V.I.P Vert-I-Pack

Untouchable FL and RL, 4CY VIP FL, 6CY VIP FL, 8CY VIP FL, 4CY VIP RL , 6CY VIP RL

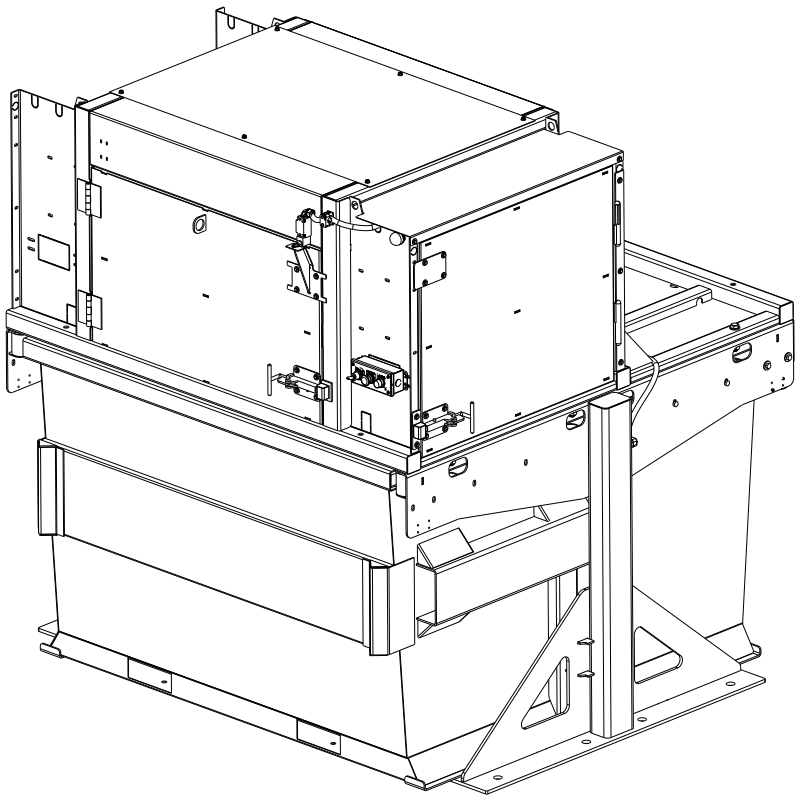
OPERATION, SERVICE, AND INSTALLATION

ISSUED SEPTEMBER 2026

CUSTOMER NAME: _____

SERIAL NUMBER: _____

COMPACTION & RECYCLING SOLUTIONS **0020-VIP-0926**



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Environmental Solutions
201 W. Main Street, Ste 300
Chattanooga, TN 37408
Marathon Customer Care: 1.800.633.8974

⚠ WARNING

IF INCORRECTLY USED, THIS EQUIPMENT CAN CAUSE SEVERE INJURY. THOSE WHO USE AND MAINTAIN THE EQUIPMENT SHOULD BE TRAINED IN ITS PROPER USE, WARNED OF ITS DANGERS, AND SHOULD READ AND FULLY UNDERSTAND THIS ENTIRE MANUAL BEFORE ATTEMPTING TO SET UP, OPERATE, ADJUST OR SERVICE THE EQUIPMENT. KEEP THIS MANUAL FOR FUTURE REFERENCE

IMPORTANT SAFETY NOTICE

Proper service and repair are important to the safe, reliable operation of the Marathon Equipment Company products. Service procedures recommended by Marathon Equipment Company are described in this Operation, Service, and Installation Manual and are effective for performing service operations. Some of these service operations may require the use of tools or blocking devices specially designed for the purpose. Special tools should be used when and as recommended. It is important to note that some warnings against the use of specific methods that can damage the product or render it unsafe are stated in the service manual. It is also important to understand these warnings are not exhaustive. Marathon Equipment Company could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each method. Consequently, Marathon Equipment Company has not undertaken any such broad evaluations. Accordingly, anyone who uses service procedures or tools which are not recommended by Marathon Equipment Company must first satisfy himself thoroughly that neither his safety nor the product safety will be jeopardized by the method he selects.

TABLE OF CONTENTS

GENERAL INFORMATION **1**
Introduction 2
Preface 3
Hazard Symbols & Definitions 4
Lock-Out/Tag-Out Instructions 5
Instructions *5*
Restoring Service *6*
Specifications 7
Configurations 7
VIP Untouchable Configuration *7*
VIP Untouchable Specifications *8*
VIP 4/6/8 - Configuration *10*
VIP 4/6/8 - Specifications *11*
VIP 4RL - Specifications *13*
VIP 6RL - Specifications *15*
Decal Care 17
Electrical Symbols 19
Hydraulic Symbols 21
INSTALLATION **24**
General Requirements 25
Concrete Pad *25*
Asphalt Pad *25*
Decals *25*
Anchoring Requirements 26
Concrete *26*
Asphalt *26*
Through-the-Wall Chute Installation 27
Rear Feed *27*
Rear-Load *28*
Side Feed *29*
Untouchable Unit *30*
Electrical & Hydraulic Installation 31
Electrical Connections *31*
Pushbutton Control Station *31*
Emergency Stop Buttons *31*
Hydraulic Connections *31*
Installation Start-Up 32
OPERATION **33**
Operator Controls 34
Standard & Untouchable Unit *34*
Operating Instructions 35
Standard and Untouchable Unit *35*
HAULER INFORMATION **36**
VIP 4/6/8 Front Load 37
Standard & Untouchable Unit *37*
SERVICE **40**
Component Locations 41
Lubrication Diagram 42
Limit Switch Adjustment (Top) 43

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TABLE OF CONTENTS

Additional Safety Guidelines *43*
Limit Switch Adjustment (Midpoint) 44
Additional Safety Guidelines *44*
Interlock Switch Adjustment & Testing 45
Adjustment *45*
Testing *45*
Container Interlock Adjustment 46
REPLACEMENT PARTS 47
Bolt Kit For Replacement *48*
Rear Cover Assembly *49*
Shelf Assembly *50*
Head Assembly *51*
Ram Assembly *52*
Fixed Leg/Post Assembly 4/6/8 ..... *52*
Fixed Leg/Post Assembly FL Untouchable *53*
Fixed Leg/Post Assembly RL Untouchable *53*
Power-Pack Door Assembly *54*
Feed Door Assembly *55*
Head Cover Assembly *56*
Hydraulics & Electrical *57*
Extended Shelf & Support Tube Assembly (For RL VIP) *58*
Container Lock Assembly (For RL VIP) *59*
VIP Lock (For 4/6/8 FL VIP) *60*
Fixed Leg/Post Assembly 4 / 6 CY RL *61*
MAINTENANCE 62
Periodic Maintenance 63
Daily (or every 8 hours of operation) *63*
Weekly (or every 40 hours of operation) *63*
Monthly (or every 160 hours of operation) *63*
Grease Lubricant Recommendation *63*
Quarterly (or every 500 hours of operation) *64*
Annually (or every 2000 hours of operation) *64*
Recommended Oils *64*
Hydraulic System Pressure Setting 65
Cylinder Replacement 66
Principles Of Operation 67
Standard & Untouchable Unit *67*
Electrical Charts 68
Fuses and Circuit Breakers *68*
Wire Sizes *68*
Motor Starters and Heater Elements *68*
Decals 69
Warning Decal Requirements *69*
Decal Part Numbers *69*
Decal Images 70
Decal Placement 71
Standard & Untouchable Unit *71*
Untouchable Unit Front Load *72*
Untouchable Unit Rear-Load *73*

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TABLE OF CONTENTS

Decals....74
Decal Part Numbers E/S....74
Decal Part Numbers E/F....75
Electrical Layout....76
Panel Box....76
Hydraulic Layout....77
Standard & Untouchable Unit....79
Hydraulic Schematic....81
PLC Maintenance....82
PLC Control Layout....82
LCD Description....82
Program Run/Stop Selection....83
EPROM Memory Transfer....84
Setting The Timer....85
Clear Fault And Start Program....86
Fault List....87
Converting To Opposite Feed....88
Converting To Front / Rear Feed For VIP 4/6/8....88
Converting To Front / Rear Feed For Untouchable FL/RL VIP....89
Converting For VIP 4/6/8 to Front / Rear Feed To Side Feed....90
Converting Standard Power-Pack Location To Door-Hinged-Opposite (DHO)....92
Procedure For The Trash Room Unit Installation With Low Ceiling Height....94
Header Removal & Re-installation....94
Troubleshooting....96

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SECTION 1
GENERAL INFORMATION

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INTRODUCTION

This product is designed to give you reliable service and superior performance for years to come. The purpose of this manual is to provide the owner and/or operators with the necessary information to properly and safely install, operate, and maintain the equipment. Also included are sections regarding troubleshooting and service procedures. The manual is not intended as a primary training source, but as a reference guide for authorized, trained personnel. Each person involved in the operation, maintenance, and installation of the machine should read and thoroughly understand the instructions in this manual and follow ALL warnings.

Employers involved in the operation, maintenance, and installation of the equipment should also read and understand the most current version of the following applicable standards:

ANSI Standard No. Z245.2, "Stationary Compactors Safety Requirements"

A copy of this standard may be obtained from ANSI (www.ansi.org)

OSHA Standards – 29 CFR

Refer to www.osha.gov for details:

- **Part 1910.147:** "The Control of Hazardous Energy (Lock-Out/Tag-Out)"
- **Part 1910.212:** "Machinery and Machine Guarding: General Requirements For All Machines"
- All other applicable OSHA Standards

ANY SERVICE OR REPAIR INSTRUCTIONS CONTAINED IN THIS MANUAL SHOULD BE PERFORMED BY FACTORY AUTHORIZED PERSONNEL ONLY.

If you should need further assistance, please contact your distributor. You will need to provide the equipment serial number, installation date, and electrical schematic number to your distributor.

If you have any safety concerns with the equipment, or need further information, please contact us at:

1-877-258-1105 or:

Marathon Equipment Company Attn: Field Service Department P.O. Box 1798

Vernon, AL 35592-1798

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PREFACE

The following sections are a guide for maintenance and service of the Marathon Equipment Company unit. The sections cover preventive maintenance, adjustment, and troubleshooting hints. Before performing maintenance, check the work area carefully to find all the hazards present and make sure all necessary safeguards or safety devices are used to protect all persons and equipment involved. In order to diagnose a problem quickly and effectively, a service person must be thoroughly familiar with the machine. This Operation, Service, and Installation Manual explains the system and its major components. Diagrams and schematics of the electrical and hydraulic systems are in the Service Section.



IMPORTANT!

- Before starting any maintenance, study this section of the manual.
- Read all hazard warnings and decals on the unit.
- Clear the area of other persons before performing any maintenance.
- Know and understand safe use of all controls.
- It is your responsibility to understand and follow manufacturer’s instructions on equipment and care.

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HAZARD SYMBOLS & DEFINITIONS

Listed below are the definitions for the various levels of hazards. It is important that the operators of this equipment and people who service units read and understand all warnings as they relate to this equipment operation.

⚠ DANGER

DANGER – indicates an imminently hazardous situation, which WILL result in SERIOUS INJURY or DEATH if you don't follow proper instructions.

⚠ WARNING

WARNING – indicates an imminently hazardous situation, which COULD result in SERIOUS INJURY or DEATH if you don't follow proper instructions.

⚠ CAUTION

CAUTION – indicates an imminently hazardous situation, which will result in MINOR to MODERATE INJURY if you don't follow proper instructions.

NOTICE

NOTICE – means unit or other property may be damaged if these instructions are not followed.

You must read and obey all warnings in any manual produced by Marathon Equipment Company to support your unit.

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LOCK-OUT/TAG-OUT INSTRUCTIONS

⚠ DANGER



Before entering any part of the compactor, be sure that all sources of energy have been shut off, all potential hazards have been eliminated, and the compactor is locked-out and tagged-out in accordance with OSHA and ANSI requirements. SERIOUS INJURY or DEATH will occur.

The specific Lock-Out/Tag-Out instructions may vary from company to company (i.e. multiple locks may be required, or other machinery may need to be locked-out and tagged-out). The following instructions are provided as minimum guidelines.

Instructions

1. Notify all affected employees that servicing or maintenance is required on the compactor and that the compactor must be shut down and locked out to perform the servicing or maintenance.
2. Perform a hazard assessment;
   a. The authorized employee shall refer to the company procedure to identify the type and magnitude of the energy that the compactor utilizes, shall understand the hazards of the energy, and shall know the methods to control the energy.
3. Wear proper personal protective equipment.
4. If compactor is operating, it must be shut down by the normal stopping procedure. If the ram is pressing against a load, move the ram rearward before shutting the compactor down.
5. De-activate the energy isolating device(s) so that compactor is isolated from the energy source(s).
   a. Shut down all power sources.
   b. Move the main disconnect lever to the OFF position.
6. Lock-Out the energy isolating device(s) with assigned individual lock(s).
   a. Padlock the disconnect lever with a keyed padlock and take the key with you.
   b. Along with the padlock, place an appropriate, highly visible, warning tag on the disconnect lever. The tag should provide a warning such as:

      “Danger: Do not operate equipment. Person working on equipment.” or

      “Warning: Do not energize without the permission of _____.”
   c. Place operating components in such a position so as not to be subject to possible free fall and/or install additional blocking devices to prevent this potential for any raised or elevated component.
7. Stored hydraulic energy must be removed from the compactor hydraulic circuit for complete Lock-Out/Tag-Out. Make sure that this energy has been relieved by manually depressing the solenoid valve pin located in the center of each coil end of the directional control valve.
8. After locking and tagging the compactor, ensure that the compactor is disconnected from the energy source by first checking that no personnel are exposed, then verify the isolation of the equipment by operating the push button or other normal operating control(s) or by testing to make certain the equipment will not operate. Try to start and operate the compactor (as outlined in the Operating Instructions) to make sure the Lock-Out/Tag-Out is effective. If the Lock-Out/Tag-Out is effective, remove the key from the key switch and take it with you.
9. Before entering compactor perform hazard assessment for confined space requirements (hazardous fumes, dust, toxic material, or other hazards) per the OSHA confined space standard.
10. The compactor is now locked out.

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LOCK-OUT/TAG-OUT INSTRUCTIONS

Restoring Service

When the servicing or maintenance is completed and the compactor is ready to return to normal operating condition, the following steps shall be taken:

1. Check the compactor and the immediate area around the compactor to ensure that nonessential items have been removed and that the compactor components, guards and covers are operationally intact.
2. Check the work area to ensure that all employees have been safely positioned or removed from any hazardous area.
3. Verify that the controls are in neutral.
4. Remove the Lock-Out devices and re-energize the compactor.

NOTICE

The removal of some forms of blocking may require re-energizing of the compactor before safe removal. Unit or other property may be damaged if these instructions are not followed.

5. Notify affected employees that the servicing or maintenance is completed and the compactor is ready for use.
6. Reassess area to determine all hazards are protected.

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SPECIFICATIONS

Clear Opening	23.5” x 46” (597 x 1168 mm)
Cycle Time	30 seconds
Total Normal Force	26,400 lbs (117 kN)
Total Maximum Force	30,200 lbs (134 kN)
Electric Motor	3 HP (available in 3/4 HP, 1 PH)
Voltage	3/60/208, 230, 460, 575 1/60/208, 230 1/60/120

CONFIGURATIONS

The Vert-I-Pak compactor is available in a number of configurations:

FRONT LOADER	CONTAINER SIZE
Untouchable VIP - Front load (FF / RF)	2.75 yd^3 (2.1m^3)
4 CY (FF / RF / SF)	4 yd^3 (3.1 m^3)
6 CY (FF / RF /SF)	6 yd^3 (4.6m^3)
8 CY (FF / RF / SF)	8 yd^3 (6.1m^3)

REAR-LOADER	CONTAINER SIZE
Untouchable VIP - Rear-Load (FF / RF)	2.3 yd^3 (1.75 m^3)
4 CY (RF)	4 yd^3 (3.1 m^3)
6 CY (RF)	6 yd^3 (4.6m^3)

VIP head can be interchanged to Front Feed, Rear Feed or Side Feed configurations

VIP Untouchable Configuration

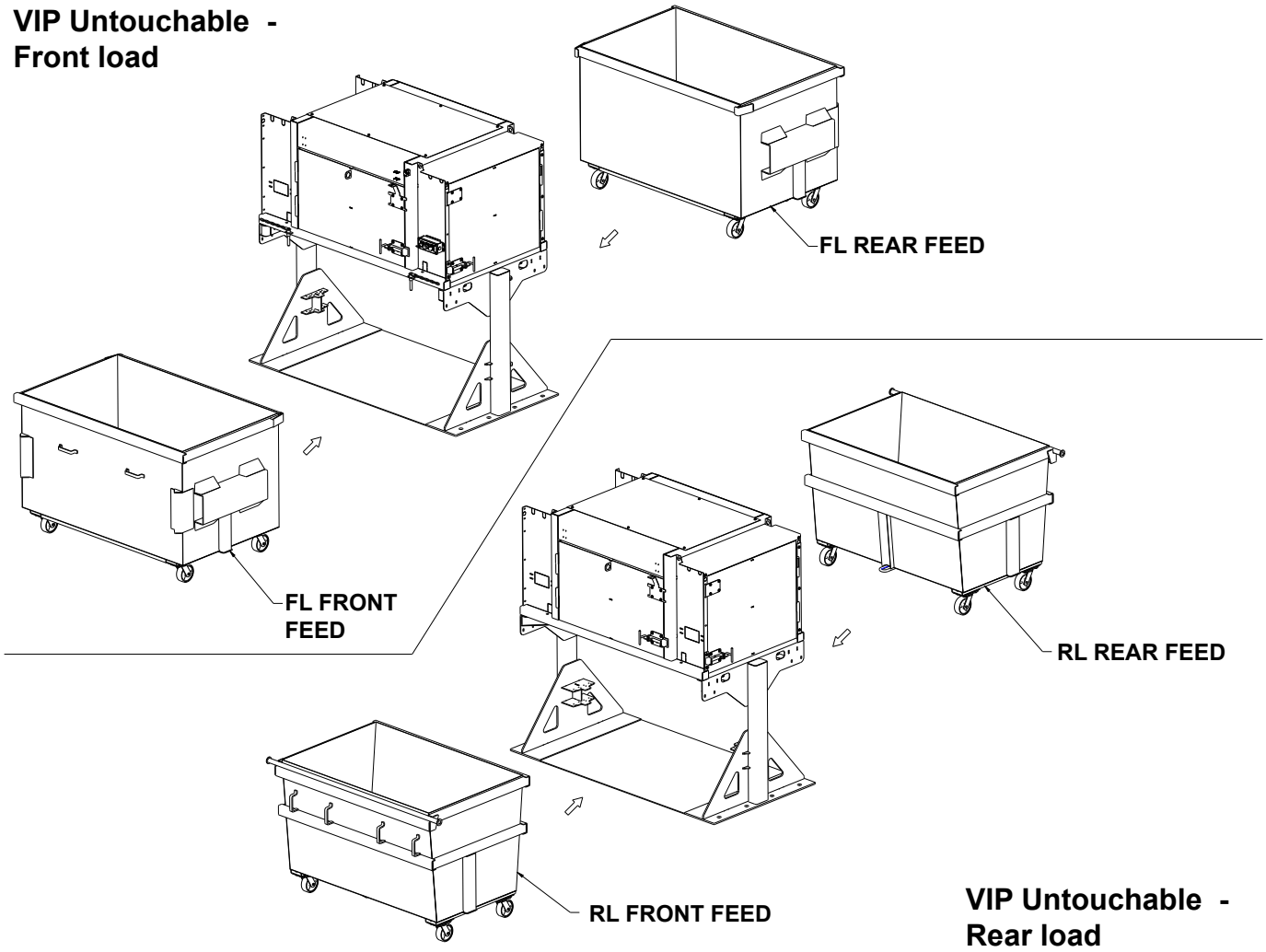


Figure 1.

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CONFIGURATIONS

VIP Untouchable Specifications

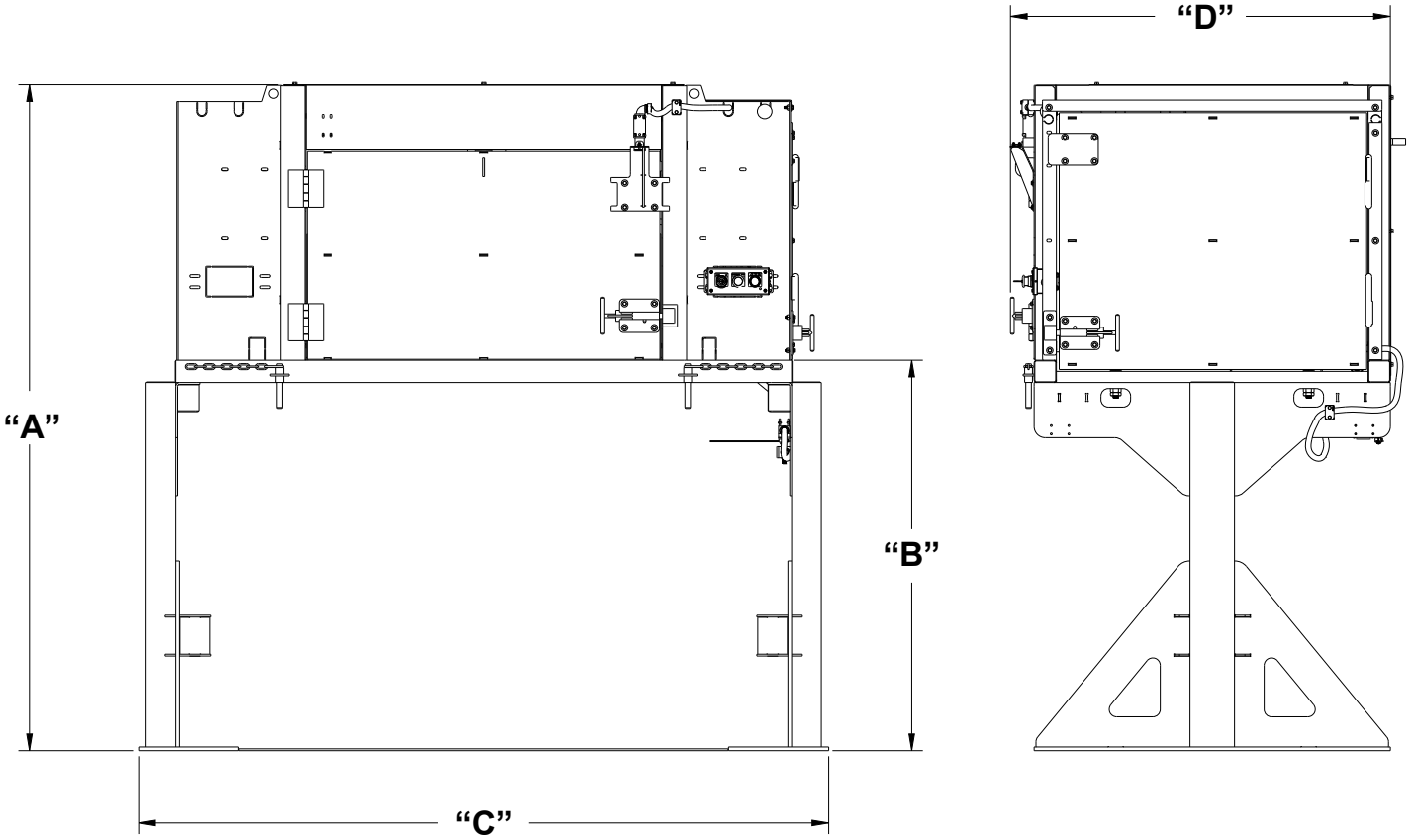


Figure 2.

VIP UNTOUCHABLE SPECIFICATION		
	FF VIP UNTOUCHABLE	**RF VIP UNTOUCHABLE**
“A” Overall Height	89-3/4”	89-3/4”
“B” Feed Height	52-5/8”	52-5/8”
“C” Overall Width	93”	93”
“D” Overall Depth	53-3/8”	53-3/8”
Weight	3516 lbs.	3500 lbs.

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CONFIGURATIONS

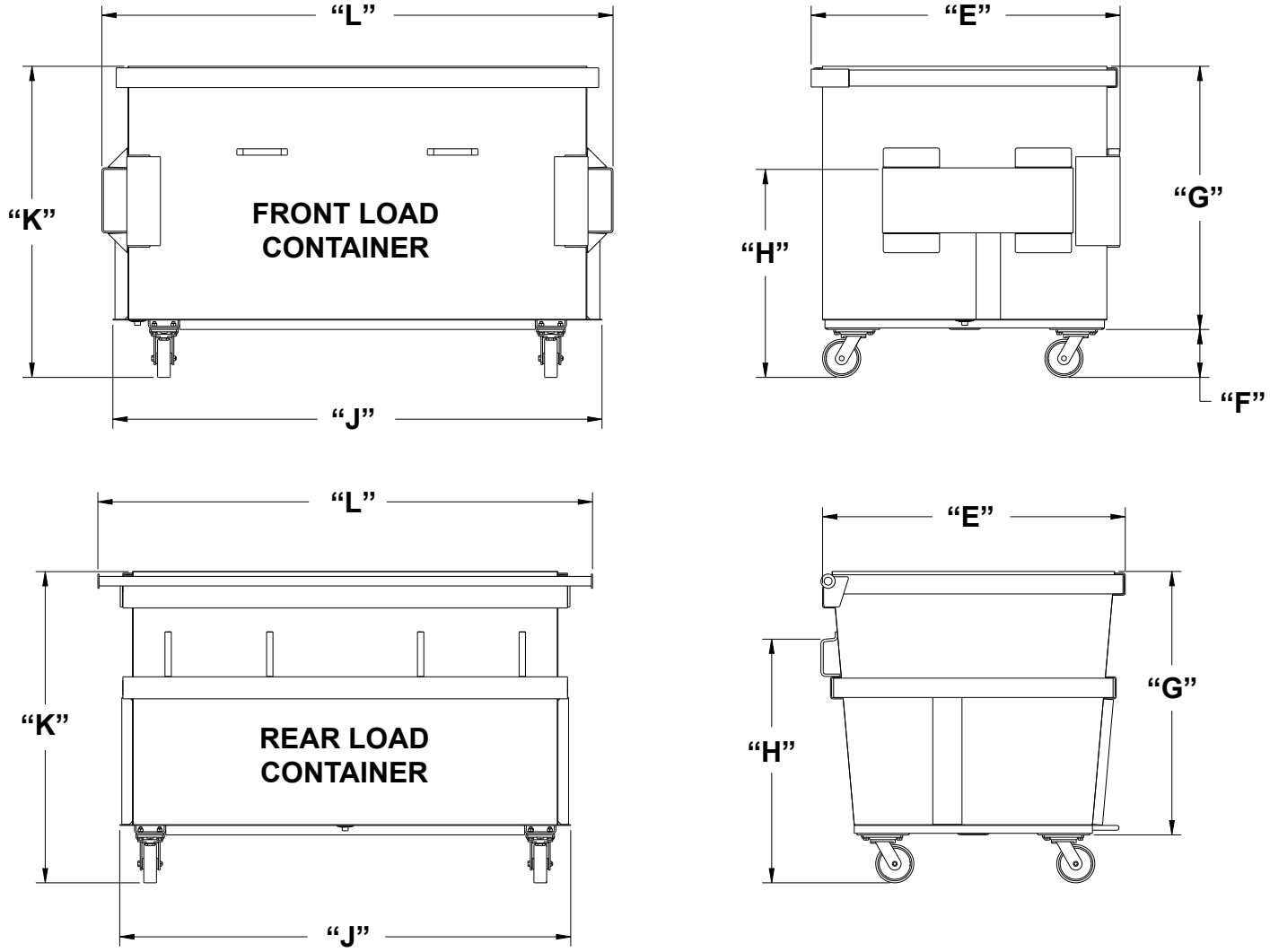


Figure 3.

CONTAINER SPECIFICATION		
	FL CONTAINER UNTOUCHABLE	**RL CONTAINER UNTOUCHABLE**
“E” Overall Depth	48-5/8”	48-5/8”
“F”	7-9/16”	7-9/16”
“G”	41-7/16”	41-1/2”
“H” Pocket Height	33”	38-1/2”
“J” Base Width	71”	77”
“K” Overall Height	49”	49”
“L” Overall Width	75-15/16”	77-7/8”
Weight	836 lbs.	807 lbs.

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CONFIGURATIONS

VIP 4/6/8 - Configuration

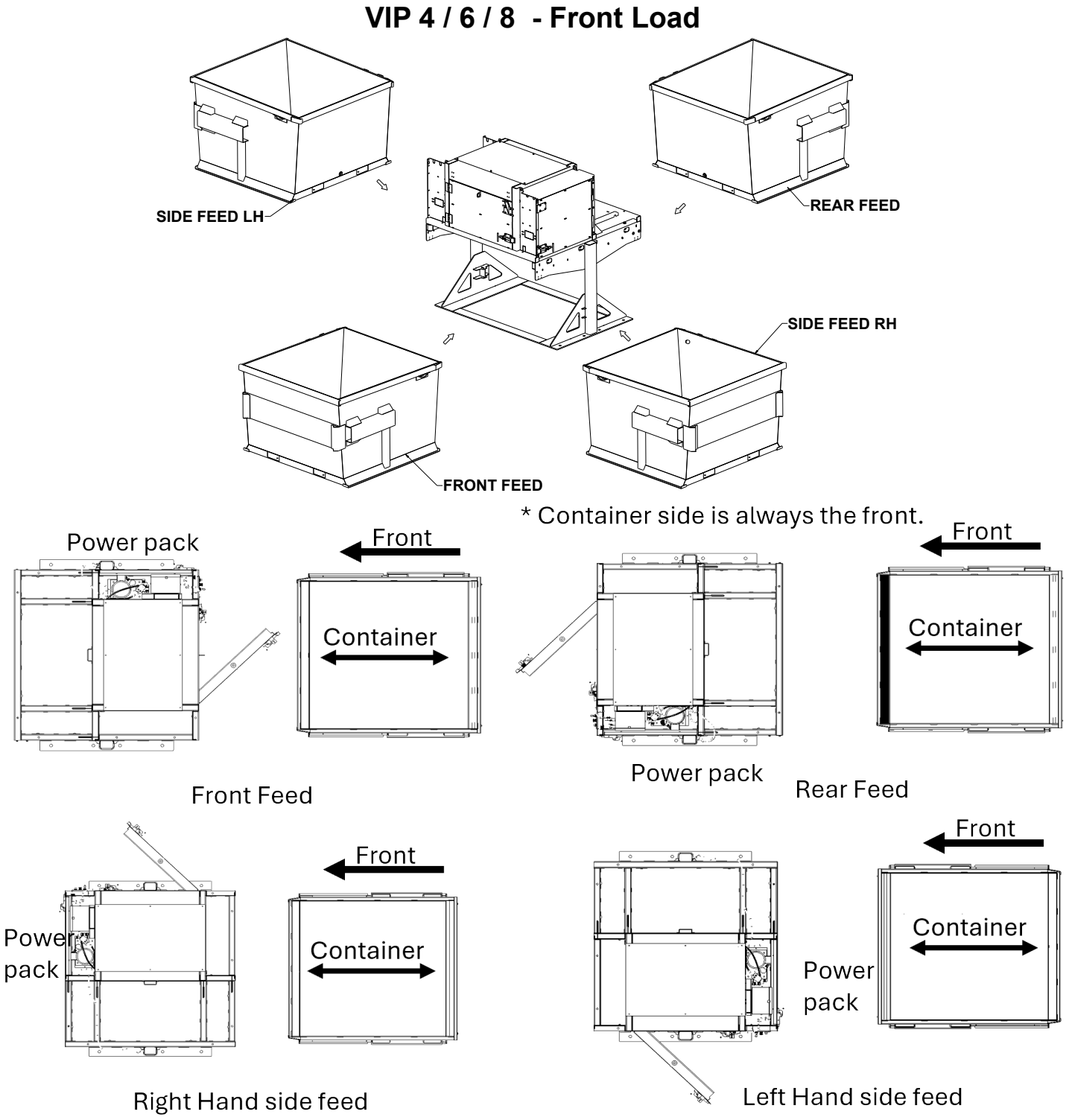


Figure 4.

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CONFIGURATIONS

VIP 4/6/8 - Specifications

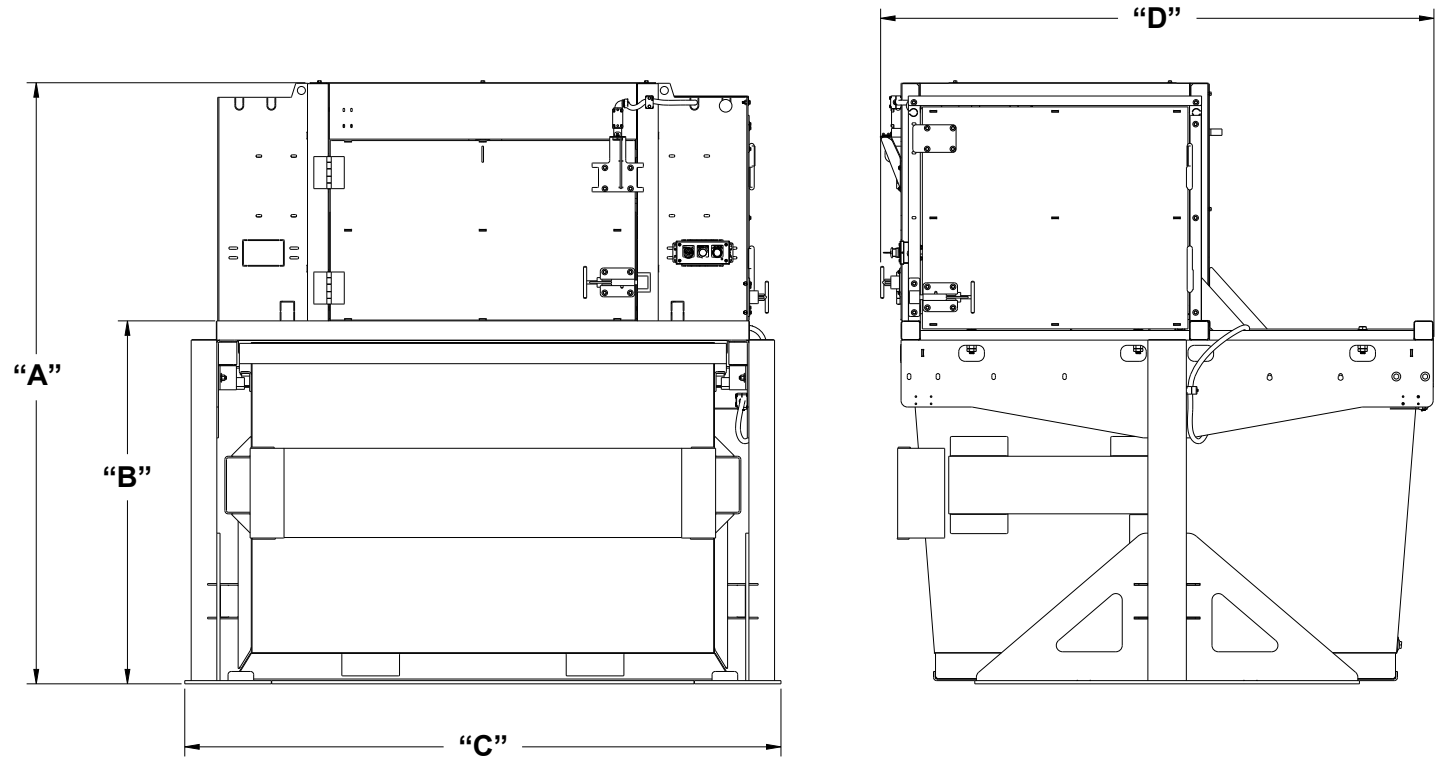
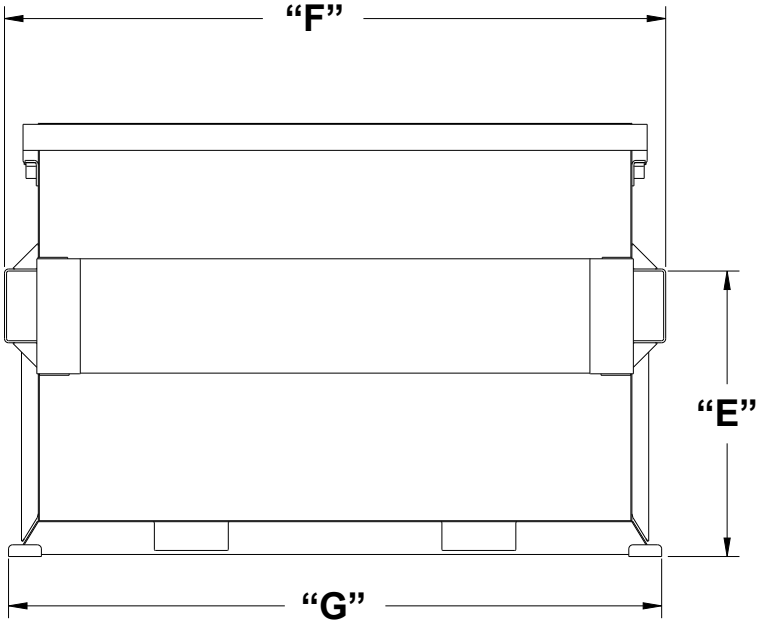


Figure 5.

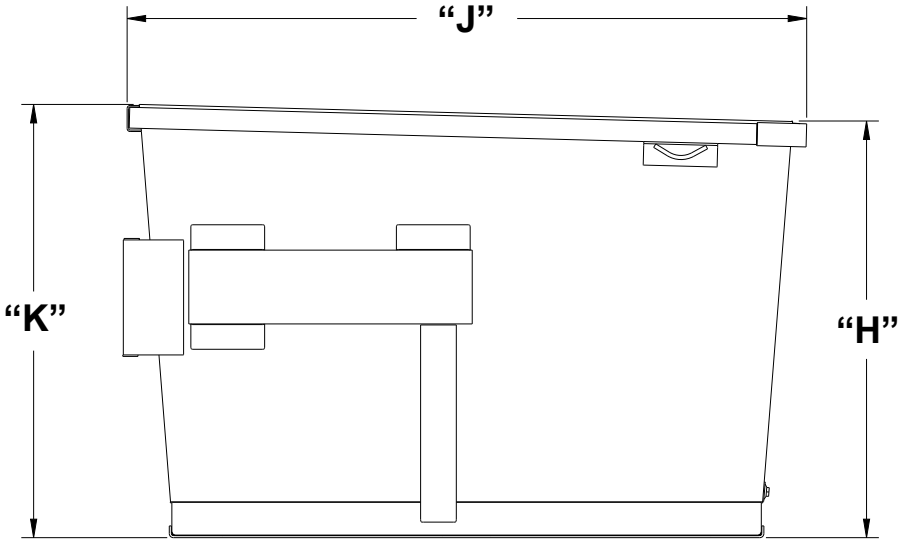
VIP SPECIFICATION			
	4CY	**6CY**	**8CY**
“A” Overall Height	81-7/8”	93-3/4”	112”
“B” Feed Height	44-3/4”	56-5/8”	74-3/4”
“C” Overall Width	93”	93”	93”
“D” Overall Depth	86-5/16”	86-5/16”	85-5/16”
Weight	3397 lbs.	4230 lbs.	4300 lbs.

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CONFIGURATIONS



FRONT VIEW



SIDE VIEW

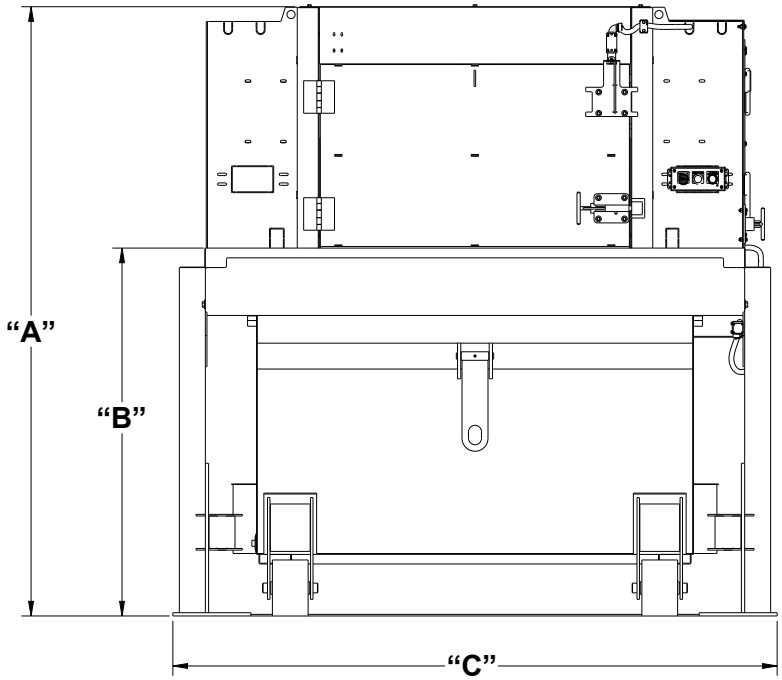
Figure 6.

CONTAINER SPECIFICATION			
	4CY	**6CY**	**8CY**
“E” Pocket Height	33”	35”	35”
“F” Overall Width	80-1/2”	80-1/2”	80-1/2”
“G” Base Width	79-1/2”	79-1/2”	79-1/2”
“H” Overall Height (Rear)	38-13/16”	50-5/8”	68-3/4”
“J” Overall Depth	82-3/8”	82-13/16”	82-13/16”
“K” Overall Height (Front)	40-7/8”	52-3/4”	70-7/8”
Weight: Front /Rear Feed	962 lbs.	1083 lbs.	1360 lbs.
Weight: Left / Right Feed	1105 lbs.	1225 lbs.	1501 lbs.

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CONFIGURATIONS

VIP 4RL - Specifications



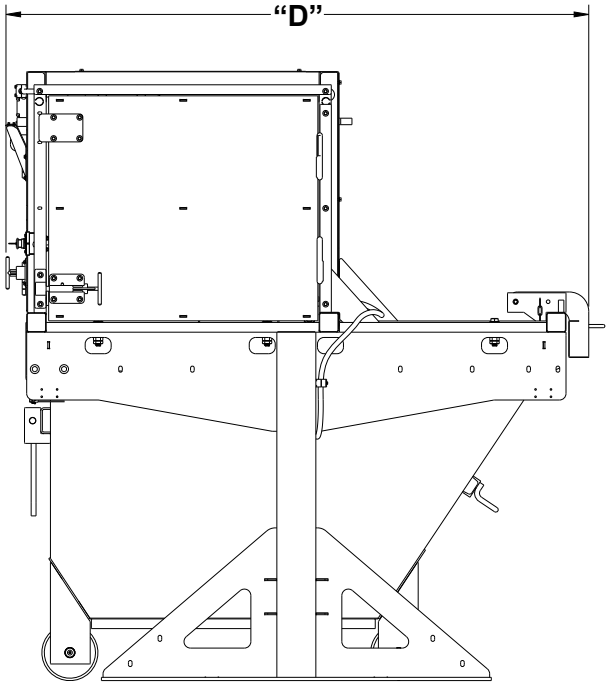


Figure 7.

VIP SPECIFICATION	
	4CY
“A” Overall Height	93-3/4”
“B” Feed Height	56-5/8”
“C” Overall Width	93”
“D” Overall Depth	89-11/16”
Weights	4000 lbs.

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CONFIGURATIONS

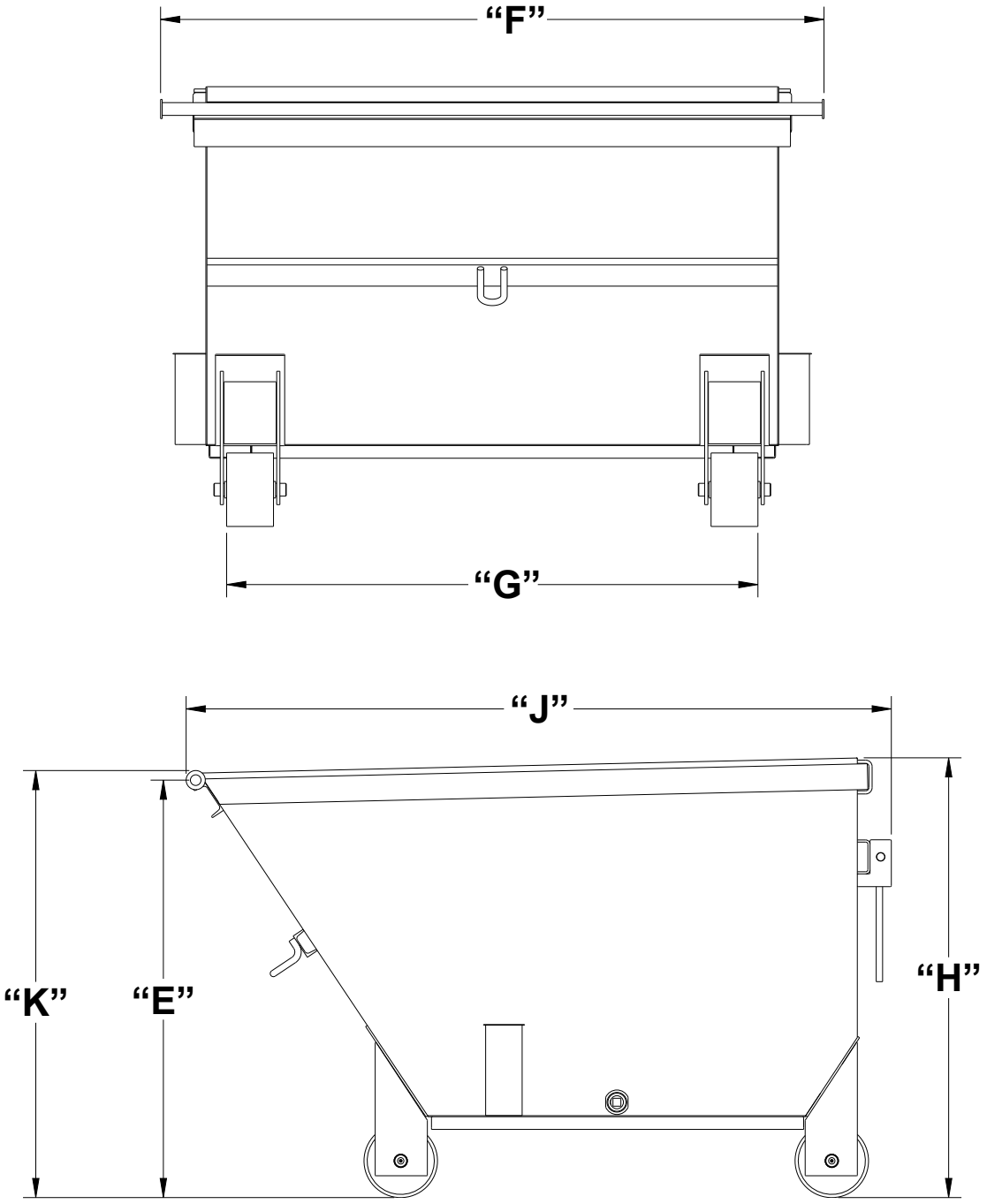


Figure 8.

CONTAINER SPECIFICATION	
	4CY
“E” Pivot Height	49”
“F” Overall Width	77-7/8”
“G” Roller Width	62-3/8”
“H”Overall Height (Rear)	51-5/8”
“J” Overall Depth	82-3/4”
“K”Overall Height (Front)	50-1/8”
Weight: Rear Feed	1014 lbs.

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CONFIGURATIONS

VIP 6RL - Specifications

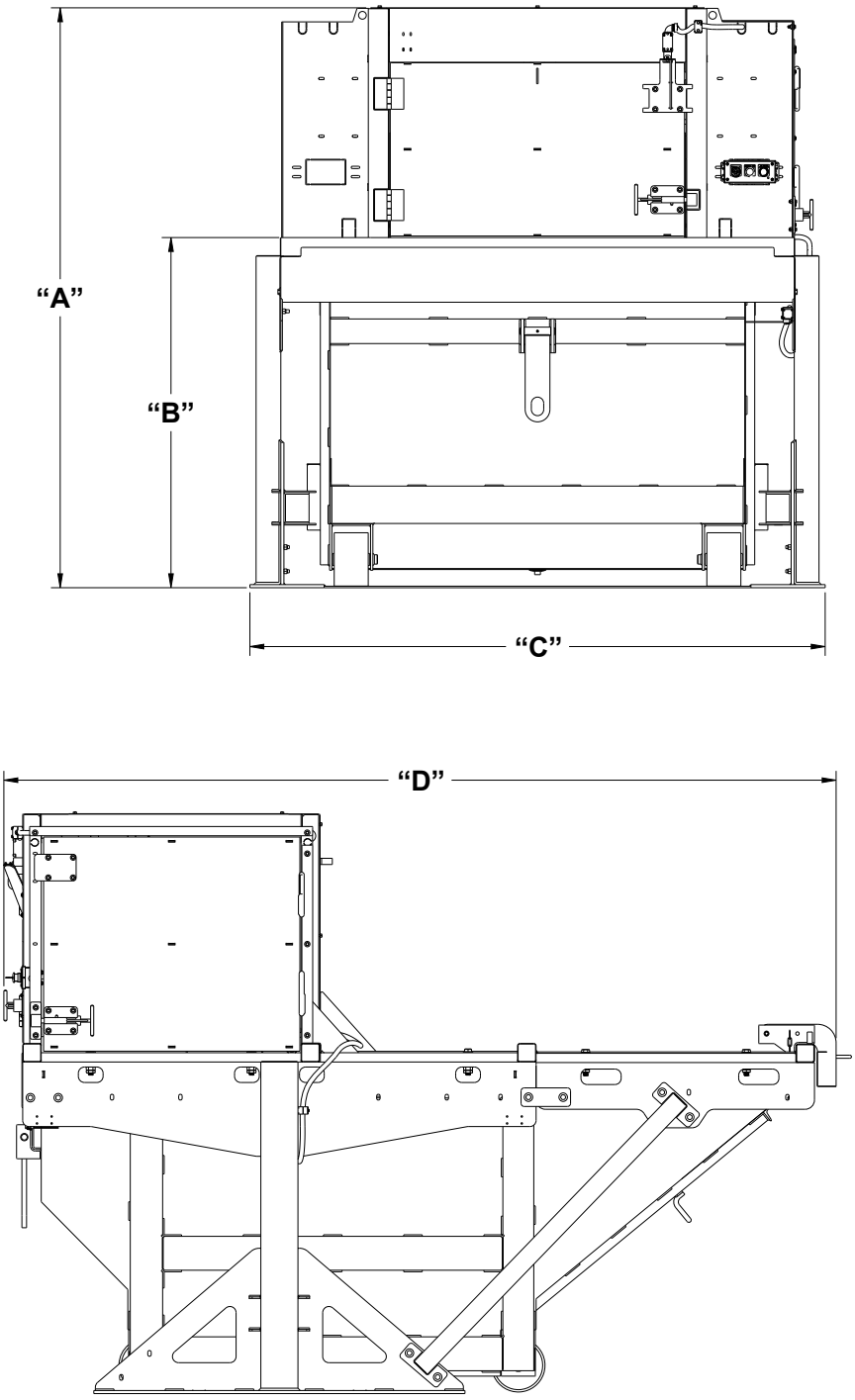


Figure 9.

VIP SPECIFICATION	
	6CY
“A” Overall Height	93-3/4”
“B” Feed Height	56-5/8”
“C” Overall Width	93”
“D” Overall Depth	134-9/16”
Weights	5500 lbs.

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CONFIGURATIONS

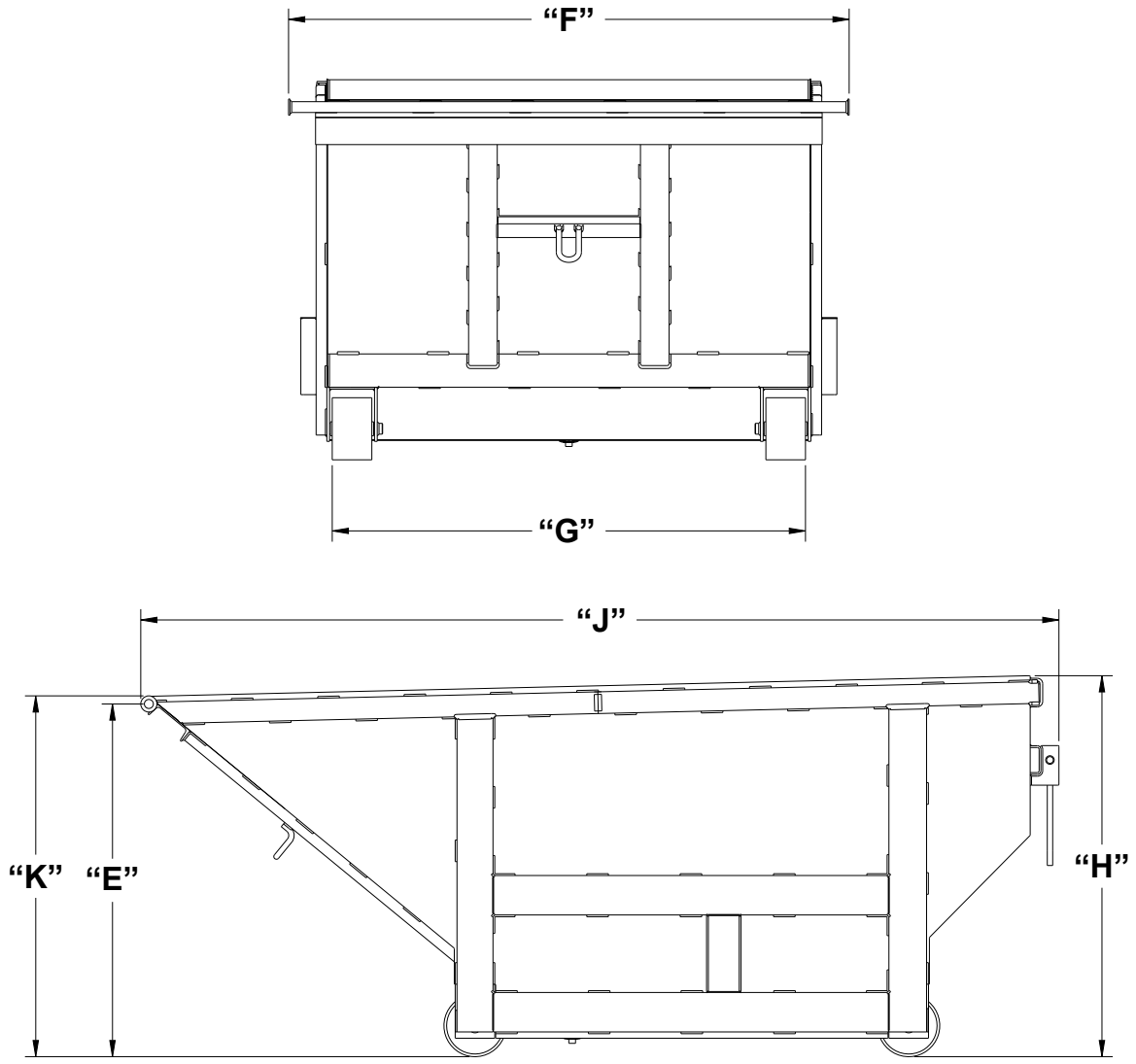


Figure 10.

CONTAINER SPECIFICATION	
	6CY
“E” Pivot Height	49”
“F” Overall Width	77-7/8”
“G” Roller Width	65-3/4”
“H”Overall Height (Rear)	52-15/16”
“J” Overall Depth	127-9/16”
“K”Overall Height (Front)	50-1/8”
Weight: Rear Feed	1014 lbs.

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DECAL CARE

It is important that the decals are properly cleaned to make sure that they are readable and do not come off the unit. Use the following steps to clean the decals.

A. General Instructions

Following these instructions helps the decals adhere longer.

- Wash the decals with a blend of mild car wash detergent and clean water
- Rinse with clean water
- Let the unit air-dry or dry with a micro-fiber cloth
- Do not allow fuels to stay in contact with the decal for an extended period of time. Remove the fuel contamination as quickly as possible
- Do not use carnauba-based wax over the decals
- Do not use a mechanical brush while washing the decals.

B. Pressure Washer Precautions

Pressure washing can cause damage to decals. It can cause the edges of the decals to lift and peel the decal away from the unit. Over time, the decal can fade, crack or chip away.

Use pressure washing only when other cleaning methods are not effective. If you use a pressure washer, use the following precautions.

- Spray nozzle opening: 40° wide pattern
- Spray angle: 65° from unit's body
- Distance of nozzle to decal: 15" minimum
- Water pressure: less than or equal to 800 psi
- Length of time: not more than 30 sec.
- Do not use sharp angles to clean the decals – this can lift the decals from the unit.
- NEVER use a "turbo pressure nozzle".

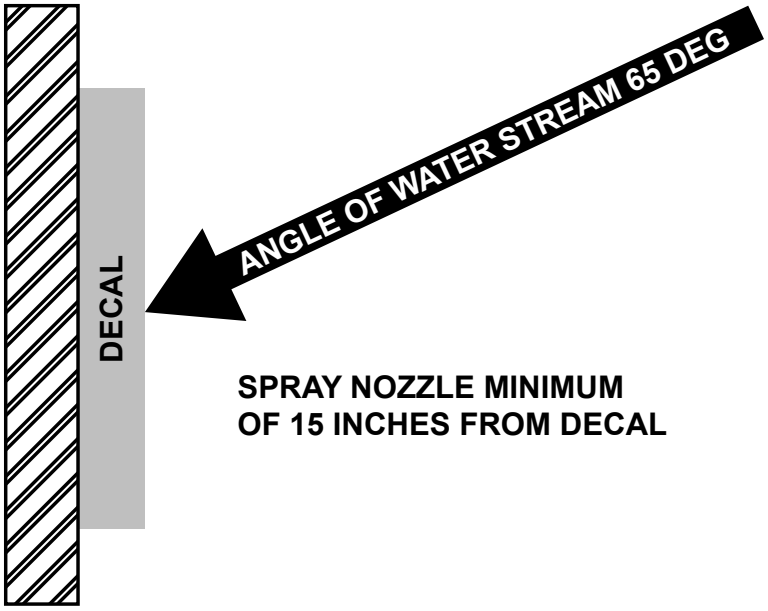
C. Remove Difficult Debris

When normal cleaning procedures do not remove difficult debris from the decals, try the following:

- Spot clean the decal with Isopropyl Alcohol and a micro-fiber cloth (rag)
- If these methods do not work on a problem area, call a Marathon Equipment Company Dealer or Marathon Equipment Company Customer Support.

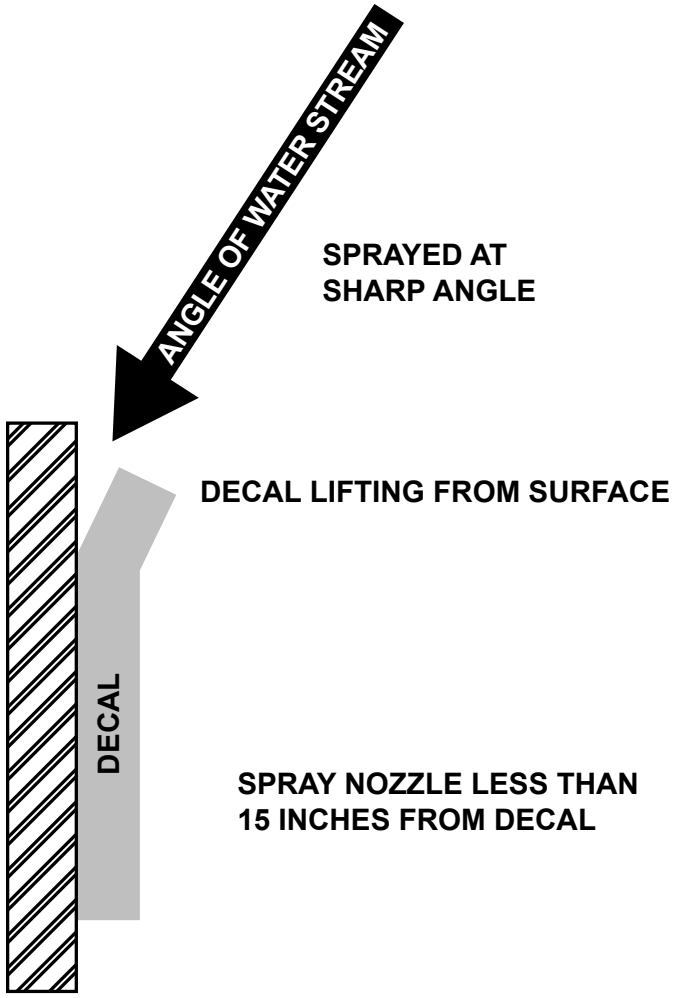
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DECAL CARE



RECOMMENDED TECHNIQUE

Figure 11.

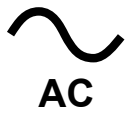
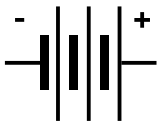
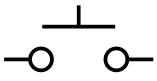
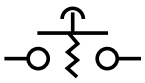


INCORRECT TECHNIQUE

Figure 12.

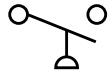
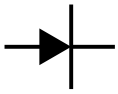
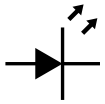
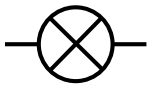
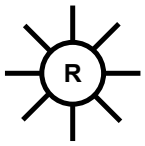
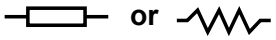
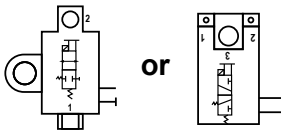
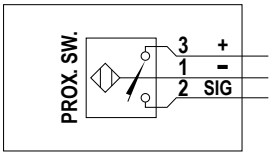
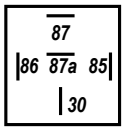
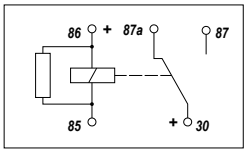
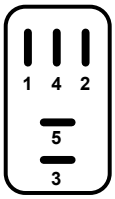
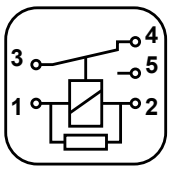
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ELECTRICAL SYMBOLS

	Alternating Current
	Direct Current
	Ammeter (Amp Meter)
	Volt Meter - Measures Voltage
	Watt Meter - Measures Electric Power
	Ohm Meter
	Wire
	Connected Wires
	Unconnected Wires
	Fuse
	Breaker
	Chassis Ground Or Ground
	Battery
	On/Off Switch
	Push to make switch/sometimes momentary
	Momentary Push Button
	Push To Break Switch
	Normally Open Limit Switch
	Normally Closed Limit Switch

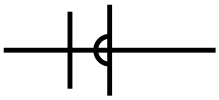
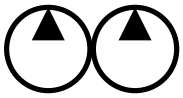
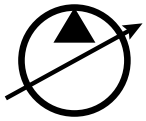
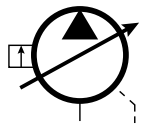
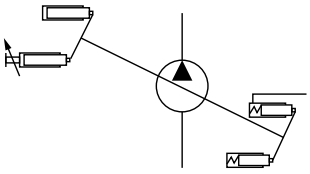
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ELECTRICAL SYMBOLS

	Pressure Switch
	Diode
	LED - Diode
	Lamp
	Indicator Light
	Resistor
	Solenoid Operated 3 Way Pneumatic Valve/MAC Valve
	Proximity Switch
	Relay Socket (General)
	Relay (General)
	Micro Relay Socket
	Micro Relay

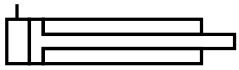
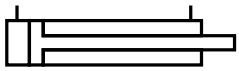
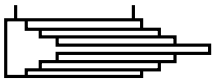
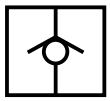
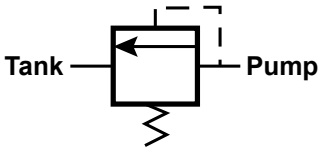
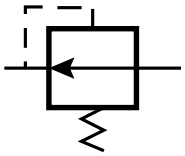
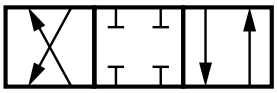
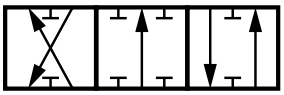
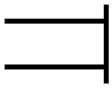
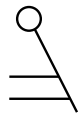
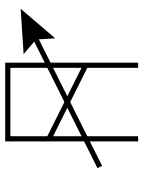
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HYDRAULIC SYMBOLS

	Fluid Lines
	Pilot Lines
	Component Enclosure
	Connection Of Lines
	No Connection Of Lines
	Plugged Port
	Indicates Direction Of Flow
	Fixed Displacement, Unidirectional Pump
	Fixed Displacement, Bi-directional Pump
	Fixed Displacement, Tandem Pump
	Variable Displacement Pump
	Variable Displacement, Pressure Compensated Pump
	Variable Displacement, Pressure Compensated Piston Pump
	Fixed Displacement, Unidirectional Motor
	Fixed Displacement, Bi-directional Motor
	Variable Displacement, Bi-directional Motor

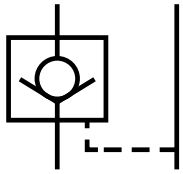
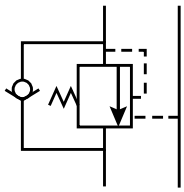
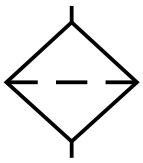
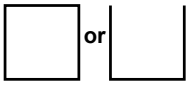
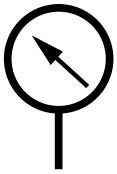
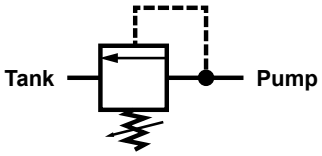
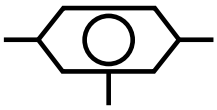
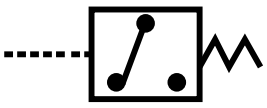
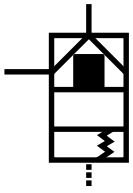
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HYDRAULIC SYMBOLS

	Single Acting Rod Cylinder
	Double Acting Rod Cylinder
	Single Acting Telescopic Cylinder
	Double Acting Telescopic Cylinder
	Check Valve
	Pilot Operated Relief Valve
	Pressure Reducing Valve
	Three Position, Four Way Closed Center Valve Spool
	Three Position, Four Way Open Center Valve Spool
	Spring Actuator
	Manual Actuator
	Manual Handle Actuator
	Hydraulic Actuator
	Pneumatic Actuator
	Electric Solenoid Actuator
	Electro Proportional Actuator

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HYDRAULIC SYMBOLS

	Pilot Operated Check Valve
	Counterbalance Valve
	Filter, Strainer, Screen
	Reservoir
	Pressure Gauge
	Adjustable Relief Valve
	Orifice (Flow Restrictor)
	Adjustable Orifice (Flow Restrictor)
	Shuttle Valve
	Pressure Switch
	Shut Off Valve
	Logic Valve

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SECTION 2
INSTALLATION

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GENERAL REQUIREMENTS

⚠ CAUTION

Review this manual before beginning installation. Study the jobsite and installation requirements carefully to be certain ALL necessary safeguards and/or safety devices are provided to protect all personnel and equipment during installation and as a completed system. This compactor should be installed in accordance with the most current version of ANSI standard Z245.2 at the time of manufacture.

Marathon Equipment Company does not assume responsibility for installation procedures of this equipment. Conformance to applicable local, state, and federal laws concerning installation is the customer responsibility.

The Vert-I-Pack is designed to be anchored to concrete or asphalt. **The concrete or asphalt pad must be level for the VIP to function properly.** The following descriptions give the requirements for a concrete pad or an asphalt pad.

Concrete Pad

1. Concrete should be minimum 3,000 psi (20,700 KPa), steel reinforced, 6” (150 mm) thick. It is preferred that the concrete pad be flush with the surrounding ground level.
2. To provide accessibility, concrete pad should be positioned to allow adequate space for the container-handling vehicle. If applicable, allow proper clearances for a through-the-wall chute.

Asphalt Pad

1. If using the steel foundation plate, it should be secured to your pad or floor. If asphalt is used, it should be construction grade material and standard parking lot thickness (approximately 4” (100 mm)).
2. To provide accessibility, asphalt pad should be positioned to allow adequate space for the container-handling vehicle. If applicable, allow proper clearances for a through-the-wall chute.

NOTICE

The clearances given are minimums. Your installation may require greater clearances depending on the site and the hauling equipment that will be used

Decals

Installation of the compactor is not complete until an inspection of warning decals has been made. All warning decals must be in place prior to operating the compactor. Decals should be clearly visible, legible, securely applied, and in the proper location. Refer to **“Decal Placement” on page 71**. Notify your distributor or Marathon Equipment Company if any warning decals are missing or become damaged and need replacing.

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ANCHORING REQUIREMENTS

Concrete

The compactor should be anchored to concrete pad using eight (8) minimum 1” x 6” (25 x 150 mm) long anchor bolts (red head-type recommended).

It is best if the holes are drilled in the concrete after pre-locating the compactor in its desired location.

Holes in the leg plates are 1 5/16” (33 mm) dia. to permit the use of a 1 1/8” (32 mm) diameter concrete bit. The holes in the concrete should be approximately 5” (125 mm) deep.

When the compactor has been permanently located, shimmed to compensate for unevenness, and anchor bolts set, tighten all nuts securely.

Asphalt

For asphalt applications, use four 1” (25 mm) diameter x 36” (915 mm) pointed steel rods with ¾” (18 mm) wrought steel washers welded to the top end.

Drive the headed rod though the anchor plate and asphalt and into the ground at each location.

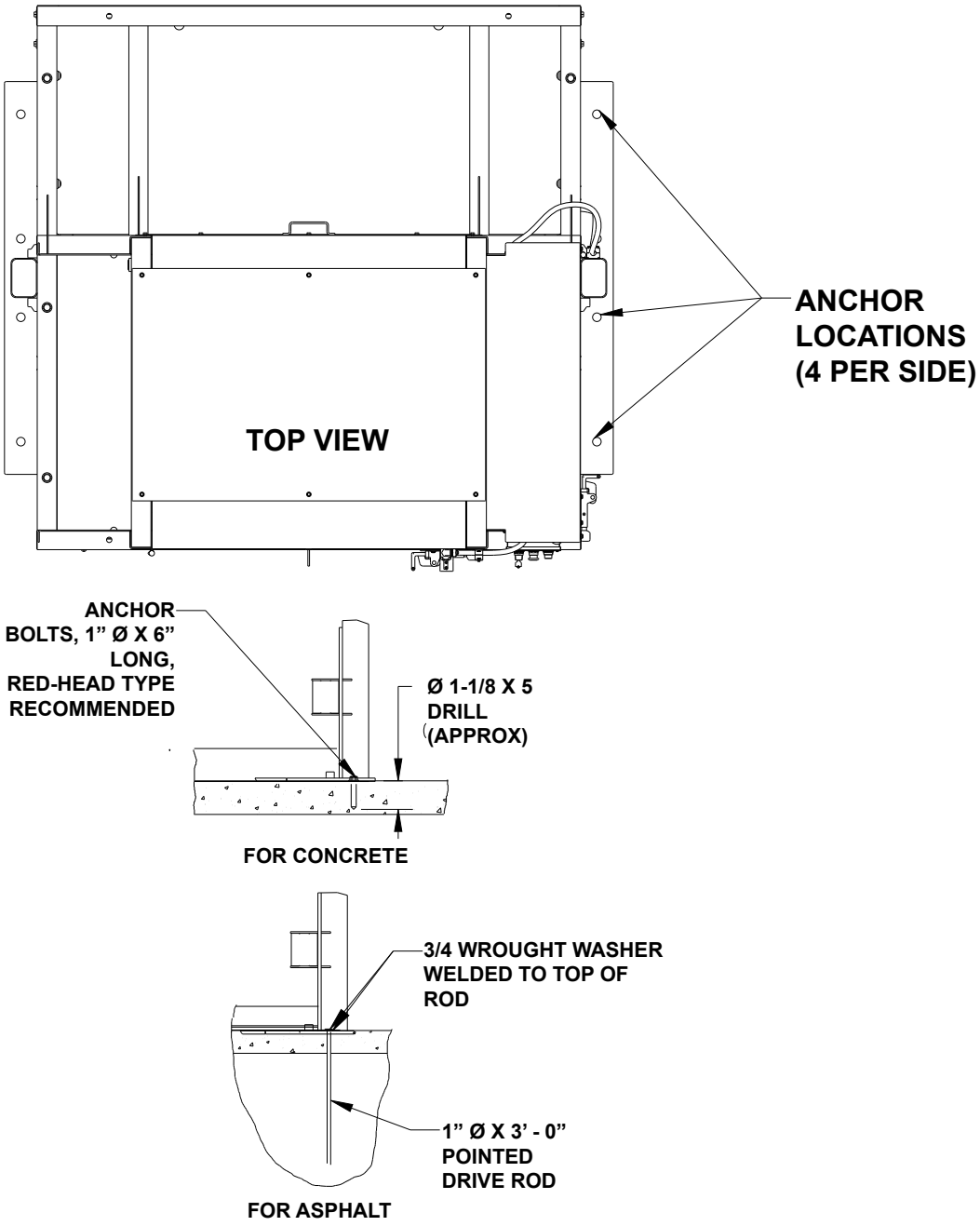


Figure 13.

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THROUGH-THE-WALL CHUTE INSTALLATION

Rear Feed

Use the appropriate kit available from Marathon Equipment Company. The kit requires bolting to the interior wall, welding to the VIP body, and caulking at the exterior joint on the chute assembly. The following diagram shows a typical rear feed through-the-wall installation.

NOTICE

Consult with factory for proper location of wall opening.

** Dimension: Ground to bottom of wall opening.

MODEL	"A"
4 YD FL/RF	41 ½" (1054 mm)
6 YD FL/RF	53 ¼" (1353 mm)
8 YD FL/RF	71 ¼" (1810 mm)

**Wall opening to be 35" (890 mm) high x 56" (1422 mm) wide. Chute fits walls up to 14" (350 mm) thick.

NOTE: Install wall interface first, then insert VIP interface through the wall interface and weld to VIP body.

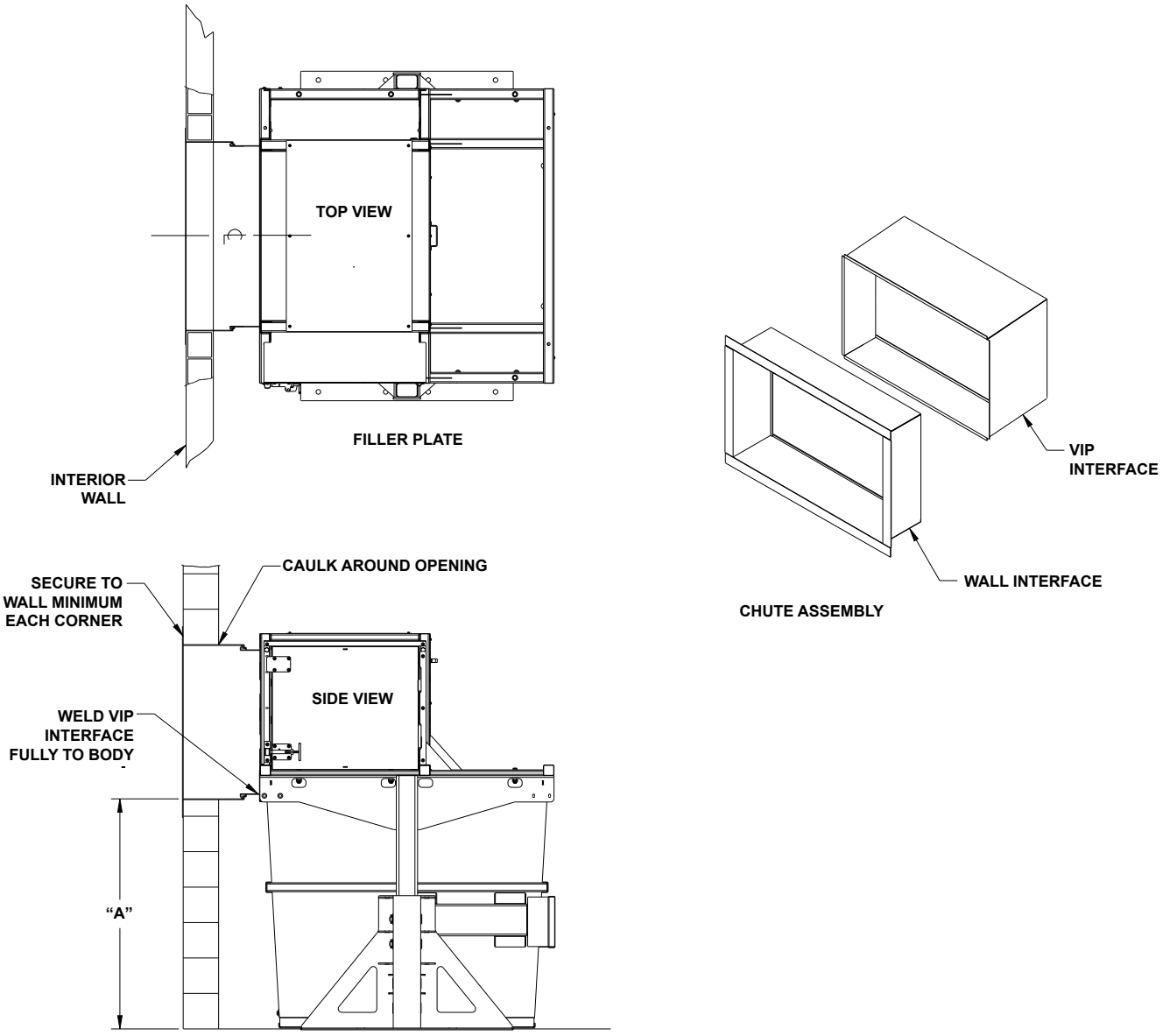


Figure 14.

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THROUGH-THE-WALL CHUTE INSTALLATION

Rear-Load

Use the appropriate kit available from Marathon Equipment Company. The kit requires bolting to the interior wall, welding to the VIP body, and caulking at the exterior joint on the chute assembly. The following diagram shows a typical side feed through-the-wall installation.

NOTICE

Consult with factory for proper location of wall opening.

** Dimension: Ground to bottom of wall opening.

MODEL	"A"
4YD RL RF	53 ¼" (1352 mm)
6 YD RL RF	53 ¼" (1352 mm)

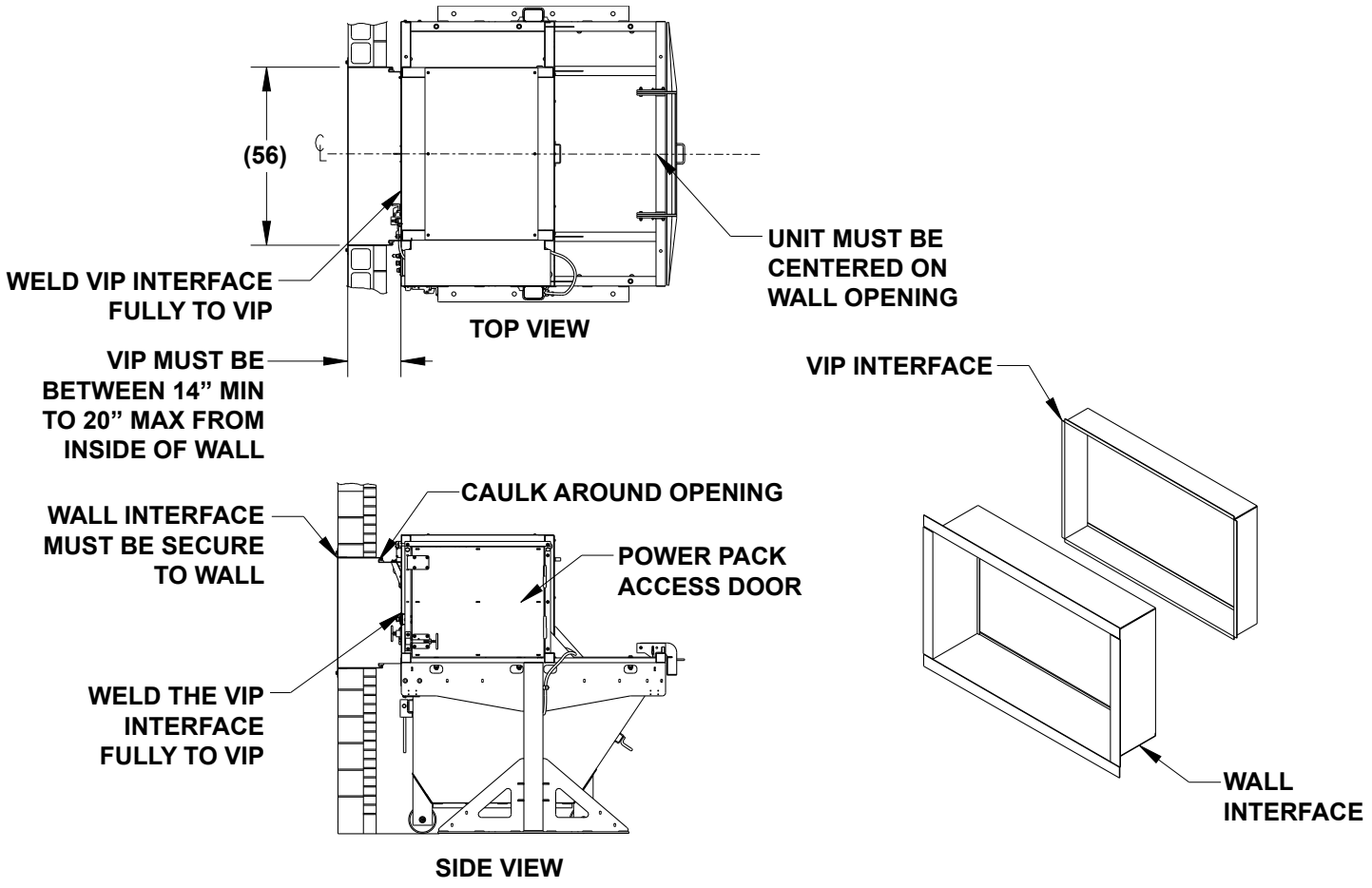


Figure 15.

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THROUGH-THE-WALL CHUTE INSTALLATION

Side Feed

Use the appropriate kit available from Marathon Equipment Company. The kit requires bolting to the interior wall, welding to the VIP body, and caulking at the exterior joint on the chute assembly. The following diagram shows a typical side feed through-the-wall installation.

NOTICE

Consult with factory for proper location of wall opening.

** Dimension: Ground to bottom of wall opening.

MODEL	"A"
4 YD FL/RF	40" (1016 mm)
6 YD FL/RF	58" (1473 mm)
8 YD FL/RF	76" (1930 mm)

**Wall opening to be 35" (890 mm) high x 56" (1422 mm) wide. Chute fits walls up to 14" (350 mm) thick.

NOTE: Install wall interface first, then insert VIP interface through the wall interface and weld to VIP body.

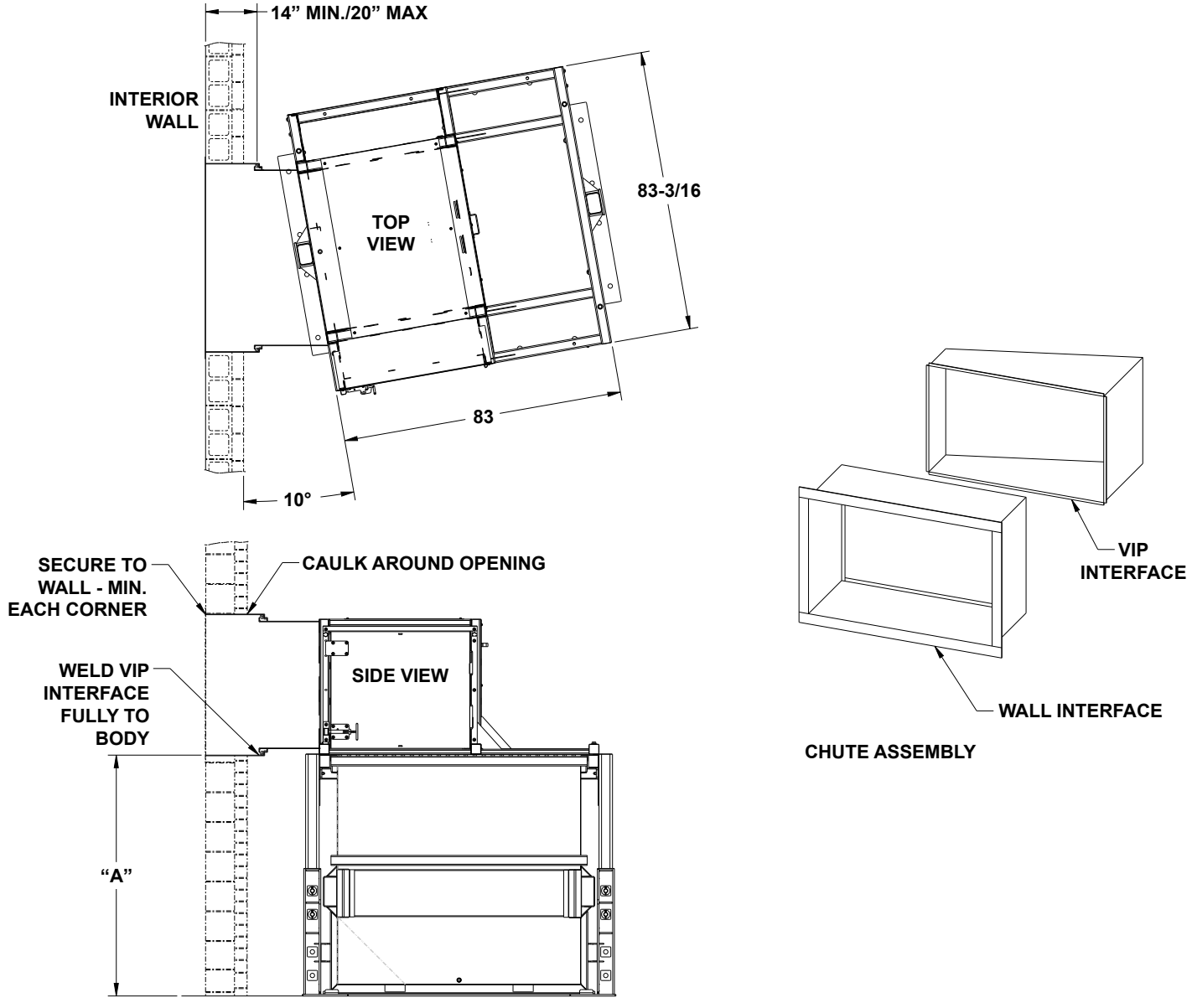


Figure 16.

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THROUGH-THE-WALL CHUTE INSTALLATION

Untouchable Unit

Use the appropriate kit available from Marathon Equipment Company. The kit requires bolting to the interior wall, welding to the VIP body, and caulking at the exterior joint on the chute assembly. The following diagram shows a typical side feed through-the-wall installation.

NOTICE

Consult with factory for proper location of wall opening.

** Dimension: Ground to bottom of wall opening.

MODEL	"A"
Untouchable 2.5 YD FL/RF	48 3/4" (1238 mm)

**Wall opening to be 35" (890 mm) high x 56" (1422 mm) wide. Chute fits walls up to 14" (350 mm) thick.

NOTE: Install wall interface first, then insert VIP interface through the wall interface and weld to VIP body.

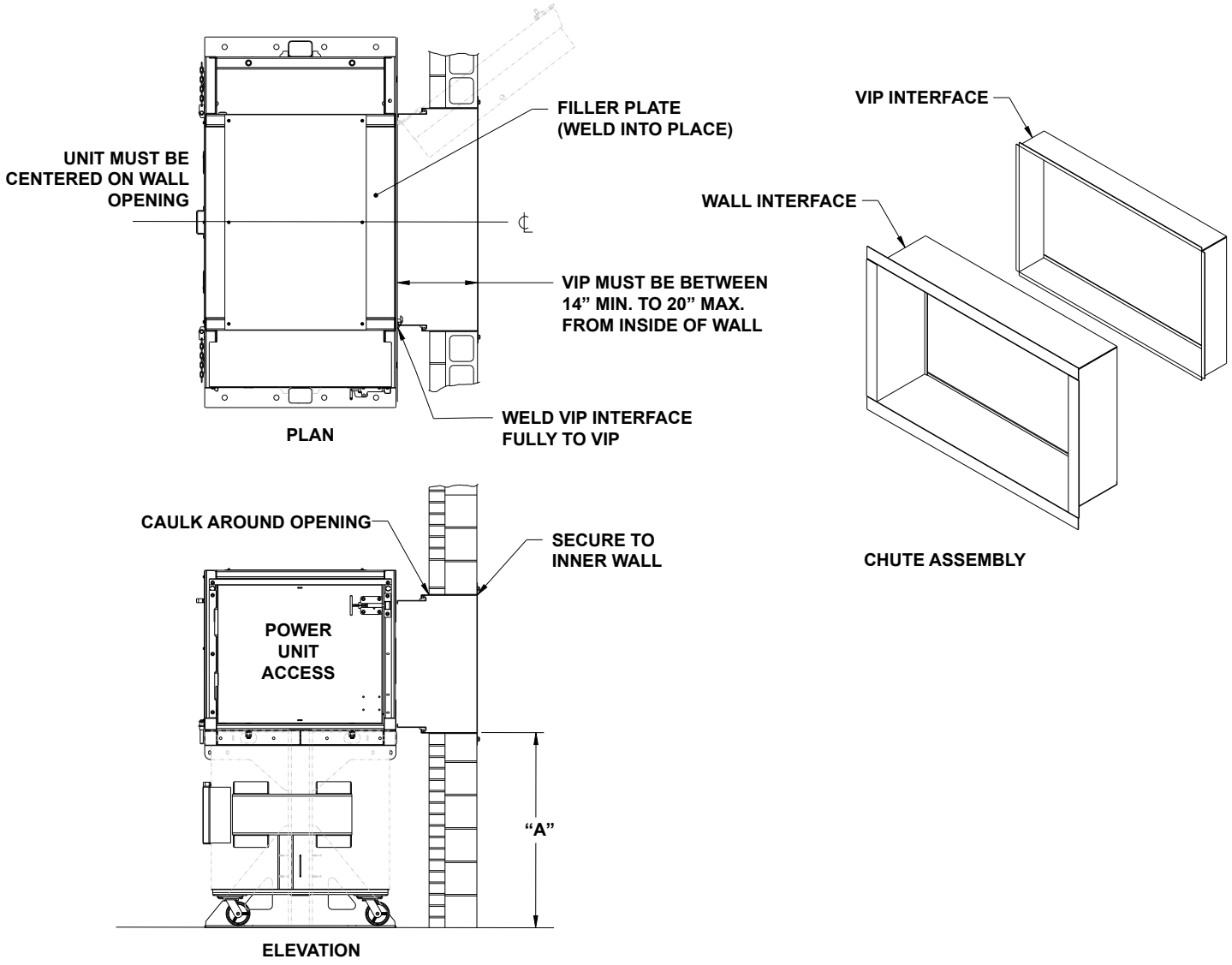
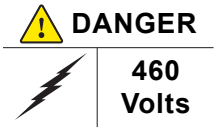


Figure 17.

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ELECTRICAL & HYDRAULIC INSTALLATION

Electrical Connections



The panel box contains high voltage components. Only authorized service personnel should be allowed inside. See **"Lock-Out/Tag-Out Instructions" on page 5**.

⚠ WARNING

Before making any electrical connection, be sure that the disconnect switch has been locked-out and tagged-out.

⚠ DANGER

All equipment should be grounded per National Electric Code

1. Before connecting power to the compactor, check the incoming line voltage with a voltmeter. Also, check voltage wiring in the compactor panel box. If the compactor is not wired to proper voltage, make necessary corrections before proceeding.
2. A lockable fused disconnect switch (customer furnished) must be installed and be within sight of the compactor's electrical panel box location, not to exceed 50' (15.25 m) from the compactor.

   NOTE: The fused disconnect switch should be sized in accordance with the compactor. For details, refer to **"Electrical Charts" on page 68**.

   NOTE: A properly sized equipment ground should be connected to the enclosure ground lug.
3. Run power lines between fused disconnect switch (customer furnished) and compactor's electrical panel box, in accordance with local electrical codes, using knockouts in bottom of panel box. Refer to **"Electrical Charts" on page 68** to determine the correct service disconnect amperage rating and the correct wire size.

   NOTE: High legs should be installed to L3 on motor starter.
4. Check voltage at fused disconnect switch to be certain it is the same as is shown on compactor or remote power-pack.

Pushbutton Control Station

If a remote pushbutton control station is furnished, it will be factory wired using Sealtite. If it is necessary to disconnect the wires (for example, to install the pushbutton station inside a building), exercise care and make sure the wires are reconnected as originally furnished.

NOTICE

Check local codes to be certain that Sealtite is acceptable.

Emergency Stop Buttons

⚠ CAUTION

Controls must be located so that the Emergency Stop button is readily accessible to the operator and within 3' (915 mm) of the charging chamber access. If installation requires the pushbutton control station to be located in a more remote area, a second Emergency Stop button should be added and installed in the manner described above.

Hydraulic Connections

NOTE: The hydraulic system pressure is factory set and the entire unit operated prior to shipment.

1. Check hydraulic hose connects. Refer to **"Hydraulic Schematic" on page 81** to ensure proper connections.

   NOTE: Cylinder hoses; the "A" port hose (from the power unit) connects to the base end port of the cylinder. The "B" port hose (from the power unit) connects to the rod end port of the cylinder.
2. Fill the reservoir with hydraulic oil. See **"Recommended Oils" on page 64**. Fill until oil is 3/4 up in the sight gauge.

   NOTE: After start-up, it may be necessary to add more oil to the reservoir. Maintain oil level to 3/4 in the sight gauge with the cylinder fully retracted (UP position).

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INSTALLATION START-UP

1. Check and make sure that all electrical and hydraulic connections have been made correctly.
2. Make sure:
   a. Container is positioned all the way under the VIP head.
   b. Feed door is closed.

   NOTE: Check door open and close function. If door binds against top or bottom of door opening, unit is not level.

   Unit MUST be level for proper operation.
3. With the ram fully retracted (UP position), make sure the oil reservoir is full to the 3/4 level on the sight gauge (see **“Recommended Oils” on page 64**).

   NOTE: The hydraulic system pressure is factory set and the entire unit operated prior to shipment.

⚠ CAUTION

Make sure persons and material are clear of charge box area and all other areas of the compactor.

4. Turn the disconnect switch to the “ON” position when ready to start the machine.
5. Manually depress the motor starter for one to two seconds. If the ram does not move, this indicates that the motor and pump are rotating backwards. Shut down immediately.

⚠ CAUTION

The pump will be damaged if it is operated in reverse even for short periods. Reversing any two incoming power lines will change the motor/pump rotation.

6. Check the function of all interlock switches and Emergency Stop buttons.
7. Run the VIP for a few cycles to make sure it is operating properly.

   NOTE: If the ram scrubs the side of the charge chamber during operation, the unit is not level.

   Unit MUST be level for proper operation.
8. Make sure that ALL REQUIRED operators are trained in proper use of this equipment.

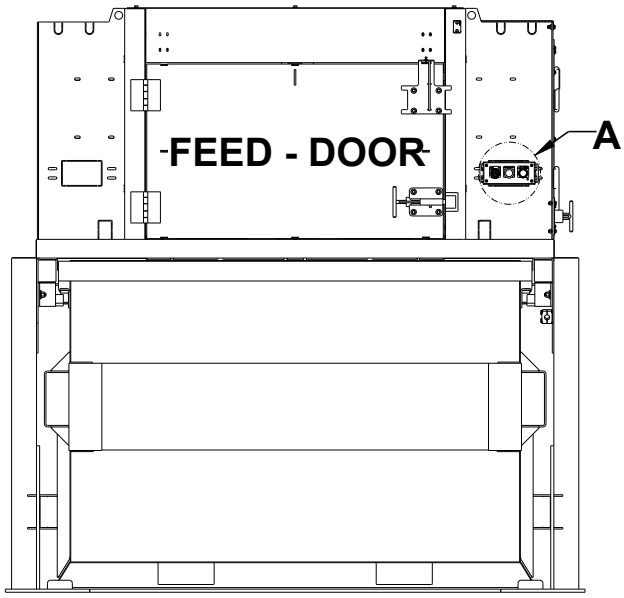
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SECTION 3
OPERATION

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OPERATOR CONTROLS

Standard & Untouchable Unit



FRONT VIEW

ITEM	PART #	DESCRIPTION
1	03-1343	Enclosure
2	03-0198	Operator 30 Selector 2 Keyed Switch
3	03-0201	Operator 30 Push/Pull Switch
4	03-0690	Light Pilot 30 Red
5	03-0193	Legend 30 ‘Emerg Stop’
6	03-5473	Legend 30 ‘On=Cont Full’
7	99-0885	Legend 30 ‘Down/Up’
8	99-8156	Push Penny 1/2 Liquid Tite

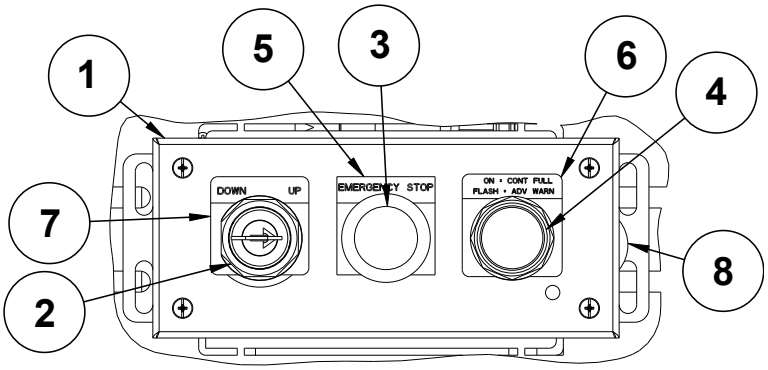


Figure 18.

1. **DOWN/UP (Keyed Start Switch)** – This spring-return switch requires a key for operation. Insert the key in the DOWN position and turn clockwise to the UP position and release. The compaction ram travels to the UP position and stops. At that time, the feed door can be opened for loading of refuse. When the material is loaded, close the door. The ram automatically compacts the refuse, returns to the midpoint position and stops. After use, remove the key.
2. **EMERGENCY STOP** – When depressed, this mushroom head pushbutton stops ALL powered operation of the compactor. Push this button to stop the machine in the event of an emergency or any time the machine needs to be stopped.

   NOTE: Be thoroughly familiar with the location of each emergency stop button BEFORE operating the machine.

3. **INDICATOR LIGHT (ON=CONT FULL + FLASH=ADV WARN)** –

   - **ADVANCED WARNING** – Flashes to alert the operator that 400 psi is remaining before the pressure switch activates and shuts the unit OFF, when the container is full.
   - **CONTAINER FULL** – Lit permanently indicates that the container is full. To reset the light, empty the container, and replace the container.

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OPERATING INSTRUCTIONS

Standard and Untouchable Unit

⚠ WARNING

Do NOT operate compactor until operating instructions are thoroughly understood.



Figure 19.

Prior to start-up of the compactor each day, check the items found in the **"Daily (or every 8 hours of operation)" on page 63**.

1. Insert the key into the key switch (DOWN position). Turn it clockwise (to the UP position), hold for 1 to 2 seconds, then release. The compactor ram retracts to the top position and stops.
2. Open the feed door and place the material to be discarded into the compactor.
3. Close the feed door.

   The ram automatically cycles down and compacts the refuse. The ram then returns to the mid position and stops.
4. Repeat steps 1 - 3, if necessary, after the compactor has stopped.
5. When you have finished using the compactor, remove the key from the key switch.
6. When the CONTAINER FULL light comes on, it is time to empty the container. Refer to **"HAULER INFORMATION" on page 36**.

IN CASE OF EMERGENCY: Push the large RED button to STOP!

Figure 20.

Tips For Maximum Compaction

- Place refuse uniformly across the compaction area.
- ALWAYS keep the feed door closed. This assures that the ram has compacted the refuse and has stopped at the mid position where it holds constant pressure on the refuse.

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SECTION 4
HAULER INFORMATION

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VIP 4/6/8 FRONT LOAD

NOTE: Front load, front feed VIP shown (side feed containers handle similarly).

Standard & Untouchable Unit

⚠ CAUTION

Stand clear when container is being lifted.

1. If applicable, make sure the green driver's light is illuminated.
2. Remove and empty the container.
   NOTE: If the container does not have casters fitted, you must raise the container slightly to remove.
3. Insert the empty container completely under the compactor head.

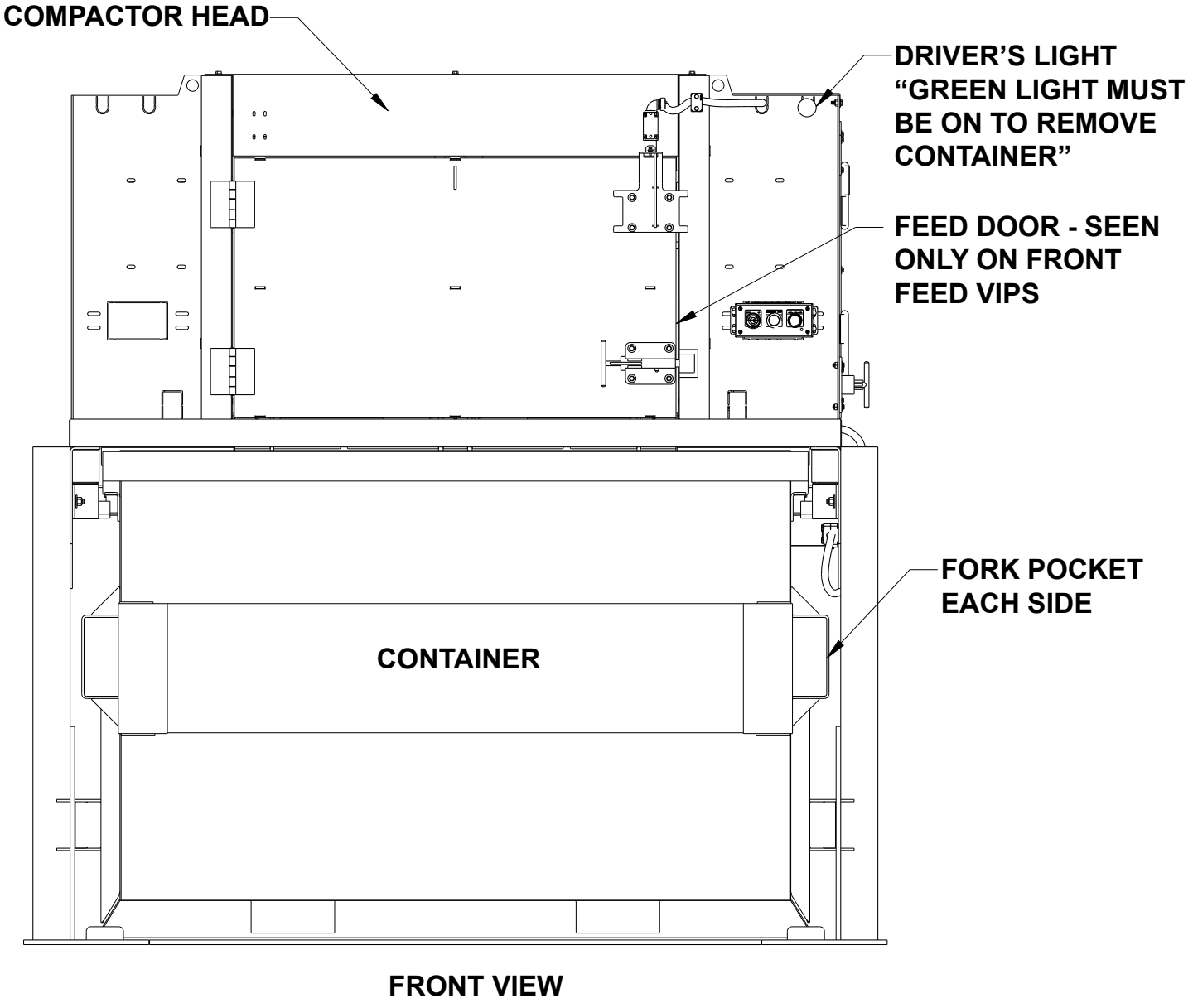


Figure 21. Front View

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UNTOUCHABLE VIP

⚠ CAUTION

Stand clear when container is being lifted.

1. Unlatch and open container gate completely.
2. Remove and empty the container.
3. Insert the empty container completely under the compactor head.
4. Close container gate and latch securely.

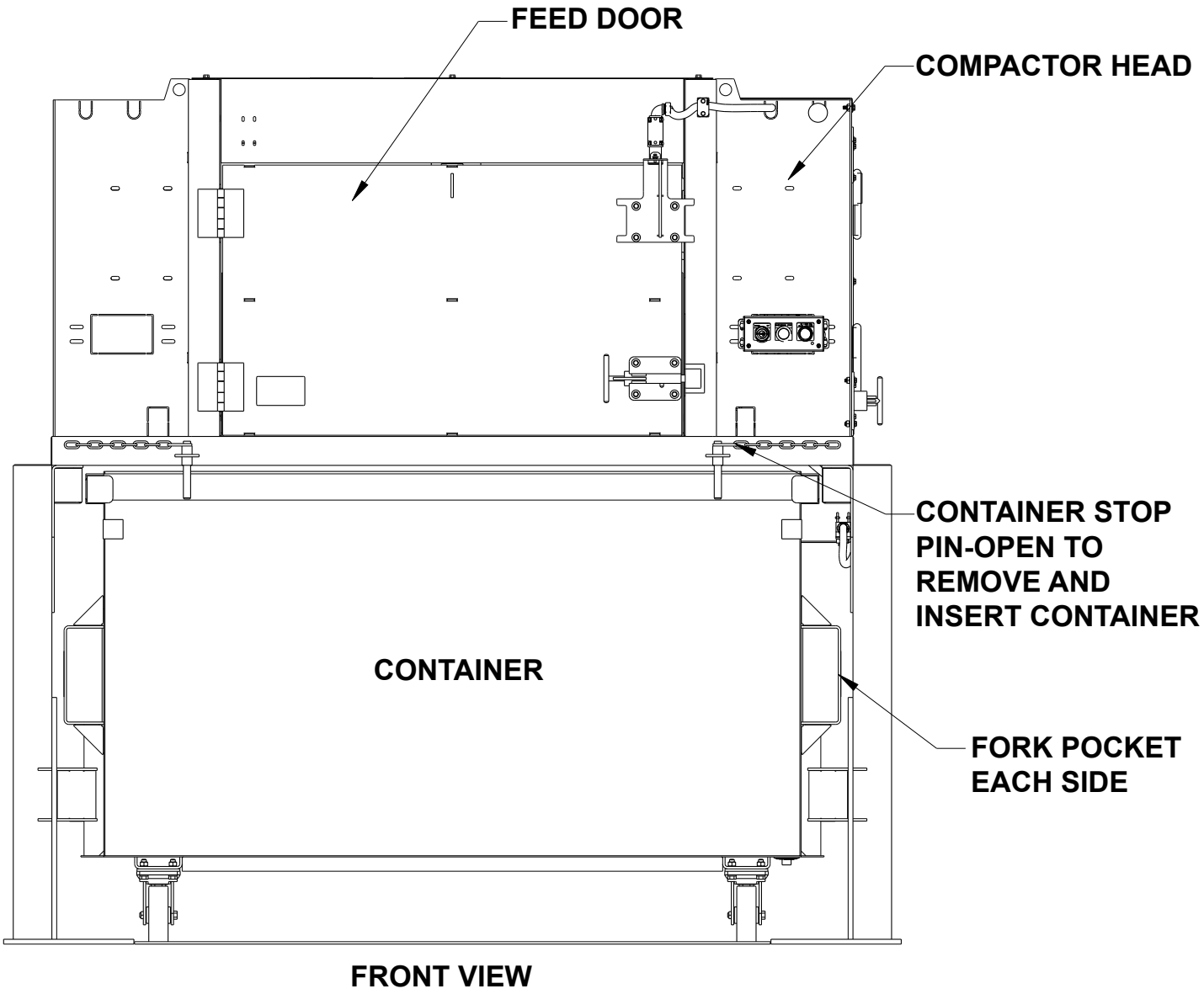


Figure 22. Front View

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UNTOUCHABLE REAR-LOAD

⚠ CAUTION

Stand clear when container is being lifted.

1. Make sure the green driver's light is illuminated. Unpin and raise container retainer.

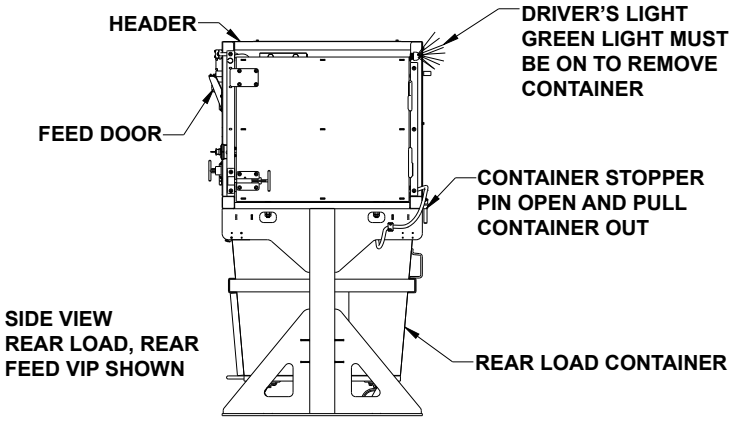


Figure 23.

2. Pull container out from under the compactor head.

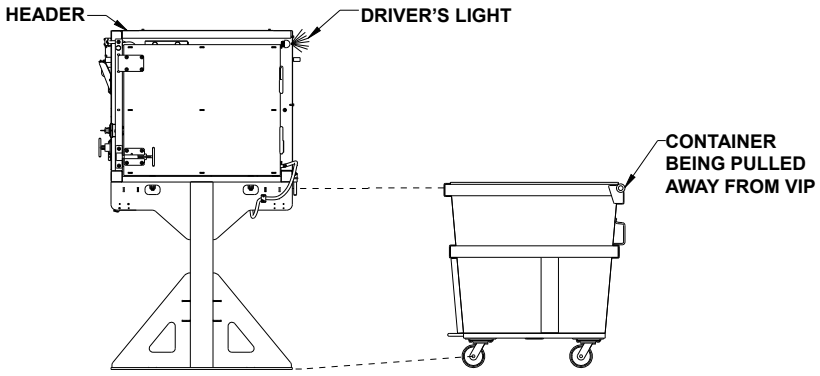


Figure 24.

3. Connect truck cable to container hinge lug and make sure container trunion bar is engaging truck properly.
4. Slowly raise and empty the container.

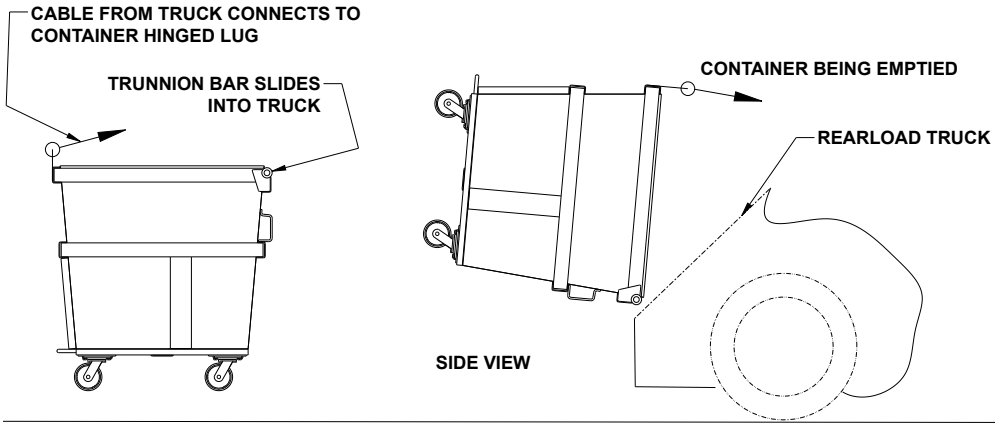


Figure 25.

5. Insert the empty container completely under the compactor head.
6. Close and pin container retainer securely.

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SECTION 5
SERVICE

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COMPONENT LOCATIONS

⚠ WARNING

Never enter any part of the compactor until the unit has been locked-out and tagged-out per **"Lock-Out/Tag-Out Instructions" on page 5**.

The diagram below shows the location of key components of the VIP.

NOTE: Untouchable model will vary in the power unit placement (side mounted with side access); however the components do not vary.

This section of the manual includes procedures for maintaining most of these components. For information not covered, visit **"www.marathonequipment.com" on page 103**.

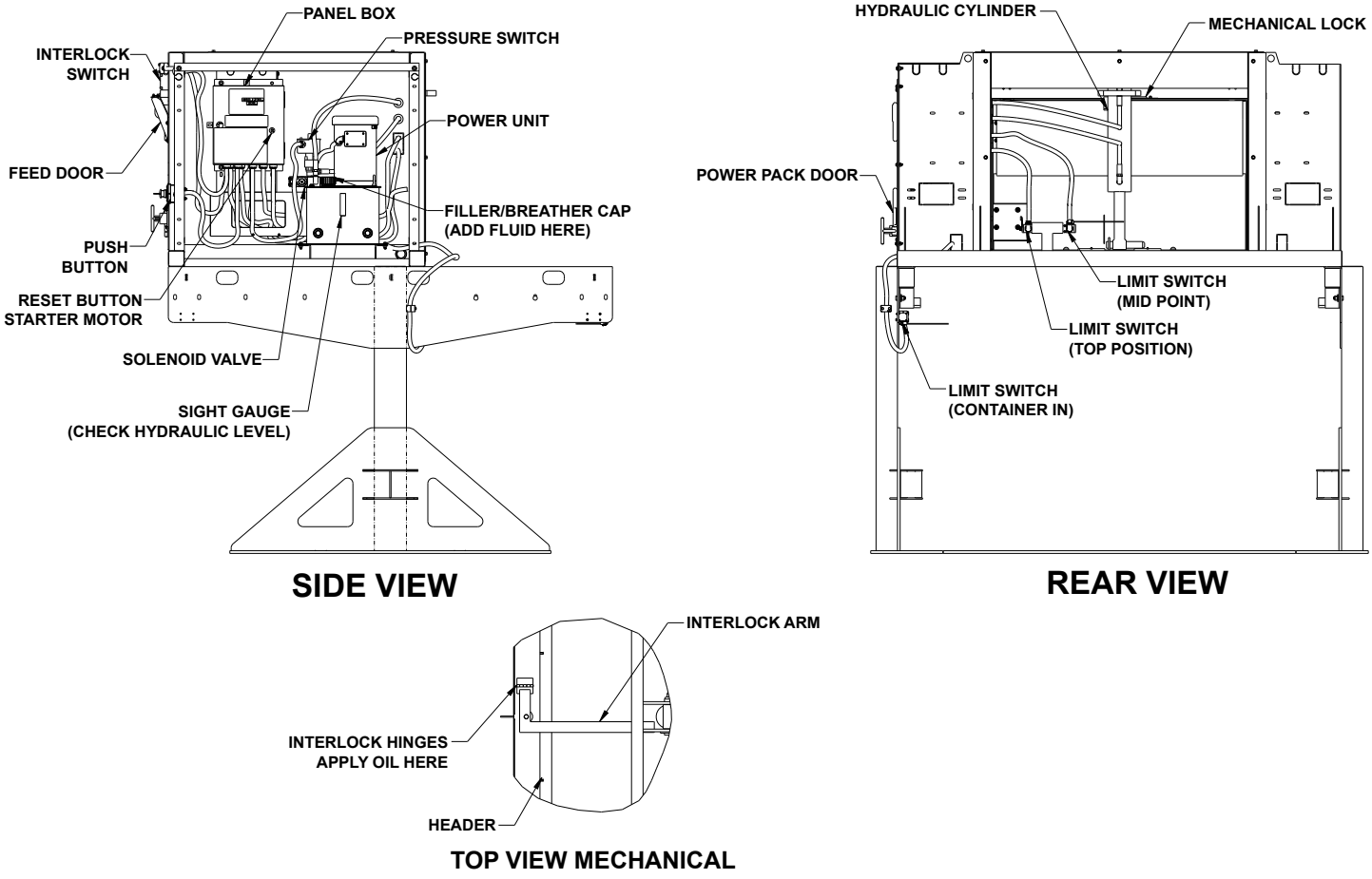


Figure 26.

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LUBRICATION DIAGRAM

⚠ WARNING

Never enter any part of the compactor until the unit has been locked-out and tagged-out per **"Lock-Out/Tag-Out Instructions" on page 5**.

NOTE: USE AN ALL-PURPOSE INDUSTRIAL GRADE GREASE WHERE GREASE IS SPECIFIED. FOR OIL, USE AN ALL PURPOSE MACHINE OIL WHERE REQUIRED.

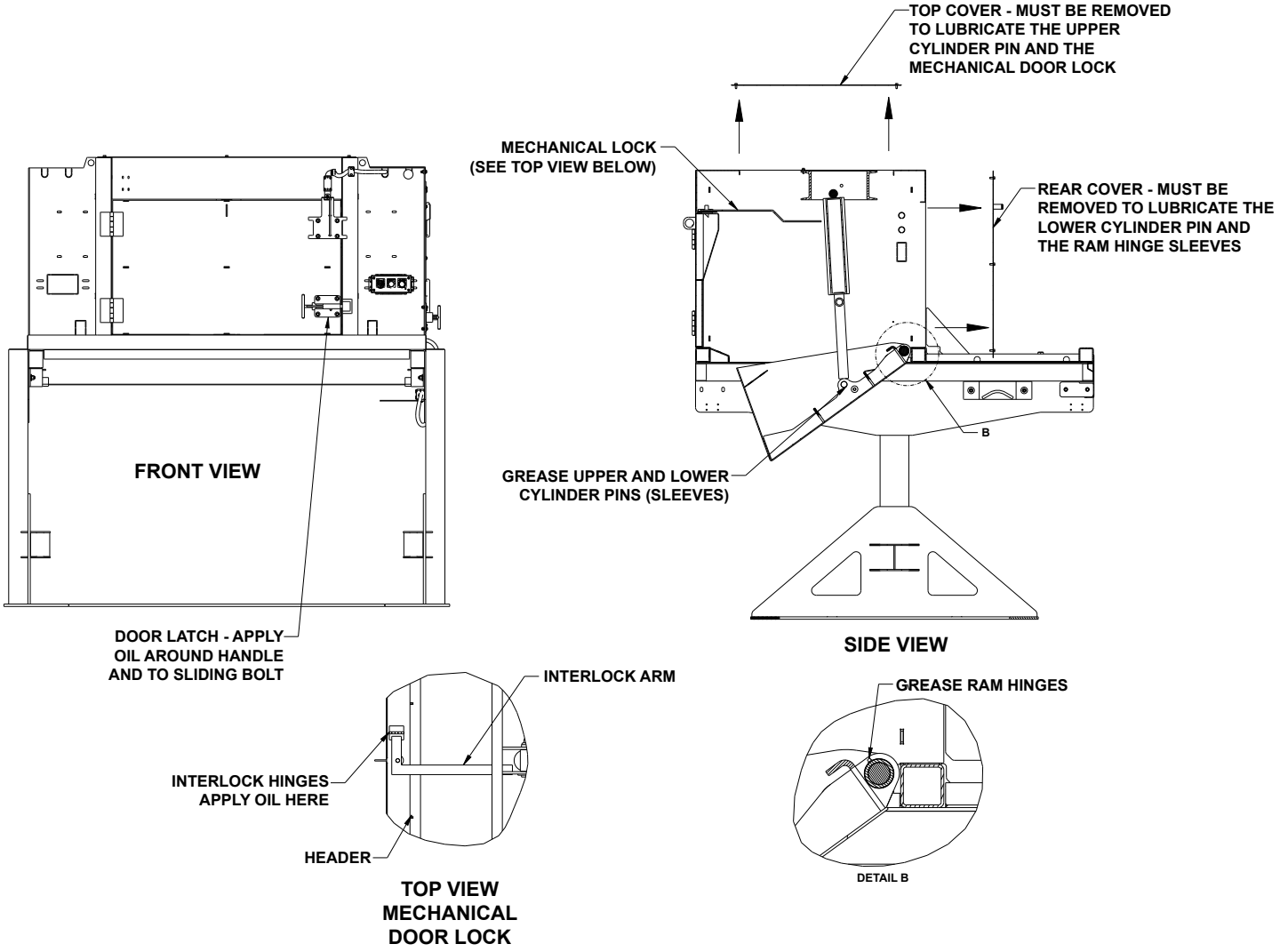


Figure 27.

NOTE: Covers MUST be replaced before operating the unit.

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LIMIT SWITCH ADJUSTMENT (TOP)

⚠ WARNING

Never enter any part of the compactor until the unit has been locked-out and tagged-out per **"Lock-Out/Tag-Out Instructions" on page 5**.

1. Locate top position limit switch.

   NOTE: The limit switch for the ram top position should be set to actuate when the cylinder is ½" (12.7 mm) from bottoming out.
2. Loosen limit switch arm.
3. Make sure that compactor is clear of all personnel. Raise ram to a position where the cylinder lacks ½" (12.7 mm) before bottoming out.
4. Position limit switch arm against ram plate and tighten adjusting screw.
5. Make sure that compactor is clear of all personnel and test run compactor.

   NOTE: If the cylinder bottoms out, repeat steps 3 & 4 increasing the ½" (12.7 mm) measurement by an additional 1/8" (3.2 mm).
6. When adjustment is complete, replace the cover.

   NOTE: Covers MUST be replaced before operating the unit.

Additional Safety Guidelines

1. Never reach under the header, VIP legs, power-pack or any suspended part during removal or installation.
2. Keep all personnel clear of the work area while components are being repositioned.
3. Use proper PPE at all times, including gloves, safety glasses, and steel-toe footwear.
4. Ensure tools and parts are placed on stable surfaces to prevent slipping or falling.
5. Confirm all lifting slings, hooks, and attachments are properly secured before applying load.
6. Confirm all interlocks, lights, and electrical components are reinstalled and functioning before returning the unit to service.
7. Use an approved safety ladder or platform when accessing elevated components.
8. Restore power only after verifying that all guards, covers, and safety devices are securely in place.

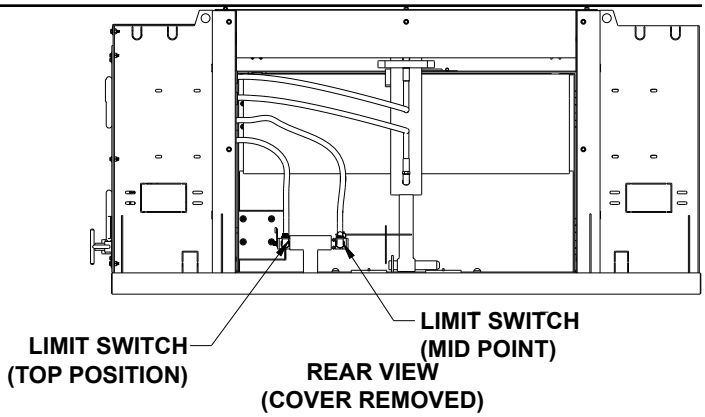
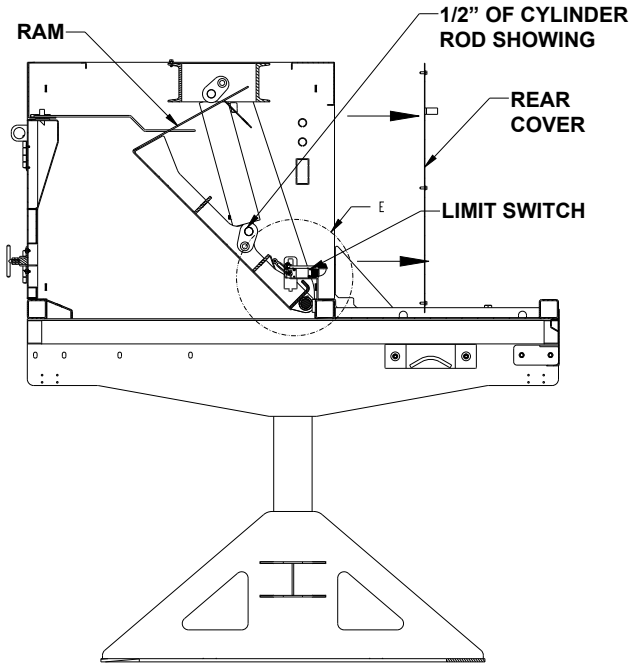


Figure 28.



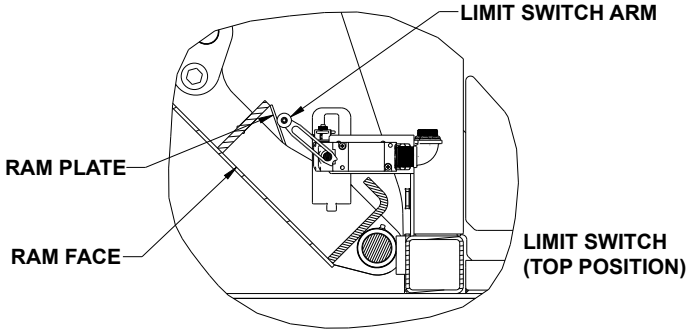


Figure 29.

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LIMIT SWITCH ADJUSTMENT (MIDPOINT)

⚠ WARNING

Never enter any part of the compactor until the unit has been locked-out and tagged-out per **"Lock-Out/Tag-Out Instructions" on page 5**.

1. Locate the midpoint limit switch. NOTE: The limit switch for the ram midpoint position should be set so the ram face stops 1 ½" – 2" (38 – 50 mm) above the bottom of the door opening.
2. Run ram to UP position and open the door. Make a 6" (152.5 mm) chalk mark horizontally located 21 ¼" (540 mm) above the bottom of the door opening on the inside wall of the VIP.
3. Close the door and remove the rear access cover.
4. Clear the compactor area of all people and run the ram down all the way, then push the STOP button.
5. Loosen limit switch arm (rod) and slide out of actuator.
6. Clear the compactor area of all personnel. Manually engage the motor starter until the top of the ram reaches the chalk mark.

   NOTE: Release the starter before the ram reaches the mark because the ram will drift into position.
7. Extend the limit switch arm back through the actuator and position against the back of the slot in the actuator (as shown).
8. Tighten the Allen screws on the arm assembly.
9. Clear the compactor area of all people and run the machine to check correct operation.
10. Replace rear access cover. NOTE: Covers MUST be replaced before operating the unit.

Additional Safety Guidelines

1. Never reach under the header, VIP legs, power-pack or any suspended part during removal or installation.
2. Keep all personnel clear of the work area while components are being repositioned.
3. Use proper PPE at all times, including gloves, safety glasses, and steel-toe footwear.
4. Ensure tools and parts are placed on stable surfaces to prevent slipping or falling.
5. Confirm all lifting slings, hooks, and attachments are properly secured before applying load.
6. Confirm all interlocks, lights, and electrical components are reinstalled and functioning before returning the unit to service.
7. Use an approved safety ladder or platform when accessing elevated components.
8. Restore power only after verifying that all guards, covers, and safety devices are securely in place

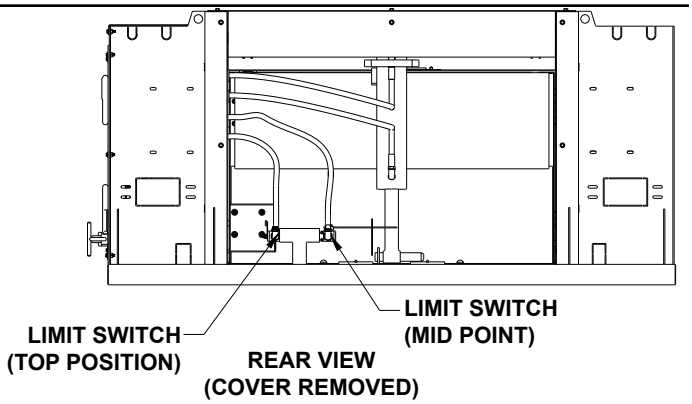


Figure 30.

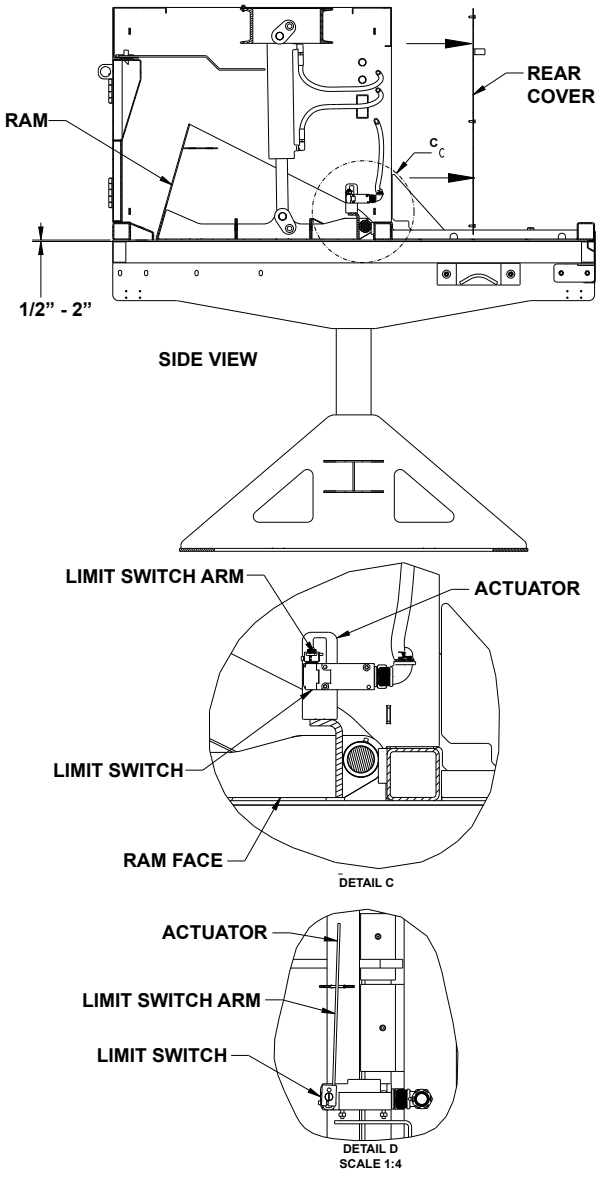


Figure 31.

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INTERLOCK SWITCH ADJUSTMENT & TESTING

⚠ WARNING

Never enter any part of the compactor until the unit has been locked-out and tagged-out per **"Lock-Out/Tag-Out Instructions" on page 5**.

Adjustment

1. Loosen the screws securing the interlock switch.
2. Adjust the interlock switch until proper engagement is achieved. Securely tighten all screws.
3. Restore power to the unit.
4. Ensure the compactor area is clear of personnel, then operate the machine to verify proper function. When correctly adjusted and in good condition, the solenoid switch will prevent the unit from running with the door open.

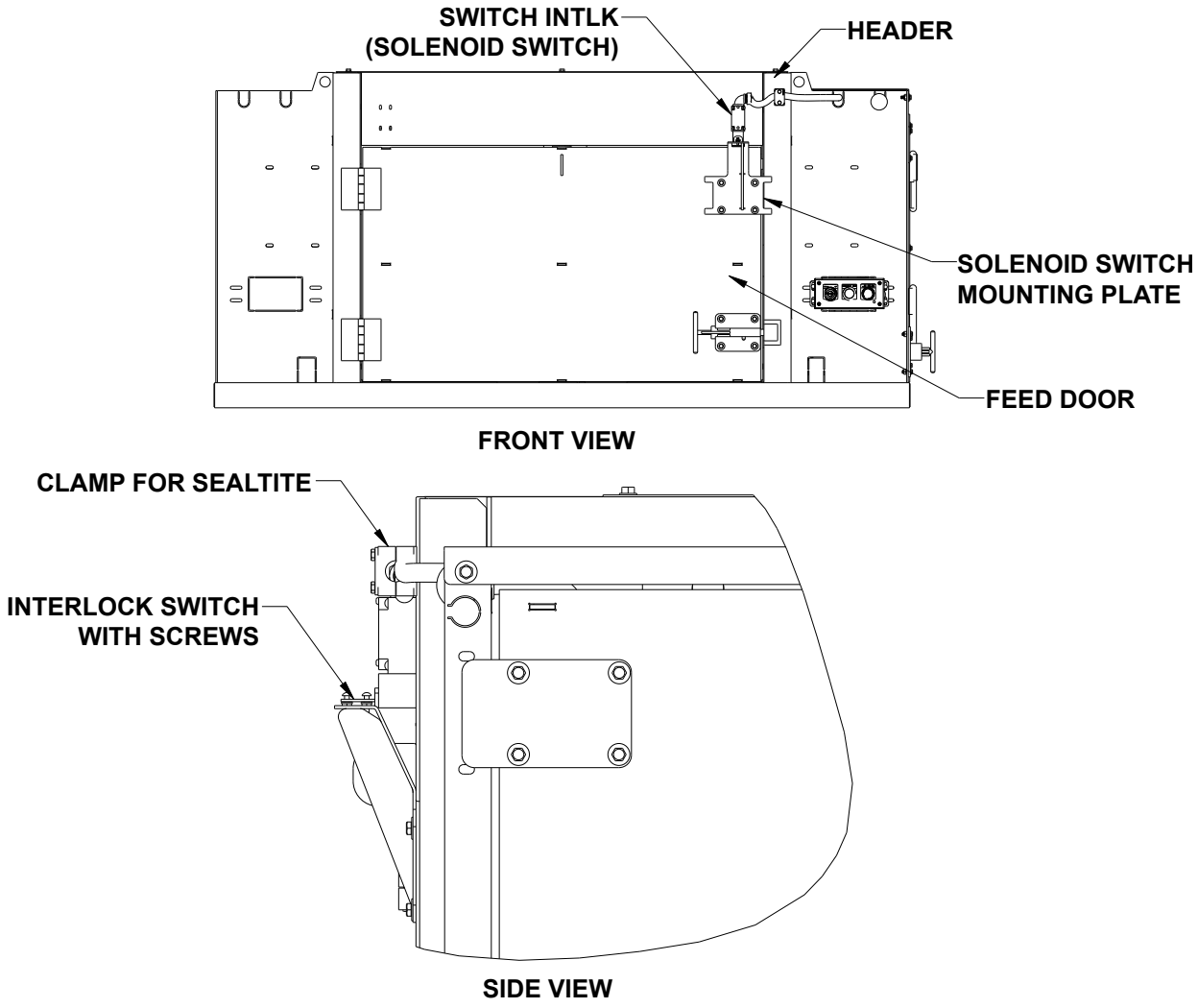


Figure 32.

Testing

If further testing is required, a qualified and authorized electrician should make the following check:

1. With the power on the panel box, connect a voltmeter (120V) to terminal #2 and #7. The interlock is made if the indicated voltage is 110V.
2. Connect the volt meter to terminal #4 and #7. The meter should read 110V with the door closed.
3. While watching the volt meter, have someone open the door. The voltage should then read 0 volts, indicating a good switch.

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CONTAINER INTERLOCK ADJUSTMENT

⚠ WARNING

Never enter any part of the compactor until the unit has been locked-out and tagged-out per **"Lock-Out/Tag-Out Instructions" on page 5**.

1. Lock-Out/Tag-Out the compactor as specified in Lock-Out/Tag-Out Instructions.
2. Loosen the screw and nut securing the limit switch arm. Confirm the arm and rod are set at an angle inside the unit.
3. Adjust the arm to engage with actuator plate at the container stop position.
4. Re-tighten screw/nut and check measurements.

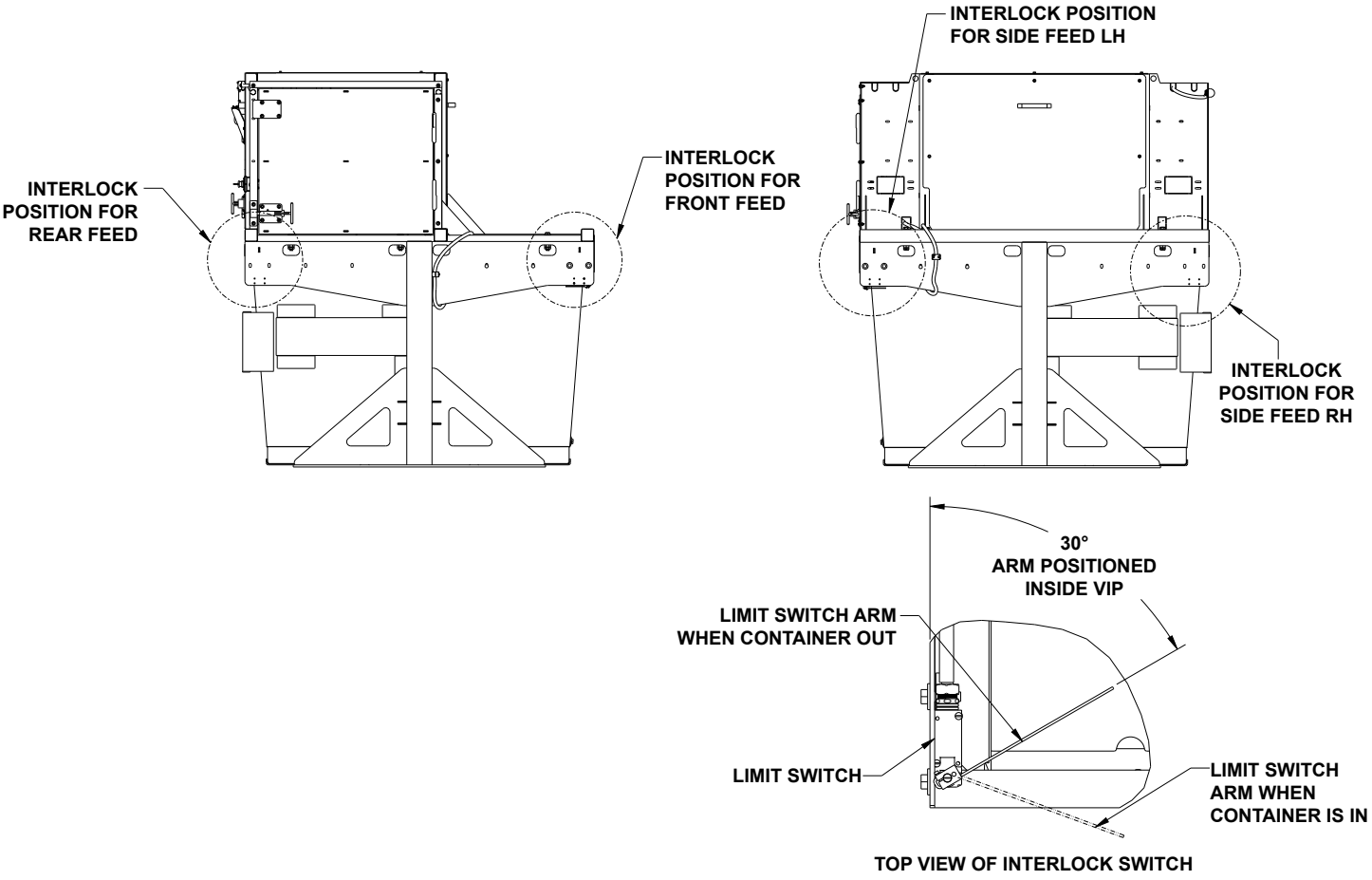


Figure 33.

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SECTION 6
REPLACEMENT PARTS

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REPLACEMENT PARTS

Bolt Kit For Replacement

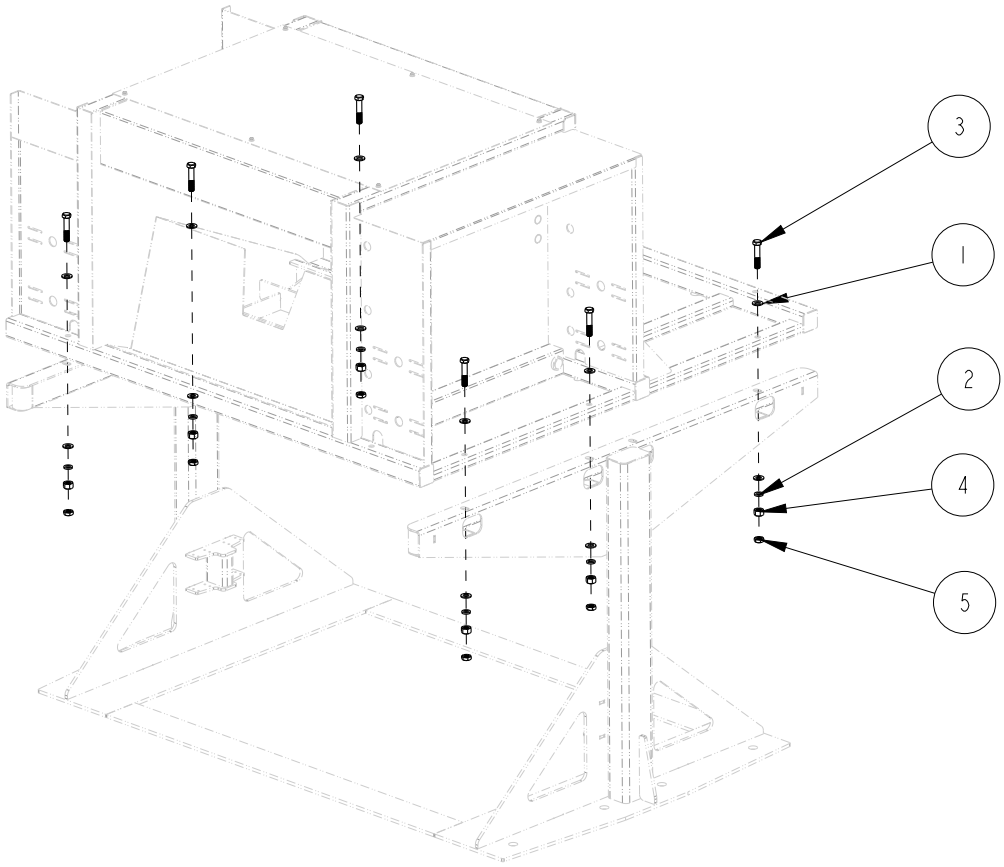


Figure 34.

	ITEM	PART #	DESCRIPTION
UNTOUCHABLE FL/RL 471177	1	05-5208	Washer 3/4 Flat
	2	05-0226	Washer 3/4 Lock
	3	05-6174	Bolt 3/4-10 X 3 3/4
	4	05-3962	Nut 3/4 -10
	5	05-2463	Jam Nut 3/4 – 10

	ITEM	PART #	DESCRIPTION
4,6,8 FL/RL 471116	1	05-5208	Washer 3/4 Flat
	2	05-0226	Washer 3/4 Lock
	3	05-6174	Bolt 3/4-10 X 3 3/4
	4	05-3962	Nut 3/4 -10
	5	05-2463	Jam Nut 3/4 – 10

	ITEM	PART #	DESCRIPTION
4,6,8 SIDE FEED 471176	1	05-5208	Washer 3/4 Flat
	2	05-0226	Washer 3/4 Lock
	3	05-5157	Bolt 3/4-10 X 5
	4	05-3962	Nut 3/4 -10
	5	05-2463	Jam Nut 3/4 – 10

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REPLACEMENT PARTS

Rear Cover Assembly

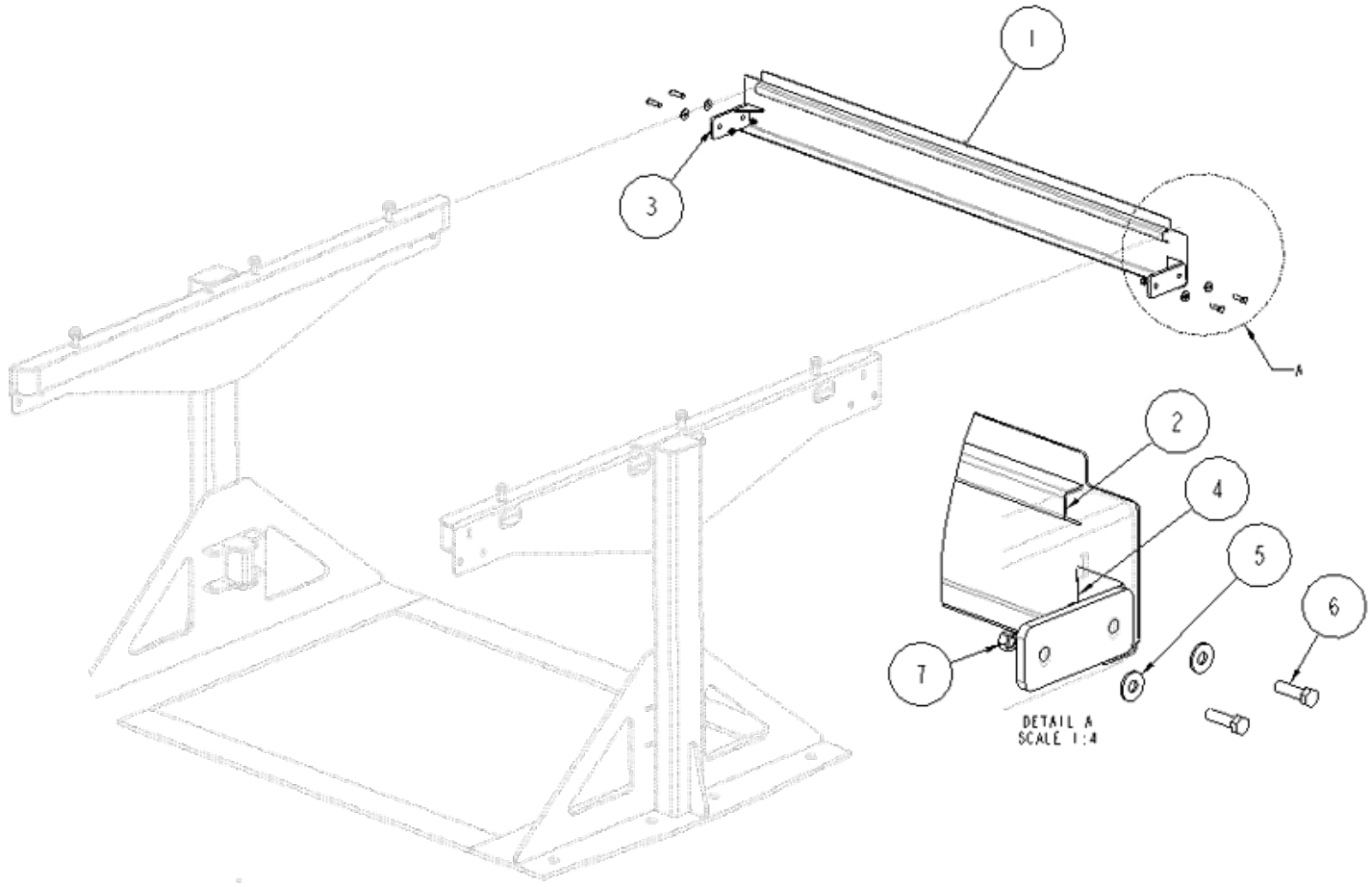


Figure 35.

	ITEM	PART #	DESCRIPTION
471180 REAR COVER ASSEMBLY	1	37-8634	Rear Cover
	2	37-8635	Baffle Plate
	3	37-8633	Mount Plate
	4	22-3049	Mount Support Plate
	5	05-0052	Washer, 1/2 Flat
	6	05-2568	Bolt 1/2 -13 X 1 3/4 Hhcs
	7	05-0018	Nut 1/2-13 Hex

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REPLACEMENT PARTS

Shelf Assembly

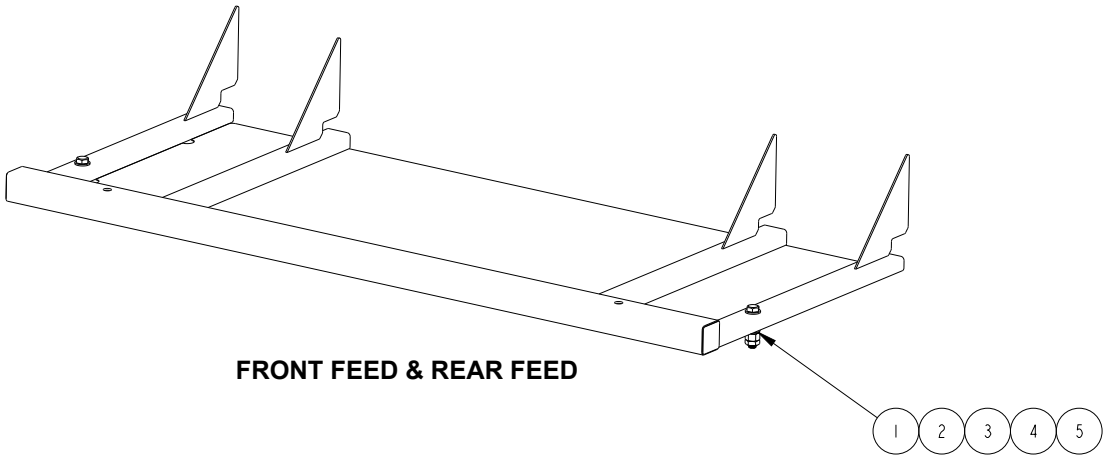


Figure 36.

	ITEM	PART #	DESCRIPTION
470156 SHELF ASSEMBLY	1	05-5208	Washer 3/4 Flat
	2	05-0226	Washer 3/4 Lock
	3	05-6174	Bolt 3/4-10 X 3 3/4
	4	05-3962	Nut 3/4 -10
	5	05-2463	Jam Nut 3/4 – 10

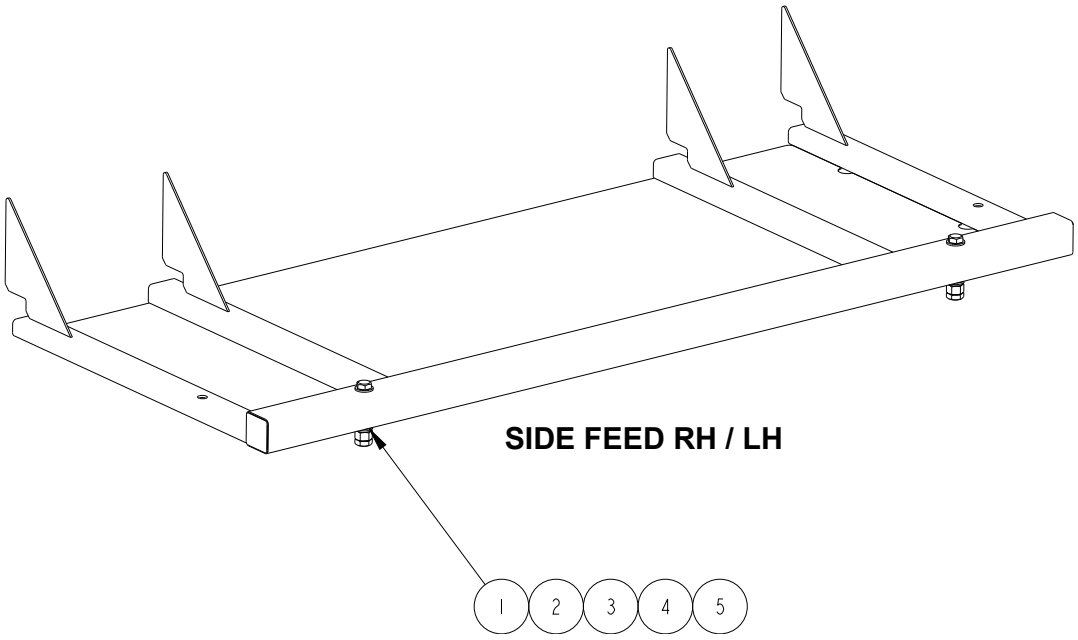


Figure 37.

	ITEM	PART #	DESCRIPTION
470156 SHELF ASSEMBLY	1	05-5208	Washer 3/4 Flat
	2	05-0226	Washer 3/4 Lock
	3	05-5157	Bolt 3/4-10 X 5
	4	05-3962	Nut 3/4 -10
	5	05-2463	Jam Nut 3/4 – 10

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REPLACEMENT PARTS

Head Assembly

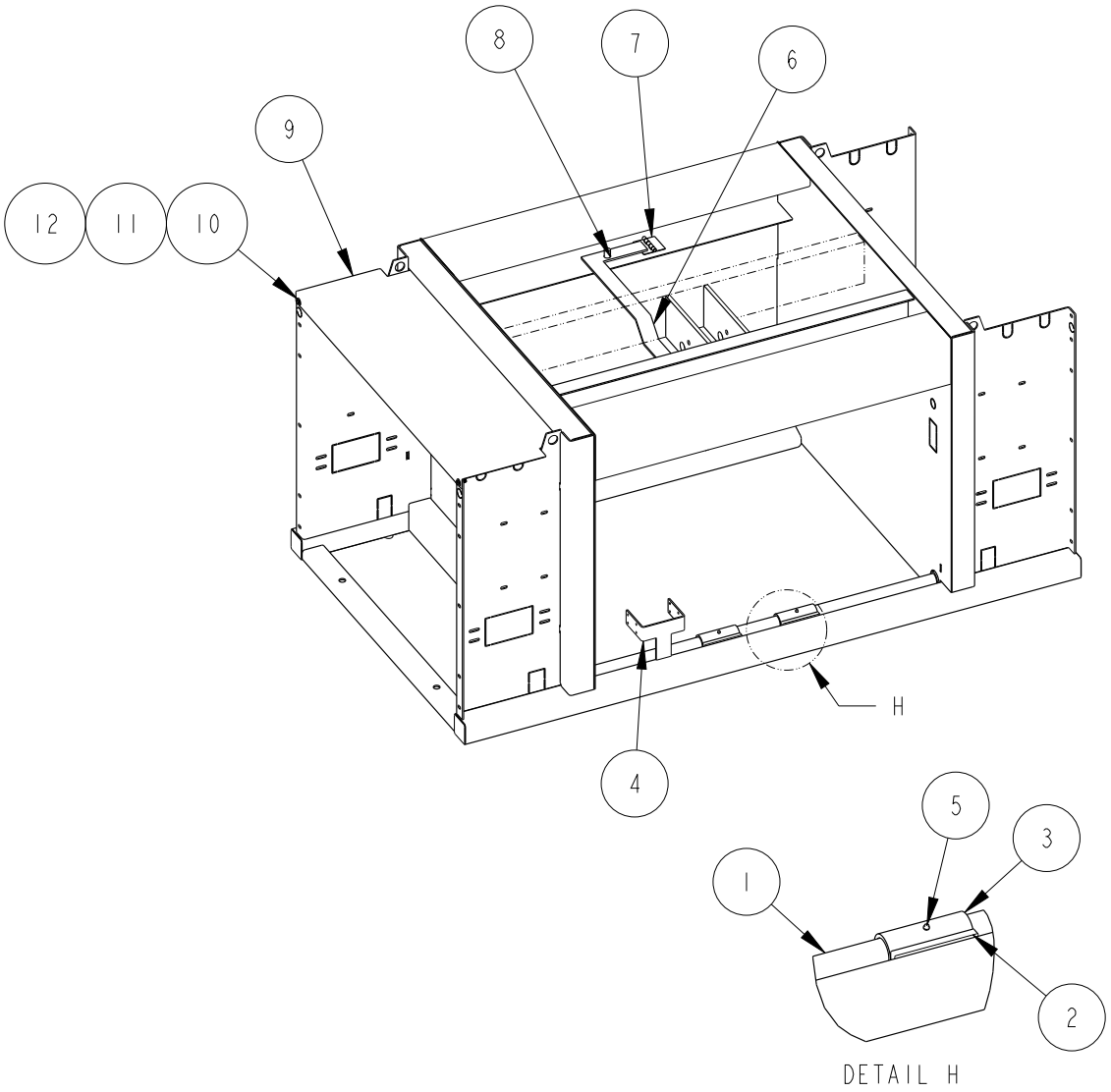


Figure 38.

ITEM	PART #	DESCRIPTION
1	37-9037	Pivot Rod
2	37-8662	Bush
3	09-2883	Pivot Tube
4	40-3924	Interlock Mount Plate
5	05-0127	Grease Fitting
6	38-9036	Actuator Bar
7	05-0261	Hinge 3 X 3
8	09-2969	Interlock Pin
9	40-4146	Top Cover
10	05-0198	Washer 5/16 Flat
11	05-5566	Bolt 5/16-18 X 1 HHCS
12	05-0105	Nut 5/16 -18 Hex
-	470155	Header Assy

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REPLACEMENT PARTS

Ram Assembly

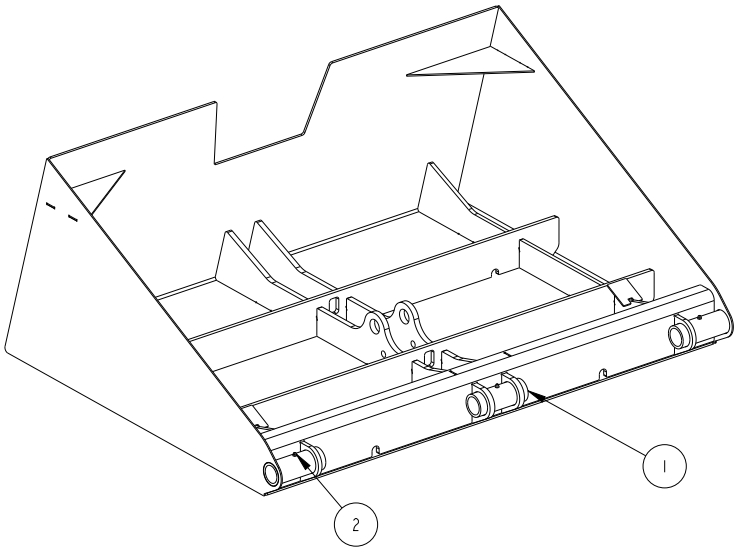


Figure 39.

ITEM	PART #	DESCRIPTION
1	09-2883	Pivot Tube
2	05-0127	Grease Fitting 3/16 Drive Type
-	467872	Ram Assy

Fixed Leg/Post Assembly 4/6/8

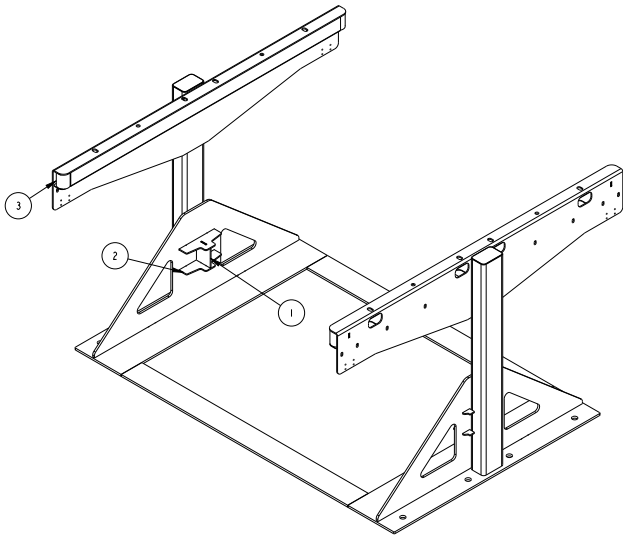


Figure 40.

ITEM	PART #	DESCRIPTION
1	38-2377	Support Plate
2	40-3200	Stopper Plate
3	40-3179	Deflector Tube
-	474036	Leg VIP Bolt-On 4CY FL FF/RF/SF
-	470157	Leg VIP Bolt-On 6CY FL FF/RF/SF
-	471500	Leg VIP Bolt-On 8CY FL FF/RF/SF

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REPLACEMENT PARTS

Fixed Leg/Post Assembly FL Untouchable

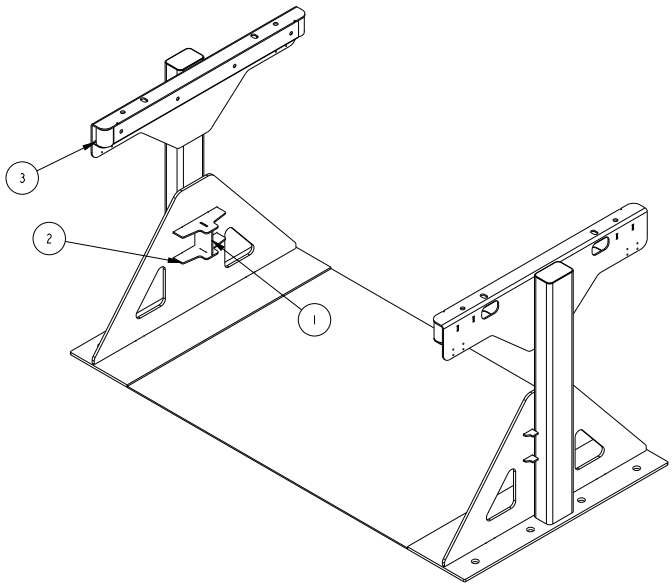


Figure 41.

ITEM	PART #	DESCRIPTION
1	38-2377	Support Plate
2	40-3200	Stopper Plate
3	40-3179	Deflector Tube
	470391	Leg VIP Bolt-On 3CY

Fixed Leg/Post Assembly RL Untouchable

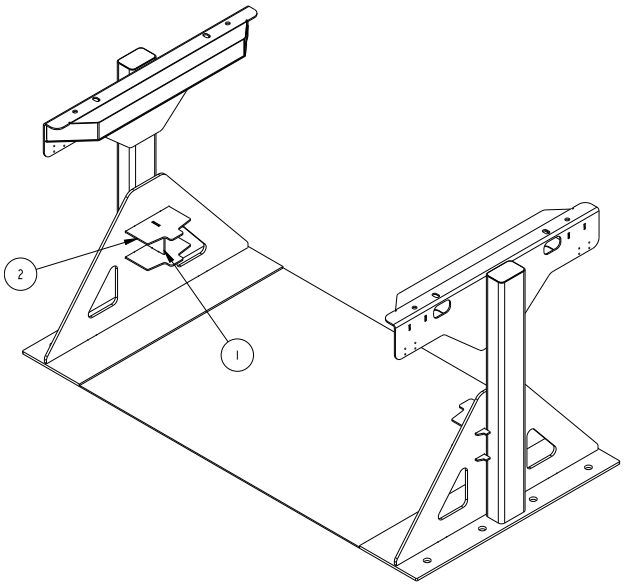


Figure 42.

ITEM	PART #	DESCRIPTION
1	38-2377	Support Plate
2	40-3941	Stopper Plate
-	470749	Leg Assy Bolt-On VIP 3CY RL

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REPLACEMENT PARTS

Power-Pack Door Assembly

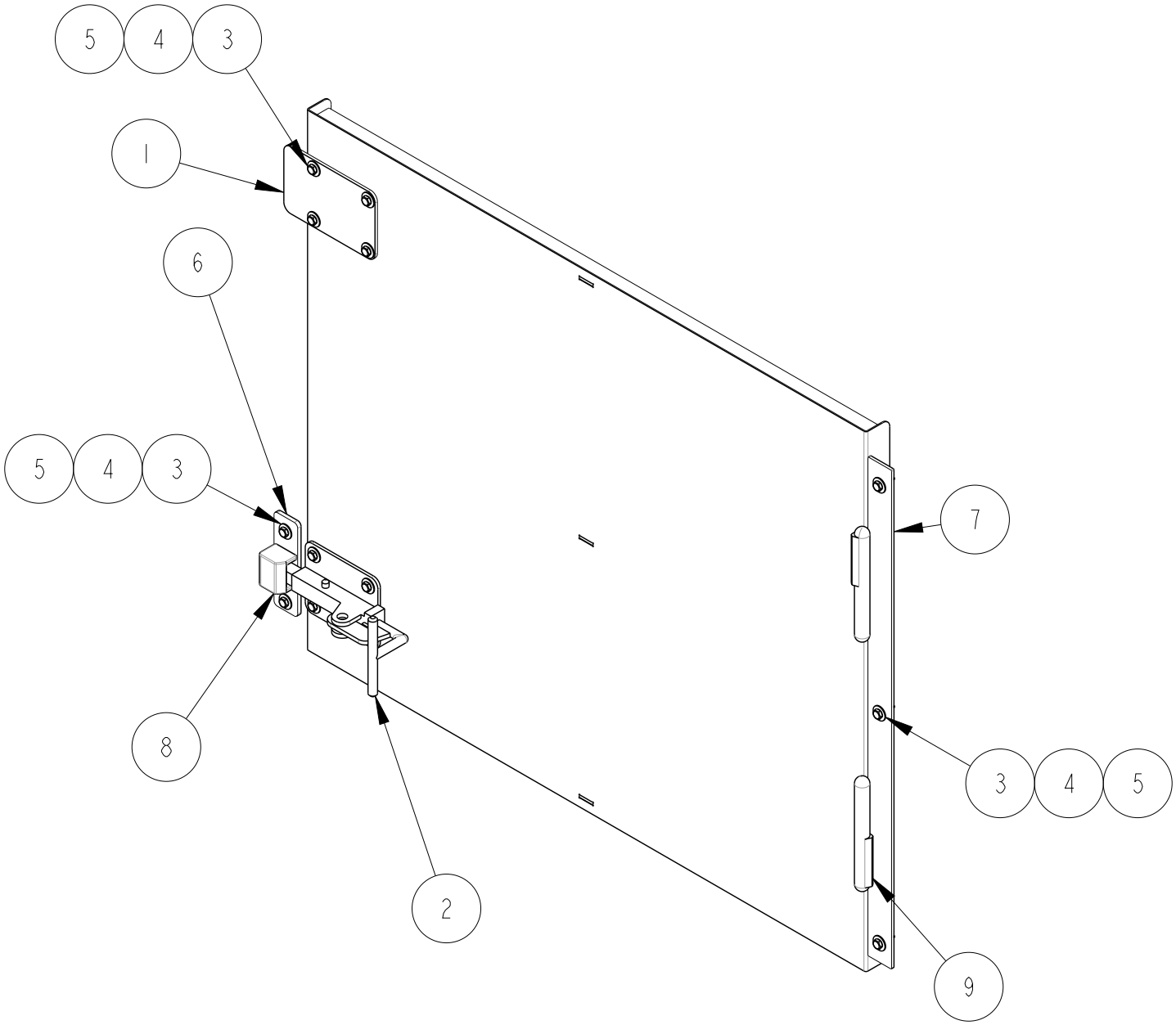


Figure 43.

ITEM	PART #	DESCRIPTION
1	38-3938	Support Plate
2	05-5499	Stopper Plate
3	05-0198	Leg Assy Bolt-On VIP 3cy RL
4	05-5566	Bolt 5/16-18 Hex HHCS
5	05-0105	Nut 5/16-18 Hex
6	38-2371	Latch Plate
7	38-2372	Plate
8	05-5027	Striker Slam Latch
9	05-4989	Hinge 7 Weld
-	470158	Door Assy PPK VIP

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REPLACEMENT PARTS

Feed Door Assembly

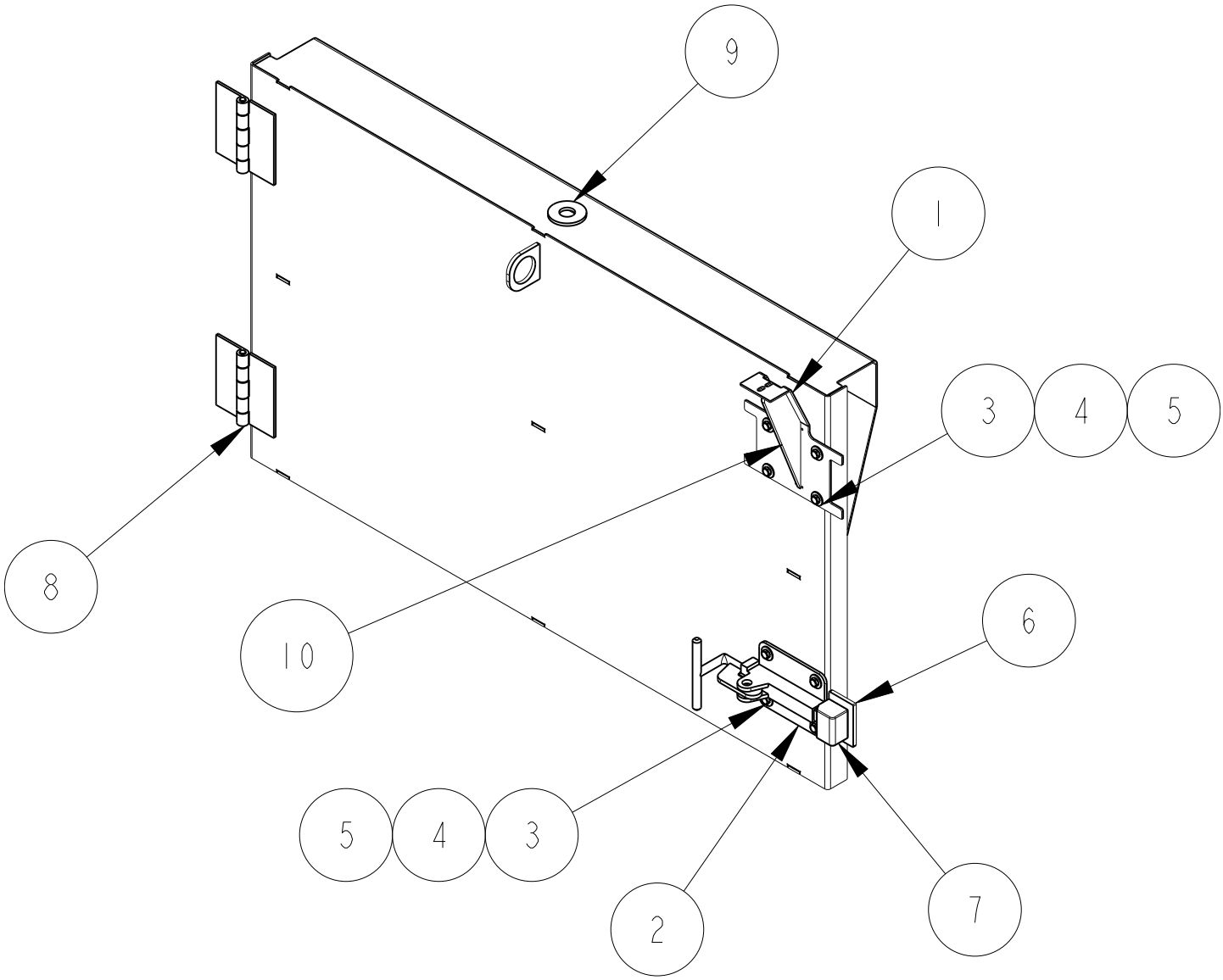


Figure 44.

ITEM	PART #	DESCRIPTION
1	38-3379	Bracket For Mechanical Switch
2	05-5499	Latch Bolt On For Auto Start
3	05-0198	Washer 5/16 Flat
4	05-5566	Bolt 5/16-18 X 1 HHCS
5	05-0105	Nut 5/16-18 Hex
6	37-8654	Support Plate
7	05-5027	Stiker Slam Latch
8	05-3620	Hinge
9	05-0266	Washer 7/8 Flat
10	38-9012	Gusset
-	470485	Feed DR Assy VIP

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REPLACEMENT PARTS

Head Cover Assembly

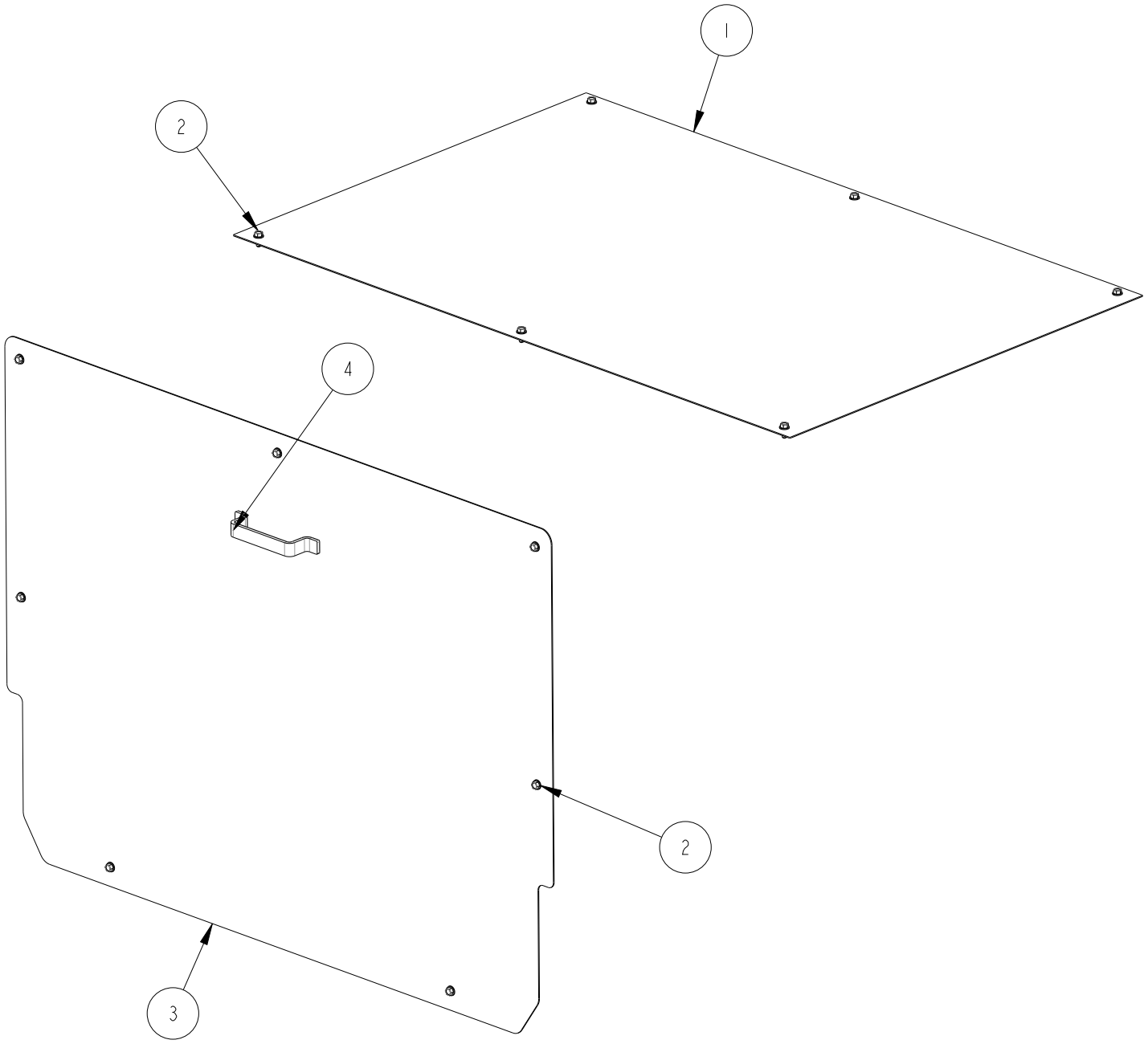


Figure 45.

ITEM	PART #	DESCRIPTION
1	40-3377	Top Cover
2	05-0225	Screw 5/16-18 X 3/4
3	40-3378	Rear Cover
4	15-0015	Handle
-	470351	Cover Assembly

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REPLACEMENT PARTS

Hydraulics & Electrical

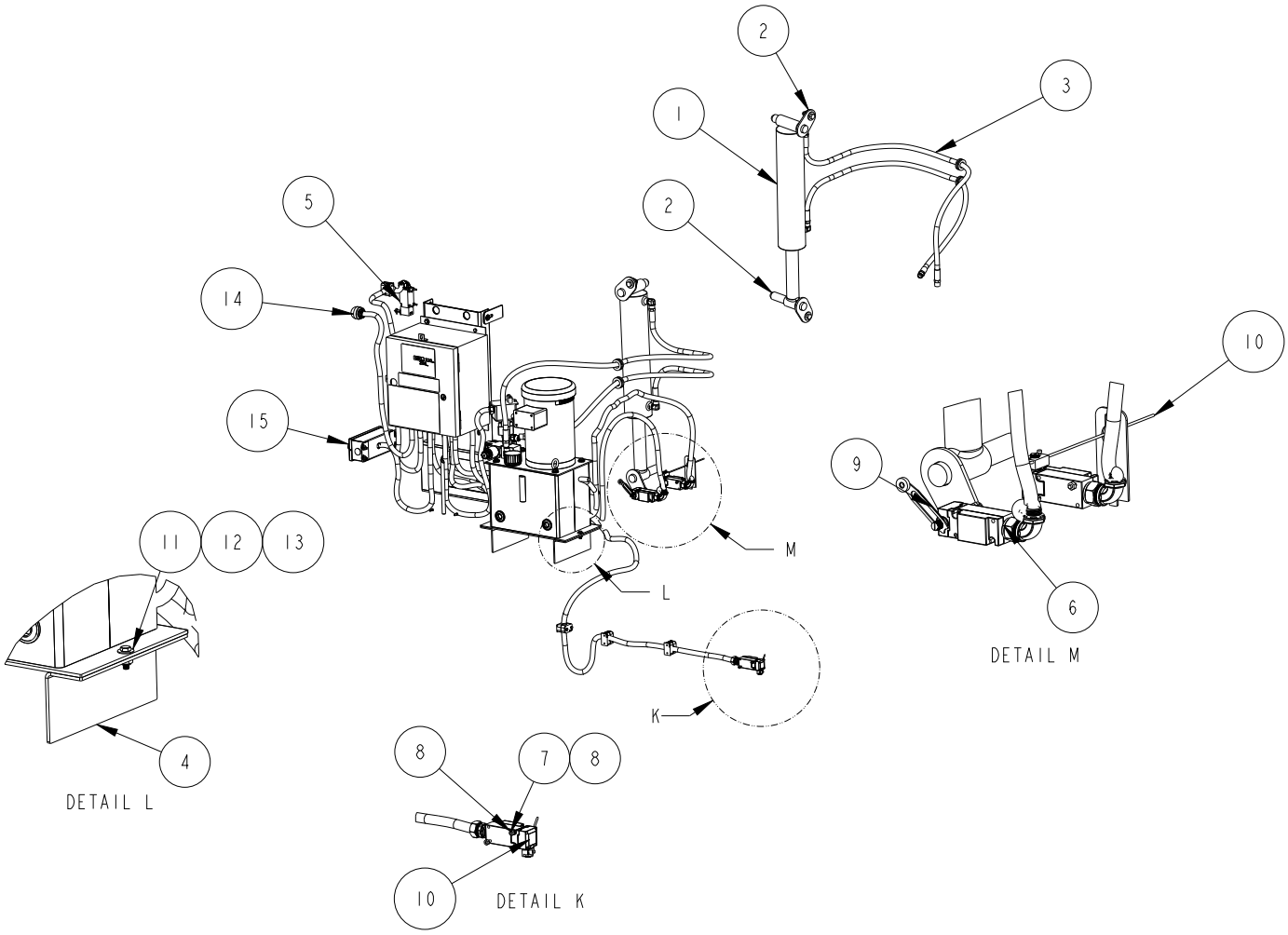


Figure 46.

ITEM	PART #	DESCRIPTION
1	04-0105	Cylinder
	04-0106	Seal Kit F/04-0105 CYL
2	46-6852	Cylinder Pin Assy
3	470552	Hose Kit
4	38-2757	Mounting Plate
5	03-5586	Switch INTLK
6	03-0012	Limit Switch
7	05-4738	Screw 10-32
8	05-0010	Nut 10-32
9	03-7558	Limit Switch Arm With Roller
10	03-7569	Limit Switch Actuator Rod
11	05-0198	Washer 5/16 Flat
12	05-5566	Bolt 5/16-18 X 1 HHCS
13	05-0105	Nut 5/16-18 Hex
14	03-7885	Driver Light
15	474078	Pushbtn Assy

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REPLACEMENT PARTS

Extended Shelf & Support Tube Assembly (For RL VIP)

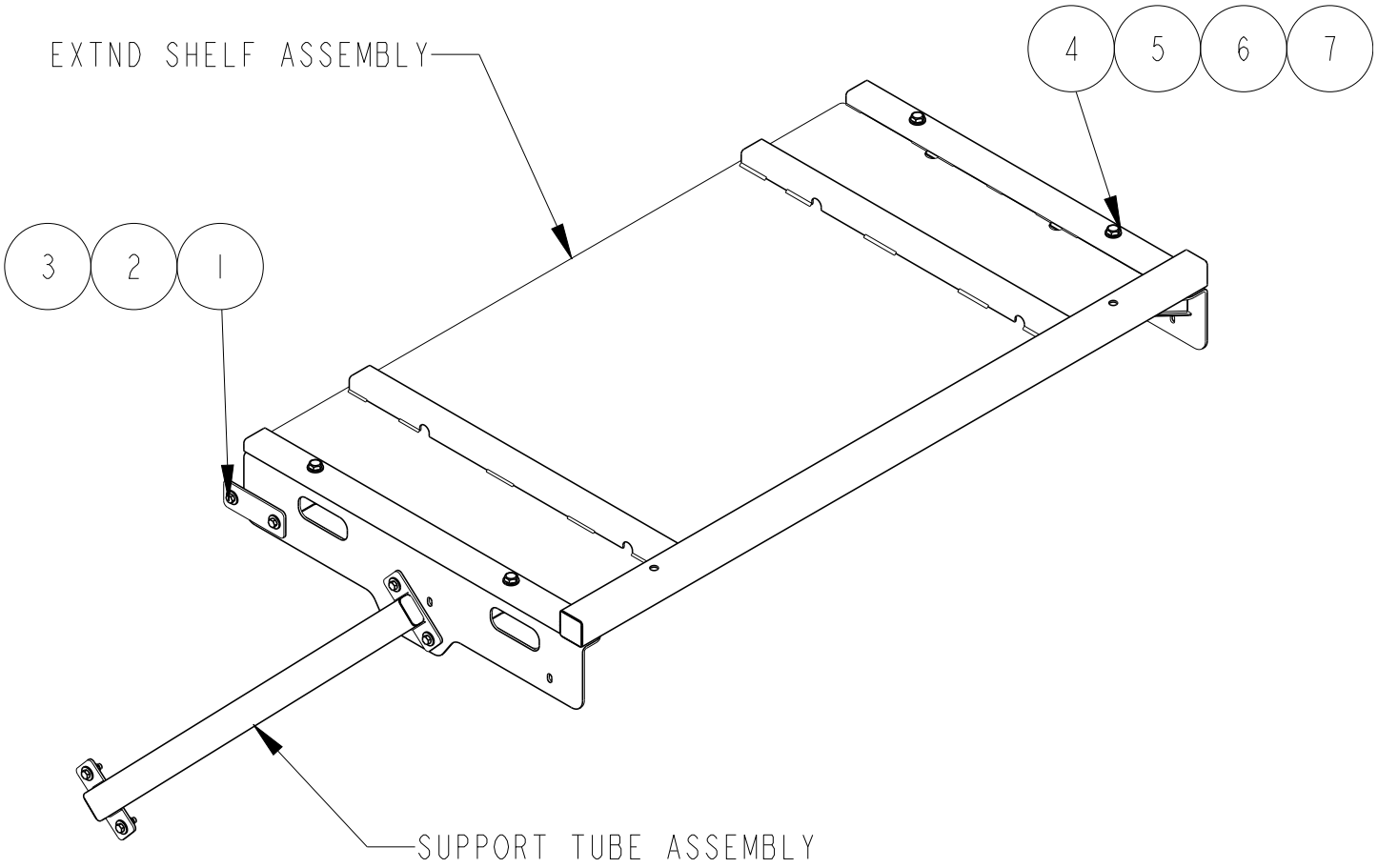


Figure 47.

	ITEM	PART #	DESCRIPTION
474588 & 474710 Extended Shelf Assembly	1	05-0052	Washer 3/4 Flat
	2	05-2568	Bolt 1/2-13 X 1 3/4
	3	05-0018	Nut 1/2-13 Hex
	4	05-5208	Washer 3/4 - Flat
	5	05-6174	Bolt 3/4 – 10
	6	05-3962	Nut 3/4 -10
	7	05-2463	Jam Nut 3/4- 10

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REPLACEMENT PARTS

Container Lock Assembly (For RL VIP)

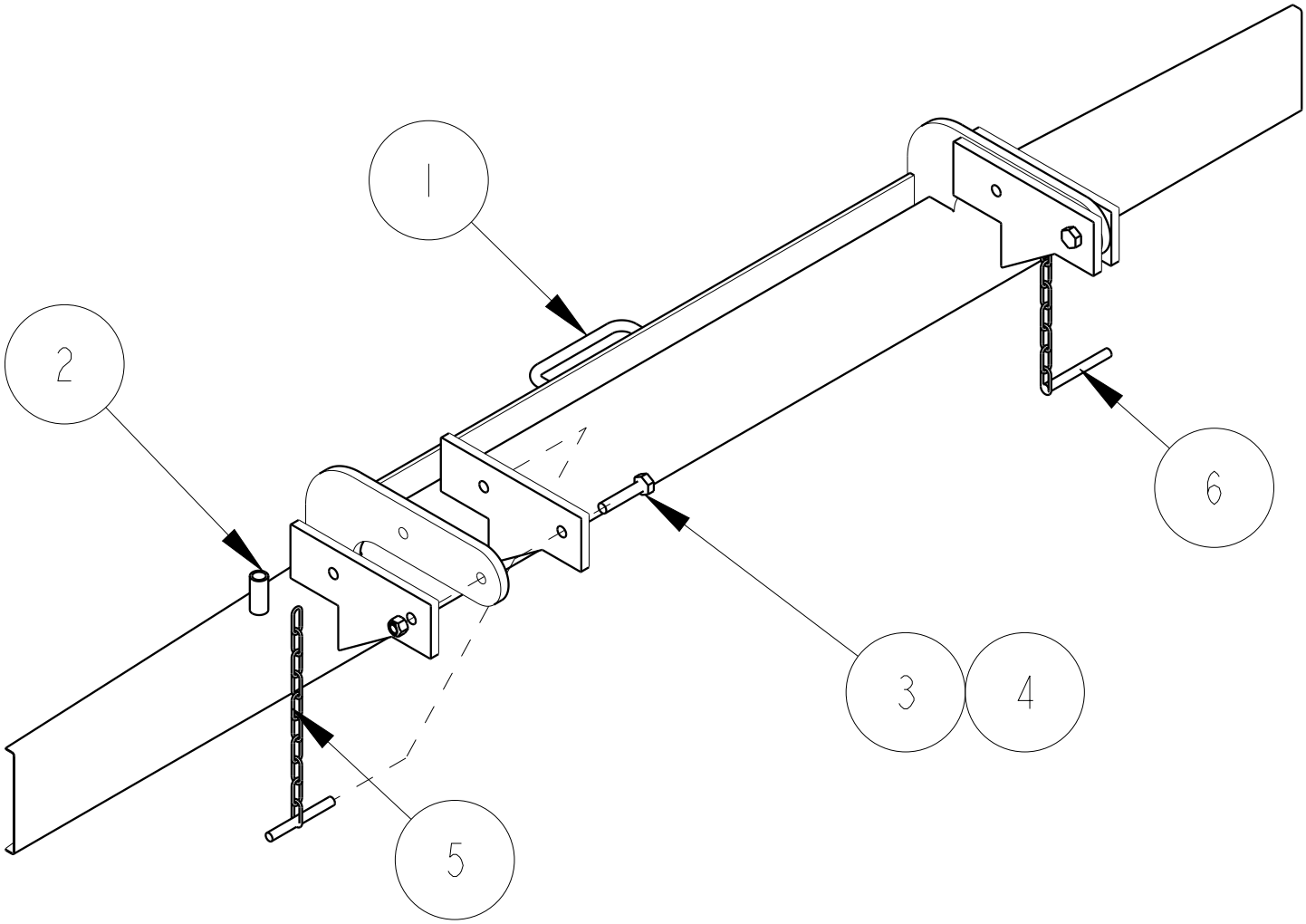


Figure 48.

	ITEM	PART #	DESCRIPTION
474868 Container Lock Assembly	1	24-7552	Handle
	2	09-0985	Rod
	3	05-0017	Bolt 1/2 - 13
	4	05-0018	Nut 1/2-13 Hex
	5	05-0048	Chain
	6	09-0986	Chain Pin

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REPLACEMENT PARTS

VIP Lock (For 4/6/8 FL VIP)

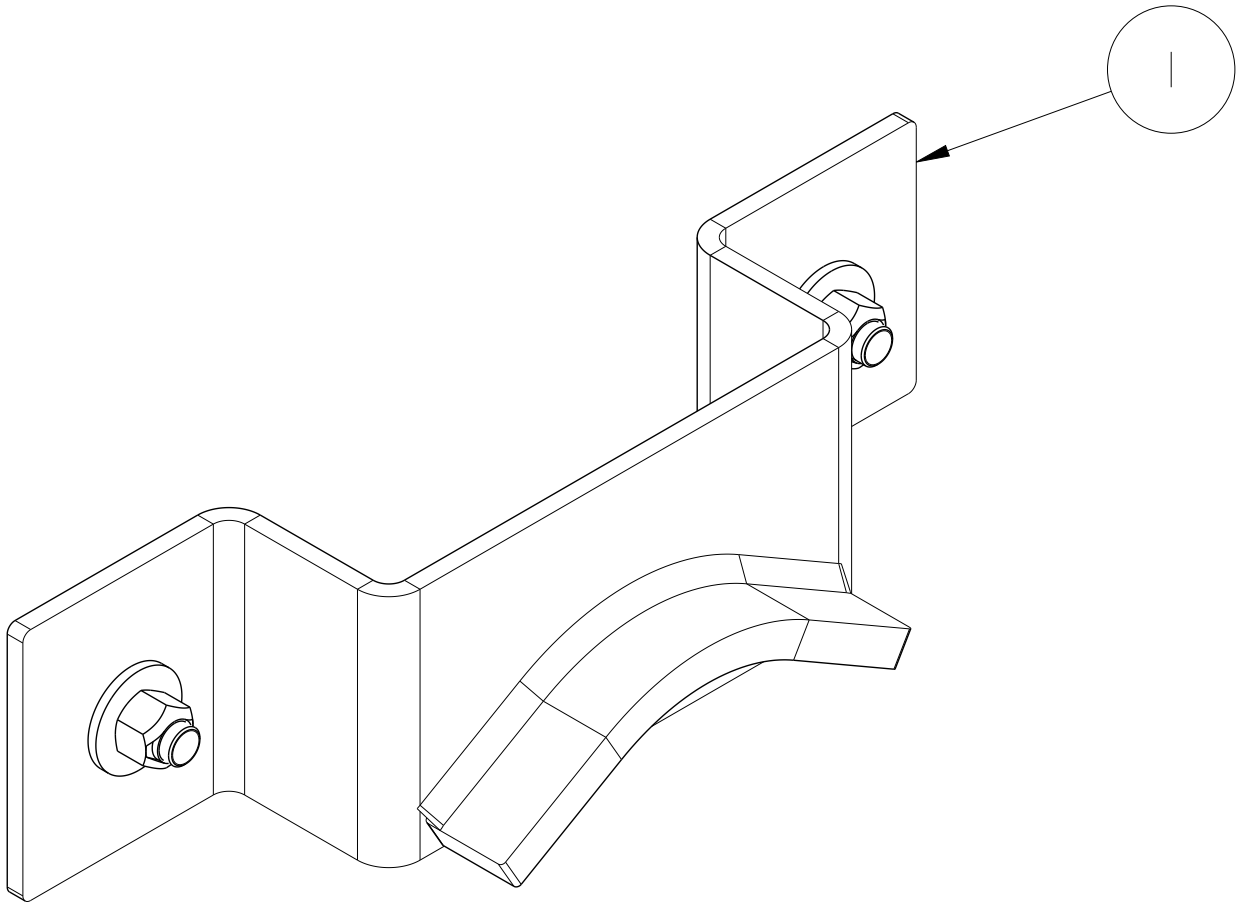


Figure 49.

ITEM	PART #	DESCRIPTION
1	490120	VIP Lock Assy – Bolt On

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REPLACEMENT PARTS

Fixed Leg/Post Assembly 4 / 6 CY RL

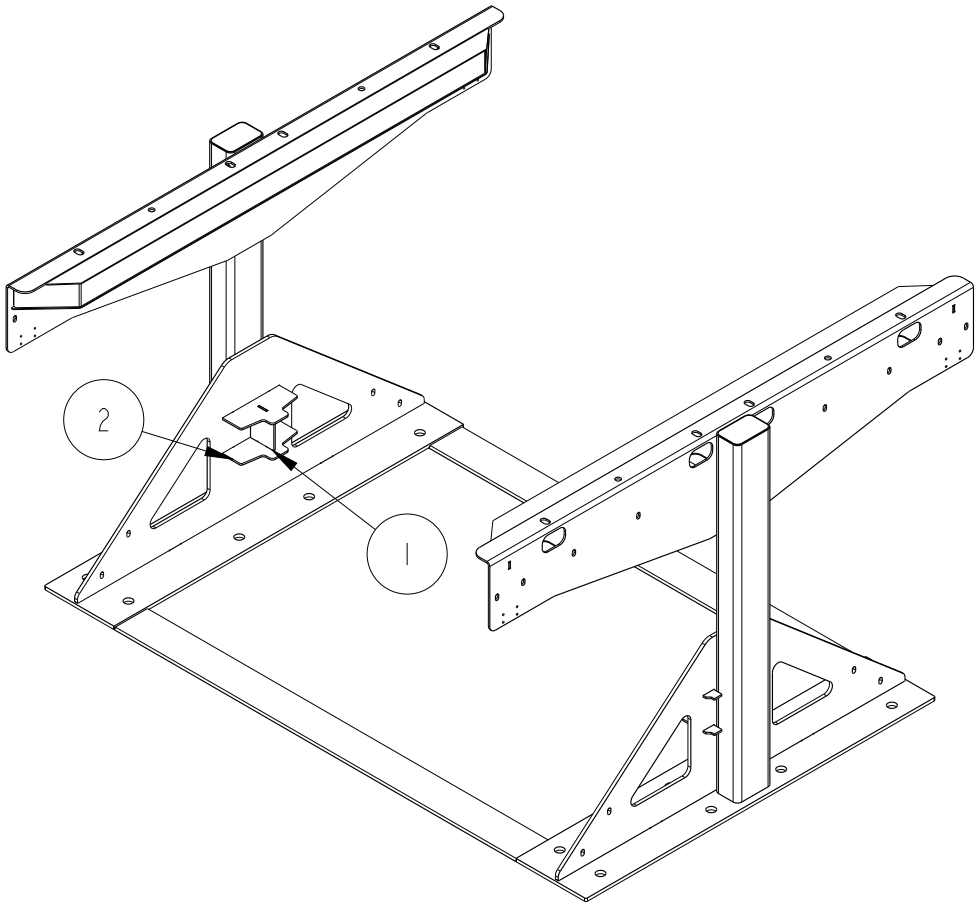


Figure 50.

ITEM	PART #	DESCRIPTION
1	38-2377	Support Plate
2	38-8687	Stopper Plate
	474626	Leg Assy Bolt-On VIP 4CY Rl
	474595	Leg Assy Bolt-On VIP 6CY RL

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SECTION 7
MAINTENANCE

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PERIODIC MAINTENANCE

⚠ DANGER

Only authorized and trained personnel should perform the following procedures. Lock-Out/Tag-Out the compactor as specified in **"Lock-Out/Tag-Out Instructions" on page 5**.

Daily (or every 8 hours of operation)

1. Check for any oil leaks. Keep all hydraulic fittings tight. Check the oil level and temperature in the hydraulic reservoir. Maintain oil level above 3/4 full in the sight gauge. Oil level should be checked with ram in the retracted position. The temperature should be below 160° F.
2. Check all remote emergency stop locations. Make sure that each emergency stop button is not obstructed, damaged, or depressed.

Weekly (or every 40 hours of operation)

1. Clean around the machine to remove any operator hazards.
2. Check the function of all emergency stop buttons and interlock switches.
3. Make sure all lights, decals, and operator instructions are clear and visible. Clean as required.

Monthly (or every 160 hours of operation)

1. Check the function of all controls (lights, switches, etc.).
2. Check all hoses for chaffing, rubbing, or other deterioration and damage.
3. Check for any obvious unsafe conditions in the compactor area.
4. Check oil level in hydraulic reservoir. Level should be 3/4 of sight gauge.
5. Clean out debris from above compactor ram.
6. Check the magnetic door lock for correct operation. Adjust if required; refer to **"Interlock Switch Adjustment & Testing" on page 45**.
7. Check container gone interlock for correct operation. Adjust if required; refer to **"Container Interlock Adjustment" on page 46**.
8. Lubricate the Vert-I-Pack. Refer to **"Lubrication Diagram" on page 42** for details.

Grease Lubricant Recommendation

Use a grease gun. Before engaging grease gun, clean the fitting. Always pump enough grease to purge the joint of contaminated grease and wipe off the excess grease. Lubricate a unit as recommended on the lubrication decal on the unit and in the Operation, Service, and Installation Manual. Use NLGI 000 grease.

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PERIODIC MAINTENANCE

Quarterly (or every 500 hours of operation)

1. Check the function of all controls and options (emergency stop buttons, timer, lights, switches, etc.).
2. Check the connections and seals on all cylinders for leaks.
3. Check the cylinder pins and make sure they are secure.

Annually (or every 2000 hours of operation)

1. Lubricate electric motor bearings annually per the manufacturer's instructions.
2. Change the hydraulic fluid in the entire system. If existing oil is reused, it should be tested by a laboratory to ensure it meets necessary specifications. Additives can be added to bring oil back to standards. Before returning oil to the tank, it should be filtered through a minimum 6 micron filter. The hydraulic tank should be cleaned inside with a nonflammable solvent and thoroughly dried before replacing the oil.
3. Filter maintenance:
   a. Hydraulic suction filters should be cleaned at yearly intervals.
   b. Care should be exercised in cleaning the filter to ensure that the element is not torn. Clean the filter with a soft brush and standard industrial solvent.
   c. Replace the filter after cleaning. Securely tighten the union or bolts. Pump noise and a "crackle" sound are most often caused by air entering the pump suction line. Tightening the suction fittings will usually eliminate problem.

Recommended Oils

Union-UNAX-46, UNAX-AW46

Gulf-Harmony 47, Harmony 48-AW Exxon-Teresstic 46, NUTO 46

Texaco-Rando 46

Chevron-AW 46

Shell-Turbo 46, Tellus 46

Citgo-Pacemaker 46, Tellus-AW46

Conoco-Super Hydraulic Oil 46

Quaker State-Dextron II (ATF) Automatic Transmission Fluid

Amoco-Rycon MV Cold Weather Fluid

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HYDRAULIC SYSTEM PRESSURE SETTING

⚠ WARNING

Never enter any part of the compactor until the unit has been locked-out and tagged-out per **"Lock-Out/Tag-Out Instructions" on page 5**.

Tools required: Pressure-setting tool (part no. 29222)

1. Lock-Out/Tag-Out the compactor as specified in Lock-Out/Tag-Out Instructions.
2. Push the STOP button.
3. Relieve the system pressure by manually depressing the solenoid valve pin (spool) in the end of the valve.
4. Remove the ¼" (6.35 mm) pipe plug from the tee below the pressure switch and install the pressure-setting tool in the tee (threaded pipe section of the tool screws into the tee).
5. Remove the filler/breather cap from the power unit tank and insert the hose from the tool.

   NOTE: Make sure hose is inserted completely.
6. Remove the silver cap on top of the pressure switch and turn the adjustment screw counter-clockwise 3 or 4 turns to deactivate the pressure switch.
7. Start the compactor.
8. Pull the midpoint rod out of the bracket so that the ram bottoms out.
9. Adjust the pressure setting, using the adjustment knob on the tool, to 1700 psi and turn the adjustment screw on the circuit 2 pressure switch clockwise; watch the PLC screen and turn the adjustment screw until IH is highlighted.
10. Replace the rod to its original position.
11. Adjust the pressure setting, using the adjustment knob on the tool, to 2100 psi and turn the adjustment screw on the circuit 1 pressure switch clockwise until the ram reverses.

    NOTE: Make sure the ram is in the down position before proceeding.
12. Reseal the pressure switch, and manually relieve the pressure on the solenoid.
13. Remove the pressure-setting tool and replace the ¼" (6.35 mm) pipe plug. System pressure is now set.

    Relief pressure is 2400 psi. The relief valve is located internal to the pump and should not be adjusted.

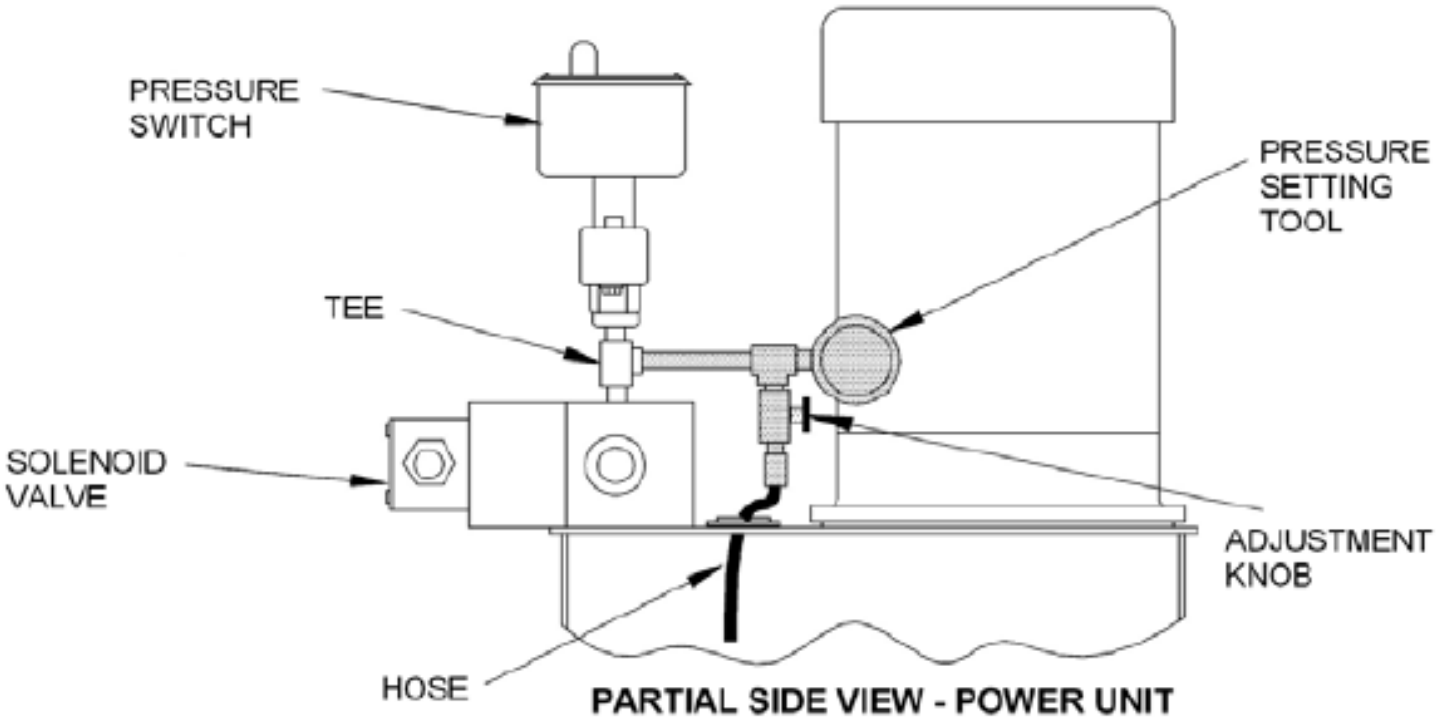


Figure 51.

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CYLINDER REPLACEMENT

⚠ WARNING

Never enter any part of the compactor until the unit has been locked-out and tagged-out per **"Lock-Out/Tag-Out Instructions" on page 5**.

1. Lock-Out/Tag-Out the compactor as specified in Lock-Out/Tag-Out Instructions.
2. Remove access covers.
3. Positively support the ram with a fork lift and/or 4" x 4" (100 mm x 100 mm) wooden timbers.

⚠ WARNING

Make sure hydraulic cylinder is securely supported before proceeding.

4. Relieve hydraulic pressure by depressing the solenoid valve pin/spool.
5. Remove hoses.

   NOTE: Disconnect one hydraulic hose at a time, removing hose fittings slowly. Plug ALL ports and hose ends.
6. Remove cylinder pins.
7. Remove cylinder.
8. Install the cylinder; process is the reverse of the above steps.

   NOTE: Before reinstalling cylinder, check cylinder pin, and cylinder rod for signs of fatigue. Do not reuse parts if wear or cracks are present.
9. Refit access covers.

   NOTE: Covers MUST be replaced before operating the unit.
10. Fill the reservoir with hydraulic oil. See **"Recommended Oils" on page 64**. Fill until oil is 3/4 up in the sight gauge.

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PRINCIPLES OF OPERATION

Standard & Untouchable Unit

3 HP, 3 PH

Upon start-up, the key is turned to the UP position and the motor starter contacts are made, energizing the motor starter, and starting the electric motor which turns the single stage hydraulic pump. The valve solenoid remains de-energized and the valve spool directs fluid to the rod-end of the cylinder and raises the ram. When the ram gets to the top position, limit switch #1 is actuated, stopping the ram. At this time, T (20 sec delay timer) begins timing the ram in the UP position. If the feed door is not opened in 20 seconds, the ram will cycle down and stop at midpoint and the machine will shut down. The ram stops at midpoint when the midpoint limit switch is actuated causing the normally closed R3 contact to open, breaking the circuit to the motor starter.

If the ram is in the UP position and the door has been opened and closed, the magnetic door interlock completes the circuit which energizes the motor starter contacts causing the motor to turn the pump which directs fluid through the energized solenoid valve and to the base end of the cylinder. When the cylinder gets to the end of the extend stroke, the pressure switch senses shift pressure and causes the solenoid valve to de-energize which shifts the valve and starts the cylinder in the retract stroke. As the cylinder/ram retracts, the midpoint limit switch is actuated which breaks the circuit to the motor starter and shuts the machine down.

The Emergency Stop button will shut the compactor down when depressed by breaking the circuit to the motor starter.

3/4 HP, 1 PH – Single Phase Hi-Lo Operation

The 3/4 HP, 1 phase VIP operates as described above with the exception of the hydraulic pump. The 3/4 HP unit uses a Hi-Lo pump with two stages. The pump has a built-in check valve, relief valve, and unloading valve. The Hi-Lo pump allows a smaller horsepower motor to turn the pump during low-pressure travel at approximately the same speed as the 3 HP. During low-pressure travel (0-500 psi), both sections of the pump are pumping at 3 GPM total. During the high-pressure packing stroke (500-2400 psi), the low-pressure pump section unloads (approximately 2 1/2 GPM) to the tank. As a result, cylinder/ram travel speed slows considerably during the high-pressure stroke.

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ELECTRICAL CHARTS

Fuses and Circuit Breakers

Three-Phase

MOTOR SIZE	VAC	FULL LOAD AMP	DUAL ELEMENT FUSE MAX	CIRCUIT BREAKER MAX	SERVICE DISCONNECT
3 HP	208	8.5	15 Amp	20 Amp	30 Amp
	230	8.2	15 Amp	20 Amp	30 Amp
	60	4.1	10 Amp	15 Amp	30 Amp
	575	3.4	10 Amp	15 Amp	30 Amp

Single-Phase

MOTOR SIZE	VAC	FULL LOAD AMP	DUAL ELEMENT FUSE MAX	CIRCUIT BREAKER MAX	SERVICE DISCONNECT
3/4 HP	120	8.4	20 Amp	20 Amp	30 Amp
	230	4.2	10 Amp	15 Amp	30 Amp
3 HP	208	15.5	30 Amp	45 Amp	30 Amp
	230	14.0	25 Amp	40 Amp	30 Amp

Wire Sizes

Three-Phase

MOTOR SIZE	VOLTAGE	LENGTH TO 100’	LENGTH TO 200’	LENGTH TO 300’
3 HP	208	10	8	6
	230	12	10	8
	460	12	12	12
	575	12	12	12

Single-phase

MOTOR SIZE	VOLTAGE	LENGTH TO 100’	LENGTH TO 200’	LENGTH TO 300’
3/4 HP	120	12	8	6
	230	12	12	10
3 HP	208	8	6	4
	230	8	6	4

Motor Starters and Heater Elements

Three-Phase

MOTOR SIZE	VOLTAGE	STARTER SIZE	OVERLOAD ADJUSTMENT
3 HP	208	IEC 32 Amp	8.5 Amp
	230	IEC 32 Amp	8.2 Amp
	460	IEC 32 Amp	4.1 Amp
	575	IEC 32 Amp	3.4 Amp

Single-Phase

MOTOR SIZE	VOLTAGE	STARTER SIZE	OVERLOAD ADJUSTMENT
3/4 HP	120	IEC 32 Amp	7.4 Amp
	230	IEC 32 Amp	4.2 Amp
3 HP	208	IEC 32 Amp	15.5 Amp
	230	IEC 32 Amp	14.0 Amp

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DECALS

Warning Decal Requirements

When your compactor leaves the factory, several WARNING DECALS are installed for your protection. These labels are subject to wear and abuse due to the nature of the refuse handling operation. THESE DECALS MUST BE MAINTAINED. Additional decals may be purchased from your distributor or from Marathon Equipment Company. Refer to **“Decal Part Numbers” on page 69**.

When ordering replacement decals, use the chart below with the **“Decal Placement” on page 71** or look for the part number in the lower right-hand corner of the decal.

Decal Part Numbers

PART #	DESCRIPTION
06-0038	Warning Do Not Remove Access Cover
06-0039	Danger Do Not Enter
06-0057*	Caution Stand Clear When Container…
06-0068*	Do Not Play In, Or Around…
06-4925	Attention Driver: Remove Container…
06-0092	Operating Instructions
06-0121	Notice Federal Regulations...
06-0249	Lock-Out/Tag-Out Power Before…
06-0345	VIP (Vert-I-Pack)
06-0364	Unit Serial Number Plate
06-0531	Loading Instructions
06-1839	American Flag
06-2203*	White Reflective Tape
06-2394*	Caution Container Must Be Placed…
06-3044	Danger Volts (W/Blanks)
06-3123	Confined Space
06-3435	Crushing/Shearing Hazard
06-3976	Warning, Potential Shock And Arc Flash
06-3977	Warning, Do Not Operate
06-3978	Danger, Do Not Override Or Tamper
06-0133	Warning, Keep Off, Fall/Crush Hazard
06-0279*	Marathon Containers Model, Serial #
06-0041	Danger: Crushing/Shearing Hazard!
06-0043	Danger: 208 Volts
06-0044	Danger: 230 Volts
06-0045	Danger: 460 Volts
06-4839	Scan For Warranty Information

*** Only on Container**

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DECAL IMAGES

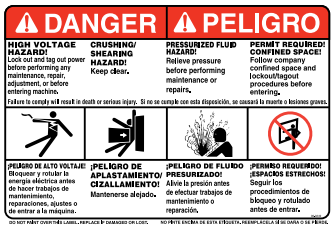
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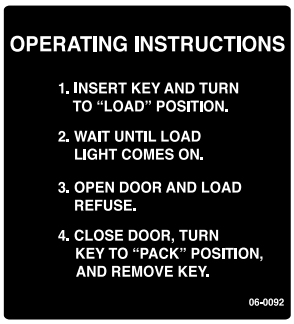
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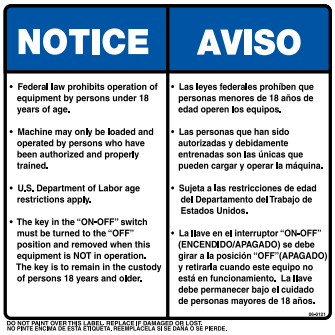
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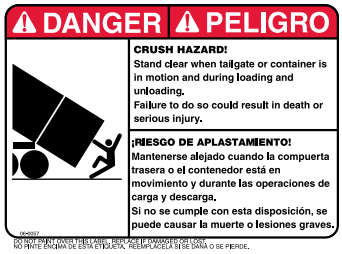
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06-0057



06-3044



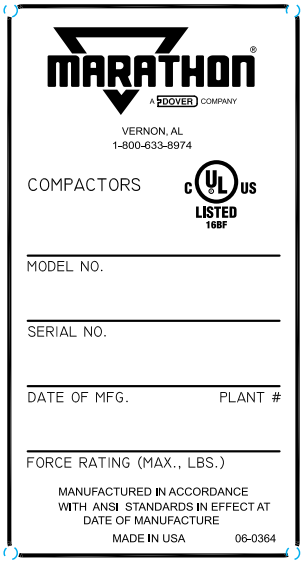
06-3123



06-3978



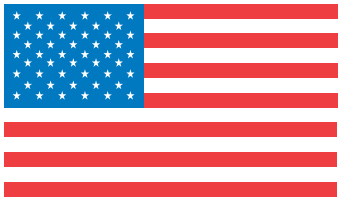
06-0364



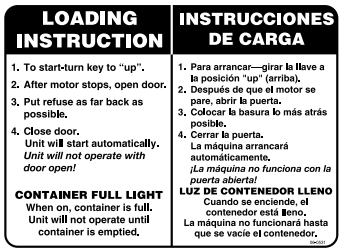
06-0345



06-1839



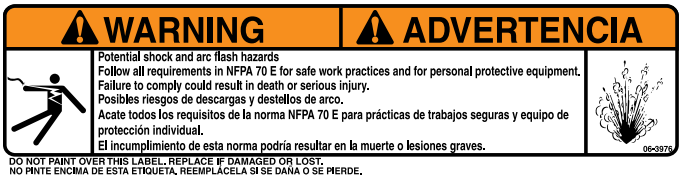
06-0531



06-4925



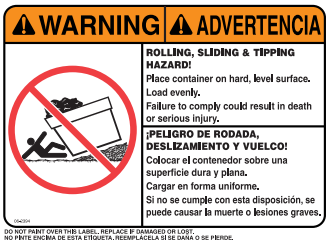
06-3976



06-0068



06-2394



06-4839



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DECAL PLACEMENT

Standard & Untouchable Unit

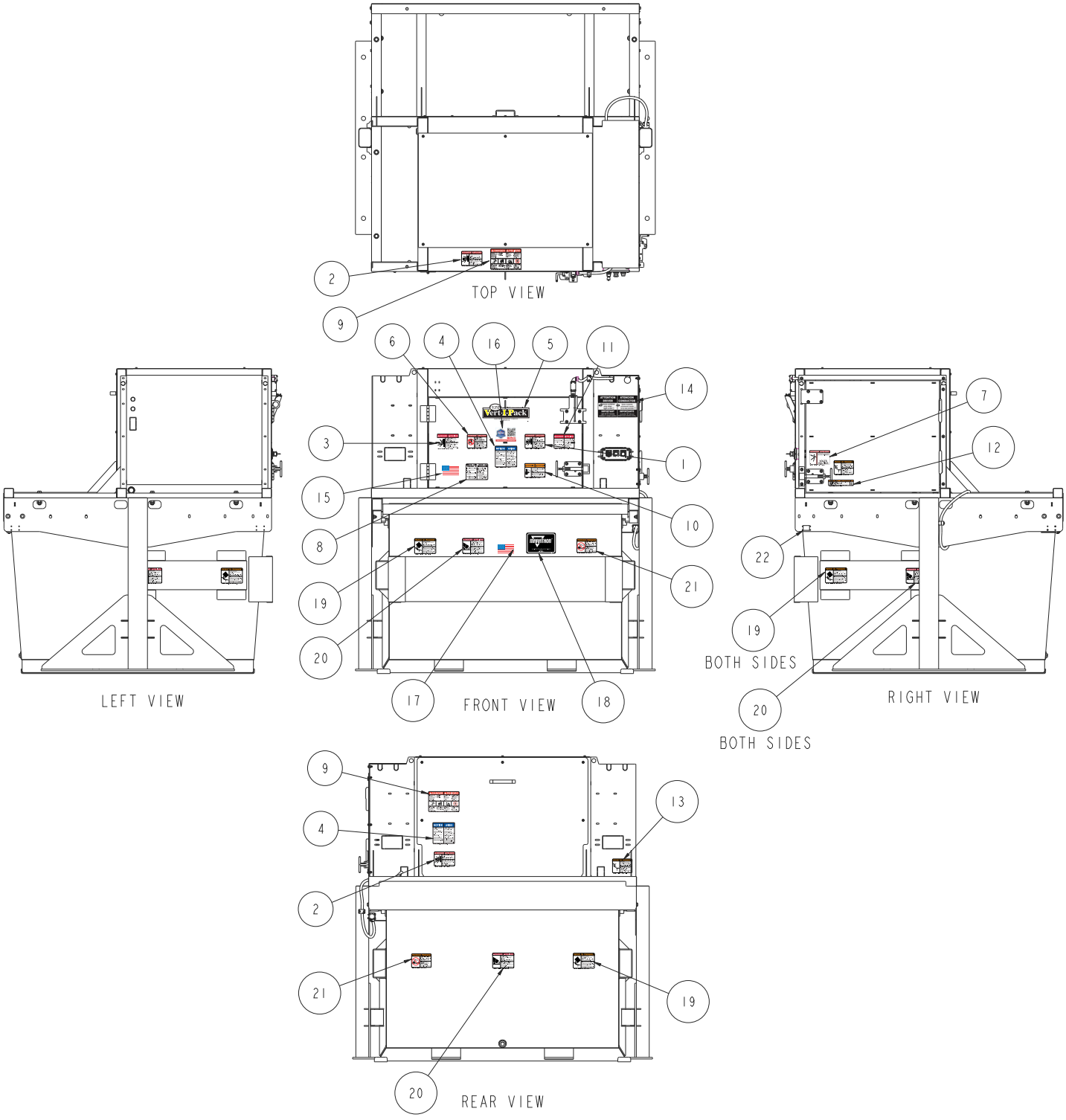


Figure 52.

Note: For side-feed configurations, install decal #14 facing the front of the container, positioned near the VIP light.

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DECAL PLACEMENT

Untouchable Unit Front Load

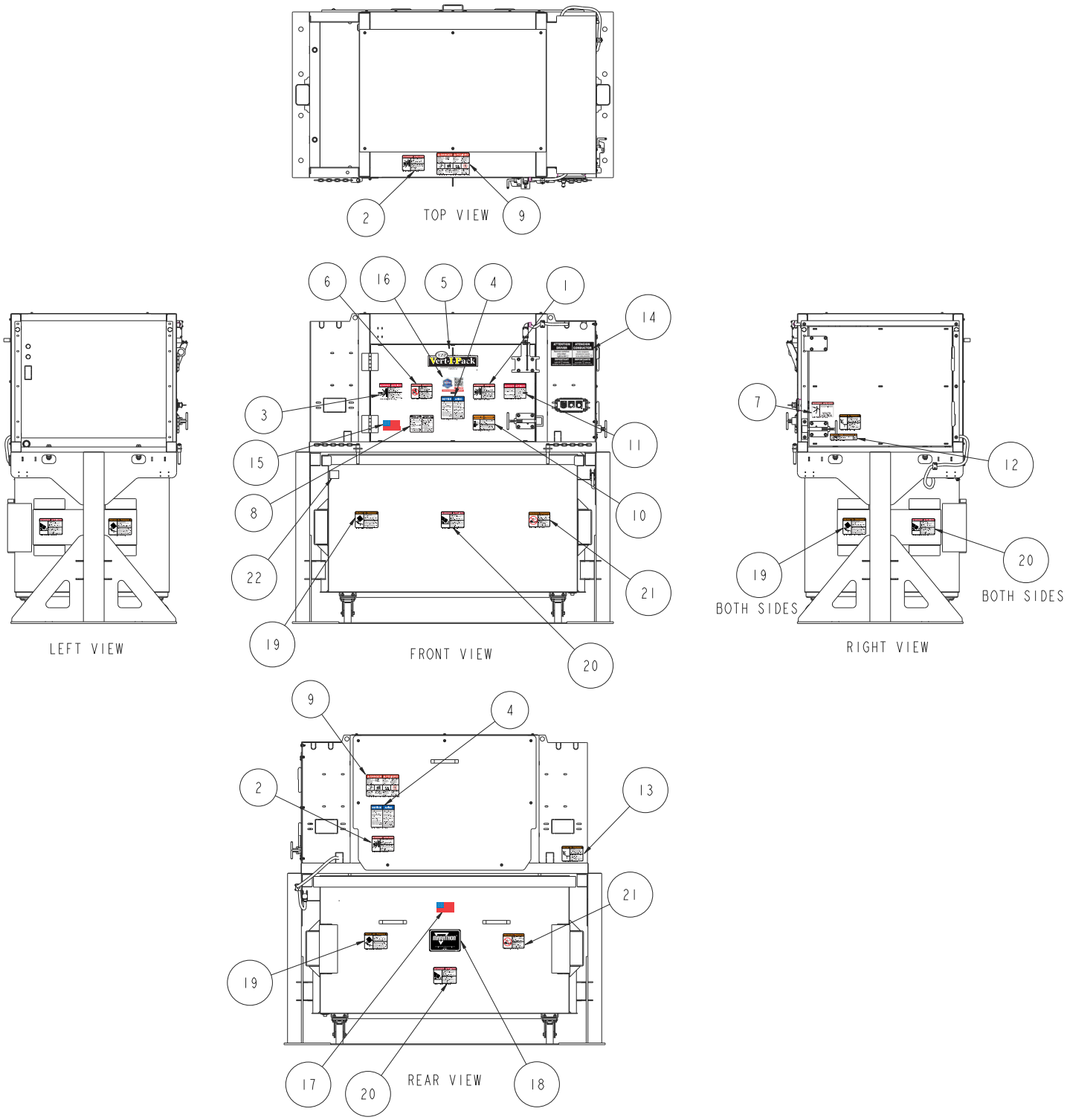


Figure 53.

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DECAL PLACEMENT

Untouchable Unit Rear-Load

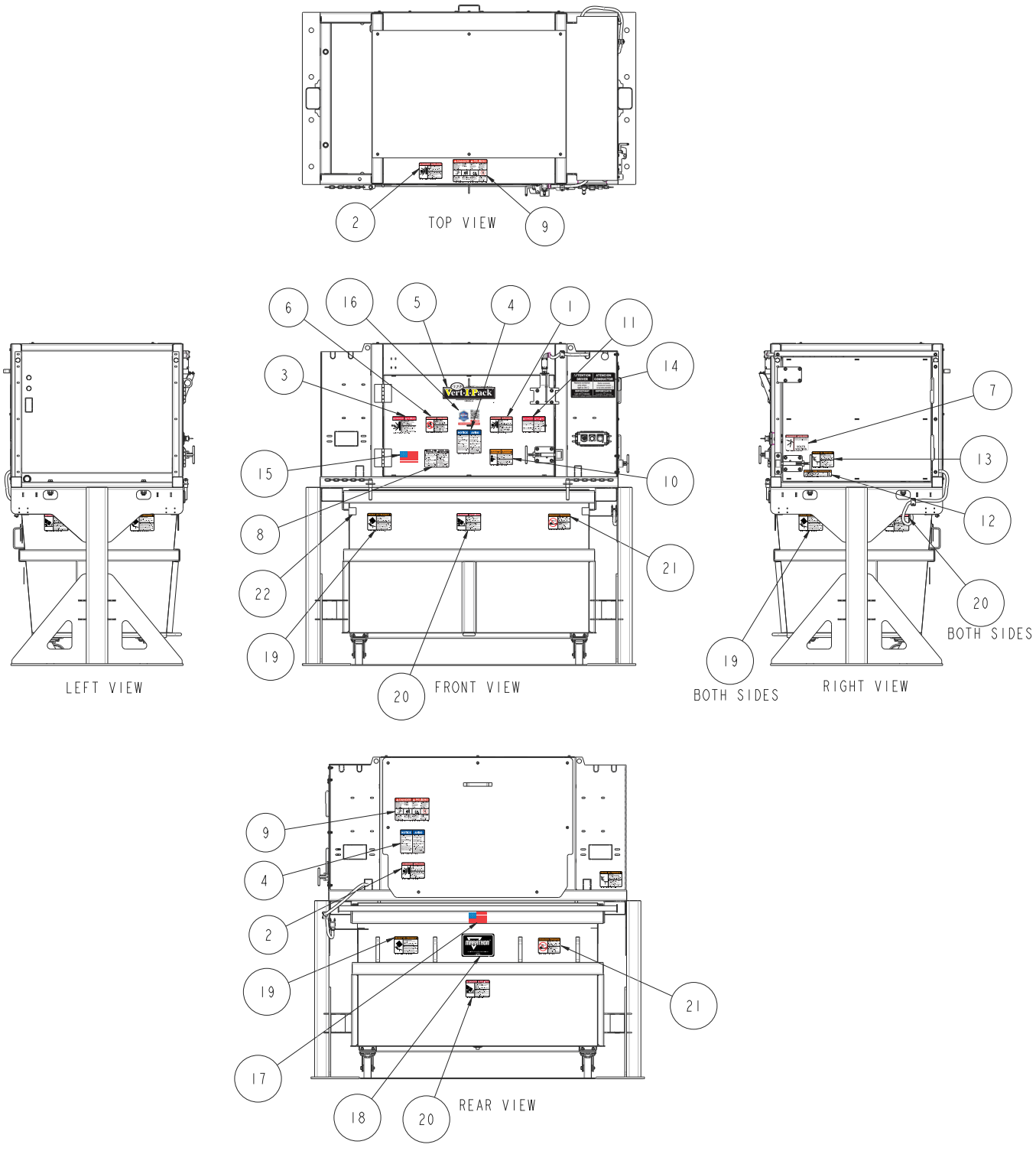


Figure 54.

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DECALS

Decal Part Numbers E/S

E/S		
ITEM	**PART NUMBER**	**DESCRIPTION**
1	06-3435	Decal Crushing/Shearing Hazard E/S
2	06-0038	Decal Danger Do Not Remove Access E/S
3	06-0039	Decal Danger Do Not Enter E/S
4	06-0121	Decal Notice Federal Regulation Prohibit..Under 18 E/S
5	06-0345	Decal Vert-I-Pack
6	06-3123	Decal Danger Confined Space E/S
7	06-3044	Decal Danger Volts W/Blank Space E/S
8	06-0531	Decal Operating Instructions
9	06-0249	Decal Danger Hazardous Voltage E/S
10	06-3977	Decal Warning Do Not Operate Or Service E/S
11	06-3978	Decal Danger Do Not Override Or Tamper E/S
12	06-3976	Decal Warning Shock Arc Flash Hazard E/S
13	06-0133	Decal Warning Stay Off..Do Not Climb E/S
14	06-4925	Decal Attention Driver
15	06-1839	Decal American Flag
16	06-4839	Decal Marathon Warranty
17	06-1839	Decal American Flag
18	06-0126	Decal Marathon Equipment Company
19	06-0068	Decal Caution Do Not Play On Or Around
20	06-0057	Decal Warning Stand Clear Of Con
21	06-2394	Decal Caution Must Be Placed On Hard
22	06-2203	Decal, White Reflective Stripe 2” X 4”

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DECALS

Decal Part Numbers E/F

E/F		
ITEM	**PART NUMBER**	**DESCRIPTION**
1	06-3985	Decal Crushing/Shearing Hazard E/F
2	06-0504	Decal Danger Do Not Remove Access E/F
3	06-0505	Decal Danger Do Not Enter E/F
4	06-0696	Decal Notice Federal Regulation Prohibit..Under 18 E/F
5	06-0345	Decal Vert-I-Pack
6	06-3189	Decal Danger Confined Space E/F
7	06-3414	Decal Danger Volts W/Blank Space E/F
8	06-0711	Decal French Attention Driver
9	06-0508	Decal Danger Hazardous Voltage E/F
10	06-3988	Decal Warning Do Not Operate Or Service E/F
11	06-3989	Decal Danger Do Not Overide Or Tamper E/F
12	06-3987	Decal Warning Shock Arc Flash Hazard E/F
13	06-0520	Decal Warning Stay Off..Do Not Climb E/F
14	06-4926	Decal Attention Driver
15	06-1839	Decal American Flag
16	06-4839	Decal Marathon Warranty
17	06-1839	Decal American Flag
18	06-0126	Decal Marathon Equipment Company
19	06-0680	Decal Caution Do Not Play On Or Around
20	06-0521	Decal Warning Stand Clear Of Con
21	06-3191	Decal Caution Must Be Placed On Hard
22	06-2203	Decal, White Reflective Stripe 2” X 4”

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ELECTRICAL LAYOUT

Panel Box

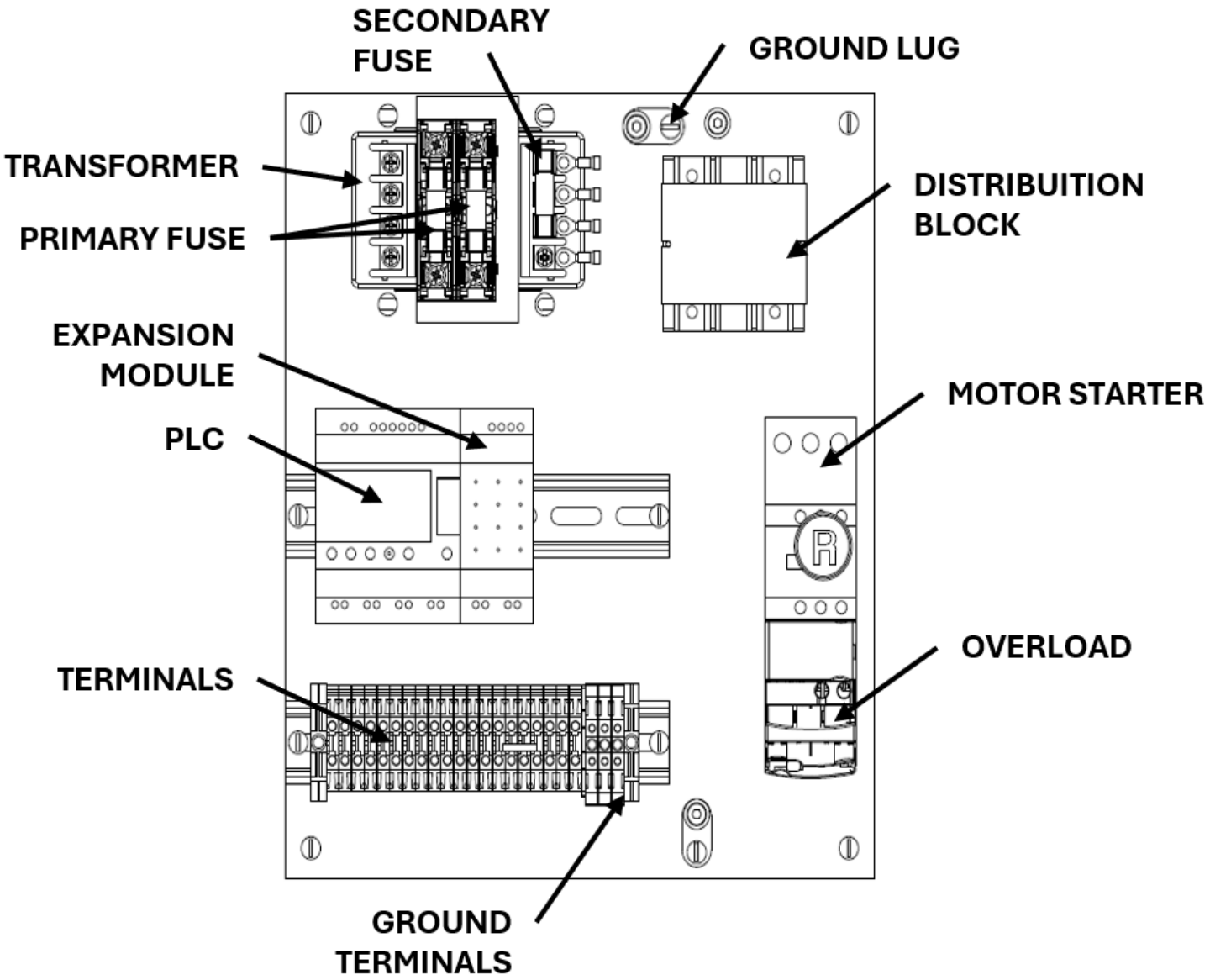


Figure 55.

DESCRIPTION	208	230	460	575
Transformer	030288	030288	030288	030237
Primary Fuse	030488	030488	030488	030488
Secondary Fuse	030191	030191	030191	030191
Motor	031131	031131	037031	037034
Distribution Block	030959	030959	030959	030959
Main Motor Starter	034748	034748	034748	034748
Overload	034839	034839	034848	034850
PLC	034729	034729	034729	034729
PLC Expansion	034730	034730	034730	034730
Terminal Block	034437	034437	034437	034437
Ground Terminal	034172	034172	034172	034172
Ground Lug	030551	030551	030551	030551

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ELECTRICAL LAYOUT

Hydraulic Layout

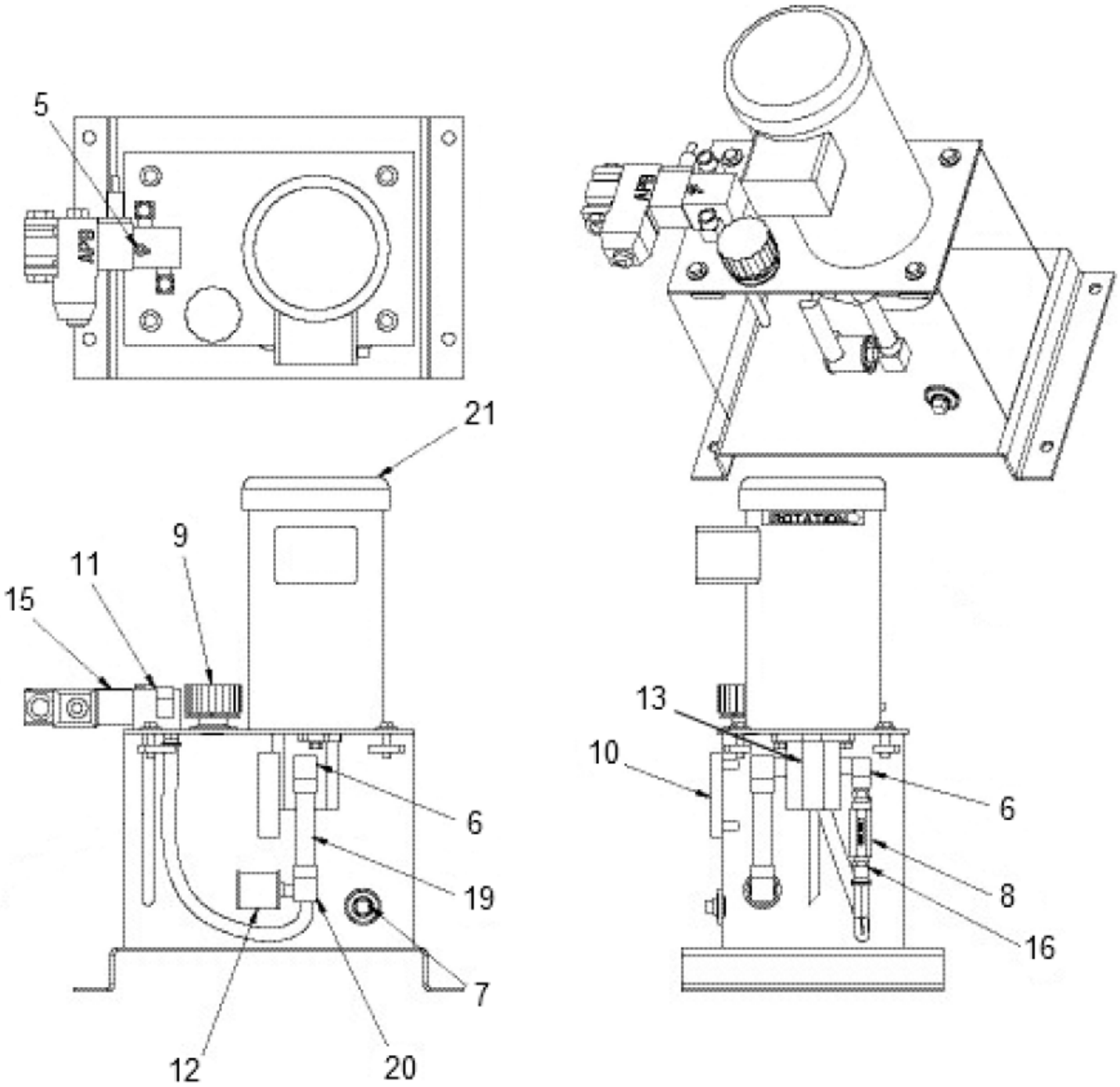


Figure 56.

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ELECTRICAL LAYOUT

ITEM	PART #	DESCRIPTION
-	02-0031	ELL 3/8 NPTM X 3/8 NPTF 90
5	02-0065	Plug ¼ NPT Socket Head
6	02-0113	ELL 3/8 NPTF X ½ NPTM 90
7	02-0179	Plug ½ NPT
8	02-0185	Check Valve 3/8 NPTF
9	02-0197	Filler/Breather 3/4
10	02-0198	Gauge Sight Level 3”
11	02-0202	Sub Plate 3/8 NPTF F/VIP
12	02-0250	Filter Suction 3/8 3 GPM 100 Mesh
13	02-0354	Pump 3 GPM (Used On 3 HP, 3 PH) 02-0355 - Hub Coupling F/02-0354
	02-0369	Pump 3 GPM (Used On Single Phase Unit) 02-0368 - Hub Coupling F/02-0369
15	02-0315	Valve Relief Sandwich 2500 PSI
16	02-0331	Hose End 3/8 WB X 3/8 NPTM SWV
-	02-0336	Hose End 3/8 WB X ¼ NPTM
-	02-3584	Pipe ½ SCH 40 X 4 1/2
20	02-3964	ELL ½ NPTF X 3/8 NPTM 90
21	MOTOR	Refer Electrical Replacement Parts Table
-	05-0212	Washer 3/8 Lock
-	05-2018	Bolt 3/8-16 X 1 ¼ HHCS GR5
-	03-0013	Pressure Switch, Single
-	03-0014	Pressure Switch, Dual
	02-0297	Valve Solenoid Op, Hydraulic D01
	292222	Pressure Setting Tool

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ELECTRICAL SCHEMATIC

Standard & Untouchable Unit

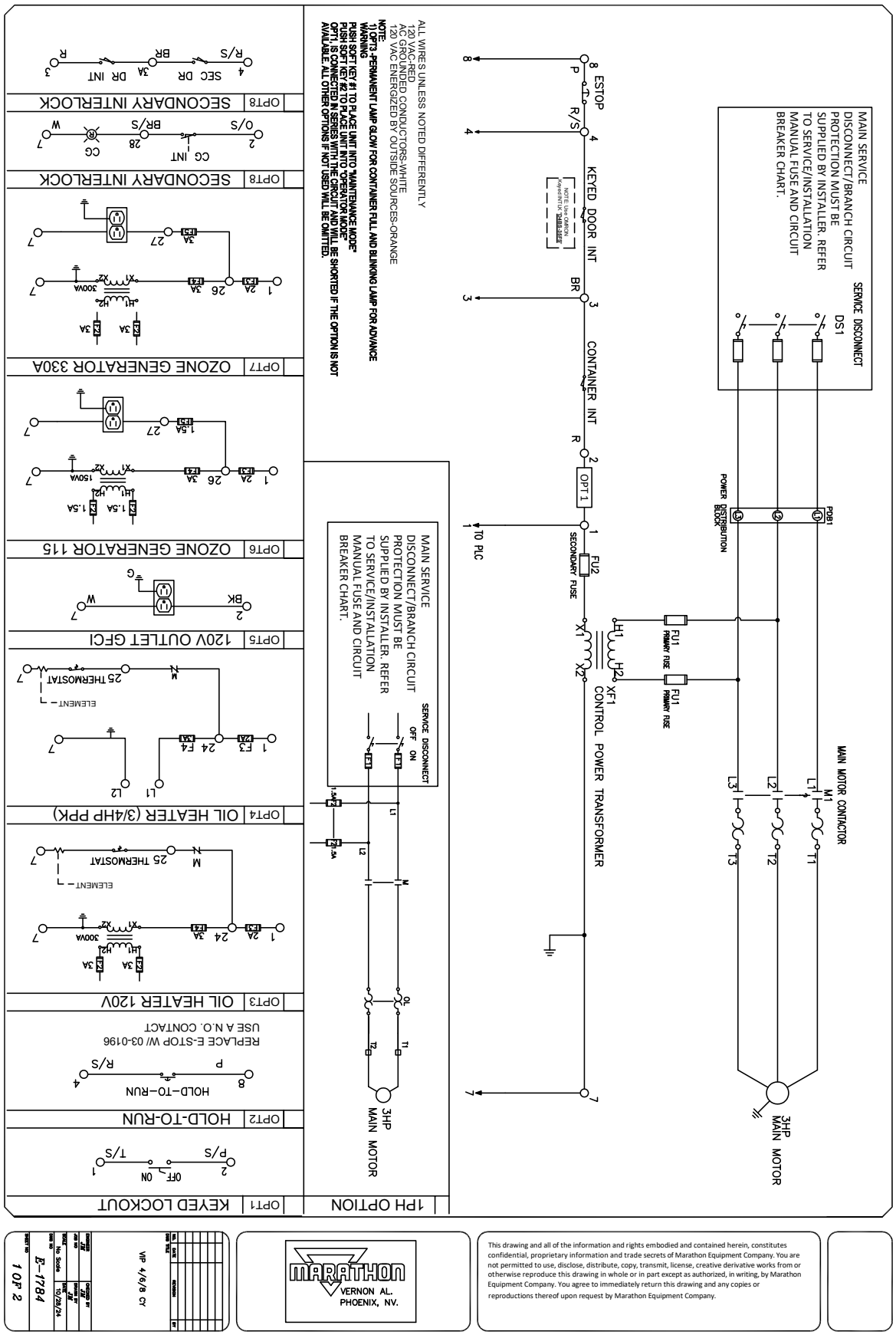


Figure 57.

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ELECTRICAL SCHEMATIC

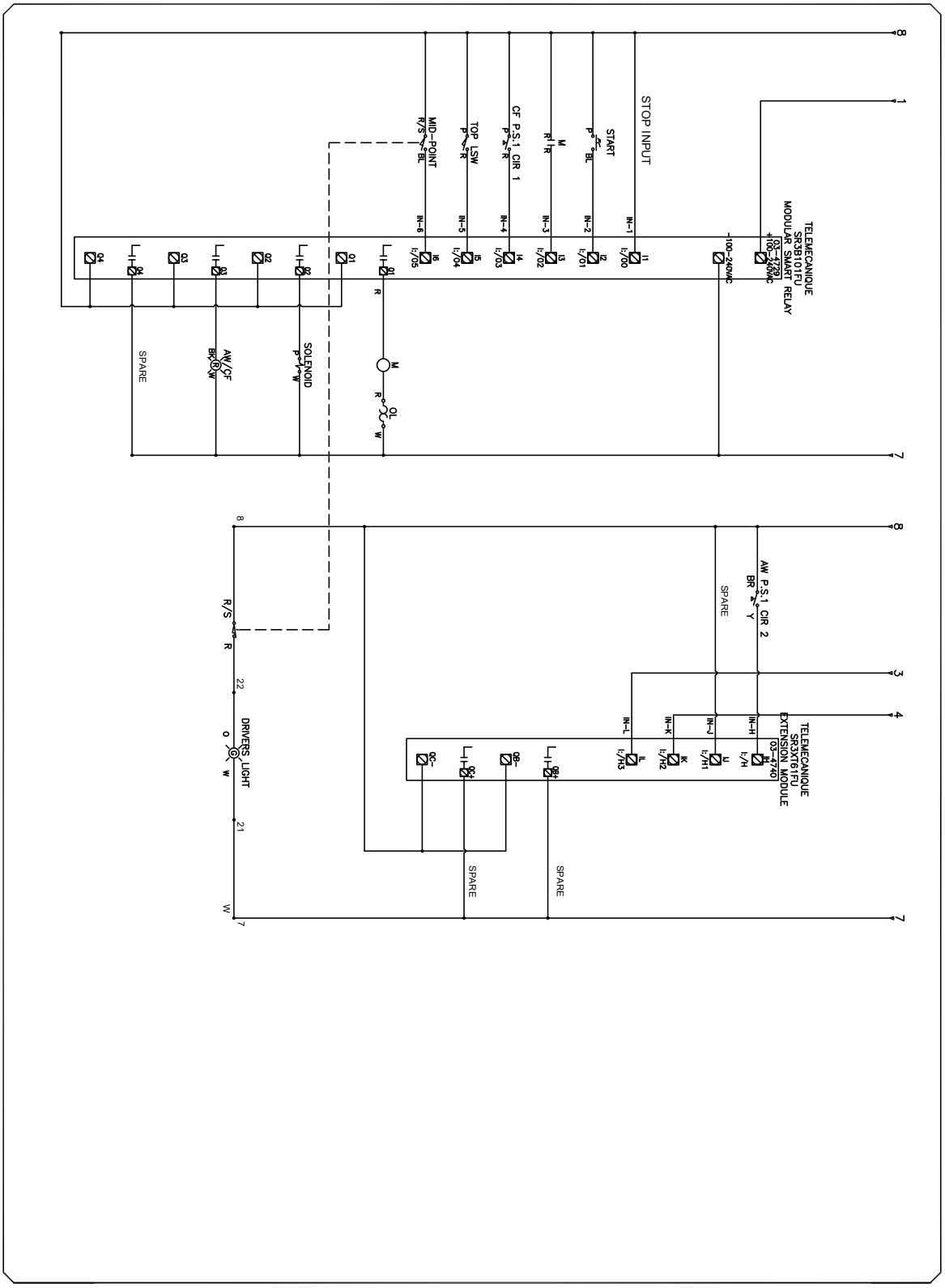


Figure 58.

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HYDRAULIC SCHEMATIC

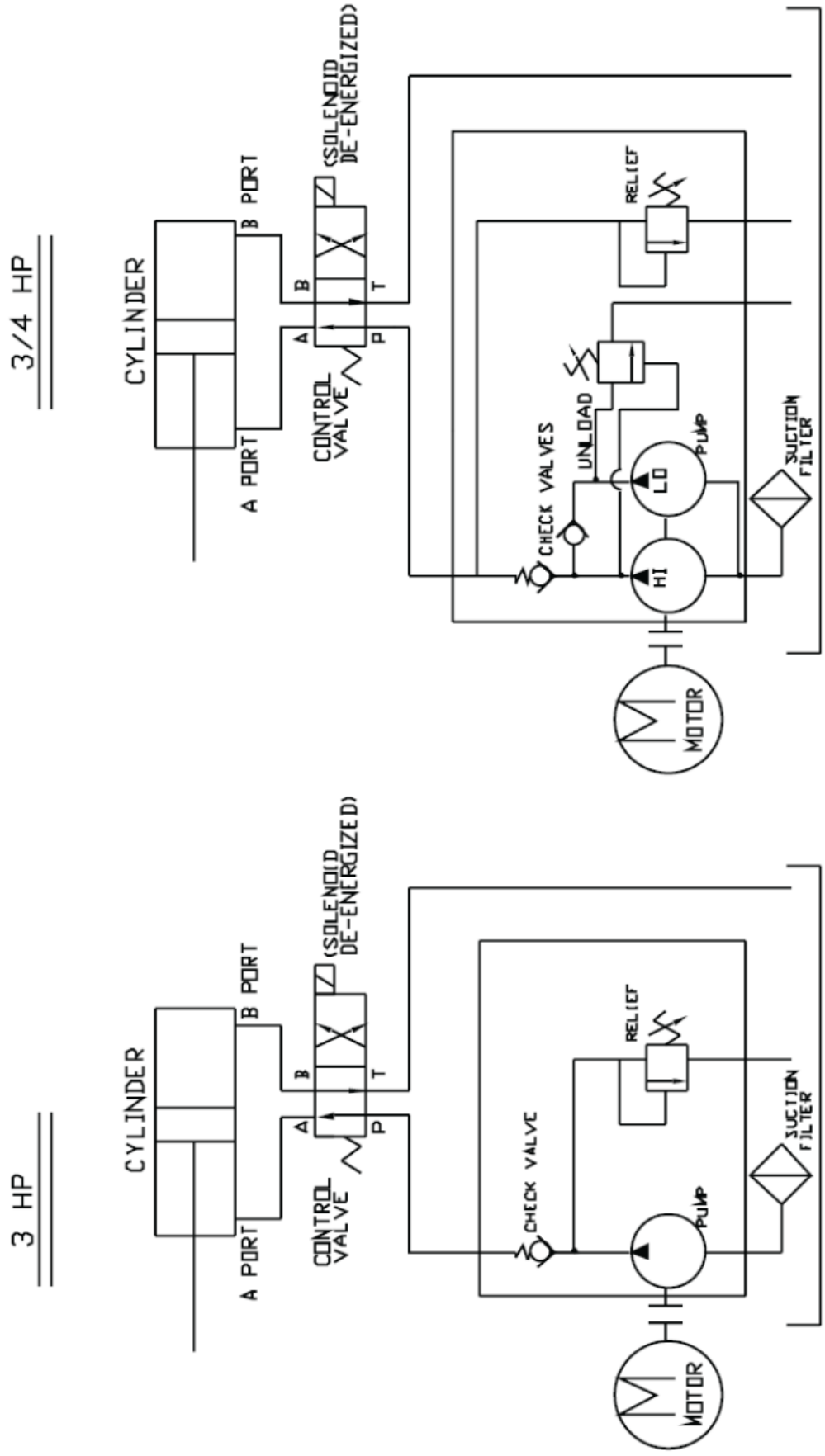


Figure 59.

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PLC MAINTENANCE

PLC Control Layout

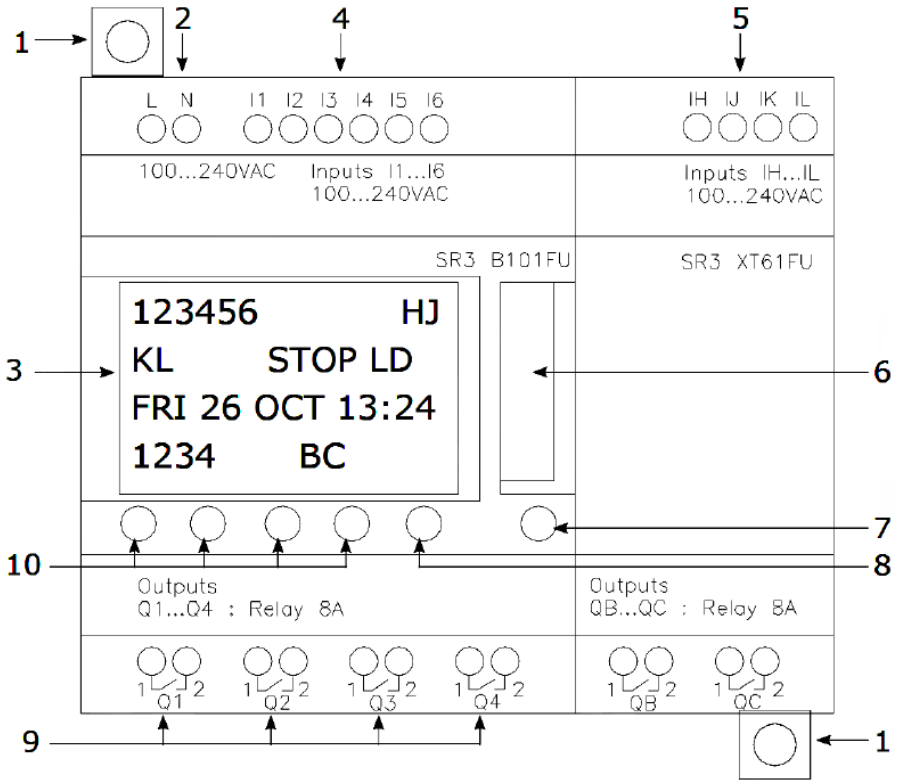


Figure 60.

REF #	DESCRIPTION
1	Retractable Mounting Feet
2	Screw Terminal Block For Power Supply
3	LCD, 4 Lines, 18 Characters
4	Screw Terminal Block For Inputs
5	Screw Terminal Block For Discrete Input
6	Connector For Backup Memory Or PC Connection Cable
7	Shift Key
8	Selection And Validation Key (Menu/Ok)
9	Relay Output Screw Terminal Block
10	Arrow Keys

LCD Description

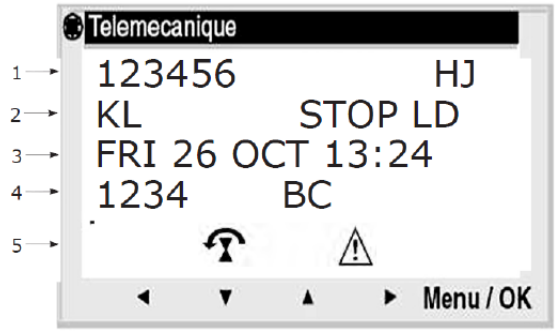


Figure 61.

REF #	DESCRIPTION
1	Input Status
2	Operating Mode (Run/Stop); Programming Mode (LD/FBD)
3	Date (Day And Time For Products With Clock)
4	Output Status
5	Contextual Menus / Pushbuttons / Icons Indicating The Operating Mode

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PLC MAINTENANCE

Program Run/Stop Selection

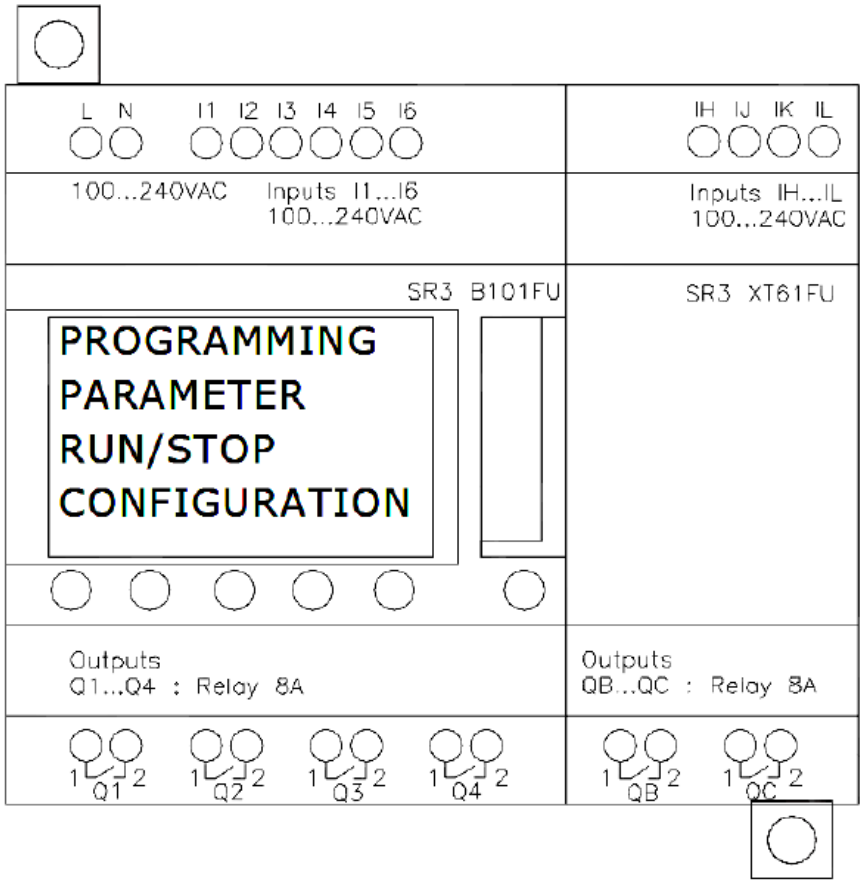


Figure 62.

Refer to **“PLC Control Layout” on page 82** for control location details.

1. Press MENU/OK button; this switches the screen to the Main Menu.
2. Using the Arrow UP or Arrow DOWN key, scroll to RUN/STOP; flashing indicates current selection.
3. Press MENU/OK button.
   “YES” option is flashing to Run or Stop Program.
4. Press MENU/OK button to complete settings.

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EPROM MEMORY TRANSFER



Figure 63.

NOTE: Before you can transfer memory or change programs, the current program must be stopped. Refer to **“Program Run/Stop Selection” on page 83** for instructions.

Refer to **“PLC Control Layout” on page 82** for control location details.

1. Press MENU/OK button.
2. Using the Arrow UP or Arrow DOWN key, scroll to TRANSFER; flashing indicates current selection.
3. Using the Arrow UP or Arrow DOWN key, scroll to the required transfer option; ZELIO > MEMORY or MEMORY > ZELIO.

   Flashing indicates current selection.
4. Press MENU/OK button.

   “Transfer OK” will display.
5. Press MENU/OK button.
6. Using the Arrow UP or Arrow DOWN key, scroll to RUN/STOP; flashing indicates current selection.
7. Press MENU/OK button.

   “YES” option is flashing to Run Program.
8. Press MENU/OK button to complete settings.

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SETTING THE TIMER

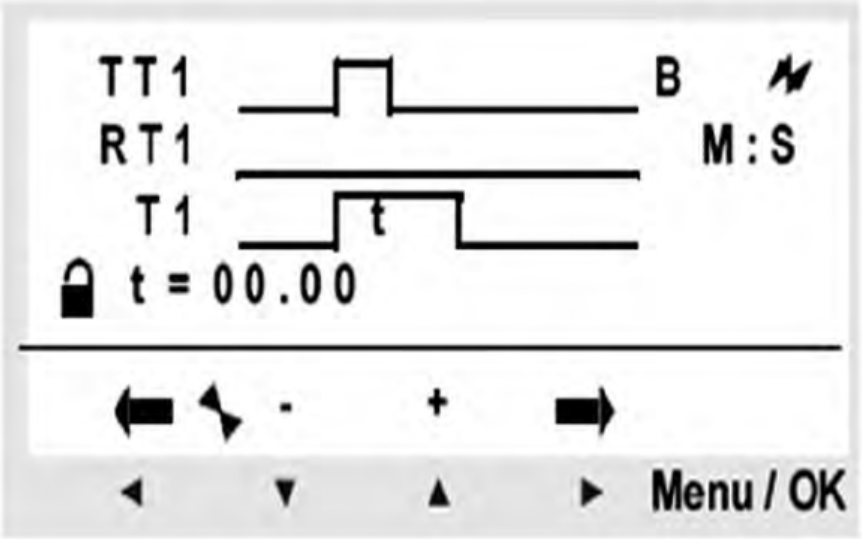


Figure 64.

NOTICE

In the event that you need to change these parameters, please call the Marathon Service department at 1-800-633-8974 and assistance will be given accordingly.

NOTE: Before you can set the timer or change programs, the current program must be stopped. Refer to **"Program Run/ Stop Selection" on page 83** for instructions.

Refer to **"PLC Control Layout" on page 82** for control location details.

1. Press MENU/OK button.
2. Using the Arrow UP or Arrow DOWN key, scroll to PARAMETERS; flashing indicates current selection.
3. Press MENU/OK button.
4. Using the Arrow UP key, scroll to the required parameter.
   Flashing indicates current selection.
5. Press the Arrow LEFT key to select; "t=000.0" will flash.
6. Using the Arrow UP or Arrow DOWN key, adjust timer to the required setting.
7. Press MENU/OK button.
   "YES" option is flashing.
8. Press MENU/OK button to confirm the changes.
9. Using the Arrow LEFT key, select the next timer.
10. Using the Arrow UP or Arrow DOWN key, scroll to next required parameter.
    Flashing indicates current selection.
11. Press the Arrow LEFT key to select.
12. Using the Arrow UP or Arrow DOWN key, adjust timer to the required setting.
13. Press MENU/OK button.
    "YES" option is flashing.
14. Press MENU/OK button to confirm the changes.
15. Press MENU/OK button to complete the timer settings.

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CLEAR FAULT AND START PROGRAM

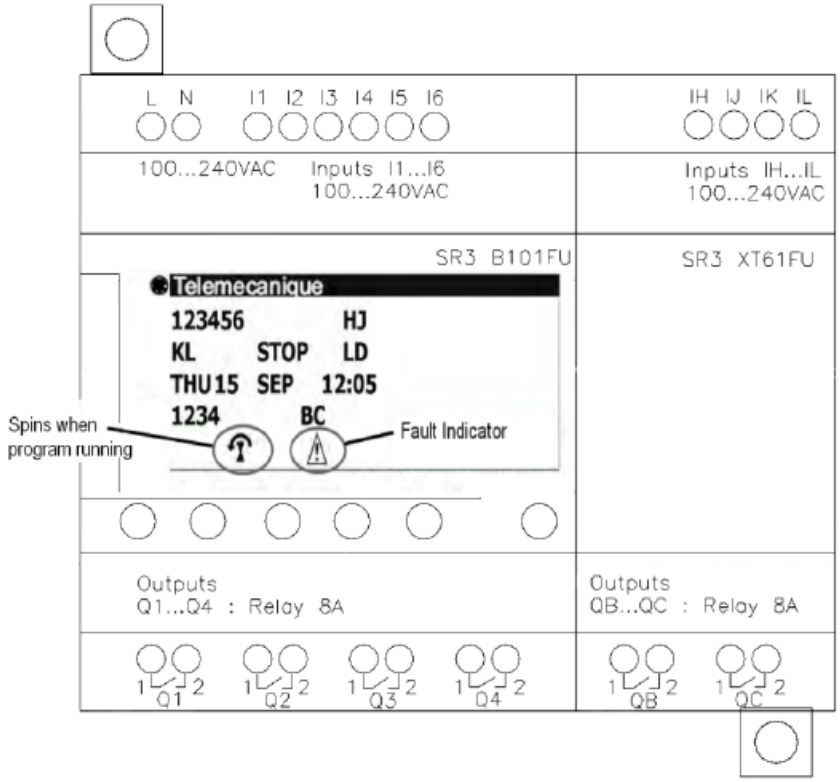


Figure 65.

Refer to **"PLC Control Layout" on page 82** for control location details.

1. Press MENU/OK button; this switches the screen to the Main Menu.
2. Using the Arrow UP or Arrow DOWN key, scroll to FAULT; flashing indicates current selection.
3. Press MENU/OK button.
   "YES" option is flashing to Clear the Fault.
4. Press MENU/OK button.
5. Using the Arrow UP key, scroll to RUN/STOP; flashing indicates current selection.
6. Press MENU/OK button.
   "YES" option is flashing to Run Program.
7. Press MENU/OK button to complete settings.

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FAULT LIST

NO.	DESCRIPTION OF FAULT
0	No faults.
1	**Fault in writing to EEPROM** - This fault defines transfer problems between the memory cartridge and the controller. If the fault occurs frequently, contact the after sales service.
2	**Fault in writing to the clock** - If the fault occurs frequently, contact the after sales service.
50	**Module firmware is damaged** - Reload the firmware on the module and the user application. If this problem persists, contact the after sales service.
51	**Watchdog overflow** - Warning or error according to the selection made in the configuration menu (module display) or in the configuration window (Zelio Soft 2 programming workshop). The cycle time in the module is too short compared with the application program execution time programmed in the controller. If the application requires a strict sampling of the module inputs/outputs, lengthen the cycle time in the module. To do this, configure the information either in the CONFIGURATION menu (module display) or in the configuration window (Zelio Soft 2 programming workshop). If the application does not require the cycle time, in CONFIGURATION select: No Action for the WATCHDOG.
52	T**he controller has executed an unknown operation** - If the fault is permanent, reload the firmware on the module and the user application. If this problem persists, contact the after sales service.
53	**Link between module and bus extension faulty** - Check operation of the extension (connection, power supply, or fault).
54	**Link between module and bus extension faulty** - Check operation of the extension (connection, power supply, or fault).
58	**A fault is present in the firmware (software specific to the controller) or on a part of the controller hardware.** If the fault is permanent, reload the firmware on the module and the user program. If this problem persists, contact the after sales service.
59	**At the beginning of RUN on the module application: the application cannot switch to RUN as it is incompatible with the module physically connected to the supply.** If this problem occurs, contact the after sales service.
60	**At the beginning of RUN on the module application: program incompatible with the bus extension physically connected to the supply.** If this problem occurs, contact the after sales service.
61	**At the beginning of RUN on the module application: program incompatible with the Input/Output extension physically connected to the supply.** If this problem occurs, contact the after sales service.
62	**Version (or release number) incompatibility when loading a program from the backup memory.** If this problem occurs, contact the after sales service.
63	**Hardware configuration incompatibility when loading a program from the backup memory.** If this problem occurs, contact the after sales service.

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CONVERTING TO OPPOSITE FEED

Converting To Front / Rear Feed For VIP 4/6/8

1. Lock-Out/Tag-Out the compactor as specified in **"Lock-Out/Tag-Out Instructions" on page 5**.
2. Remove the container interlock switch from the VIP leg.
3. Remove bolts securing the cover and container lock assembly.
4. Move the cover and container lock assembly to the opposite side and reinstall the bolts. Torque – 75 ft-lbs
5. Reinstall the interlock switch on the opposite VIP leg, positioned on the side opposite the container entry/in-feed location.
   a. Verify that wiring is routed safely and secured away from moving parts.
6. Remove the header top cover above the power-pack and unscrew the driver light.
   a. Ensure the header cover is fully supported before loosening fasteners.
7. Relocate the driver light to the rear side of the header and secure it in place.
8. Reinstall and bolt the header top cover.
   a. Keep fingers clear of pinch points when lowering or aligning the cover.
   b. Verify all fasteners are tightened before restoring power.

Additional Safety Guidelines

1. Never reach under the header, VIP legs, or any suspended part during removal or installation.
2. Keep all personnel clear of the work area while components are being repositioned.
3. Use proper PPE at all times, including gloves, safety glasses, and steel-toe footwear.
4. Ensure tools and parts are placed on stable surfaces to prevent slipping or falling.
5. Confirm all interlocks, lights, and electrical components are reinstalled and functioning before returning the unit to service.
6. Use an approved safety ladder or platform when accessing elevated components.
7. Restore power only after verifying that all guards, covers, and safety devices are securely in place.

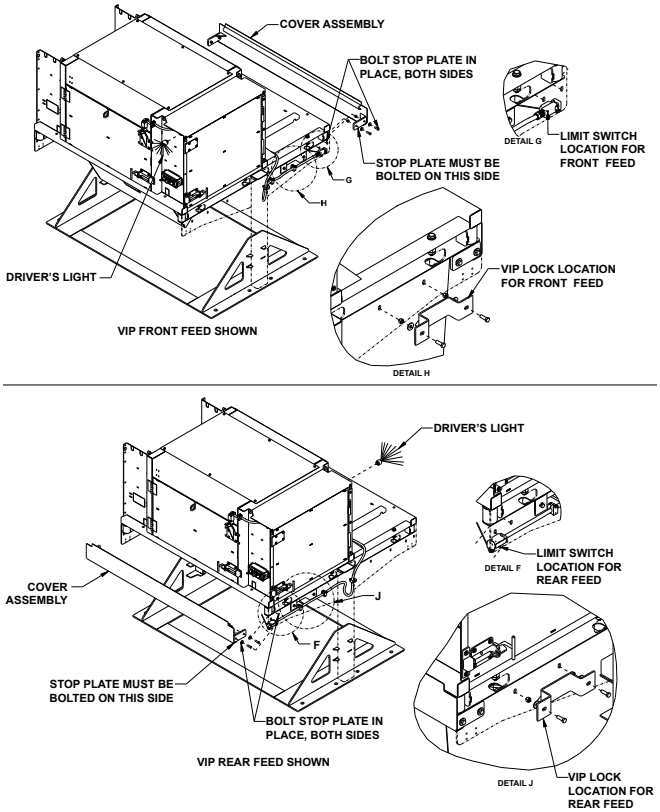


Figure 66.

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CONVERTING TO OPPOSITE FEED

Converting To Front / Rear Feed For Untouchable FL/RL VIP

1. Lock-Out/Tag-Out the compactor as specified in **"Lock-Out/Tag-Out Instructions" on page 5**.
2. Remove the container interlock switch from the VIP leg.
3. Reinstall the interlock switch on the opposite VIP leg, positioned on the side opposite the container entry/in-feed location.
   a. Verify that wiring is routed safely and secured away from moving parts.
4. Remove the header top cover above the power-pack and unscrew the driver light.
   a. Ensure the header cover is fully supported before loosening fasteners.
5. Relocate the driver light to the rear side of the header and secure it in place.
6. Reinstall and bolt the header top cover.
   a. Keep fingers clear of pinch points when lowering or aligning the cover.
   b. Verify all fasteners are tightened before restoring power.

Additional Safety Guidelines

1. Never reach under the header, VIP legs, or any suspended part during removal or installation.
2. Keep all personnel clear of the work area while components are being repositioned.
3. Use proper PPE at all times, including gloves, safety glasses, and steel-toe footwear.
4. Ensure tools and parts are placed on stable surfaces to prevent slipping or falling.
5. Confirm all interlocks, lights, and electrical components are reinstalled and functioning before returning the unit to service.
6. Use an approved safety ladder or platform when accessing elevated components.
7. Restore power only after verifying that all guards, covers, and safety devices are securely in place.

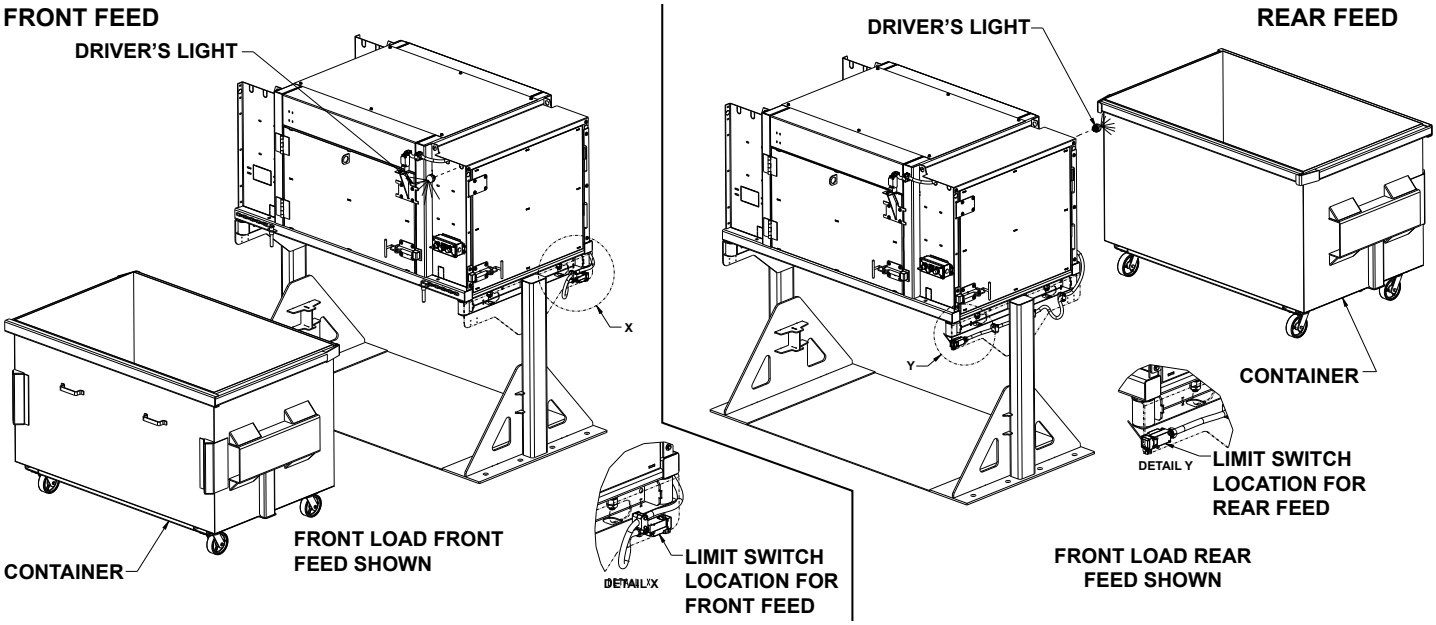


Figure 67.

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CONVERTING TO OPPOSITE FEED

Converting For VIP 4/6/8 to Front / Rear Feed To Side Feed

1. Lock-Out/Tag-Out the compactor as specified in **“Lock-Out/Tag-Out Instructions” on page 5**.
2. Remove the container interlock switch from the VIP leg and place secure on Head.
3. Using appropriate material-handling equipment, remove the head assembly from the VIP legs.
   a. Do not place hands, arms, or any part of the body beneath the header or VIP legs at any time.
   b. Ensure all lifting equipment is rated for the load and positioned on stable ground.
   c. Maintain clear communication with all personnel involved in the lift.
4. Rotate/orient the VIP header to the side-feed position based on LH or RH configuration.
5. Reassemble the header using the Side-Feed (SF) bolt kit. (Note: Front feed fastener are not compatible for Side feed configurations.) and torque all bolts to 90 - 100 ft-lbs.
   a. Use a calibrated torque wrench to ensure proper fastener tightening.
   b. Keep fingers clear of pinch points during alignment and tightening.
6. Reinstall the interlock switch on the opposite VIP leg, positioned opposite the container entry/in-feed side.
7. Remove the header top cover above the power-pack and unscrew the driver light.
   a. Ensure the header cover is fully supported before loosening fasteners.
8. Reposition the VIP light so it faces the container in-feed position and secure it in place.

   Note: SF-LH configuration can be converted to SF-RH by swapping the rear cover, Container Lock, limit-switch location, and driver light.

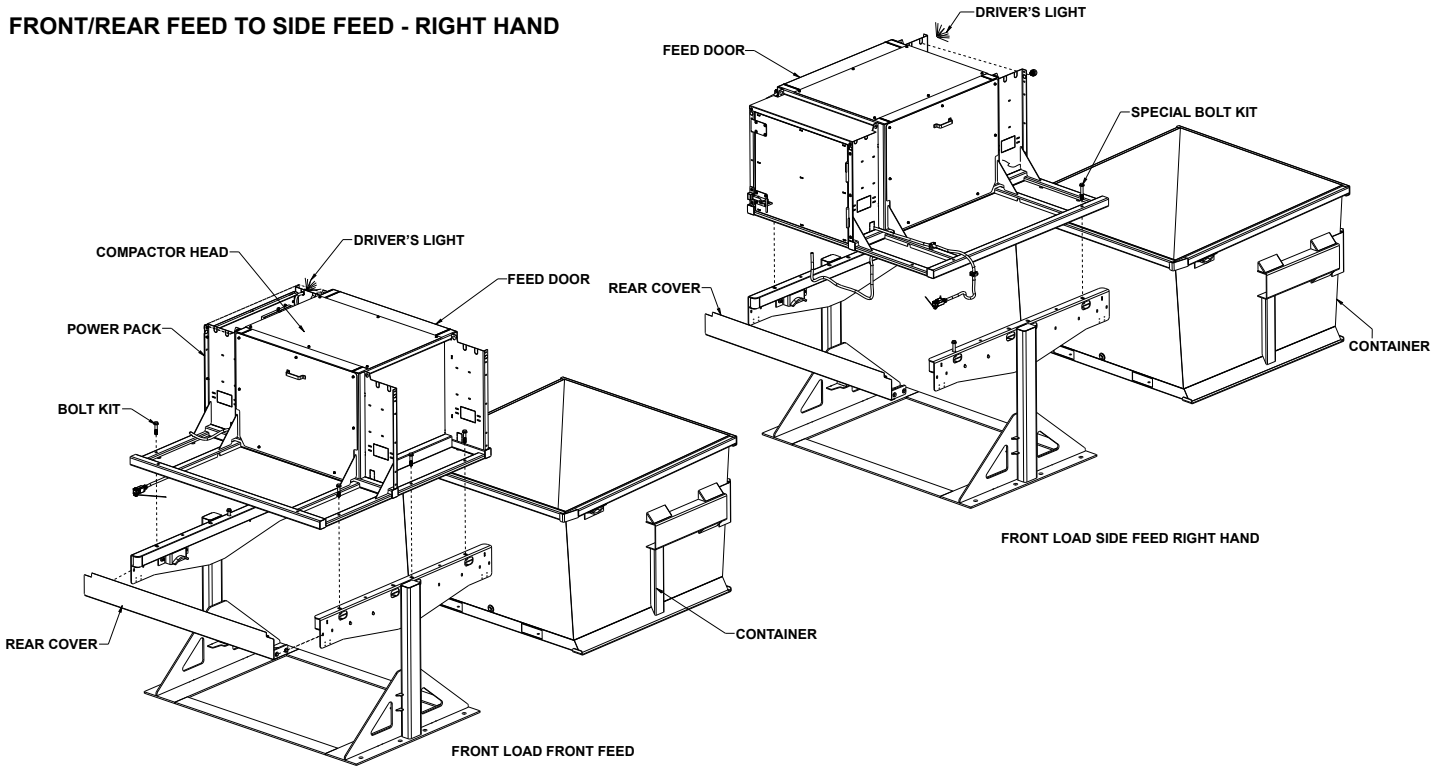
Additional Safety Guidelines

1. Never reach under the header, VIP legs, or any suspended part during removal or installation.
2. Keep all personnel clear of the work area while components are being repositioned.
3. Use proper PPE at all times, including gloves, safety glasses, and steel-toe footwear.
4. Ensure tools and parts are placed on stable surfaces to prevent slipping or falling.
5. Confirm all lifting devices, slings, and attachments are properly secured before applying load.
6. Confirm all interlocks, lights, and electrical components are reinstalled and functioning before returning the unit to service.
7. Use an approved safety ladder or platform when accessing elevated components.
8. Verify all fasteners are torqued to specification before returning the unit to service
9. Restore power only after verifying that all guards, covers, and safety devices are securely in place.

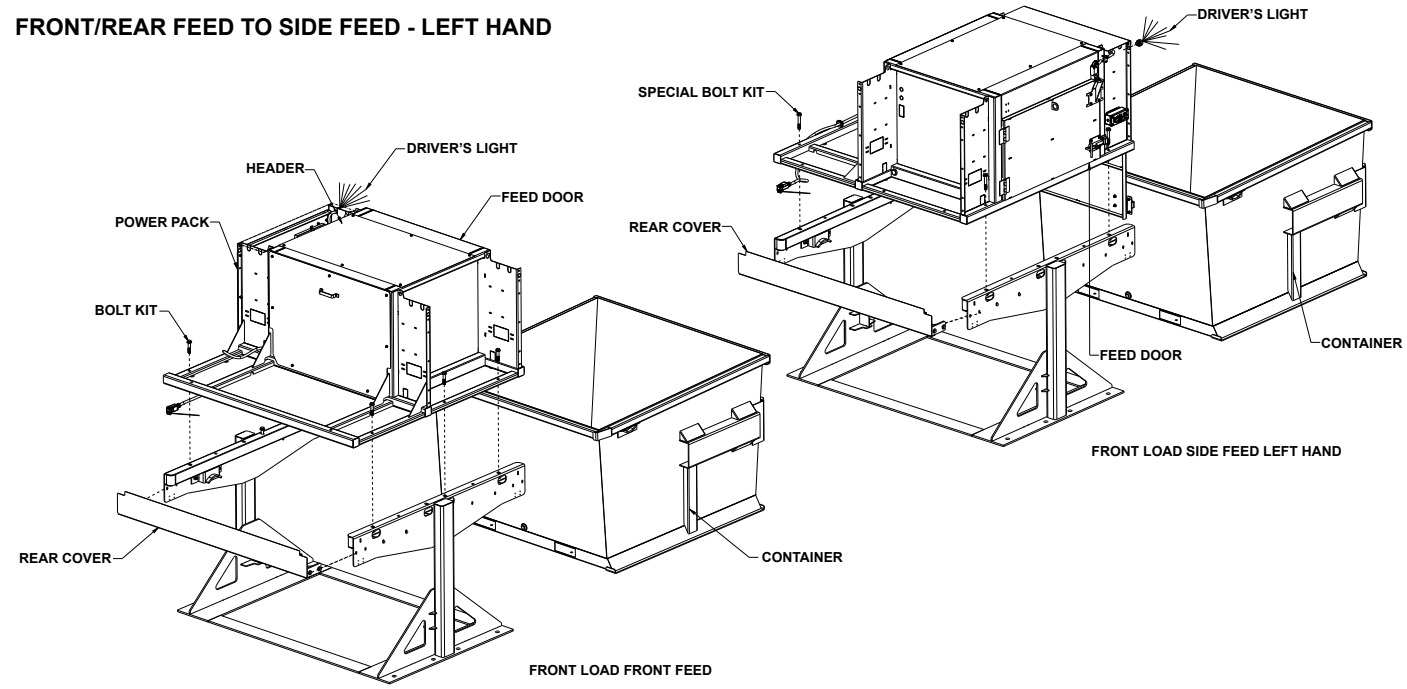
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CONVERTING TO OPPOSITE FEED

FRONT/REAR FEED TO SIDE FEED - RIGHT HAND



FRONT/REAR FEED TO SIDE FEED - LEFT HAND



! Keep The Lifting Devices / Fork Engaged With Header While Assembly And Disassembly !

Figure 68.

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CONVERTING TO OPPOSITE FEED

Converting Standard Power-Pack Location To Door-Hinged-Opposite (DHO)

1. Lock-Out/Tag-Out the compactor as specified in the **"Lock-Out/Tag-Out Instructions" on page 5**.
2. Remove the header top cover above the power-pack, header rear cover.
3. Remove the fasteners securing the interlock switches (mid-position, up-position, and container-in), solenoid feed-door switch, Driver light, push-button station, main disconnect.
4. Disconnect the hydraulic hoses from the power-pack.
5. Secure all removed components to the power-pack to prevent damage during transport or repositioning.
6. Locate and weld the new PPK mounting plate at door-hinged-opposite side of the VIP as shown.
7. Using appropriate lifting equipment, safely remove the power-pack and place it on the door-hinged-opposite side of the VIP.
   a. Never place hands, arms, or tools beneath the power-pack or header during lifting or positioning.
   b. Ensure lifting equipment is rated for the load and positioned on stable, level ground.
8. Remove the standard VIP feed door by grinding off the welds at the bullet hinge.
   a. Caution: Secure the VIP feed door with an approved safety-holding device before removing the weld on the bullet hinge /Feed door.
9. Install DHO feed door following the field-installation drawing for correct spacing and weld procedure.
   a. Use proper PPE during grinding and welding operations.
   b. Caution: Secure the VIP feed door with an approved safety-holding device before installing new Feed door.
10. Reinstall the interlock switches (mid-position, up-position, and container-in), the solenoid feed-door switch, the VIP light, and the push-button station.
    a. Verify that wiring is routed safely and secured away from moving parts.
11. Test all switch functions to verify proper operation before restoring power.
12. Assemble the header top cover above the power-pack, Header rear cover.

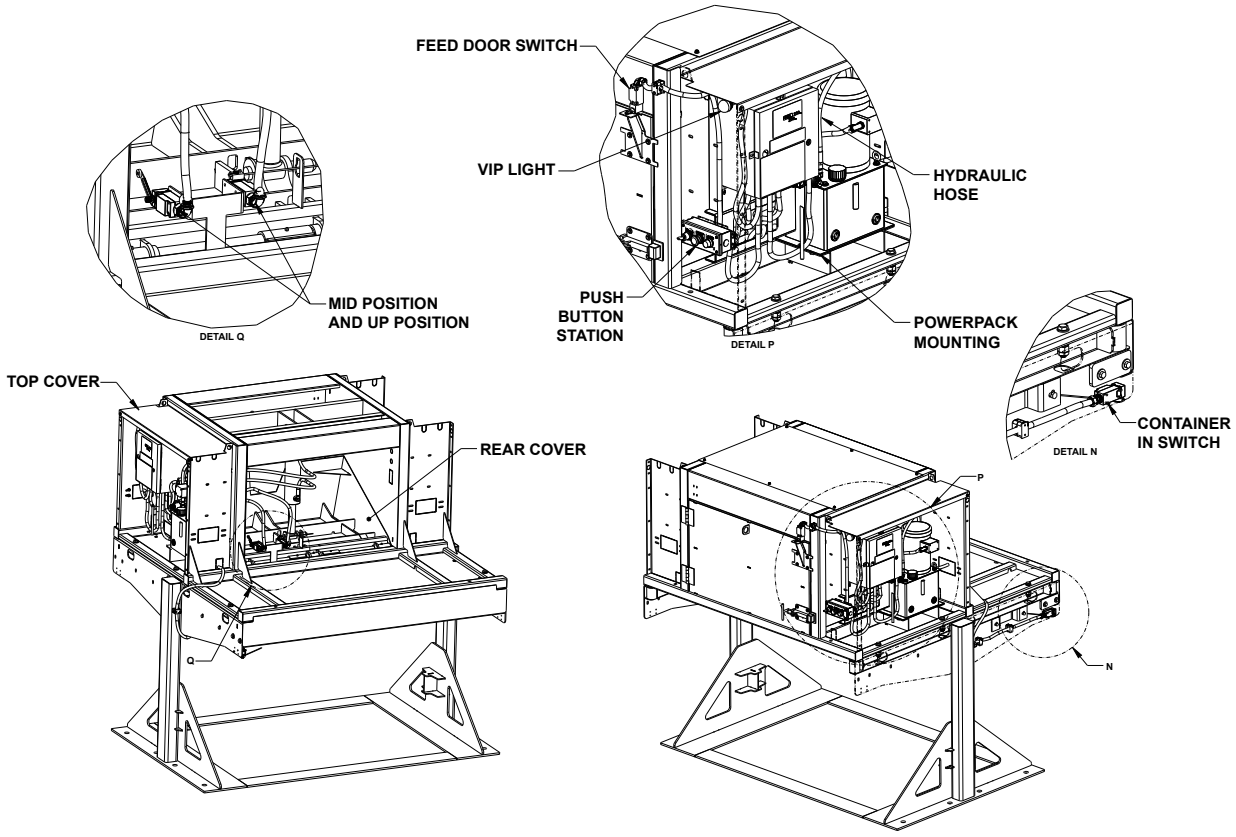
Additional Safety Guidelines

1. Never reach under the header, VIP legs, Power-pack or any suspended part during removal or installation.
2. Keep all personnel clear of the work area while components are being repositioned.
3. Use proper PPE at all times, including gloves, safety glasses, and steel-toe footwear.
4. Ensure tools and parts are placed on stable surfaces to prevent slipping or falling.
5. Confirm all lifting slings, hooks, and attachments are properly secured before applying load.
6. Confirm all interlocks, lights, and electrical components are reinstalled and functioning before returning the unit to service.
7. Use an approved safety ladder or platform when accessing elevated components.
8. Restore power only after verifying that all guards, covers, and safety devices are securely in place.

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CONVERTING TO OPPOSITE FEED

STANDARD POWER PACK LOCATION



DOOR HINGE OPPOSITE POWER PACK LOCATION

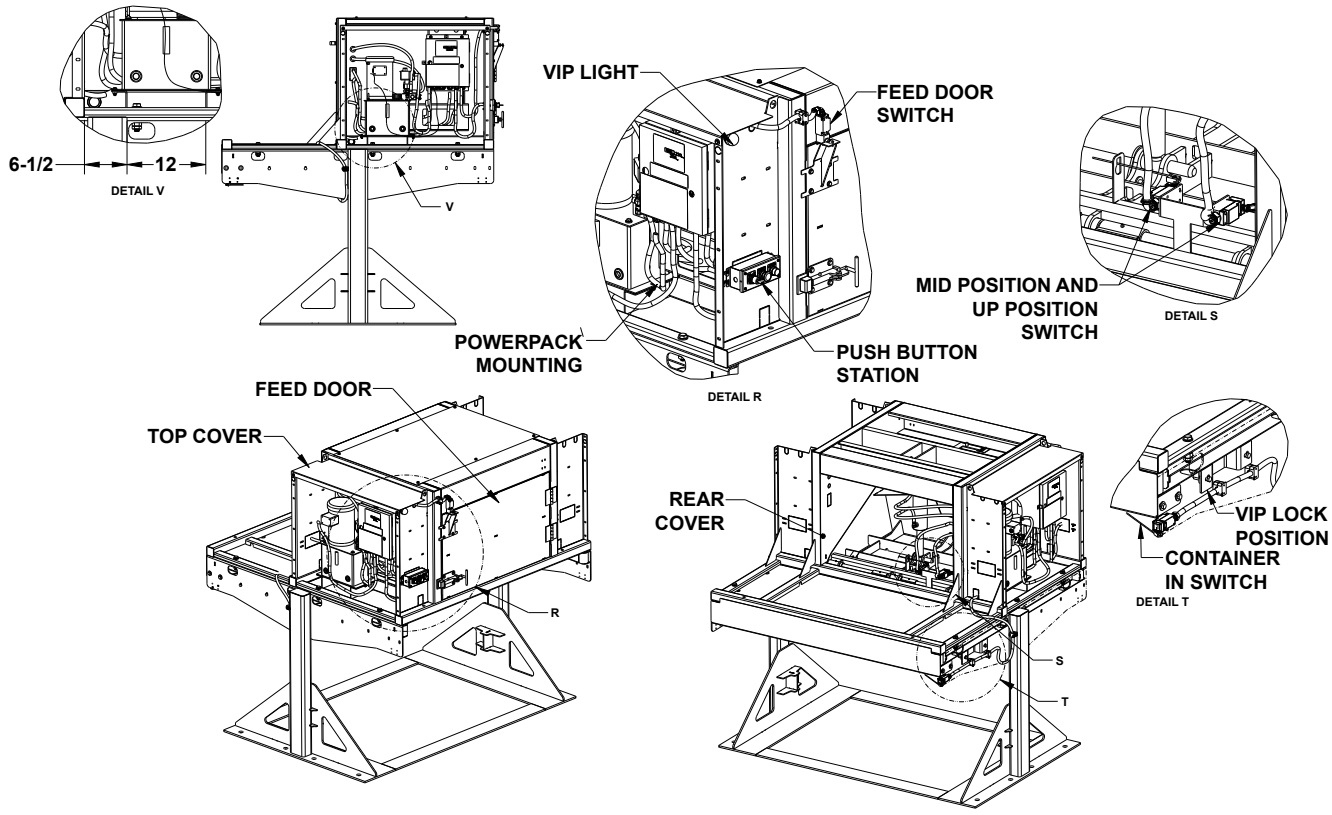


Figure 69.

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HEADER REMOVAL & RE-INSTALLATION

Procedure For The Trash Room Unit Installation With Low Ceiling Height

Lock-Out/Tag-Out the compactor as specified in **"Lock-Out/Tag-Out Instructions" on page 5**.

1. Remove the container interlock switch from the VIP leg.
2. Remove the container-in sealtite from the clamps and place secure on Head.
3. Remove the four (4) mounting bolts securing the header.
   a. Support the header by appropriate material-handling equipment before loosening the bolts.
   b. Do not place hands, arms, or any part of the body beneath the header or VIP legs at any time.
   c. Maintain clear communication with all personnel involved in the lift.
4. Detach the header from the legs and move both components into the trash room for staging.
   a. Use proper lifting techniques or equipment when handling heavy components.
   b. Do not place hands, arms, or any part of the body beneath the header or VIP legs at any time.
   c. Maintain clear communication with all personnel assisting with the move.
5. Reposition the header and legs, ensuring bolt holes are properly aligned.
6. Reinstall mounting bolts to secure header and torque to 90 - 100 ft-lbs.
   a. Use a calibrated torque wrench to ensure proper fastener tightening.
   b. Keep fingers clear of pinch points during alignment and tightening.
7. Reassemble container interlock in original configuration.
   a. Verify that wiring is routed safely and secured away from moving parts.
   b. Test the limit switch to confirm proper operation before restoring power.

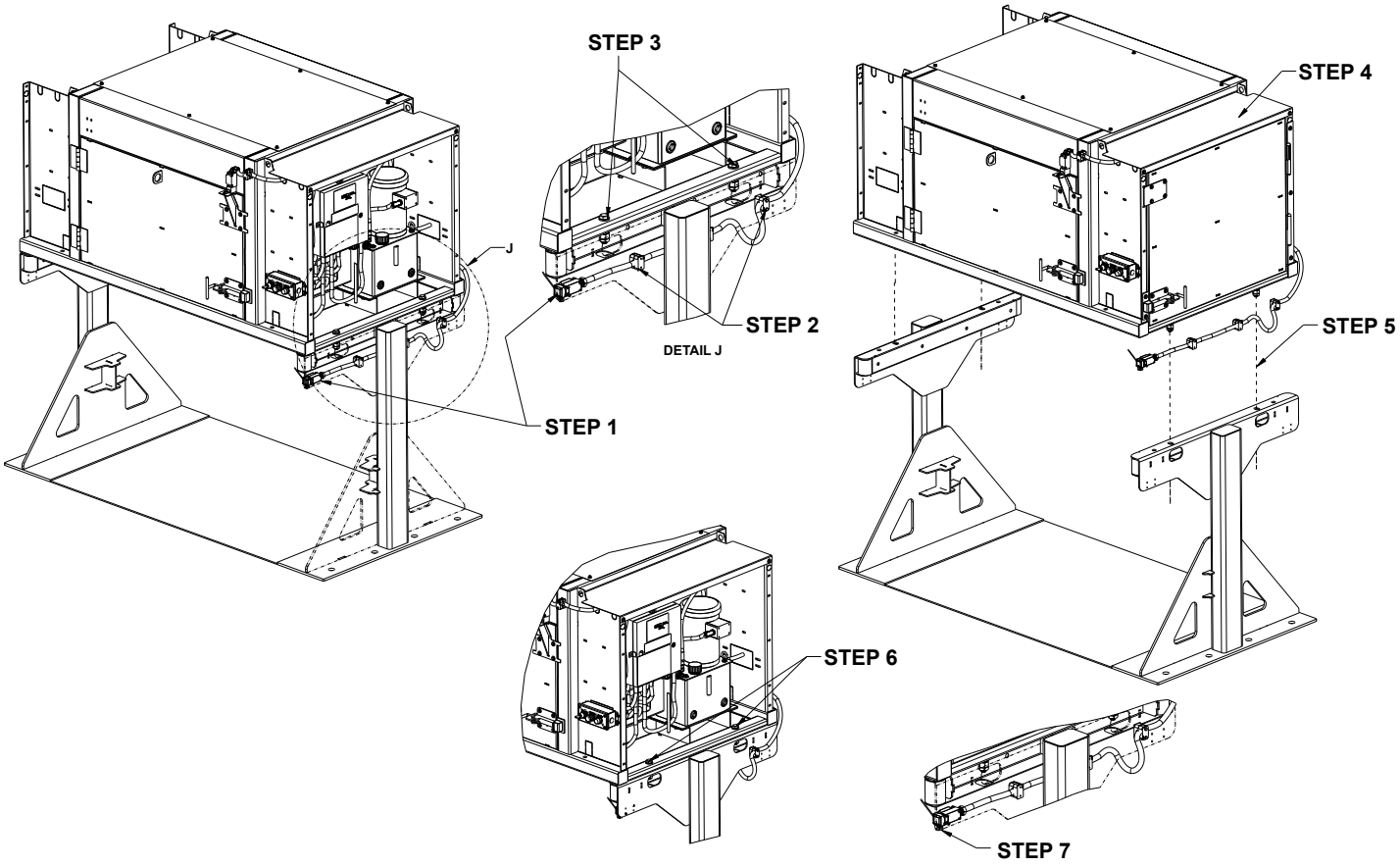
Additional Safety Guidelines

1. Never reach under the header, VIP legs, or any suspended part during removal or installation.
2. Keep all personnel clear of the work area while components are being repositioned.
3. Use proper PPE at all times, including gloves, safety glasses, and steel-toe footwear.
4. Ensure tools and parts are placed on stable surfaces to prevent slipping or falling.
5. Confirm all lifting devices, slings, and attachments are properly secured before applying load.
6. Confirm all interlocks, lights, and electrical components are reinstalled and functioning before returning the unit to service.
7. Use an approved safety ladder or platform when accessing elevated components.
8. Verify all fasteners are torqued to specification before returning the unit to service
9. Restore power only after verifying that all guards, covers, and safety devices are securely in place.

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HEADER REMOVAL & RE-INSTALLATION

Header Reinstallation Procedure



! Keep The Lifting Devices / Fork Engaged With Header While Assembly And Disassembly !

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TROUBLESHOOTING

⚠ WARNING

Never enter any part of the compactor until the unit has been locked-out and tagged-out per **"Lock-Out/Tag-Out Instructions" on page 5**.

Only authorized and trained service personnel should perform any inspection, maintenance, adjustment or repair on this compactor. Do NOT enter the compactor for any reason until it has been locked-out and tagged-out per the **"Lock-Out/Tag-Out Instructions" on page 5**.

Basic tools required:

- Continuity light
- Screwdrivers – 1 medium flat-head, 1 small Phillips
- Adjustable wrench
- Allen wrenches
- Flashlight
- Voltage and Amp tester
- Electrical schematic

PROBLEM	POSSIBLE CAUSE	SOLUTION
EXCESSIVE VOID IN CONTAINER	1) Improper loading of unit.	1) When loading, throw wastes as far to the rear as possible.
	2) Unit not being cycled when loaded.	2a) Cycle after each load. 2b) Keep door closed.
CHARGE BOX AREA ALWAYS FULL OF REFUSE (UNIT NOT PACKING PROPERLY)	1) Ram being left in the UP position.	1) When not in use, ram should be in midpoint position. Close door.
	2) Unit not being cycled when loaded.	2) Cycle after each load.
	3) Loss of pressure.	3) Refer to **"Hydraulic System Pressure Setting" on page 65**.
	4) Scheduled removal of container not allowing "Container Full" light to illuminate.	4) Pack until "Container Full" light comes ON.
	5) Improper installation.	5) Check clearance between head and container (max. 1/8").

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
UNIT WILL NOT START	1) No electrical power to unit.	1a)Turn main disconnect switch ON. 1b) Replace fuses or reset breakers.
	2) No electrical power to control circuits.	2a) Check primary and secondary sides of transformer. 2b) Check fuses in control box. 2c) Check STOP button. Pull to reset.
	3) No electrical power to motor.	3) Push reset on overload.
	4) Interlock switches not closed. (Check also to make sure the door is closed and that the container is fully under the VIP)	4a) Check stop button between TB #4 & #8. Contact should be closed with the Stop button pulled out. 4b) Container Gone Interlock between TB #2 & #3, should be closed. If not, make sure container is completely inserted under head. 4c) Check door interlock adjustment.
	5) UP/DOWN switch inoperative.	5a) Check UP/DOWN switch between TB #8 & #I2. Contacts should be closed when the key is in the UP position or with the timer activated. 5b) Check for moisture in UP/DOWN switch. To correct, dry all parts completely, including interior of actuator head.
	6) Limit switch #1 (top position) inoperative (when ram is not activating limit switch).	6) Normally open contact between TB #8 & #I5 open. Check wiring or replace limit switch if necessary.
	7) Limit switch #2 (midpoint) inoperative (when ram is above container).	7) Normally open contact between TB #8 & #I6 open. Check wiring or replace limit switch if necessary.
	8) Motor starter is inoperative.	8) Check motor starter coil and wiring.
	9) Motor starter contacts are inoperative.	9) Check motor starter contacts and wiring.

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
CONTAINER FULL LIGHT ACTIVATES PREMATURELY	1) Midpoint limit switch out of adjustment.	1) Adjust midpoint limit switch.
	2) Building pressure on upstroke.	2a) Check pressure required to retract ram from full extension to midpoint. It should be no more than 400 psi. 2b) Ram is binding. Check welds. Check for warping. 2c) Cylinder is binding. Check upper and lower pinning locations. Cylinder should be perpendicular to ram. 2d) Solenoid valve malfunction. Replace valve.
UNIT WILL NOT SHUT DOWN AT TOP POSITION	1) Limit switch #1 inoperative.	1a) Check open contact between TB #8 & #I5. 1b) Check limit switch arm for proper operation.
	2) Keyswitch not being turned to its full UP position.	2) Turn switch all the way to UP and release.
MOTOR RUNS BUT RAM WILL NOT MOVE NORMALLY	1) Insufficient hydraulic fluid in the reservoir.	1) Fill reservoir with hydraulic fluid.
	2) Low relief pressure.	2) Clean orifice in relief valve (on pump) and reset pressure.
	3) Oil leakage in cylinder.	3) Replace seal kit.
	4) Defective pump.	4) Replace all hydraulic fluid in system and pump.
	5) Loose pump connection.	5) Tighten loose connections.
	6) Oil leak from hose.	6a) Replace faulty hose. 6b) Check plumbing inside reservoir for leaks and tighten or replace as necessary.
	7) Pump rotating in wrong direction.	7) Stop immediately to prevent pump seizure. Reverse any two incoming power leads.

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
UNIT DOES NOT REVERSE	1) Pressure switch is inoperative.	1) Operate pressure switch manually by pushing micro switch on underside of cover. TB #8 & #I4 should now close. If not, check wiring and replace pressure switch if necessary.
	2) Solenoid inoperative.	2a) Manually shift solenoid valve to determine whether it will function and is not binding due to contaminated fluid. Flush out solenoid valve. If it then moves freely, flush out entire hydraulic system and replace with new fluid. If valve binds after cleaning, replace valve. 2b) Check coil wiring for loose wire.
	3) Insufficient hydraulic pressure to activate pressure switch.	3) Check pressure and reset pressure switch if necessary. Pressure switch is set to activate at 2100 psi.
	4) Pump failure.	4) Replace all hydraulic fluid in system and pump if it will not hold 2400 psi steady for 3 - 5 seconds. WARNING: IF PUMP RUNS RELIEF FOR MORE THAN 15 SECONDS, DAMAGE TO PUMP MAY OCCUR.
UNIT WILL NOT SHUT DOWN AT CONTAINER SEALING POSITION (MIDPOINT)	1) Limit switch #2 inoperative.	1) Check open contact between TB #8 & #I6 to see if contact is closed. Replace if damaged.
UNIT SHUTS DOWN AFTER RAM HAS ENTERED CONTAINER	1) Container interlock malfunction.	1) Check adjustment.
	2) Container moving off the container interlock (walking).	2a) Insert container fully. 2b) Pad not level. Level pad.
	3) Improper installation.	3) Check clearance between head and container (max. 1/8”).
	4) Midpoint limit switch improperly adjusted.	4) Adjust midpoint.

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
PUMP PRESSURE DECREASES	1) Contaminated hydraulic fluid.	1) Replace fluid in entire system.
	2) Internal hose or fitting leaking.	2) Inspect and replace as necessary.
	3) Drop in relief pressure.	3) Clean relief valve. If it will still not build pressure, replace pump.
	4) Fluid bypassing inside cylinder.	4) Replace fluid in entire system and replace cylinder.
	5) Cavitation due to lack of hydraulic fluid.	5) Add hydraulic fluid.
PUMP MAKES NOISE, SOUNDS LIKE GRAVEL	1) Partially clogged suction strainer or suction pipe.	1) Pump must receive fluid freely or cavitation will result. Flush system, clean suction pipe and clean or replace suction strainer. Add clean fluid.
	2) Low fluid level.	2) Add fluid to the correct level.
	3) Defective bearing.	3) Replace pump.
RAPID WEAR, OFTEN INDICATED BY REPEATED PUMP FAILURE AND/OR SOLENOID VALVE MALFUNCTION	1) Contaminated fluid.	1) Flush hydraulic system and replace with clean fluid.
UNUSUAL SPILLAGE DURING CONTAINER REMOVAL	1) Ram not in midpoint position.	1) Ram should remain in midpoint position at all times except when feeding.
UNIT SHUTS DOWN; NO HAULERS LIGHT	1) Bulb for Haulers light burned out.	1) Replace bulb.
	2) Transformer for Haulers light burned out.	2) Replace transformer.

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
UNIT SHUTS DOWN; HAULERS LIGHT ON; WILL NOT START	1) Unit is packed out; Container Full Light on.	1) Empty container to reset light.
	2) Container Full system activated but Container Full light is out.	2) Light is burned out. Replace. Turn disconnect switch off and back on to reset light. Cycle unit and check light.
	3) Container Full system activated, but unit not packed out.	3) Check pressure required to return cylinder from full “extend” to midpoint. If pressure is greater than 400 psi, cylinder and/or ram may be binding or solenoid valve may not be shifting properly. Repair or replace as required. Check fluid for contamination and replace as required.
	4) Overloads may be tripped out.	4) Reset overload on motor starter and check for cause.
MOTOR OVERHEATING; RUNNING AS IF UNDER CONSTANT LOAD OR CONSTANTLY TRIPPING OUT OVERLOADS	1) Low voltage or loss or phase.	1a) Check incoming voltage at top of motor starter. Check for balanced incoming voltage (line to ground all incoming lines). 1b) Check wire connections from top of motor starter to motor taps.
CONTAINER FULL LIGHT WILL NOT ILLUMINATE	1) sition.	1) Check midpoint limit switch adjustment.
	2) Light is burned out.	2) Replace light.

NOTE: In all events, check output fuses.

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INDEX

A

Adjustment
- Anchoring Requirements 26
- ANSI 2
- Midpoint Limit Switch 44
- Pressure Setting 65
- Top Position Limit Switch 43

C

Control Panel
- Standard & Untouchable Unit 37

Converting To Opposite Feed 88
Cylinder Replacement 66

D

Decal
- Warning Decal Requirements 69

Decals
- Decal Part Numbers E/F 75
- Decal Part Numbers E/S 74

E

Electrical Charts 68
Electrical Layout 76
EMERGENCY STOP 34

H

Hydraulic Layout 77

I

Indicator
- Advanced Warning 34
- Container Full 34

Installation
- Hydraulic 81
- Through-the-Wall Chute 27

L

Lubrication
- Diagram 42
- Recommended Oils 64

O

Operation
- Instructions 35
- Principles 67

OSHA 2

P

Pad
- Asphalt 25
- Concrete 25

PLC
- Fault List 87
- Layout 82

Program
- Clear Fault 86
- Memory Transfer 84
- Run/Stop 83
- Timer 85

R

Recommended Oils 64

S

Specifications 7
Switch
- Down/Up 34

T

Tools 96
Troubleshooting 96

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