairing or maintaining this machine must read and understand this manual.

Pressurized fluids can penetrate skin and cause severe injury or death. Always use proper personal protective equipment when repairing or maintaining pressurized systems. Relieve hydraulic system pressure before performing any maintenance on the hydraulic system.

Pinch points and crush hazards exist when moving and transporting the machine. Do not enter under any equipment while moving or transporting. Keep hands, feet, and loose clothing away from moving equipment.

This machine must be installed on a solid, stable, level surface or machine will be unstable and can lead to injury. Do not install on asphalt or other unstable surface.

⋮
⋮ Do not adjust the hydraulic pressure relief valve. This valve is pre-set, and
⋮ adjustment may cause the machine to fail.
⋮

DANGER

The supplied maintenance device is designed to support the weight of an **UNLOADED** machine only. Failure to remove the load before engaging the maintenance device may result in failure and allow the machine to fall unexpectedly.

If the machine is equipped with a mechanical up limit switch or proximity switch that prevent the platform from raising high enough to engage the maintenance device, it will need to be bypassed to engage the maintenance device.

Proximity switches can be electrically bypassed by placing a jumper wire between the terminals the switch is connected to in the control panel. Remove the jumper wire when maintenance is complete.

Mechanical switches will need to be bypassed by marking the location of the swing arm and removing it from the limit switch. Replace the swing arm in the same location when maintenance is complete.

Before performing any maintenance or repair:

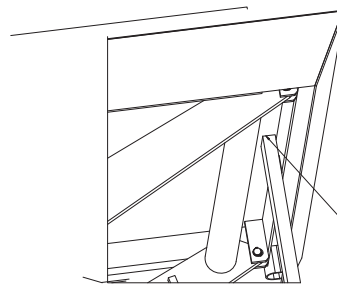
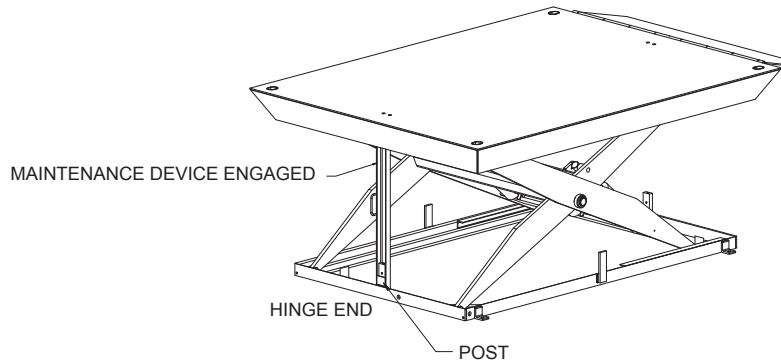
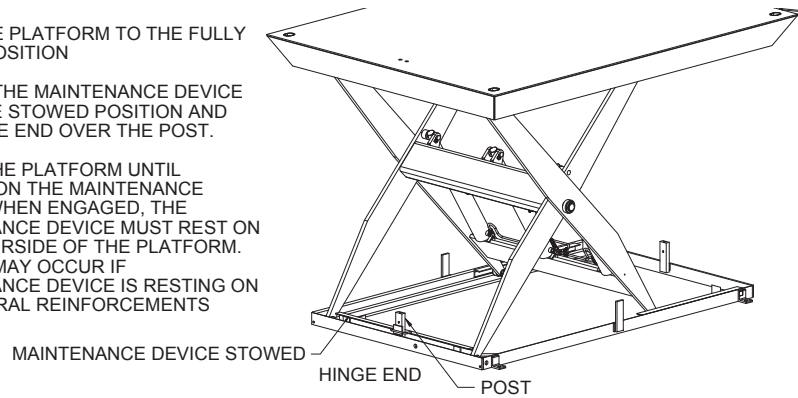
1. Remove any load on the platform of the machine.
2. Verify that all personnel and debris are clear of the work area.
3. Raise the lift to the fully raised position.
4. Engage maintenance device as shown in the diagram.

NOTICE

When engaged, the maintenance device must rest on the underside of the platform. Damage may occur if the maintenance device is resting on the structural reinforcements. Maintenance device to be used on hinge end of machine only.

5. Slowly lower the machine until the weight of the machine is supported by the maintenance device(s). Continue to hold the down button for five to ten seconds after the platform stops to relieve hydraulic system pressure.
6. Disconnect electrical supply and lock out the machine to prevent unintended actuation of the machine.
7. After maintenance or repair is complete, verify all tools, debris, and personnel are clear of the area. Clean up any spills. Re-energize the machine.
8. Raise the machine to the fully raised position.
9. Disengage the maintenance device and stow the maintenance device.
10. Lower the machine to the fully lowered position.
11. Test for proper operation.

1. RAISE THE PLATFORM TO THE FULLY RAISED POSITION
2. REMOVE THE MAINTENANCE DEVICE FROM THE STOWED POSITION AND PLACE THE END OVER THE POST.
3. LOWER THE PLATFORM UNTIL RESTING ON THE MAINTENANCE DEVICE. WHEN ENGAGED, THE MAINTENANCE DEVICE MUST REST ON THE UNDERSIDE OF THE PLATFORM. DAMAGE MAY OCCUR IF MAINTENANCE DEVICE IS RESTING ON STRUCTURAL REINFORCEMENTS



WHEN ENGAGED, THE MAINTENANCE DEVICE MUST REST ON THE UNDERSIDE OF THE PLATFORM. DAMAGE MAY OCCUR IF MAINTENANCE DEVICE IS RESTING ON STRUCTURAL REINFORCEMENTS

Other maintenance device styles may be used. Contact customer service if machine is equipped with a style other than what is shown.

6.2 Periodic Maintenance

Before each use, ensure area is clear of debris and sump/drain is clear and there is no standing water under the lift table. Inspect the machine for excessive wear or damage and ensure all precautionary labeling is legible. Inspect railings, verify flexible restraints and throw-over plate pull cable are in place and in good condition. Verify push button switch and cord are functioning and are not damaged.

6.2.1 Weekly Maintenance

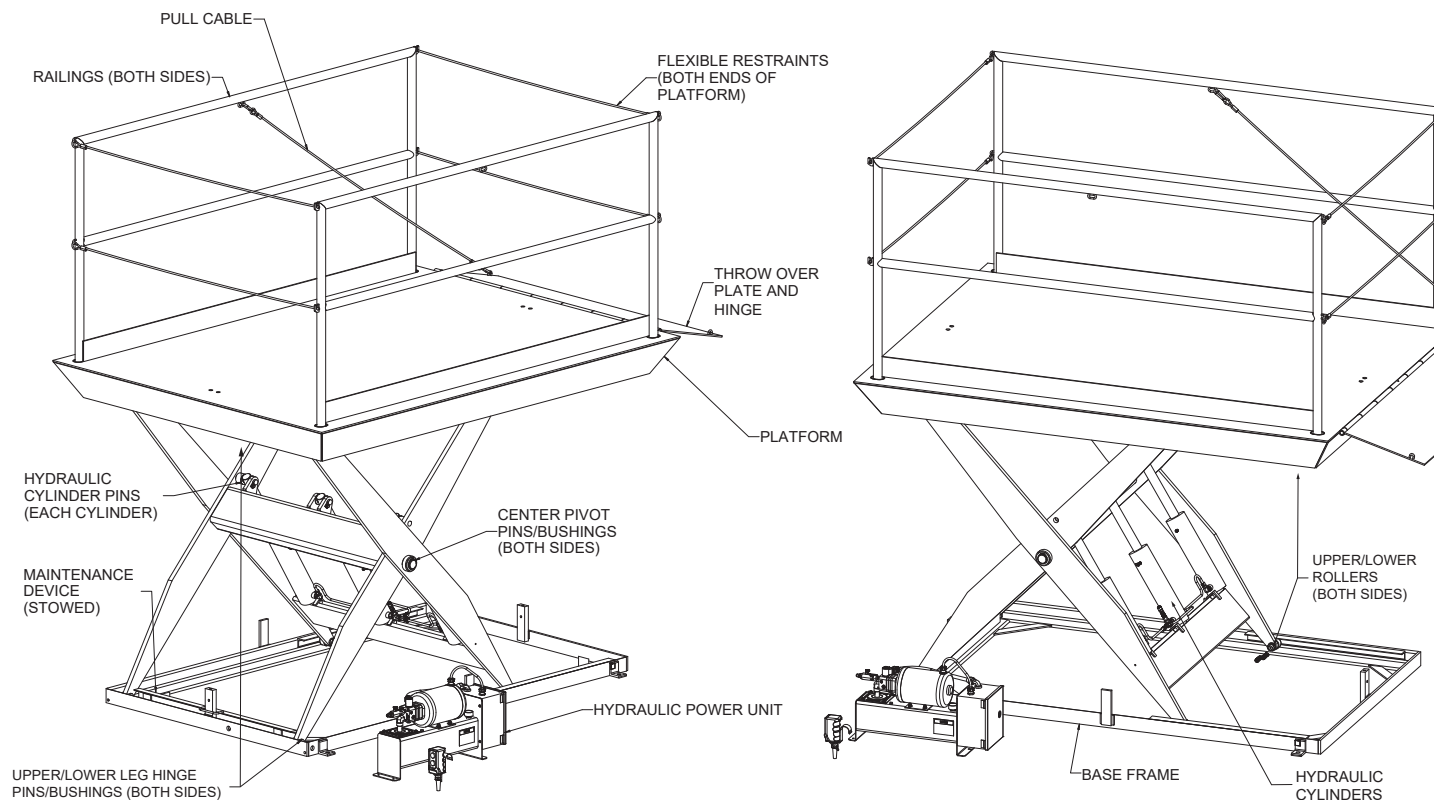
- Inspect leg rollers, center pivot pins and bushings, and leg hinge pins and bushings for excessive wear or damage. Repair or replace as necessary.
- Inspect machine for loose or broken fasteners. Repair or replace as necessary.
- Inspect labeling. If any label is damaged or otherwise illegible contact the manufacturer for replacement labels.

6.2.2 Monthly Maintenance

- Perform Weekly Maintenance.
- Apply a light oil or PTFE lubricant to non-greased pivot points, and rollers
- Apply a generous coating of Industrial High Performance Lubricant with PTFE, BOESHIELD T-9 Rust & Corrosion Protection Waterproof Lubricant or Metaflux 70-81 Titanium Corrosion Inhibitor and Lubricant using a spray can into the throw-over plate hinge pipes. Work the throw-over plate back and forth a few times and spray again if necessary to allow hinge to move satisfactorily. Immediately and completely remove any lubricant residue from the top surface of the throw-over plate(s) and platform to avoid personnel slippage.
- Inspect the appearance of the hydraulic fluid. The fluid should be transparent and clear of debris.
- Inspect all hydraulic hoses and fittings. Repair or replace as necessary.
- Inspect all electrical wiring and connections. Repair or replace as necessary.
- Inspect limit switches, if applicable. Repair, replace, or adjust as necessary.
- Inspect control switches and cord, limit switches, if applicable. Repair, replace, or adjust as necessary.

6.2.3 Semi-Annual Maintenance

- Perform Monthly and Weekly maintenance.
- Inspect the hydraulic cylinder and return line. If excessive fluid exists in the vent line, the cylinder may need to be repacked or replaced.
- Change hydraulic fluid. Clean the suction screen and vent cap. Replace pressure line or return line filter element (if equipped).



6.3 Relieving Hydraulic Pressure

If the machine is operating normally, hydraulic system pressure can be relieved by lowering the platform to the fully lowered position or onto the maintenance device and continuing to hold the down button for five to ten seconds.

If the platform is raised and will not lower:

DANGER

Crush Hazard – Do not enter under the platform.

Remove load before performing any maintenance or repair.

Disconnect and lockout electrical power before performing maintenance or repair.

Failure to securely block the platform from lowering will allow the platform to fall uncontrolled when system pressure is relieved, causing severe injury or death - use only supplied maintenance device. [See Section 6.1 Maintenance Device on page 24.](#)

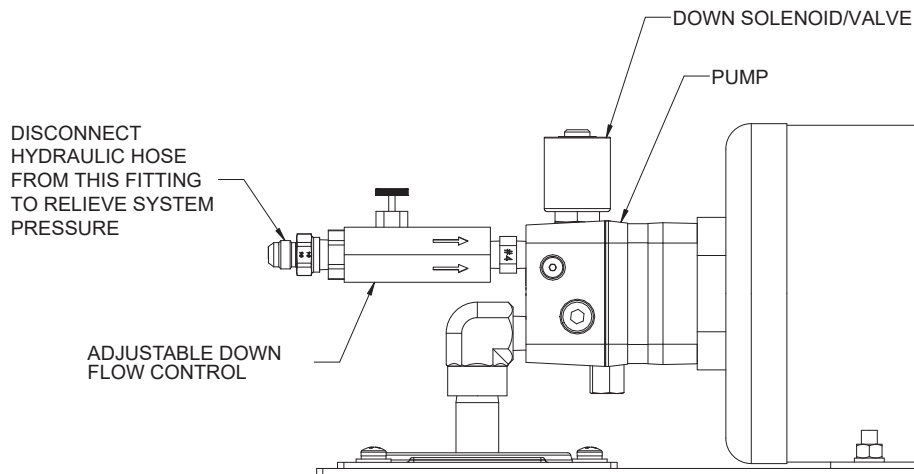
High pressure fluid can cause severe injury or death. Always use proper personal protective equipment when performing any maintenance or repair.

1. Thread the lifting eyes into holes on the platform for manually raising the platform (holes off the center line of the platform). [See Section 4.6 General Installation on page 17. Steps 1 through 6.](#)
2. Attach chains/ straps and load spreader to the lifting eyes.
3. Using an appropriate lifting device, slowly pull the chains/straps until they are taught and will support the platform when hydraulic pressure is relieved. If the platform is not in the fully raised position, continue to pull the platform up until it reaches the fully raised position. Use a 4,000 lb. capacity device to perform this function.

NOTICE

•
• **When lifting the platform by the lifting eyes, ensure cable/chain/straps pull vertically on the lifting eyes.**
•
•

4. Ensure platform is secured and will not fall as hydraulic pressure is relieved.
5. Carefully and slowly loosen the hydraulic fitting on the input side of the adjustable flow control shown in the diagram to relieve system pressure. Use an appropriate clean container to catch hydraulic fluid in the hoses. Use an oil absorbent material to clean up any spills. Uncontaminated fluid can be reused.



6. Engage the maintenance device. [See Section 6.1 Maintenance Device on page 24.](#)
7. Slowly lower the platform until resting on the maintenance device.

6.4 Replacement Parts

Presto Lifts has carefully chosen the components in your lift to be the best available for the purpose. Replacement parts should be identical to the original equipment. Presto Lifts will not be responsible for equipment failures resulting from the use of incorrect replacement parts or from unauthorized modifications of the machine.

Presto Lifts will gladly supply you with replacement parts for your Presto Lifts equipment. With your order, please include the model number and the serial number of the lift. You can find these numbers on the name plate, which is located on the crossbar at the base of the cylinder(s). When you are ordering parts for a cylinder, also include the cylinder number. This is stamped on the base of the cylinder housing.

To order replacement parts, please call the Parts Department. [See Section 10 Warranty & Contact Information on page 37.](#) Parts are shipped subject to the following terms:

- FOB factory
- Returns only with the approval of our parts department.
- Payment net 30 days (except parts covered by warranty).
- Freight collects (except parts covered by warranty).
- The warranty for repair parts is 30 days from date of shipment.

Parts replaced under warranty are on a “charge-credit” basis. We will invoice you when we ship the replacement part, then credit you when you return the worn or damaged part, and we verify that it is covered by our warranty. Labor is not covered under warranty for Parts orders.

7 TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CHECK
Lift will not raise	Load too heavy	Make sure the load does not exceed the rated capacity.
	Power unit not receiving power	Verify that the power unit is receiving power. See Section 8 Electrical on page 31.
	Hand controls may be malfunctioning or may not be receiving power	Verify that the controls are receiving power and are functioning correctly. See Section 8 Electrical on page 31.
	Motor contactor may be malfunctioning	Verify motor contactor is functioning. See Section 8 Electrical on page 31.
	Motor may be turning in wrong direction	Swap any two phases of the motor power leads.
	Hydraulic Fluid low	With lift in fully lowered position the fluid level should be approximately 3/4" from the top of the tank.
	Lift has reached it upper limit	Upper limit switch may need to be adjusted.
	Motor voltage too low	Supply voltage must be $\pm 10\%$ of the rated voltage at the motor terminals.
	Tank vent plugged	Make sure vent plug on hydraulic tank is installed and not blocked.
	Suction filter is clogged	Clean suction filter.
	Vacuum leak in the suction line	Check all fittings and hoses for damage or loose connections.
	Down valve may be energized	Check for voltage to down valve solenoid, should be no voltage present.
	Missing coupling between motor and pump (if applicable)	Check to make sure the coupling between the pump and motor has been installed. (Machines manufactured before September 2012).
	Pressure relief valve is activated	If there is a loud squealing noise the pressure relief valve may be activated. Contact Presto Lifts Customer Service for further assistance.
External Hydraulic leak	Inspect all hoses, connections, and cylinders for leaks.	

PROBLEM	POSSIBLE CAUSE	CHECK
Lift fails to hold (Drifts down)	Down valve may be leaking internally	Remove the down valve and inspect for debris which may be preventing it from closing. Contact Presto Lifts Customer Service for procedure.
	Down valve may be energized	Check the solenoid with a voltmeter.
	Cylinder(s) may be leaking	Check for fluid leaks. (i.e. excess fluid in the vent lines or fluid on the ground.)
Lift will not lower	Down valve may not be energized	Check for power to the down valve solenoid with a voltmeter while pressing the down button.
	Down Flow control may need to be adjusted	Adjust down flow control as needed.
Lift raises too slowly	Voltage may be low	Check voltage at motor. Supply voltage must be $\pm 10\%$ of the rated voltage at the motor terminals.
	Suction filter, breather cap, or pressure line may be clogged	Remove necessary components and clean.
Lift lowers too slowly	Down valve may not be fully opening or may be partially blocked or stuck closed	Remove the down valve and clean. Verify proper voltage present. Contact Presto Lifts Customer Service for procedure.
	Down Flow control may need to be adjusted	Adjust the down flow control as necessary.
Lift lowers too quickly	Down flow control may need adjustment	Adjust down flow control for desired lowering speed.

8 ELECTRICAL

Other motor and hydraulic power unit options are available. If your machine was supplied with a motor other than the one described here, contact the manufacturer for more information.

Control Voltage: 24/1/60

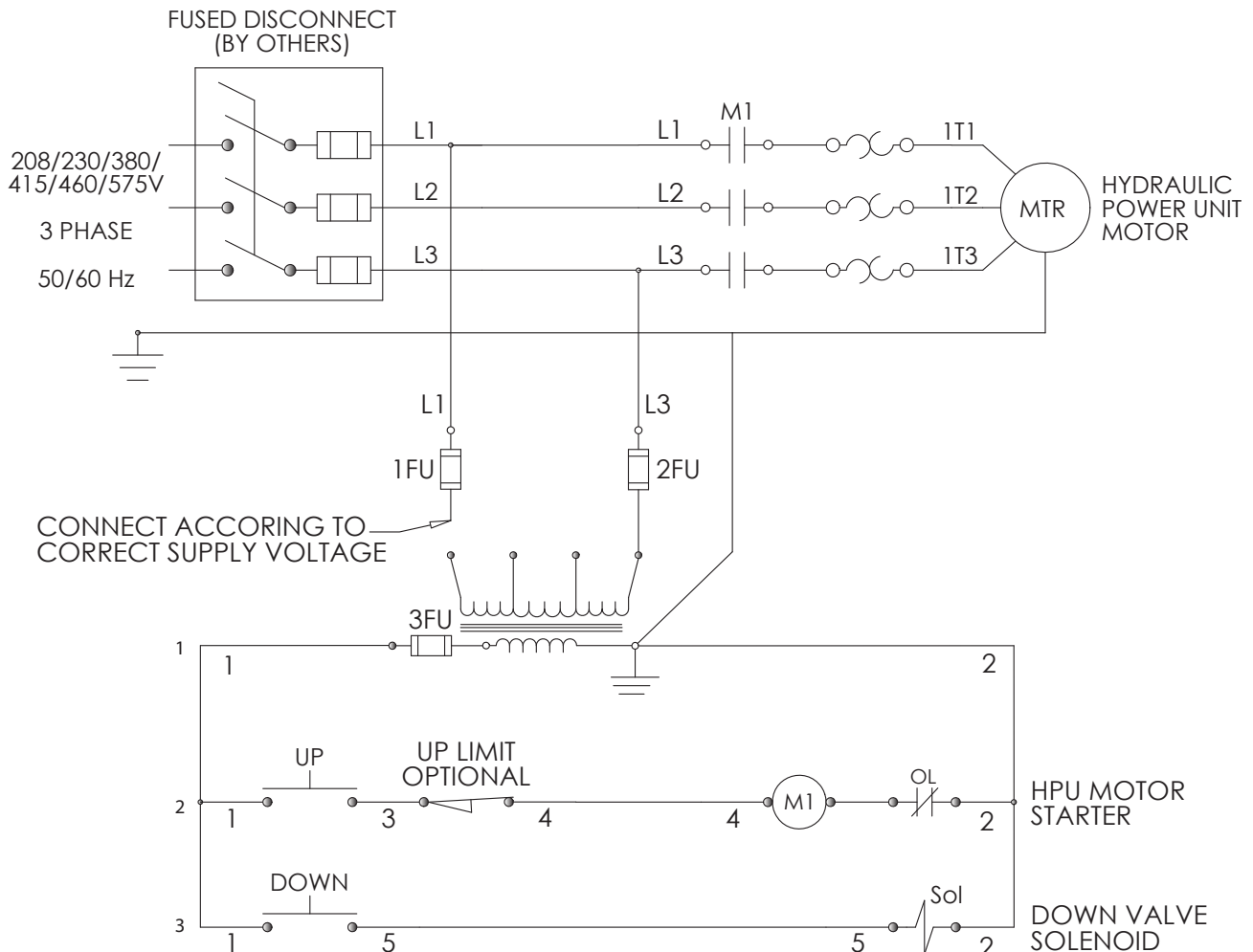
Motor:

3.2 HP

Primary Voltage	Phase	Frequency	Full Load Amp	Required Supply Fusing
460	3	60	4	6 AMP
230	3	60	8	12 AMP
208	3	60	8.4	12 AMP

Changing the primary voltage in the field will require changing some components and also other adjustments, **contact Presto Lifts Customer Service for further assistance.**

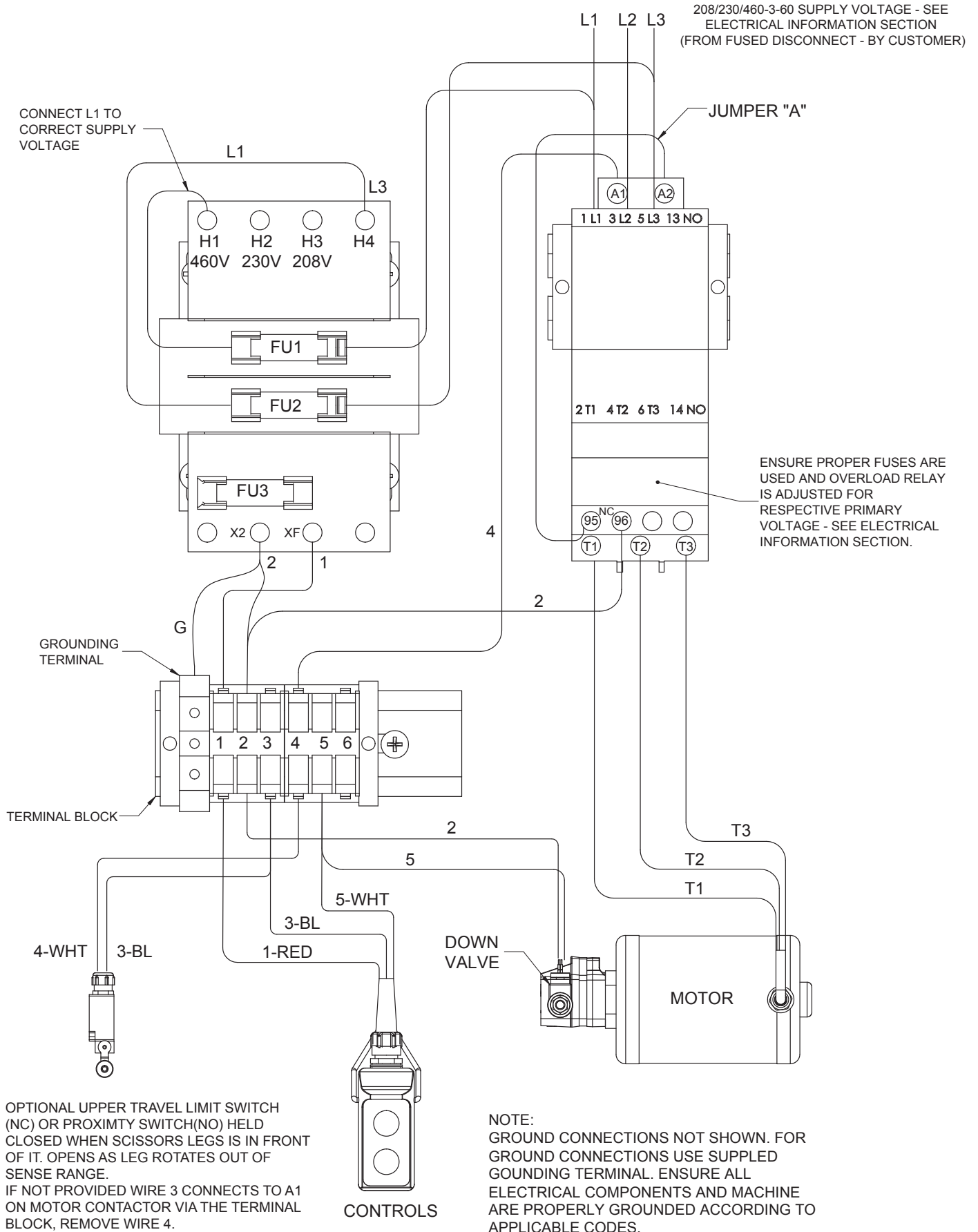
8.1 Wiring Schematic



NOTE:

UP LIMIT SWITCH IS OPTIONAL. IF UP LIMIT SWITCH IS ABSENT, WIRE 3 RUNS DIRECTLY TO THE COIL ON THE MOTOR CONTACTOR.

8.2 Typical Control Panel



9 HYDRAULICS

Note that there can be variations in the configuration of the hydraulic power unit and the control panel. In some cases, they are separate. **Contact Presto Lifts Customer Service for further assistance.**

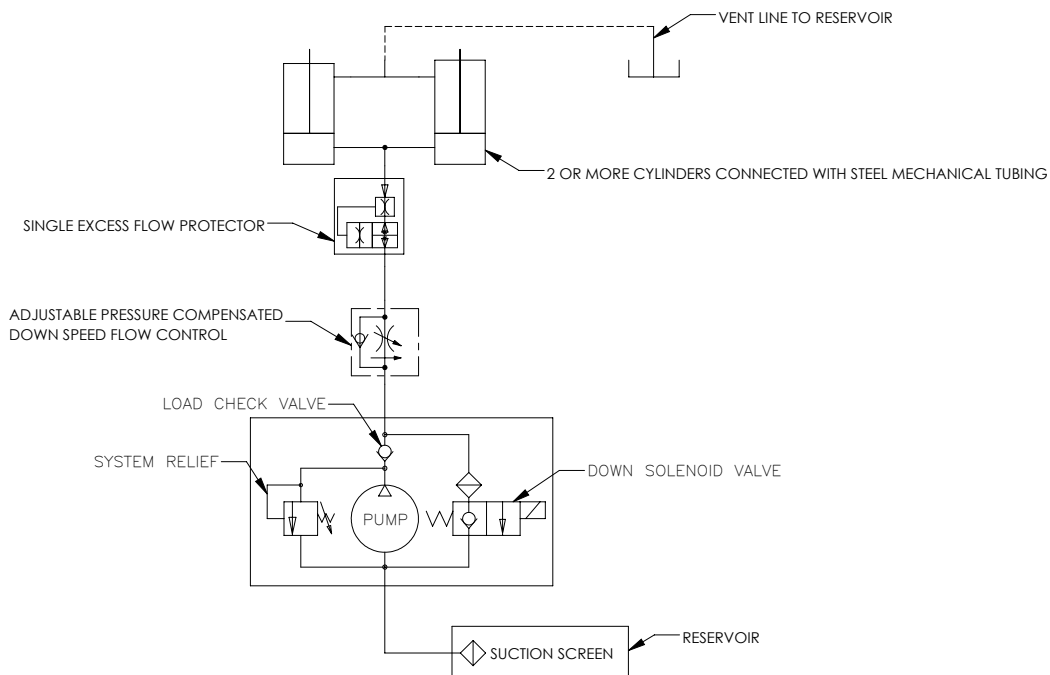
9.1 Hydraulic Fluid

This machine is supplied with Phillips 66 Powerflow NZ Hydraulic Fluid.

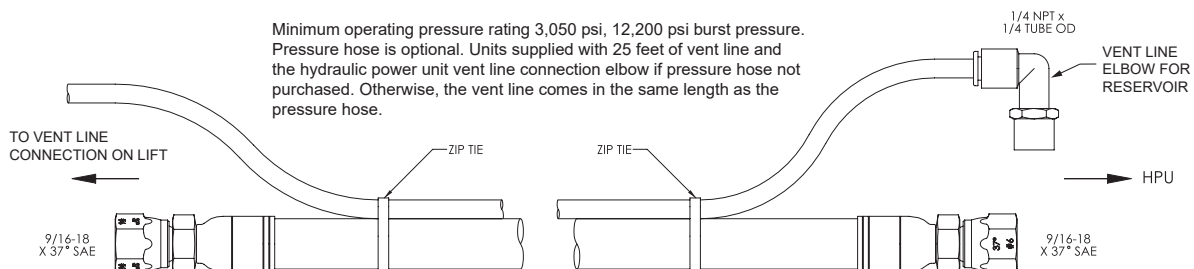
NOTICE

Do not substitute! Though Phillips 66 Powerflow NZ Hydraulic Oil is compatible with most oils containing Zinc, mixing will result in poor machine performance, could damage hydraulic components, and will lessen the environmental benefits gained by using Phillips Powerflow NZ Hydraulic Oil.

9.2 Typical Hydraulic Schematic

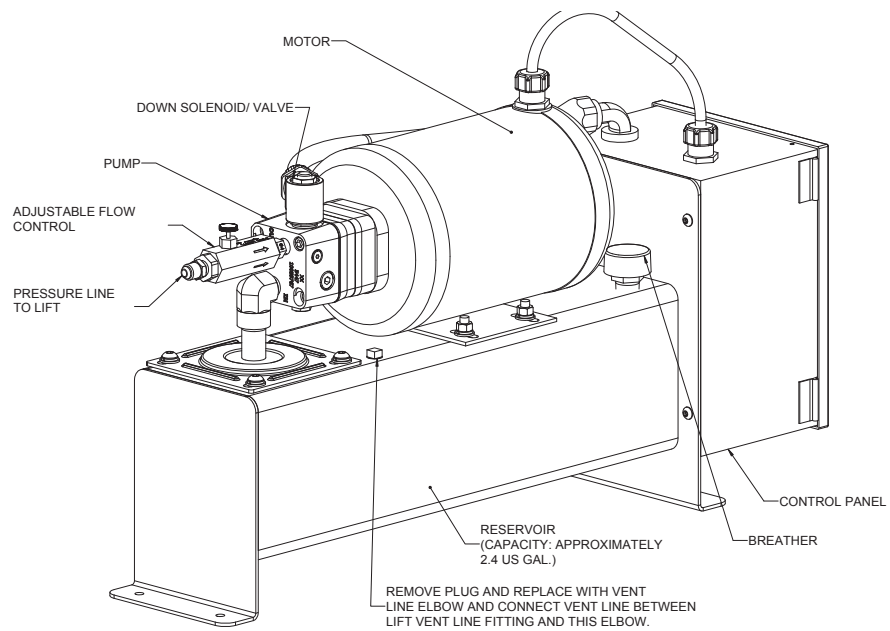


9.3 Hose Specifications



9.4 Typical Hydraulic Power Unit

Note that there can be variations in the configuration of the hydraulic power unit and the control panel. In some cases, they are separate. **Contact Presto Lifts Customer Service for further assistance.**

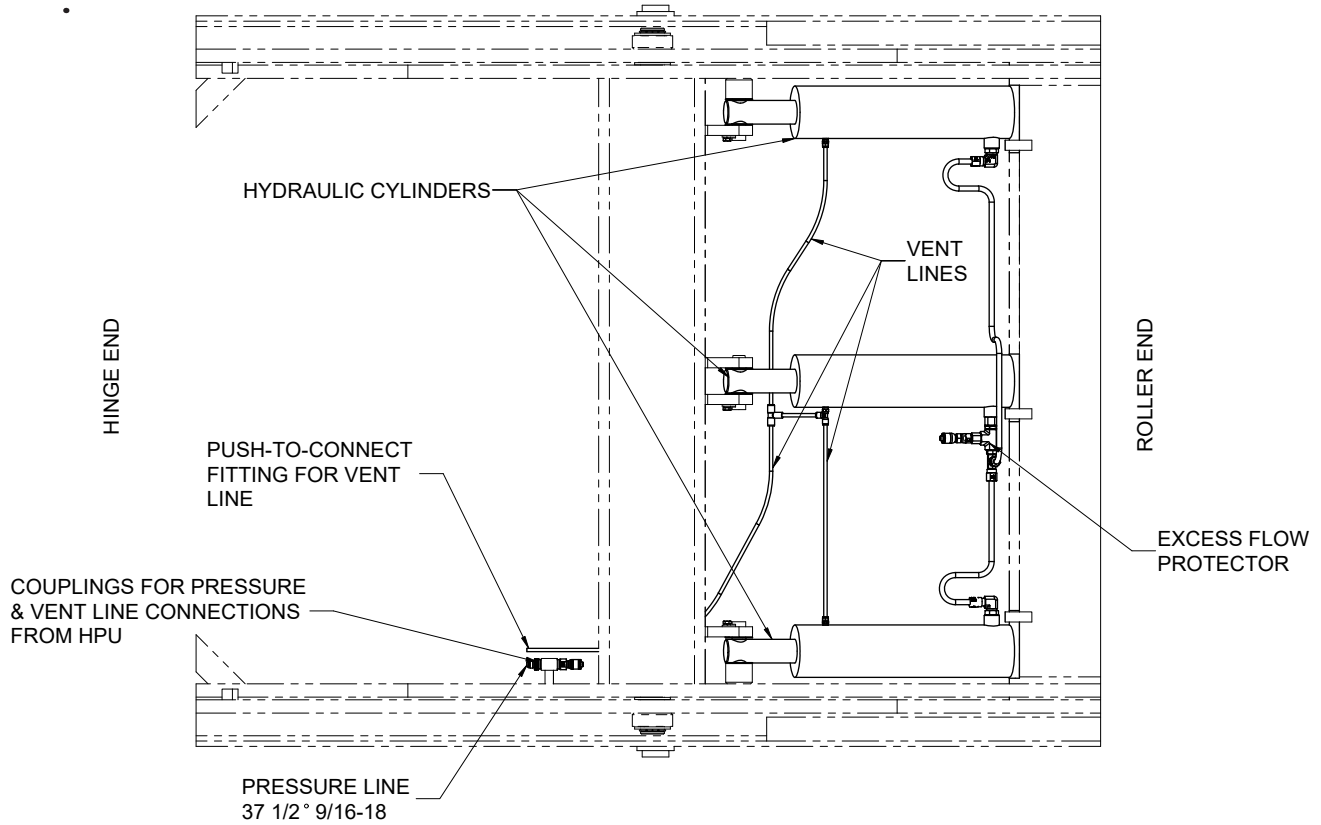


9.5 Hydraulic Arrangement

9.5.1 Standard Hydraulic Arrangement

NOTICE

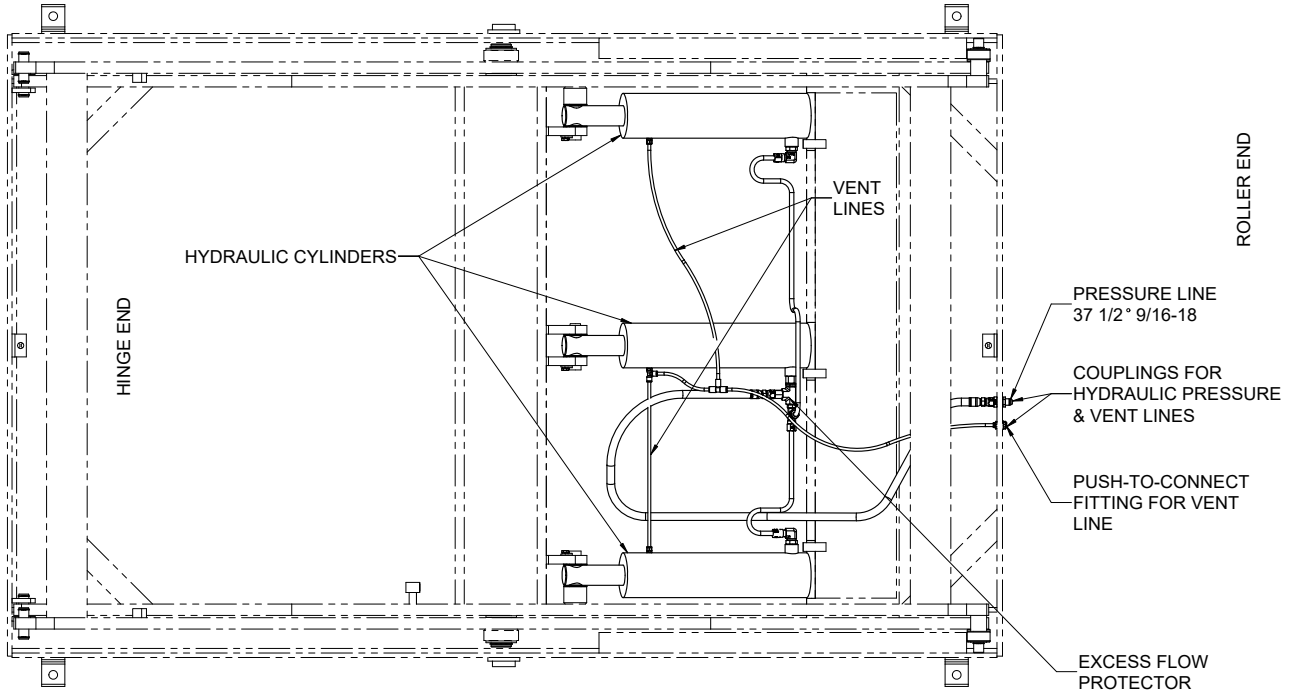
Applicable when machine is installed in a pit/pad WITH an under-lift conduit run for routing hydraulic hoses and electrical wiring.



9.5.2 Alternative Hydraulic Arrangement

NOTICE

Applicable when machine is installed on a pad **WITHOUT** an under-lift conduit run for routing hydraulic hoses and electrical wiring.



10 WARRANTY & CONTACT INFORMATION

Presto Lifts warrants this product to be free from defects in material or workmanship for the duration of the warranty period. Warranty periods vary and begin on the date of shipment. For specific warranty information, contact Presto Lifts with the machine's serial number.

Any claim for breach of this warranty must be received in writing by Presto Lifts within the warranty period. Warranties shall not cover failure or defective operation, caused by misuse, misapplication, negligence or accident, exceeding recommended capacities, or any alteration or repair of the item purchased which has not been authorized by Presto Lifts. Except as set forth herein, Presto Lifts makes no other warranties, express or implied, including THE WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, all of which ARE HEREBY EXCLUDED.

Presto Lifts meets the labeling requirements of California's Proposition 65. Presto Lifts makes no warranty or representation with respect to the compliance of any product with other State or local safety or product standard codes and any failure to comply with such codes shall not be considered a defect of material or workmanship under this warranty. Presto Lifts shall not be liable for any direct or consequential damages arising out of such non-compliance.

Presto Lifts' obligations under any warranty or for any other damages which may arise under any sale, agreement, or contract, are limited to the replacement or repair of defective components at its factory or another location at Presto Lifts' discretion. This is buyer's sole remedy under any such warranty, sale, agreement, or contract. Presto Lifts will not be liable for consequential, incidental, exemplary, or punitive damages of any kind resulting from a breach of any warranty that it has provided or for breach of any term of any sale, agreement, or contract. Any warranty may be altered only in writing by Presto Lifts.

All commodities, software, or technology purchased from Presto Lifts are subject to the export and re-export control laws and regulations of the United States, including but not limited to the Export Administration Regulations ("EAR") and Department of the Treasury Office of Foreign Asset Controls ("OFAC") Regulations. Presto Lifts expects all distributors and customers to comply with these laws and regulations. Without limiting the foregoing, the distributor/customer cannot, without proper authorization from the applicable United States Government Agency, export, re-export, or transfer any commodity, software, or technology purchased from Presto Lifts, either directly or indirectly, to any entity, country, or national of any country in breach of such laws and regulations. Furthermore, Presto Lifts expects that the distributor/customer shall indemnify and hold harmless Presto Lifts from and against any claim, proceeding, action, fine, loss, cost and damages arising out of or relating to any noncompliance with export control regulations by distributor/customer, and distributor/customer are expected to compensate Presto Lifts for all losses and expenses resulting thereof, unless such noncompliance was clearly not caused by fault of the distributor/customer.

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