



RamJet® Self-Contained Compactor Container

RJ-88SC, RJ-100SC, RJ-250WD, RJ-250SC, RJ-250SC ULTRA, RJ-SC²

Includes HT (Hydraulic Tailgate) and SL (Streamline®, Liquid Removal) Units

OPERATION, SERVICE, AND INSTALLATION

ISSUED SEPTEMBER 2024

CUSTOMER NAME: _____

SERIAL NUMBER: _____

COMPACTION & RECYCLING SOLUTIONS

0018-RJSC-0924



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**Environmental
Solutions Group**

Environmental Solutions Group

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.

RamJet Self-Contained Compactor Container

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0018-RJSC-0924

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SECTION 1

GENERAL INFORMATION

RamJet Self-Contained Compactor Container

General Information

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INTRODUCTION

Thank you for purchasing a Marathon® RamJet Self-Contained Compactor Container!

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 install, operate, and maintain the machine. 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 machine 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:

**ENVIRONMENTAL INDUSTRIES ASSOCIATION
4301 CONNECTICUT AVENUE, NW SUITE 300
WASHINGTON, D.C. 20008**

OSHA Standards - 29 CFR

Refer to:

- 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 REPAIRS THAT GO BEYOND THE SCOPE OF 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:

**Marathon Equipment Company
P.O. Box 1798
Vernon, AL 35592-1798
Attn: Field Service Department
877-258-1105**

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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 maintenance and care.

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HAZARD SYMBOLS AND 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** – indicates an imminently hazardous situation, which **WILL** result in **DEATH** or **SERIOUS INJURY** if you don't follow proper instructions.
- **WARNING** – indicates an imminently hazardous situation, which **COULD** result in **DEATH OR SERIOUS INJURY** if you don't follow proper instructions.
- **CAUTION** – indicates an imminently hazardous situation, which will result in **MINOR to MODERATE INJURY** if you don't follow proper instructions.
- **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.

The specific Lock-Out and 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. Lockout 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 and 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 and Tag-Out is effective. If the Lock-Out and 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 (CONTINUED)

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 lockout devices and re-energize the compactor.

NOTICE

The removal of some forms of blocking may require re-energizing of the compactor before safe removal.

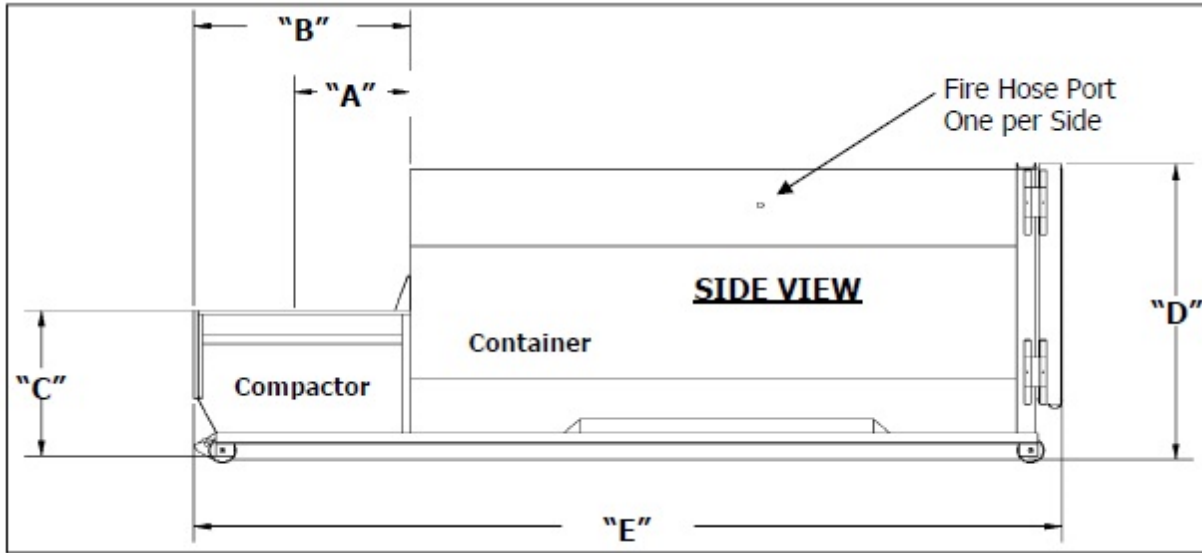
5. Notify affected employees that the servicing or maintenance is completed and the compactor is ready for use.
6. Reassess area to determine all hazards are protected.

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SPECIFICATIONS



	RJ-88SC	RJ-100SC	RJ-250SC	RJ-250SC ULTRA	RJ-250SC HT	RJ-SC ²
"A" Clear Top Opening (Length x Width) (inches)	30 1/2 X 48	35 X 60	41 1/2 X 58	41 1/2 X 58	41 1/2 X 58	40 1/2 X 56 1/2
"B" (inches)	70	76 1/8	67	67	67	67
"C" (inches)	43	48	48	48	48	48
"D" max (inches)	95*	104*	104*	104*	102*	104*
"E" max (inches)	284 1/2*	290*	299 1/2*	269*	277*	300 11/16*
Charge Box Capacity (cubic yards)	1.0	1.50	1.70	1.70	1.70	1.65
NWRA Rating (cubic yards)	0.70	1.32	1.31	1.31	1.31	1.25
Cycle Time (seconds)	44	37	33	33	33	37

*Determined by the size and capacity of the container.

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SERVICE/PARTS ASSISTANCE

Assistance in troubleshooting, repair and service is available by contacting the authorized Marathon Equipment Company Dealer in your area. Parts are available at your Marathon Equipment Company Dealer or through Marathon Equipment Company. Marathon Equipment Company personnel are trained to give prompt, professional assistance.

ALWAYS give the machine serial number in all correspondence relating to the equipment.

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.

RECOMMENDED OILS

The following oils by brand name are approved for use in the hydraulic system on this equipment and considered to be all temperature hydraulic fluids.

- 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

Automatic Transmission Fluid (for 15 HP and smaller units only)

- Quaker State-Dextron II (ATF)

Cold Weather Fluid

- Amoco-Rycon MV

GUARDS AND ACCESS COVERS

Before operating or performing maintenance, check the work area carefully to find all the hazards present and make sure all guards and safety devices are in place to protect all persons and equipment involved.

WARNING

DO NOT operate without all guards and access covers in place.

WARNING DECALS ON THE UNIT

WARNING

DO NOT operate without all guards and access covers in place.

Make sure you can read all warning and instruction decals. Clean decals if you cannot read the words. See below for directions on cleaning decals. Replace any decal that is damaged, missing, or is not readable. When you replace a part that has a decal, make sure a new decal is installed on the new part. See the Operation, Service, and Installation Manual for replacement decals. Order replacement decals from Marathon Equipment Company or an authorized dealer.

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.

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- 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:

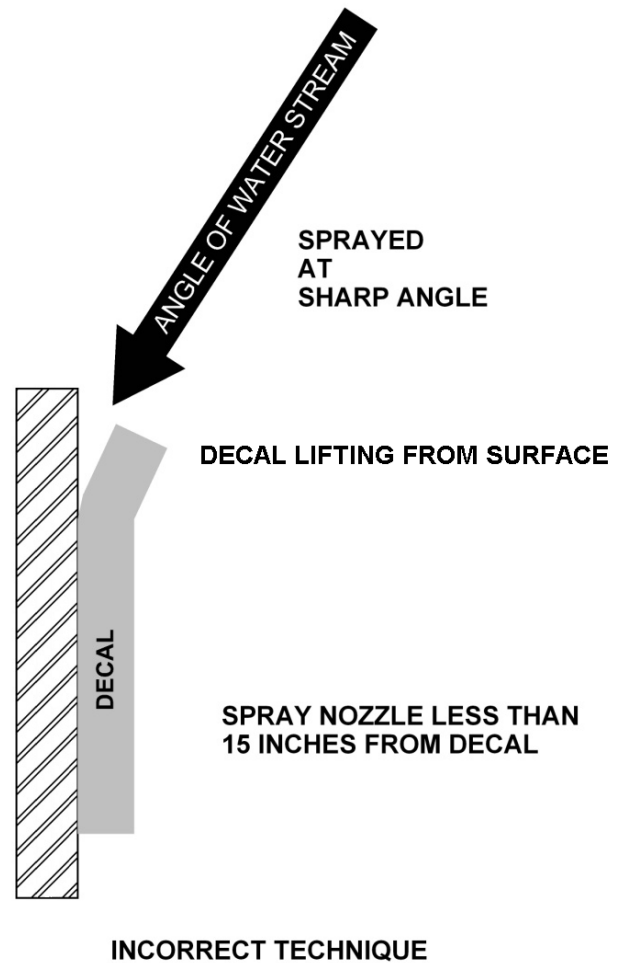
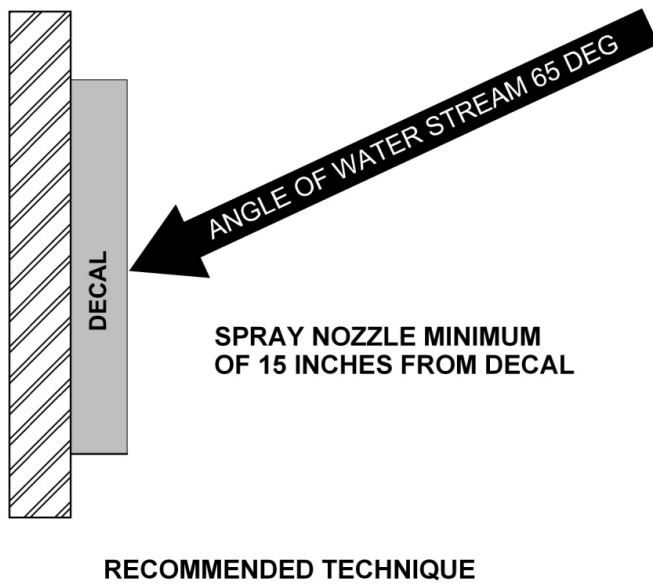
- Spot clean the decal with Isopropyl Alcohol and a micro-fiber cloth (rag)
- If these methods do not work on a problem area, call a Marathon Equipment Company Dealer or Marathon Equipment Company Customer Support.

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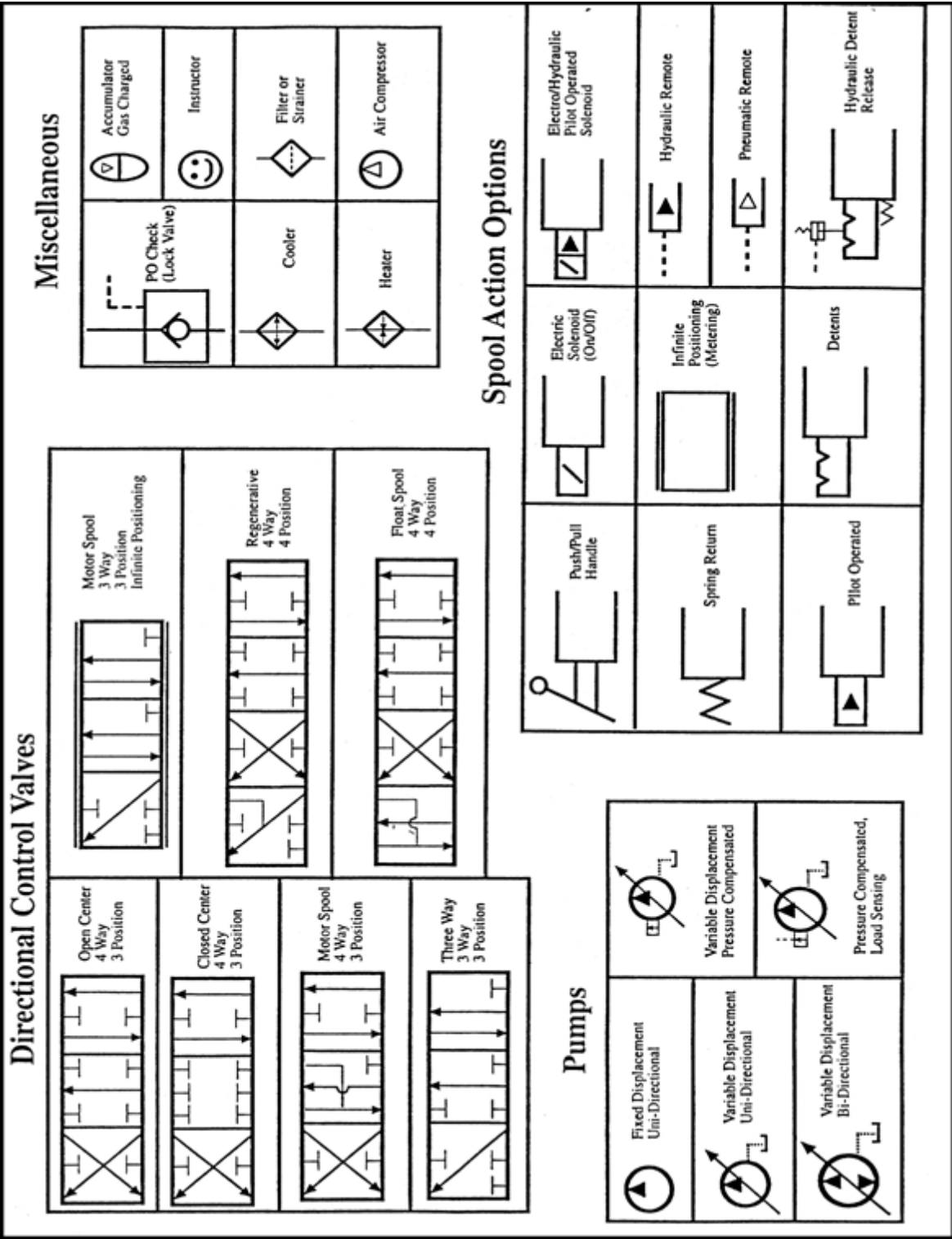
DECAL CARE (CONTINUED)



RamJet Self-Contained Compactor Container

General Information

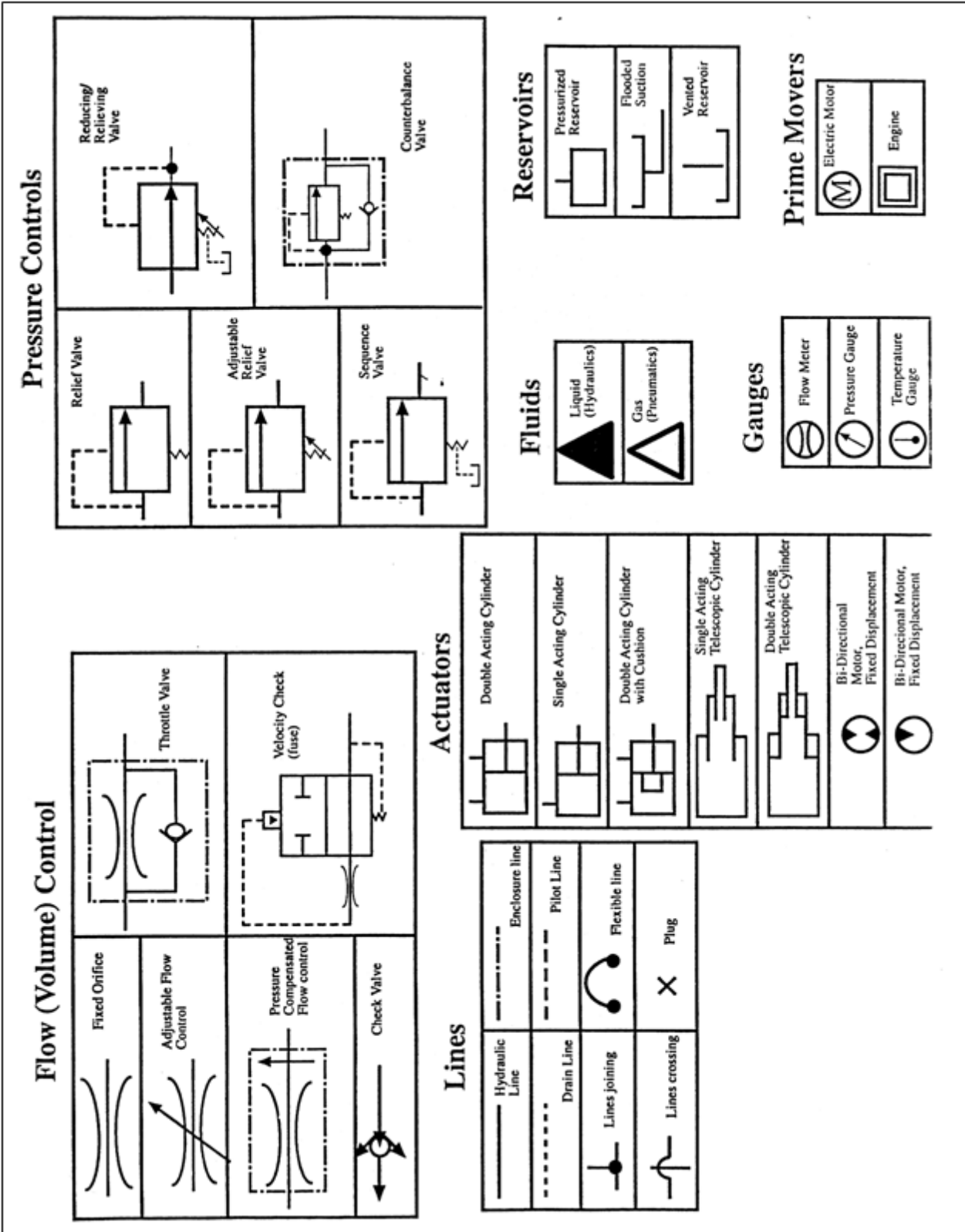
HYDRAULIC SYMBOLS



RamJet Self-Contained Compactor Container



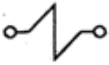




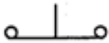

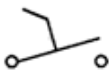





General Information

HYDRAULIC SYMBOLS (CONTINUED)



ELECTRICAL SYMBOLS

SYMBOL DEFINITIONS

	BATTERY
	FUSE
	SOLENOID
	CONTACT RELAY
	NORMALLY OPEN CONTACT OF CR1
	NORMALLY CLOSED CONTACT OF CR1
	INDICATOR LIGHT (GREEN)
	PUSH BUTTON SWITCH NORMALLY CLOSED
	PUSH BUTTON SWITCH NORMALLY OPEN
	TOGGLE SWITCH
	DIODE
	PRESSURE SWITCH
	LIMIT SWITCH NORMALLY OPEN
	LIMIT SWITCH NORMALLY CLOSED
	CAPACITOR

SECTION 2

INSTALLATION

CONTACT INFORMATION



Technical Service and Warranty:

877-258-1105

Parts:

800-528-5308

For parts visit our eCommerce Marketplace at www.mecomerchant.com.

If you do not have a user name and password, contact our Parts Department and they will assist with your registration.

Normal Business Hours:

Monday-Friday 8:00am - 5:00pm

(Central Standard Time)

CONCRETE PAD REQUIREMENTS

These installation instructions are not intended as a substitute for training and experience in proper use and safety procedures in operating this equipment. Marathon Equipment Co. does not assume responsibility for the installation procedures of this equipment. Conformance to applicable local, state, and federal laws concerning installation rests with the customer.

CAUTION

Review this manual before making the installation. Study the job site and installation requirements carefully to be certain all necessary safeguards or safety devices are provided to protect all personnel and equipment during the installation and as a completed system. Special attention is directed to the most current ANSI Z245.2 standard.

Concrete Pad

1. Preferred dimensions of the concrete pad are 10'0" wide and a length of 5'0" greater than the length of the compactor/ container. It should be level and of minimum 3000 PSI concrete steel reinforced, 6" thick. It is preferred that the concrete pad be flush with the surrounding ground level.

NOTICE

Units with four ground rollers must be installed on a level pad.

2. To provide accessibility, concrete pad should be positioned to allow 28" between machine and building wall if installed parallel with building. Allow a minimum of 45' of clear space from end of pad for container handling vehicle.

NOTICE

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

Container Guides

If container guides (optional) are used with the self-contained units, the guides should be anchored to the concrete pad with 3/4" X 6" (minimum) anchor bolts. These bolts should be concrete anchors or expansion type anchor bolts. To allow for construction variations, it is best if these holes are drilled in the concrete after pre-locating the container guides in their desired location. Drill holes and place anchor bolts in each location provided on the guides. When the guides have been placed in position, and the anchor bolts have set, tighten all nuts securely.

RamJet Self-Contained Compactor Container

Installation

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STEEL INSTALLATION PROCEDURES

Dock Installation

If the appropriate accessories are ordered from Marathon Equipment Co., the compactor/ container will be furnished with either a four-sided hopper or a three-sided hopper with a hinged gate. THESE ACCESSORIES SHOULD NOT BE ALTERED AS THEY ARE MANUFACTURED IN ACCORDANCE WITH THOSE STANDARDS WHICH PREVAIL AT THE TIME OF MANUFACTURE.

If the compactor/container cannot be directly abutted to the dock or if there is any difference in height between the dock and the compactor/container, an appropriately sturdy transition section should be provided by the customer and securely affixed to the dock. Along with the transition section, a compactor/container guidance/stop mechanism should be installed to assure that the unit does not bottom out against the transition section or dock during dock placement (See ANSI Z245.2 Safety Standards). Optional container guides with stops are available from Marathon and are recommended for proper dock placement of the compactor/ container.

Chute-Fed Installation

Compactors installed in this arrangement are normally fed "through-the-wall". The lower edge of the access hole in the wall should be a MINIMUM of 42" (and, if possible, not more than 58") from the inside floor level. A security door (in accordance with local code) should be installed in the wall opening. In the absence of a local code, this door should be constructed of 3/16" thick steel or of steel hollow core design and be lockable from the inside of the building.

Decals

Be certain that the appropriate decals are in their proper locations at all times on the machine. For decal locations, see Decals^[86] and Decals Placement^[84] in the "Replacement Parts" section of this manual.

NOTICE

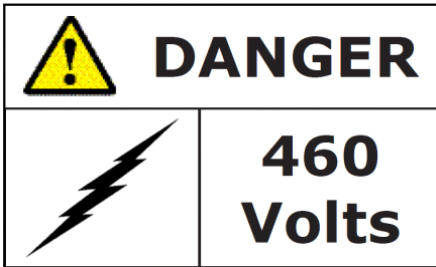
Installation is not complete until all decals are in place.

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ELECTRICAL AND HYDRAULIC INSTALLATION



The motor control panel contains high voltage components. Only authorized service personnel should be allowed inside. See **Lock-Out & Tag-Out Instructions** ^[7] in the Service section.



A lockable fused disconnect switch (customer furnished) must be installed and be within sight of the compactor motor control panel location, not to exceed 50'0" from the compactor. This fused disconnect switch should be sized in accordance with the compactor (See **Fuses and Circuit Breakers** chart).

DANGER

All equipment must be grounded per National Electric Code.

Grounding Instructions: This appliance must be connected to a grounded, metal, permanent wiring system; or an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the compactor.

If there is any doubt whether the appliance is properly grounded, a qualified electrician should be consulted.

Remote Power Pack Installation

1. The remote power pack should be installed and anchored as required by the customer. If the operator station is mounted in the face of the motor control panel, be certain these controls are located as to be in a convenient, but not hazardous, location to the customer.

CAUTION

Operator Station must be located so that the Emergency Stop Button is readily accessible to the operator and within three (3) feet of the charging chamber access door. If installation requires the operator station to be located in a more remote area, a second Emergency Stop Button should be added and installed in the manner described above.

2. For a through-the-wall power pack installation, see the diagram **Through-The-Wall Power Unit Installation** ^[23] in this section. Special care should be taken to protect the hoses from abrasive objects.

Connect the hydraulic hoses to the power pack, exercising care to follow the port decals (A or B) on the packer and the power pack. In the event the decals have been obliterated, the hose leading from the rear of the cylinder should be installed in the side port of the block to which solenoid valve is bolted (A Port). The hose leading from rod end of the cylinder should be connected to the end of the block to which the solenoid valve is bolted (B Port). Refer to **Power Unit** ^[76] diagrams in the Service section of this manual.

ELECTRICAL AND HYDRAULIC INSTALLATION (CONTINUED)

Pushbutton Control Panel

If a remote operator station is furnished, it will be factory wired using Sealtite. If it is necessary to disconnect it from the wires (to install the operator station inside a building), exercise care that these wires are reconnected as originally furnished. (Check local codes to be certain that sealtite is acceptable.)

CAUTION

Operator Station must be located so that the Emergency Stop Button is readily accessible to the operator and within three (3) feet of the charging chamber access door. If installation requires this operator station to be located in a more remote area, a second Emergency Stop Button should be added and installed in the manner described above.

Electrical Connections

Run power lines, between fused disconnect switch (customer furnished) and compactor's motor control panel, in accordance with local electrical codes, using knock-outs in bottom of motor control panel. See **Fuses and Circuit Breakers** chart and **Wire Size** chart, in the Service section, to determine the proper service disconnect amperage rating and the proper wire size.

NOTICE

High legs should be installed to L3 on motor starter.

Check voltage at fused disconnect switch to be certain it is the same as is shown on compactor or remote power pack. If voltage is correct, put fused disconnect switch in "ON" position.

Start-Up Instructions

NOTICE

Make sure that the operators are trained in the proper use of this equipment prior to operation.

1. With the ram fully retracted, check to be sure the oil reservoir is full to the 3/4 level on the sight gauge (Refer to the maintenance chart for hydraulic oil recommendations). The hydraulic system pressure has been factory set and the entire unit has been operated prior to shipment.

CAUTION

Make sure persons and material are clear of charge box area.

2. Depress the start button and check the pump shaft for proper rotation.

CAUTION

If the pump rotates backward, stop immediately. 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.

3. Make sure that the operators are trained in the proper use of this equipment

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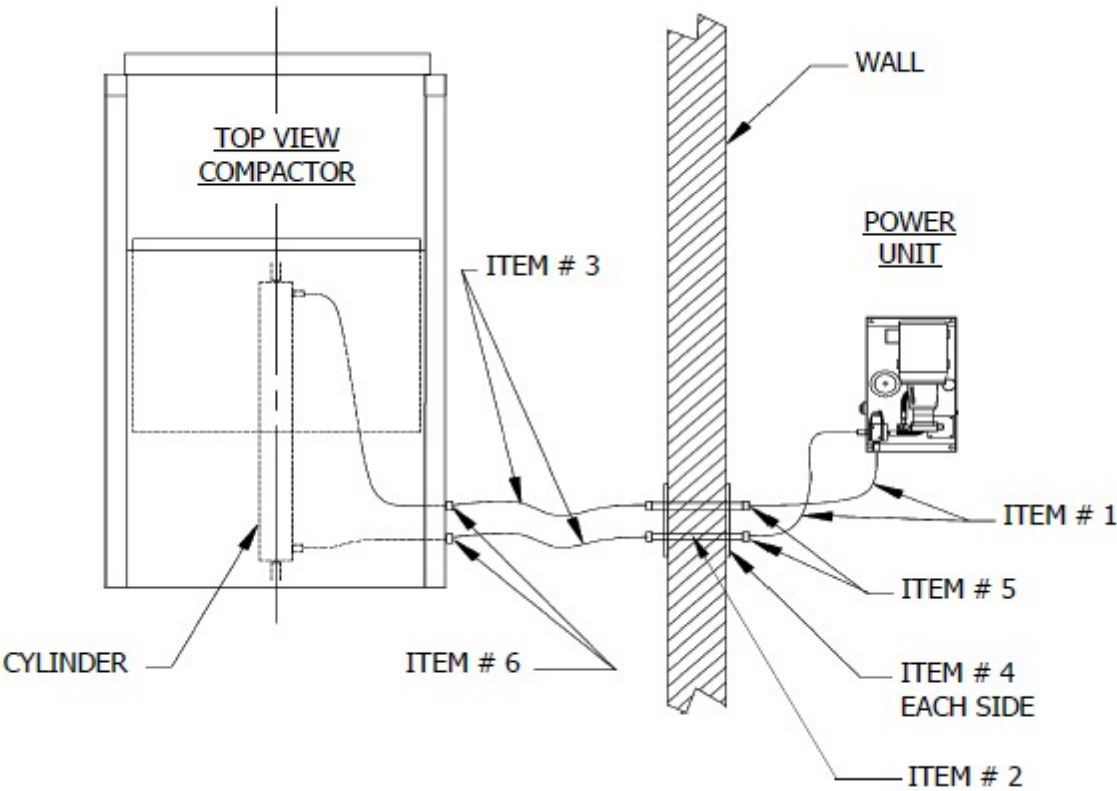
Installation

THROUGH-THE-WALL POWER UNIT INSTALLATION

If the remote power unit is to be mounted through-the-wall, the following list of material and diagram is the suggested method.

LIST OF MATERIAL		
ITEM #	QTY	DESCRIPTION
1	2	Hydraulic Hose, Hi-Pressure (sized to power unit*), 36" long
2	2	Pipe, Schedule 80 (sized to power unit*), 36" long
3	2	Hydraulic Hose, Hi-Pressure (sized to power unit*), 48" long
4	2	Steel plate with holes for Item # 2, 3/16" x 8" x 12"
5	4	Coupling, Female (sized to fit hose & pipe*)
6	3	Quick disconnect

* 1/2" for hose lengths of 20'-0" or less. Consult factory for longer lengths.



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SECTION 3

OPERATION

CONTACT INFORMATION



Technical Service and Warranty:

877-258-1105

Parts:

800-528-5308

For parts visit our eCommerce Marketplace at www.mecomerchant.com.

If you do not have a user name and password, contact our Parts Department and they will assist with your registration.

Normal Business Hours:

Monday-Friday 8:00am - 5:00pm

(Central Standard Time)

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PRE-OPERATION INSTRUCTIONS

Employers should allow only authorized and thoroughly trained personnel to operate this compactor.

This compactor is equipped with a key operated locking system. Keys should be in possession of only authorized personnel. Turn off and remove the key after use.

DANGER

ONLY TRAINED AND AUTHORIZED PERSONNEL SHOULD BE ALLOWED INSIDE PANEL BOX. The panel box contains high voltage components. See **Lock-Out/Tag-Out Instructions** .


WARNING

Do not operate compactor until operating instructions are thoroughly understood. Wear safety glasses and gloves when operating this equipment.


WARNING

Stay clear of all internal compactor parts and all moving external compactor parts when in operation. Failure to do so could result in serious personal injury or death!

WARNING

Never enter any part of compactor unless the disconnect switch has been turned off, padlocked, and all stored energy sources have been removed. See **Lock-Out/Tag-Out Instructions** .

WARNING

Do not remove access covers except for servicing. Only trained and authorized service personnel should be allowed to service this equipment. All access doors on the compactor body should always be secured in place when the unit is operating. See **Lock-Out/Tag-Out Instructions** .

WARNING

Before starting compactor, be sure no one is inside. Be certain that everyone is clear of all operation points and pinch point areas before starting.

WARNING

If the compactor is equipped with a security gate or doghouse with security door, be sure that the security gate or door is closed before the compactor is started.

NOTICE

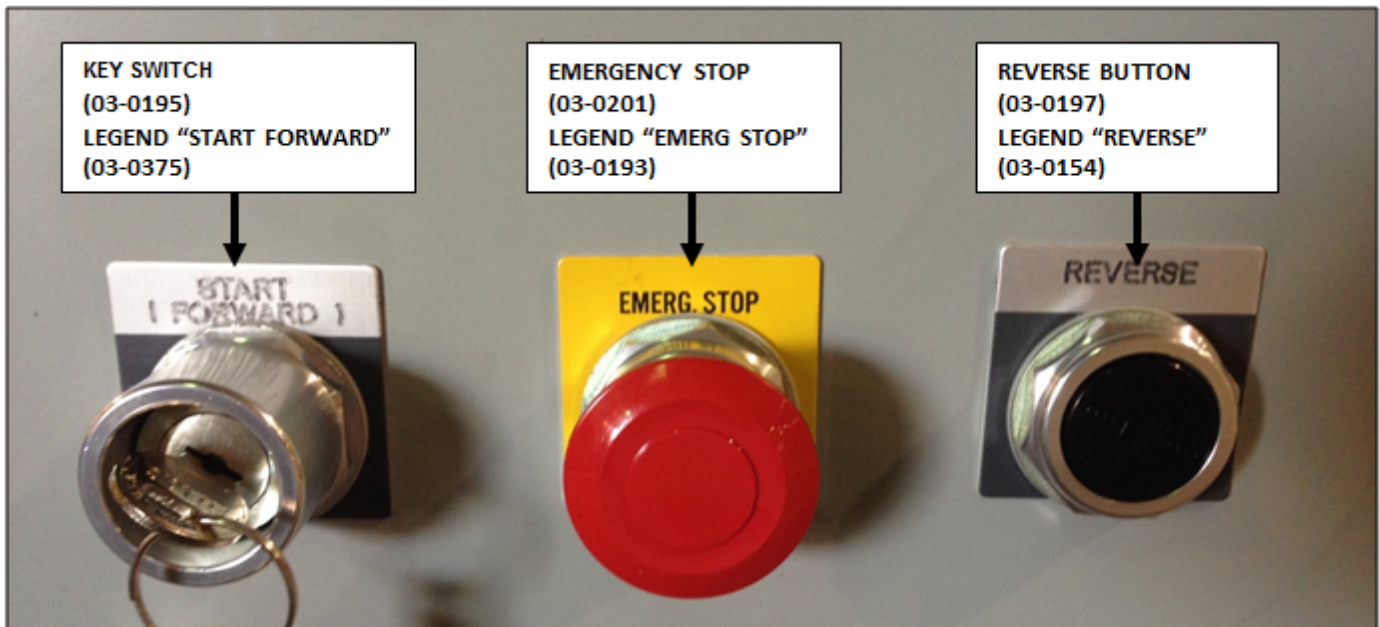
Federal regulation prohibits the use of this equipment by anyone under 18 years of age.

RamJet Self-Contained Compactor Container

Operation

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STANDARD CONTROL PANEL



CONTROL DESCRIPTION

1. **KEYED START SWITCH** - This switch requires a key for operation. Insert the key and turn clockwise to the START position. Depress the key for one to two seconds and release. The compactor will cycle one time (complete extension and retraction of the ram) then stop. After use, turn the key to the counterclockwise position and remove the key.
2. **EMERGENCY STOP PUSHBUTTON** - When depressed, this pushbutton will stop all powered operation of the compactor.
3. **REVERSE PUSHBUTTON** - This pushbutton will reverse the compaction ram when depressed. The motor must be running for the REVERSE button to operate. See the **Manual Override Instructions** ²⁹ for details of the operation.

RamJet Self-Contained Compactor Container

Operation

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Operating Instructions - Standard Models 7500-

1. First, place the material to be discarded into the compactor.
2. Insert the key into the key switch. Turn it clockwise and depress for 1 to 2 seconds and release. The unit will cycle the preset number of times determined by the Multi-Cycle Counter*, then stop.
3. Repeat, if necessary, after the compactor has stopped.
4. When you have finished using the compactor, remove the key from the key switch.

*For more information on the Multi-Cycle Counter see **PLC Maintenance**.

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

Manual Override Instructions (Ram Stop Rear Only)

If the ram is stopped in any position:

- To move the ram forward, turn the key switch clockwise and depress.
- To move the ram rearward, hold the reverse button down, turn and depress the key switch, release the key switch, then release the reverse button.

While the ram is moving:

- To reverse the ram while it is moving forward, press the reverse button.
- To cause the ram to move forward while it is moving rearward, depress the key switch.

NOTICE

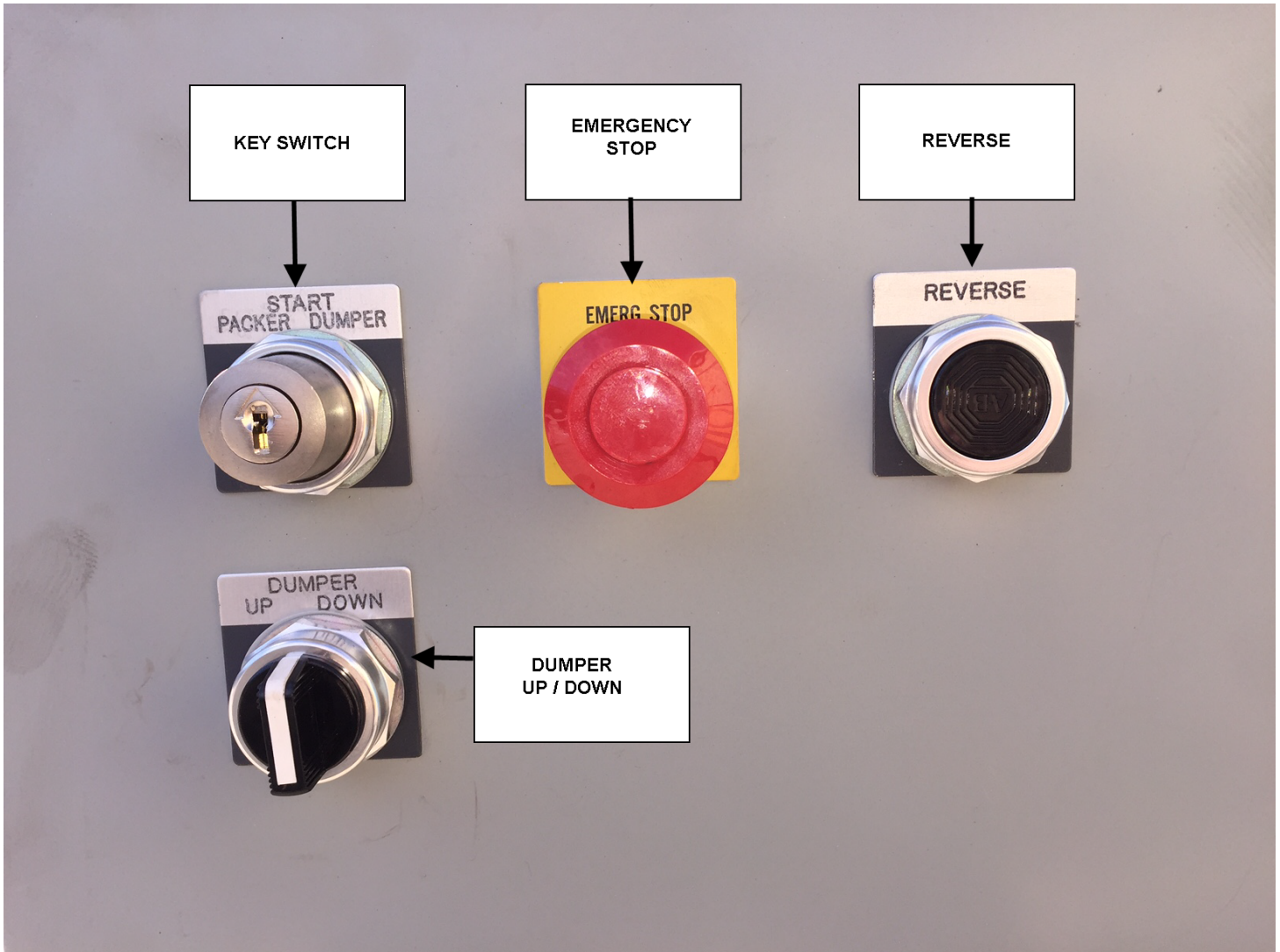
Refer to Optional Controls for Manual Override on Ram Stop Forward Machines.

RamJet Self-Contained Compactor Container

Operation

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CONTROL PANEL WITH INTEGRAL DUMPER



CONTROL DESCRIPTION WITH INTEGRAL DUMPER

1. **KEYED START SWITCH** - This switch requires a key for operation. Insert the key and turn left to START compactor. Turn and hold the key for one to two seconds and release. The compactor will cycle the preset number of times determined by the Multi-Cycle Counter*, then stop. Turn the key to the right to start dumper. Remove key in center.
2. **EMERGENCY STOP PUSHBUTTON** - When depressed, this pushbutton will stop all powered operation of the compactor.
3. **REVERSE PUSHBUTTON** - This pushbutton will reverse the compaction ram when depressed. The motor must be running for the REVERSE button to operate. See the **Manual Override Instructions** ²⁹ for details of the operation.
4. **DUMPER UP/DOWN** - This manually controls the direction of the dumper.

*For more information on the Multi-Cycle Counter see PLC Maintenance page ⁶⁴.

OPERATING INSTRUCTIONS - STANDARD MODELS WITH INTEGRAL DUMPER

1. First, place the material to be discarded into the compactor.

NOTICE

If you are loading the compactor through a door or gate, close it before starting the compactor. Refer to "Optional Loading Configurations" on page 13 to determine how your compactor is configured.

2. Insert the key into the key switch. Turn to left for 1 to 2 seconds and release. The unit will cycle the preset number of times determined by the Multi-Cycle Counter*, then stop.
3. Repeat, if necessary, after the compactor has stopped.
4. When you have finished using the compactor, remove the key from the key switch.
5. Insert the key into the keyswitch and turn right to start dumper.
6. Turn the UP/DOWN switch to the UP position and hold to raise and empty the dumper/cart.
7. When the cart is empty, turn the UP/DOWN switch to the DOWN position and hold to lower the dumper/cart.
8. After use, depress the STOP button and remove the key. The key should always be in the possession of authorized personnel.

*For more information on the Multi-Cycle Counter see **PLC Maintenance** .

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

Manual Override Instructions (Ram Stop Rear Only)

If the ram is stopped in any position:

- To move the ram forward, turn the key switch to the left.
- To move the ram rearward, hold the reverse button down, turn the key switch to the left, release the key switch, then release the reverse button.

While the ram is moving:

- To reverse the ram while it is moving forward, press the reverse button.
- To cause the ram to move forward while it is moving rearward, turn the key switch to the left.

NOTICE

Refer to Optional Controls for Manual Override on Ram Stop Forward Machines.

NOTICE

Refer to Optional Controls for Manual Override on Ram Stop Forward Machines.

INTEGRAL DUMPER SYSTEM OPERATING CHARACTERISTICS

When the key is inserted into the key switch, turn right, a contact is made that energizes the motor starter, starting the electric motor which rotates the hydraulic pump. At the same time, the UP/DOWN switch is energized. This switch is spring-centered and is connected to the solenoid on each end of the control valve. Also, when the UP/DOWN switch is energized, T1 timer begins counting for 5 minutes. If the dumper sits idle for 5 minutes, the timer will time out and T1 timer contact will open which will shut down the power unit.

When the UP/DOWN switch is turned to the UP position and held, the valve solenoid shifts the valve spool so that the hydraulic oil is directed to extend the cylinders which raises the dumper forks (or box). When the UP/DOWN switch is turned to the DOWN position and held, the valve solenoid shifts the valve spool so that the hydraulic oil is directed to

RamJet Self-Contained Compactor Container

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retract the cylinders which lowers the dumper forks (or box).

The EMERGENCY STOP button will shut the dumper down when depressed by breaking the circuit to the motor starter.

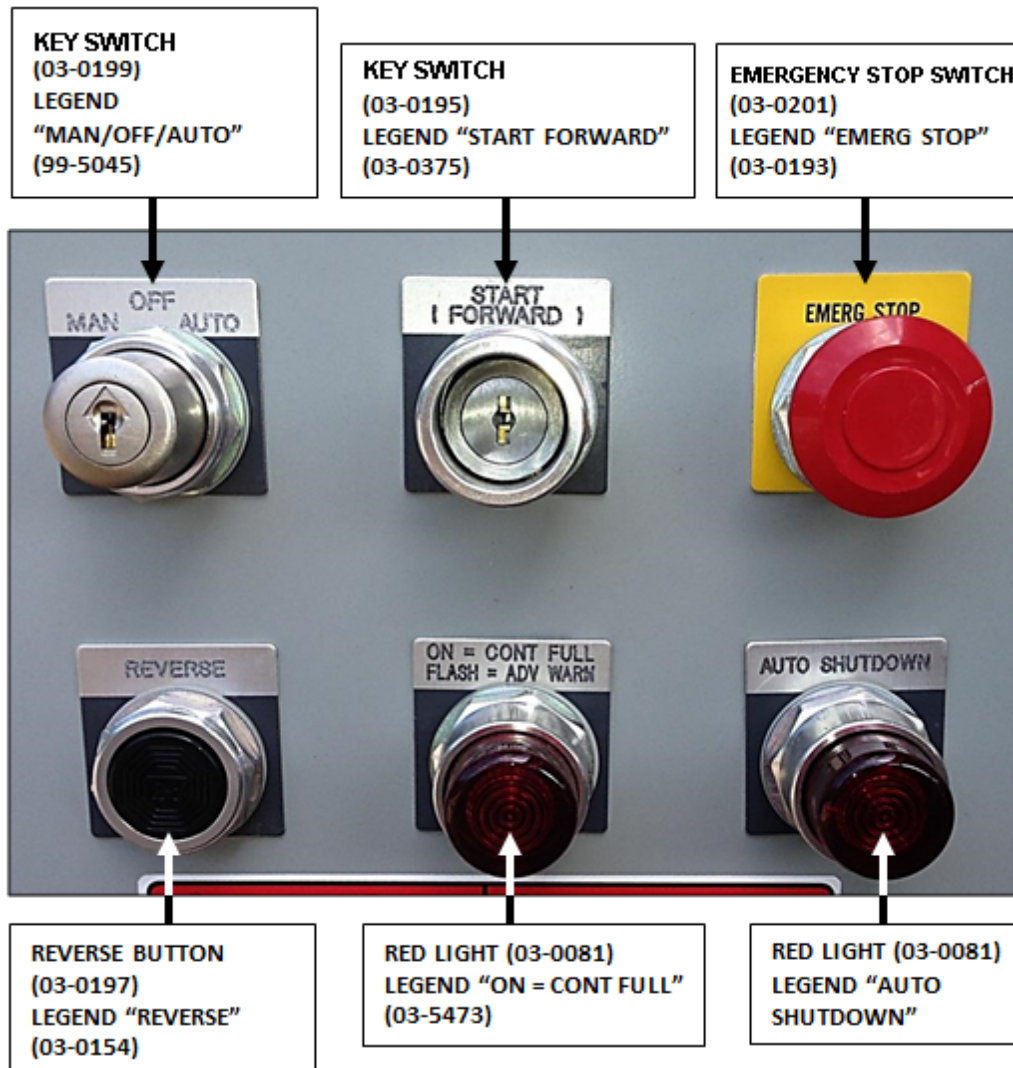
Always remove the key from the key switch when the dumper is not in use.

RamJet Self-Contained Compactor Container

Operation

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CONTROL PANEL - MODELS WITH PHOTOELECTRIC CYCLE CONTROL



CONTROL DESCRIPTION

1. MANUAL-OFF / AUTOMATIC SHUTDOWN - This switch controls the compactor operation mode, manual or automatic (automatic is photocell mode).
2. KEYED START SWITCH - This switch requires a key for operation. Insert the key and turn clockwise to the START position. Depress the key for one to two seconds and release. The compactor will cycle the preset number of times determined by the Multi-Cycle Counter, then stop. After use, turn the key to the counterclockwise position and remove the key.
3. EMERGENCY STOP PUSHBUTTON - When depressed, this pushbutton will stop all powered operation of the compactor.
4. REVERSE PUSHBUTTON - This pushbutton will reverse the compaction ram when depressed. The motor must be running for the REVERSE button to operate. See the **Manual Override Instructions** ²⁹ for details of the operation.

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CONTROL DESCRIPTION (CONTINUED)

5. ADVANCE WARNING / CONTAINER FULL LIGHT - When the light starts flashing (ADVANCE WARNING), then 200 PSI is left before the pressure switch is activated to shut the unit off and container is full (unit will run when light flashes). When the light stays on continuously (CONTAINER FULL), the container is full and is ready to be emptied before its next use. To deactivate the light, depress the illuminated light (the unit will not run while the light is continuously on).
6. AUTOMATIC SHUTDOWN LIGHT - Used with the photoelectric cycle control. If a blockage in the charge chamber causes the compactor to continue cycling, the timer will shut the compactor down after the preset time has passed. To deactivate the timer, the illuminated pushbutton is pressed after clearing the blockage.

*For more information on the Multi-Cycle Counter, see **PLC Maintenance** ⁶⁴.

RamJet Self-Contained Compactor Container

Operation

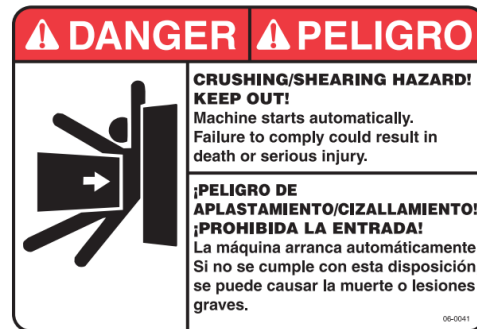
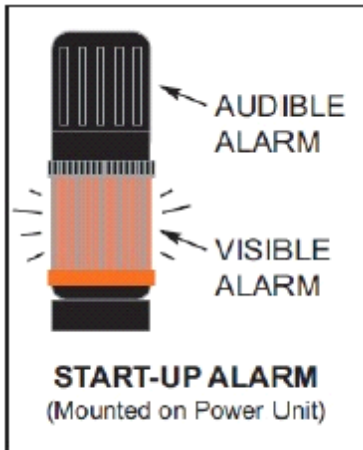
35

OPERATING INSTRUCTIONS - MODELS WITH PHOTOELECTRIC CYCLE CONTROL

NOTICE

This compactor features an ANSI Z245.21 (2013) SECTION 5.12.1 compliant start-up alarm that is both audible and visible during the activation of the AUTOMATIC mode.

Operating Instructions (Automatic Mode)



1. Place the material to be discarded into the compactor.

NOTICE

If you are loading the compactor through a door or gate, close it before starting the compactor.

2. Insert the first key into the "MANUAL - OFF - AUTOMATIC" key switch and turn to the "AUTOMATIC" position.
3. Insert the second key into the "START" switch and turn to the right.
4. Depress the key in the "START" switch and hold it continuously for 20 seconds.
 - Both the audible and visual start-up alarms will energize for 5 seconds.
 - After 5 seconds the audible alarm will stop, but the visual alarm will continue for an additional 15 seconds (for a total of 20 seconds).
 - After 20 seconds, the motor will start and the ram will extend, then retract (one complete cycle).
 - The light will continue to flash until the unit is manually turned off, automatically shuts down, or is switched to manual mode.



WARNING

In AUTOMATIC mode, the power unit will restart the ram automatically anytime the photocell detects ANY OBJECT in the charge box.

RamJet Self-Contained Compactor Container

Operation

OPTIONAL CONTROLS

1. **SUSTAINED MANUAL PRESSURE CONTROL BUTTON** (Hold-To-Run, Release-To-Stop) This option requires the compactor operator to remain at the push button station while the compactor is in use. Actuation requires depressing the "Hold-To-Run" and "Start" buttons. After the unit has started, the "Start" button is released. If the "Hold-To-Run" button is released, the unit will stop instantly.
2. **ADVANCE WARNING / CONTAINER FULL LIGHT** - When the light starts flashing (ADVANCE WARNING), then 200 PSI is left before the pressure switch is activated to shut the unit off and container is full (unit will run when light flashes). When the light stays on continuously (CONTAINER FULL), the container is full and is ready to be emptied before its next use. To deactivate the light, depress the illuminated light (The unit will not run while the light is continuously on).
3. **RAM STOP FORWARD** - When a machine with this option has been stopped, the ram automatically begins to move rearward when restarted. To move the ram forward (when it is stopped), hold the FORWARD button down, turn the key switch clockwise, depress and release the key switch, then release the FORWARD button. To reverse the ram while it is moving forward, depress the key switch. To cause the ram to move forward while it is moving rearward, press the FORWARD button.
4. **ACCESS INTERLOCK** - This is optional with units equipped with doors, security doors, or access gates. It prevents the unit from operating while a door or gate is open.
5. **PHOTOELECTRIC CYCLE CONTROL** - (Photocell) - Consists of a LED light source and a reflector. It can be mounted on a hopper or chute. Two holes, located so as to avoid any hazard, are located in opposite walls of the chute. When the light beam is blocked for 5 seconds, the audible alarm will sound for 5 more seconds, then the compactor is activated and will continue to run until the obstruction has been cleared or the watchdog timer times out.
6. **AUTOMATIC SHUTDOWN** - Used with the photoelectric cycle control. If a blockage in the charge chamber causes the compactor to continue cycling, the timer will shut the compactor down after the preset time has passed. To deactivate the timer, the illuminated auto shutdown pushbutton is pressed after clearing the blockage.
7. **THERMOSTATICALLY CONTROLLED OIL HEATER** - This option is installed in the oil reservoir. The thermostat is adjustable so the heater will heat the oil when the oil temperature goes below a specified level. It is recommended to set the thermostat between 70° F - 100° F.
8. **START ON DOOR CLOSURE** - When switch is in auto the PLC counts door closures. The machine will start on predetermined count that is within the PLC.

SECTION 4

HAULER INFORMATION

RamJet Self-Contained Compactor Container

Hauler Information

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HAULER INSTRUCTIONS – GENERAL

Before hauling to the dump site:

1. Disconnect all hoses and electrical connections (if applicable) between the power unit and the compactor. Make sure they are placed in an area where they will not get damaged.
2. Close and secure any hopper doors or gates.
3. Make sure that the container tailgate safety chain is secured in the keyhole on the latch side of the container floor. See **Securing Tailgate into Chain Keeper**^[39].
4. If the unit is a Streamline® model (SL), disconnect any drain hose(s) connected to the unit and plug all ports. See **Liquid Removal for Optional SL Units**^[47].
5. Make sure that the hoist lifting the unit is compatible with the understructure on the unit.
6. For units with integral dumpers, operate dumper to full dump position. See **Integral Dumper Operation**^[48].

NOTICE

Hold downs should be used to secure the front and rear of the of the container understructure to the hoist.

At the dump site:

See **Securing Tailgate into Chain Keeper**^[39], **Tailgate/Latch Operation**^[41] and **Hydraulic Tailgate Operation**^[44].

1. To prevent leakage, the tailgate seal and mating surface should be wiped clean and inspected after the unit has been emptied. When cleaning the seal on units with the hydraulic tailgate option, inspect for damage and replace if necessary.

WARNING

Never place any part of your body between the tailgate and the container. Use a mop or similar cleaning device with a long handle to clean the seal. Close inspection of the seal should be done only after the container has been lowered to a level position and the raised tailgate has been supported with a crane, forklift, or other positive maintenance prop.

2. Make sure all personnel are clear of the area around the compactor and the tailgate while being emptied.

After returning from the dump site:

1. After setting the unit down, reconnect all hoses and electrical connections (if applicable) to the compactor. Make sure they are not laying across sharp corners or any abrasive surface.
2. Close and secure any hopper doors or gates.
3. Make sure that the container tailgate safety chain is secured in the keyhole on the latch side of the container floor.
4. If the unit is a Streamline model (SL), connect a compatible drain hose(s) to the unit.

SECURING TAILGATE CHAIN INTO CHAIN KEEPER

1. Open tailgate fully and swing it around until it abuts the side of the container.



2. Insert chain into hole in chain keeper and pull chain through the keeper until tight.



RamJet Self-Contained Compactor Container

Hauler Information

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SECURING TAILGATE CHAIN INTO CHAIN KEEPER (CONTINUED)

3. Slide chain down into vertical chain keeper slot.



4. Turn chain and slide it into horizontal slot toward tailgate end of the container



5. Ensure chain link is fully secured into horizontal door slot toward tailgate.



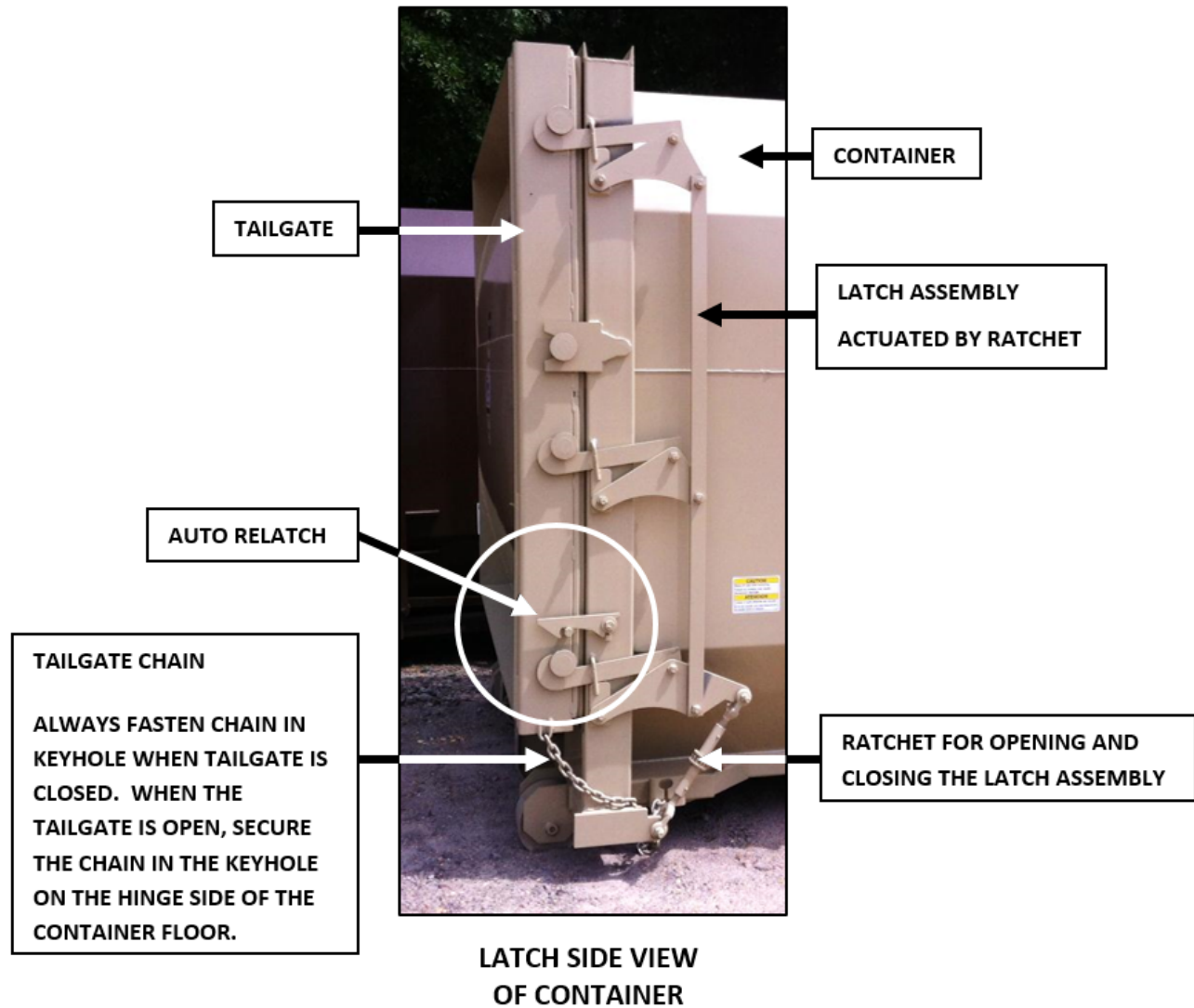
6. Ratchet latch side of container shown with chain engaged into chain keeper.

RamJet Self-Contained Compactor Container

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TAILGATE/LATCH OPERATION



RamJet Self-Contained Compactor Container

Hauler Information

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TAILGATE/LATCH OPERATION (CONTINUED)

RamJet Self-Contained Compactor Container

Hauler Information

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ROTATE THE AUTO RELATCH UP TO THE POSITION SHOWN AND OPEN THE LATCH AND TAILGATE.

AUTO RELATCH

IN POSITION TO OPEN TAILGATE



WHEN CLOSING THE TAILGATE, ROTATE THE AUTO RELATCH DOWN TO THE POSITION SHOWN AND PUSH THE TAILGATE SHUT UNTIL THE AUTO RELATCH GRABS THE PIN ON THE TAILGATE. AFTER THE TAILGATE IS SECURED BY THE AUTO RELATCH, THE LATCH ASSEMBLY IS CLOSED USING THE RATCHET. CONNECT THE TAILGATE CHAIN ON THE TAILGATE TO THE KEYHOLE ON THE SIDE OF THE CONTAINER FLOOR.

AUTO RELATCH

IN POSITION TO GRAB AND HOLD TAILGATE DURING TAILGATE CLOSING

RamJet Self-Contained Compactor Container

Hauler Information

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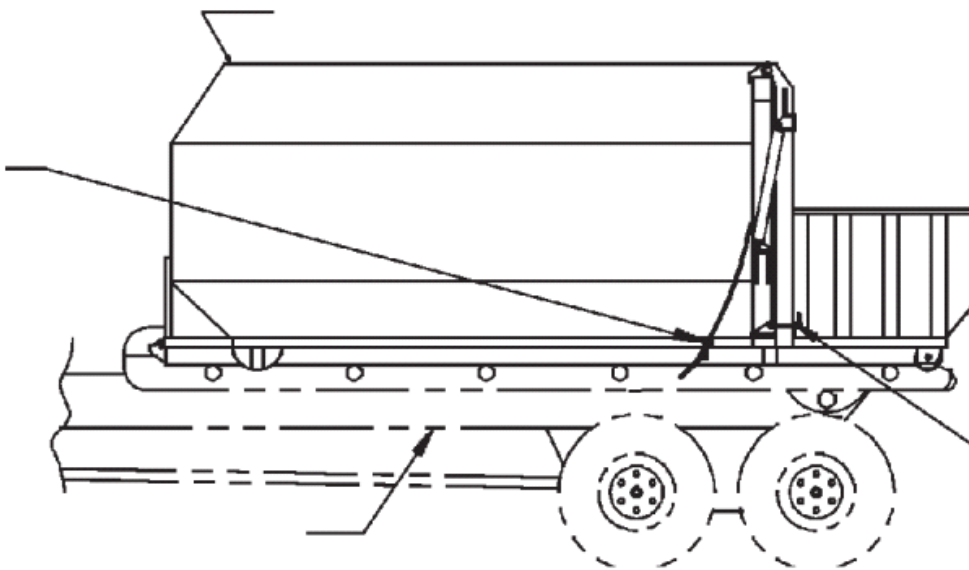
HYDRAULIC TAILGATE OPERATION FOR OPTIONAL HT UNITS

The truck hoist must have a hydraulic selector valve with 1500 psi, min. to operate the hydraulic tailgate. The hydraulic tailgate is supplied with one 1/2" NPTF male quick disconnect mounted on the drivers side of the unit. A 1/2" female quick disconnect is supplied for use on the truck hoist valve plumbing.

CAUTION

- Stand clear of tailgate when lifted.
- Truck must be on firm, level surface before lifting tailgate.
- Front and rear holddowns must be engaged.
- Tilt hoist before lifting tailgate.

1. Attach hydraulic connection.
2. Disengage latch (each side).



LATCH

3. Raise hoist.

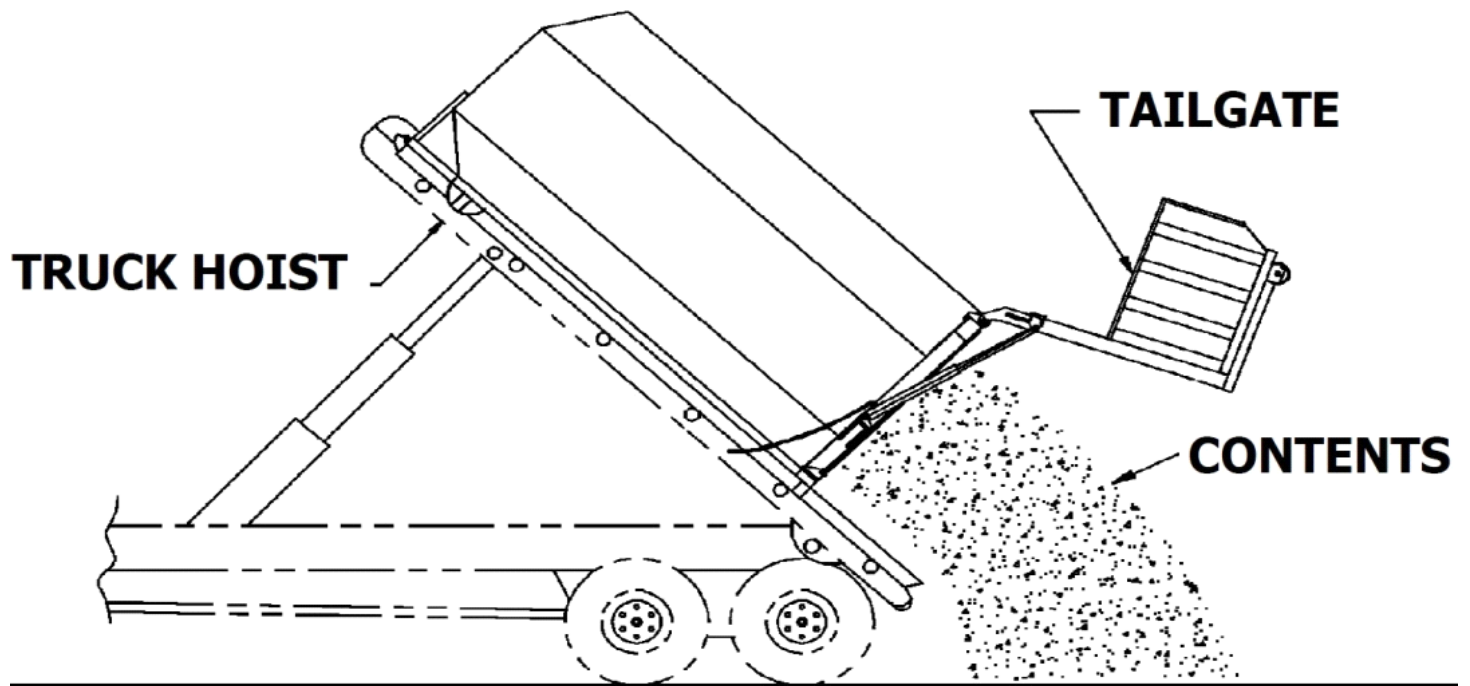



RamJet Self-Contained Compactor Container

Hauler Information

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HYDRAULIC TAILGATE OPERATION FOR OPTIONAL HT UNITS (CONTINUED)



1. Lift tailgate.
2. Empty contents.
3. Clean seal as described in the "**Hauler Instructions - General**". 
4. Lower tailgate as low as possible.
5. Lower hoist.
6. Lower tailgate completely.
7. Engage and tighten latches.
8. Remove hydraulic connection.

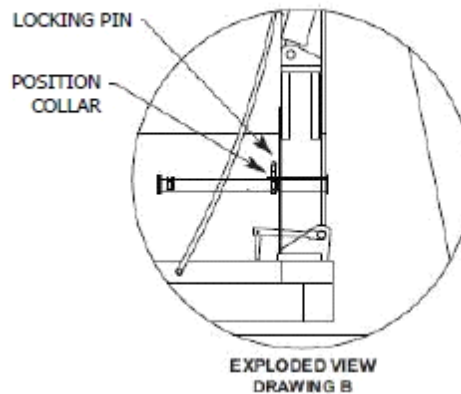
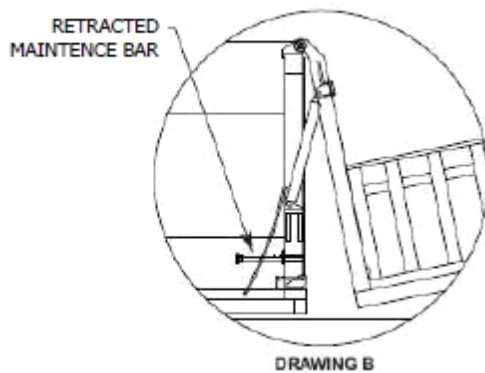
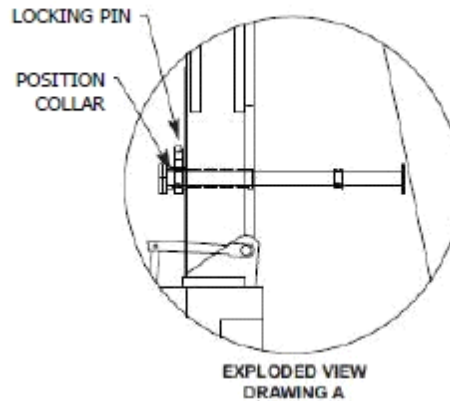
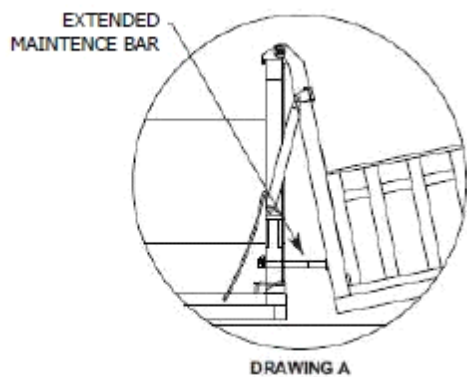
HYDRAULIC TAILGATE OPERATION FOR OPTIONAL HT UNITS (CONTINUED)

WARNING

Never place any part of your body between the tailgate and container.

Instructions for using maintenance bar

1. Lower tailgate approximately 24" between container bottom and compactor tailgate.
2. Remove locking pin from maintenance bar and slide bar toward compactor.
3. Align holes in the position collar and bar and insert pin.
4. Use a mop or similar cleaning device with a long handle to clean the seal.
5. Raise tailgate to relieve pressure on maintenance bar, remove pin, return bar to retracted position and insert pin through collar and bar.



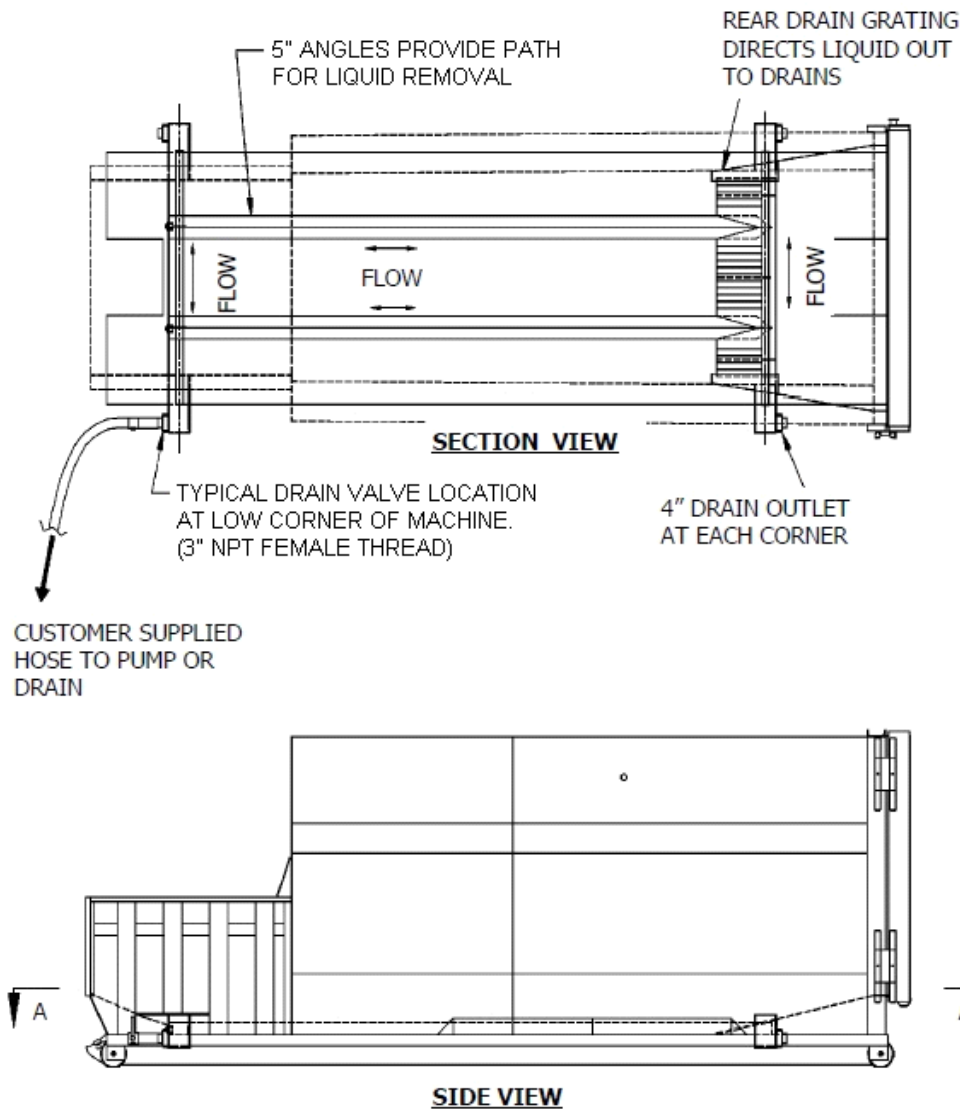
RamJet Self-Contained Compactor Container

Hauler Information

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LIQUID REMOVAL FOR OPTIONAL SL UNITS

The RamJet Self-Contained Streamline® compactor/containers are designed with an internal drain system for liquid removal, ported to each corner of the machine. The unit comes standard with one ball valve. This valve can be moved to any of the four drain outlets on the machine. The valve should be located at the lowest outlet on the machine for proper drainage. The customer can attach a drain hose with a 3" NPT male fitting to the drain valve.



RamJet Self-Contained Compactor Container

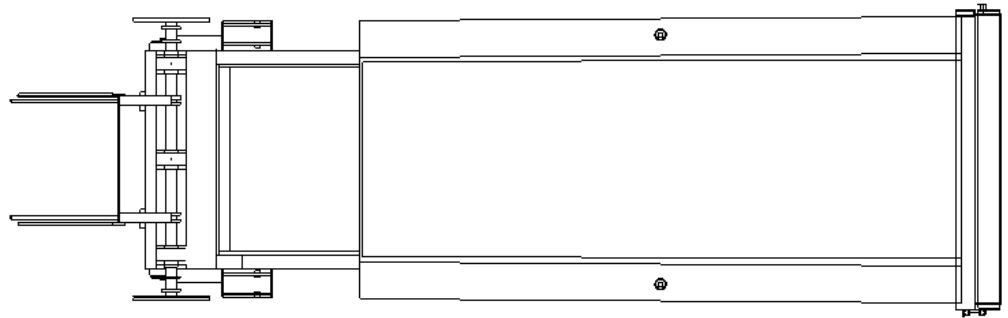
Hauler Information

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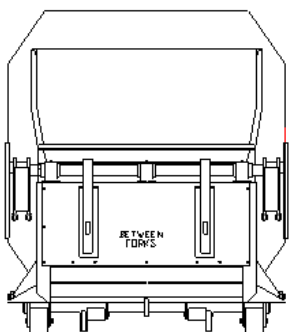
Typical Drain Location

INTEGRAL DUMPER OPERATION

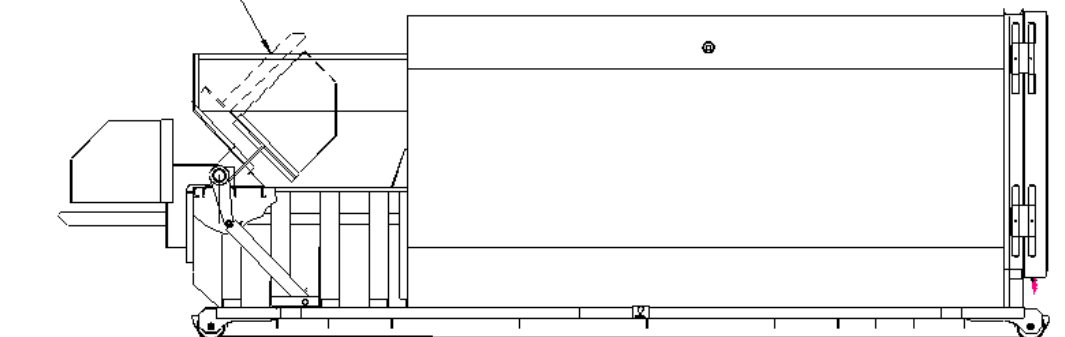


TOP VIEW
HOPPER NOT SHOWN
THIS VIEW

POSITION OF DUMPER
FOR UNIT TO BE HAULED



REAR VIEW



SIDE VIEW

SECTION 5

SERVICE

CONTACT INFORMATION



Technical Service and Warranty:

877-258-1105

Parts:

800-528-5308

For parts visit our eCommerce Marketplace at www.mecomerchant.com.

If you do not have a user name and password, contact our Parts Department and they will assist with your registration.

Normal Business Hours:

Monday-Friday 8:00am - 5:00pm

(Central Standard Time)

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.

The specific Lock-Out and 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. Lockout 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 and 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 and Tag-Out is effective. If the Lock-Out and 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.

LOCK-OUT & TAG-OUT INSTRUCTIONS (CONTINUED)

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 lockout devices and re-energize the compactor.

NOTICE

The removal of some forms of blocking may require re-energizing of the compactor before safe removal.

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.

PERIODIC MAINTENANCE

WARNING

Ram speed accelerates as the ram retracts. Never enter any part of the self-contained compactor/container until the unit has been locked-out and tagged-out.

Monthly

- Check external hoses for chafing, rubbing, or other deterioration and damage.
- Check for any unsafe conditions in the compactor area.
- Check oil level in hydraulic reservoir. Level should be 3/4 of sight gauge (ram fully retracted).
- Clean out or wash out debris from behind compactor ram.
- Lubricate the ram guidance tracks using the grease fittings on the compactor side (For guided ram machines only), and check guide shoes for wear.
- Lubricate the pivot rod bearing blocks using the grease fittings on each block.

Three Months

- Check functional operation of controls and options (stop button, timers, lights, etc.).
- Check hydraulic cylinder, internal hoses, and connections for leakage; check hoses for chafing and wear.
- Lubricate the container door and tailgate hinges.

Annually

- Lubricate electric motor bearings annually per the manufacturer's instructions.
- 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.

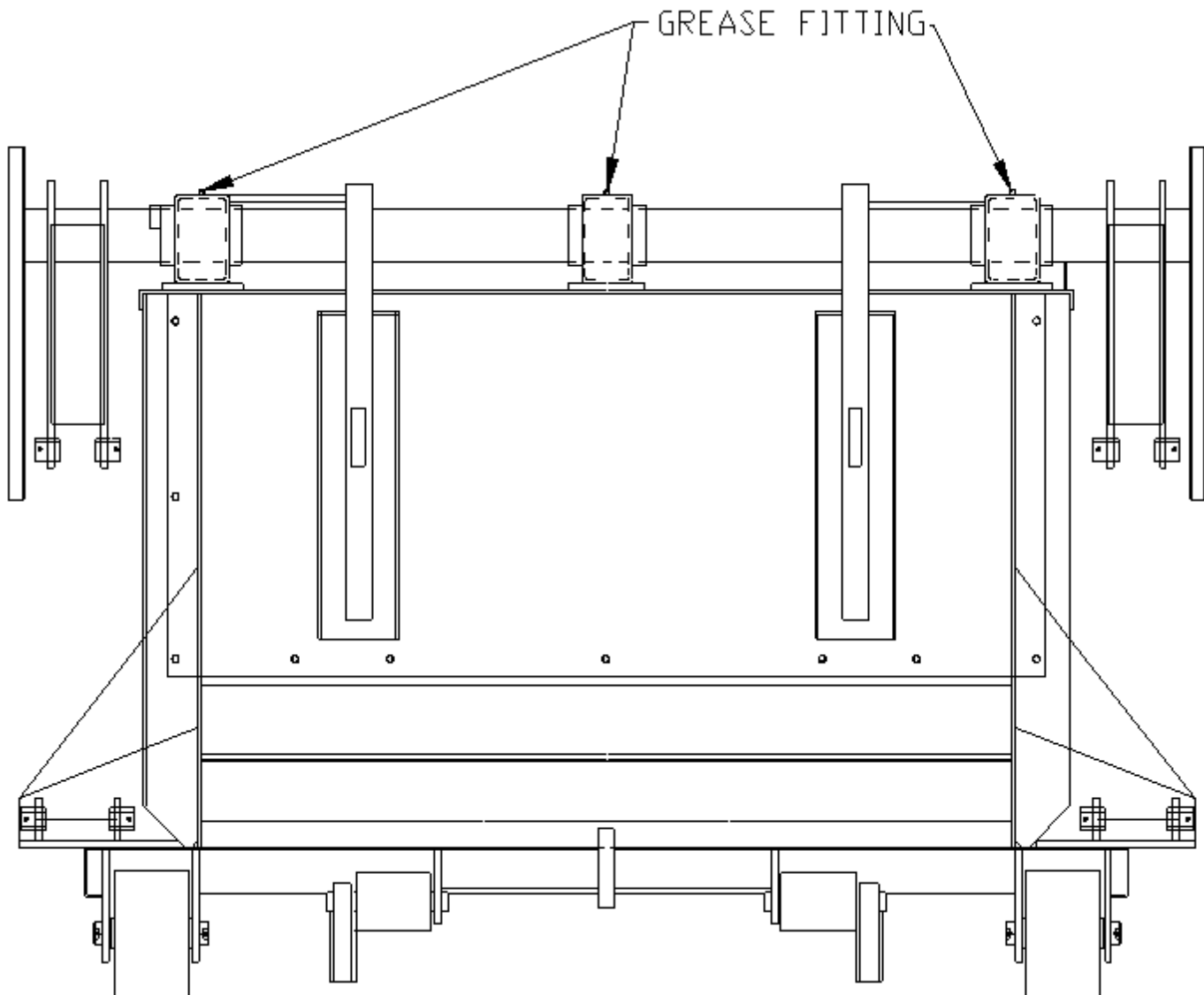
Filter Maintenance

- The hydraulic filter should be cleaned at regular yearly intervals.
- The filter may be removed from the unit by disconnecting the union on the suction side of the pump, removing the four bolts retaining the cover plate, and lifting the filter from the reservoir.
- Care should be exercised in cleaning the filter to ensure that the element is not torn. Clean the element with a soft brush and standard industrial solvent.
- Replace the filter after cleaning and tighten the union securely. Pump noise and a "crackle" sound is most often caused by air entering the pump suction line. Tightening the suction fittings will usually eliminate the problem.

PERIODIC MAINTENANCE (CONTINUED)

Monthly (RJ-250WD)

Lubricate the pivot rod bearing blocks using the grease fittings on each block.



RamJet Self-Contained Compactor Container

Service

MAINTENANCE SCHEDULE FORM

Make copies of below table to record your maintenance on equipment.

MAINTENANCE SCHEDULE						
Monthly						
	CHECK UNSAFE CONDITIONS	CHECK HOSES	CHECK OIL LEVEL	CLEAN/WASH OUT DEBRIS	LUBRICATE RAM GUIDE TRACKS	CHECK GUIDES SHOES
Jan						
Feb						
Mar						
Apr						
May						
June						
July						
Aug						
Sept						
Oct						
Nov						
Dec						

MAINTENANCE SCHEDULE							
	Every 3 Months					Annually	
	CHECK FUNCTIONAL OPERATION OF CONTROLS	CHECK HYDRAULIC CYLINDER	CHECK INTERNAL HOSES	CHECK HYDRAULIC CONNECTIONS FOR LEAKS AND WEAR	LUBRICATE CONTAINER DOOR/ TAILGATE HINGES	LUBRICATE MOTOR BEARINGS	CLEAN HYDRAULIC FILTER
Jan							
Feb							
Mar							
Apr							
May							
June							
July							
Aug							
Sept							
Oct							
Nov							
Dec							

RamJet Self-Contained Compactor Container

Service

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PRESSURE SETTINGS

When the hydraulic cylinders used in the RamJet Self-Contained compactor are fully extended or retracted, they bypass internally. This prevents the hydraulic system from reaching relief pressure under normal conditions. Follow the recommendations below for proper pressure setting.

1. Disconnect and lock-out power per the **Compactor Lock-Out/Tag-Out Instructions**^[7].
2. Using the quick disconnects, disconnect the hydraulic hoses from the compactor.
3. Remove the 1/4" plug from the check valve and install a 0-3000 psi pressure gauge.
4. Loosen the lock nut on the relief valve and turn the adjustment screw several turns counterclockwise.
5. Remove the lock-out provisions and turn the disconnect to the ON position. Start the power unit using the **Operating Instructions**^[29].
6. With the hoses disconnected, the power unit will build pressure. Adjust the relief pressure up by turning the relief adjustment screw clockwise. Adjust the relief valve to the desired pressure setting and tighten the lock nut. See chart below.
7. Press the EMERGENCY STOP button to stop the power unit, and relieve the stored hydraulic energy as described by the **Compactor Lock-Out/Tag-Out Instructions**^[7].
8. Disconnect and lock-out power as described in Step 1.
9. Remove the pressure gauge and replace the 1/4" plug in the check valve.
10. Reconnect the hydraulic hoses, and remove the lock-out provisions.

Pressure Settings for Standard Units							
MODEL	HP	GPM	RELIEF VALVE SETTING	RESIVOIR CAPACITY	CYLINDER BORE	CYLINDER ROD	CYLINDER STROKE
RJ-88SC	5	6	1700	15	4	2 1/2	25
RJ-100SC	10	10	1850	20	5	2 1/2	42
RJ-250SC	10	10	1850	20	4	2 1/2	31 5/8
RJ-250SC Ultra	10	10	1850	20	4	2 1/2	31 5/8
RJ-SC ²	10	13	1650	20	4	2 1/2	47

Pressure Settings with Integral Dumper

When the hydraulic cylinders used in the RamJet Self-Contained compactor are fully extended or retracted, they bypass internally. This makes it impossible for the hydraulic system to reach relief pressure. Follow the recommendations below for proper pressure setting.

1. Disconnect and lock-out power per the procedure on the **Compactor Lock-Out/Tag-Out Instructions**^[7].
2. Using the quick disconnects, disconnect the hydraulic hoses from the compactor.
3. Remove the 1/4" plug from the check valve and install a 0-3000 psi pressure gauge.
4. Loosen the lock nut on the relief valve and turn the adjustment screw several turns counterclockwise.
5. Remove the lock-out provisions and turn the disconnect to the ON position. Start the power unit using the OPERATING INSTRUCTIONS^[29] on page..

RamJet Self-Contained Compactor Container

Service

PRESSURE SETTINGS (CONTINUED)

- 6. With the hoses disconnected, the power unit will build pressure. Adjust the relief pressure up by turning the relief adjustment screw clockwise. Adjust the relief valve to the desired pressure setting and tighten the lock nut. See chart below.
- 7. Press the EMERGENCY STOP button to stop the power unit, and relieve the stored hydraulic energy as described on page 16.
- 8. Disconnect and lock-out power as described in Step 1.
- 9. Remove the pressure gauge and replace the 1/4" plug in the check valve.
- 10. Reconnect the hydraulic hoses, and remove the lock-out provisions.

Pressure Settings for Units with Container Full Package (if equipped)									
MODEL	HP	GPM	ADVANCE D WARNING SETTING	CONTAINER FULL SETTING	RELIEF VALVE SETTING	RESERVOI R CAPACITY	CYLIND ER BORE	CYLIND ER ROD	CYLINDER STROKE
RJ-88SC	5	6	1500	1700	2000	15	4	2 1/2	25
RJ-100SC	10	10	1650	1850	2300	20	5	2 1/2	42
RJ-250SC	10	10	1650	1850	2300	20	4	2 1/2	31 5/8
RJ-250SC Ultra	10	10	1650	1850	2300	20	4	2 1/2	31 5/8
RJ-SC ²	10	13	1450	1650	2000	20	4	2 1/2	47

MATERIAL:

Routing:

NEGOTIATION

Title: PRESSURE GAGE READINGS FOR ADVANCE WARNING AND CONTAINER FULL

Scale: FULL	Tolerances: ±1/16"
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Equipment Company,
Vernon, Al.
Yerington, Nv.
Clearfield, Pa.

Drawn: ES

Drawing Number:

Date: 4/24/18

74829

SHEET:

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
PRINCIPLES OF OPERATION

Standard System Operating Characteristics, 5 HP & 10 HP

The system uses special cylinders to move the ram and two timers to control the operation of the ram. When the hydraulic cylinders used in the self-contained compactors are fully extended or retracted, they bypass internally. This prevents the hydraulic system from reaching relief pressure under normal conditions. The sequence of operation for this system is as follows:

Upon startup, a contact is made that energizes the motor starter, starting the electric motor and at the same time energizing T1 timer coil. When T1 is energized, the valve solenoid shifts the valve so that the hydraulic oil is directed to extend the cylinder which extends the ram. When T1 timer times out, the contacts reverse causing T2 timer to energize and the solenoid to shift the valve into the reverse position. In this position, the valve directs the hydraulic oil into the front end of the cylinder causing the cylinder to retract, therefore causing the ram to retract. When T2 timer times out, the motor starter contact is opened and the motor starter/power unit shuts down.

Cylinder Removal Instructions

1. Disconnect and lock-out power per the **Compactor Lock-Out/Tag-Out Instructions** .
2. Remove access covers from compactor.
3. Remove hoses (4 for RJ-88SC & RJ-250SC, RJ-SC², 2 for RJ-100SC & RJ-250SC Ultra).
4. Remove cylinder pins.
5. Remove cylinders (2 for RJ-88SC, RJ-250SC, RJ-SC², & RJ-250SC Ultra, 1 for RJ-100SC).
6. To install the cylinders, reverse the above steps.

RamJet Self-Contained Compactor Container

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FUSES AND CIRCUIT BREAKERS

Three Phase

MOTOR SIZE	VAC	FULL LOAD AMP	DUAL ELEMENT FUSE MAX.SIZE	CIRCUIT BREAKER MAX.SIZE	SERVICE DISCONNECT AMP.
3 HP	208	8.5	15	20	30
	230	8.2	15	20	30
	460	4.1	10	15	30
	575	3.3	6	15	30
5 HP	208	13.1	30	40	30
	230	11.5	25	40	30
	460	5.7	15	20	30
	575	4.8	10	15	30
10 HP	208	27.5	50	80	60
	230	25.6	50	70	60
	460	12.8	25	35	30
	575	11.4	20	30	30
15 HP	208	47.3	60	90	60
	230	45.0	60	90	60
	460	22.5	30	40	30
	575	18.3	30	40	30
20 HP	208	51.0	100	125	100
	220		45	60	60
	230	48.0	90	125	100
	460	24.0	45	60	60
	575	19.1	35	50	60
30 HP	208	81.0	150	225	200
	230	76.0	150	200	200
	460	38.0	70	100	100
	575	28.6	60	80	60

Single Phase

3/4 HP	120	8.2	20	20	30
	230	4.1	10	15	30
3 HP	208	15.5	30	45	30
	230	14.0	25	40	30
5 HP	208	22.0	50	80	60
	230	20.8	45	70	60
10 HP	208	43.0	100	125	100
	230	39.0	90	125	100

RamJet Self-Contained Compactor Container

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WIRE SIZES				
Three Phase	THW Copper 75°C (165°F)			
MOTOR SIZE	VOLTAGE	LENGTH		
		TO 100'	TO 200'	TO 300'
3 HP	208	10	8	6
	230	12	10	8
	460	12	12	12
	575	12	12	12
5 HP	208	10	6	4
	230	10	8	6
	460	12	12	10
	575	12	12	12
10 HP	208	6	4	2
	230	8	4	3
	460	12	10	8
	575	12	12	10
15 HP	208	4	2	1
	230	6	3	2
	460	10	8	6
	575	12	10	8
20 HP	208	4	1	1/0
	230	4	2	1
	460	10	8	6
	575	10	10	8
30 HP	208	2	0	3/0
	230	2	1	2/0
	460	6	6	4
	575	8	8	6
Single Phase				
3/4 HP	120	12	8	6
	230	12	12	10
3 HP	208	8	6	4
	230	8	6	4
5 HP	208	8	6	4
	230	8	6	4
10 HP	208	4	1	1/0
	230	4	2	1/0

RamJet Self-Contained Compactor Container

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DISCONNECTS FOR RJ-250WD INTEGRAL DUMPER

POWER UNIT TYPE	VOLTAGE	PHASE	HP	MAIN MOTOR kW	NAME PLATE FLA	SERVICE DISCONNECT AMP.
10 HP 3PH 7.5 kW	220	3	10	7.5	27	60
	380	3	10	7.5	15.6	60
	415	3	10	7.5	14.3	30
	440	3	10	7.5	13.5	30

WIRE SIZES

POWER UNIT TYPE	VOLTAGE	DUAL ELEMENT FUSE SIZE	CIRCUIT BREAKER	WIRE SIZE 75 DEG C 100' AWG (mm sq.)	WIRE SIZE 75 DEG C 200' AWG (mm sq.)	WIRE SIZE 75 DEG C 300' AWG (mm sq.)
10 HP 3PH 7.5 kW	220	45	60	8(10)	4(25)	3(35)
	380	30	40	12(4)	10(6)	8(10)
	415	30	40	12(4)	10(6)	8(10)
	440	25	30	12(4)	10(6)	8(10)

TAILGATE SEAL REPLACEMENT

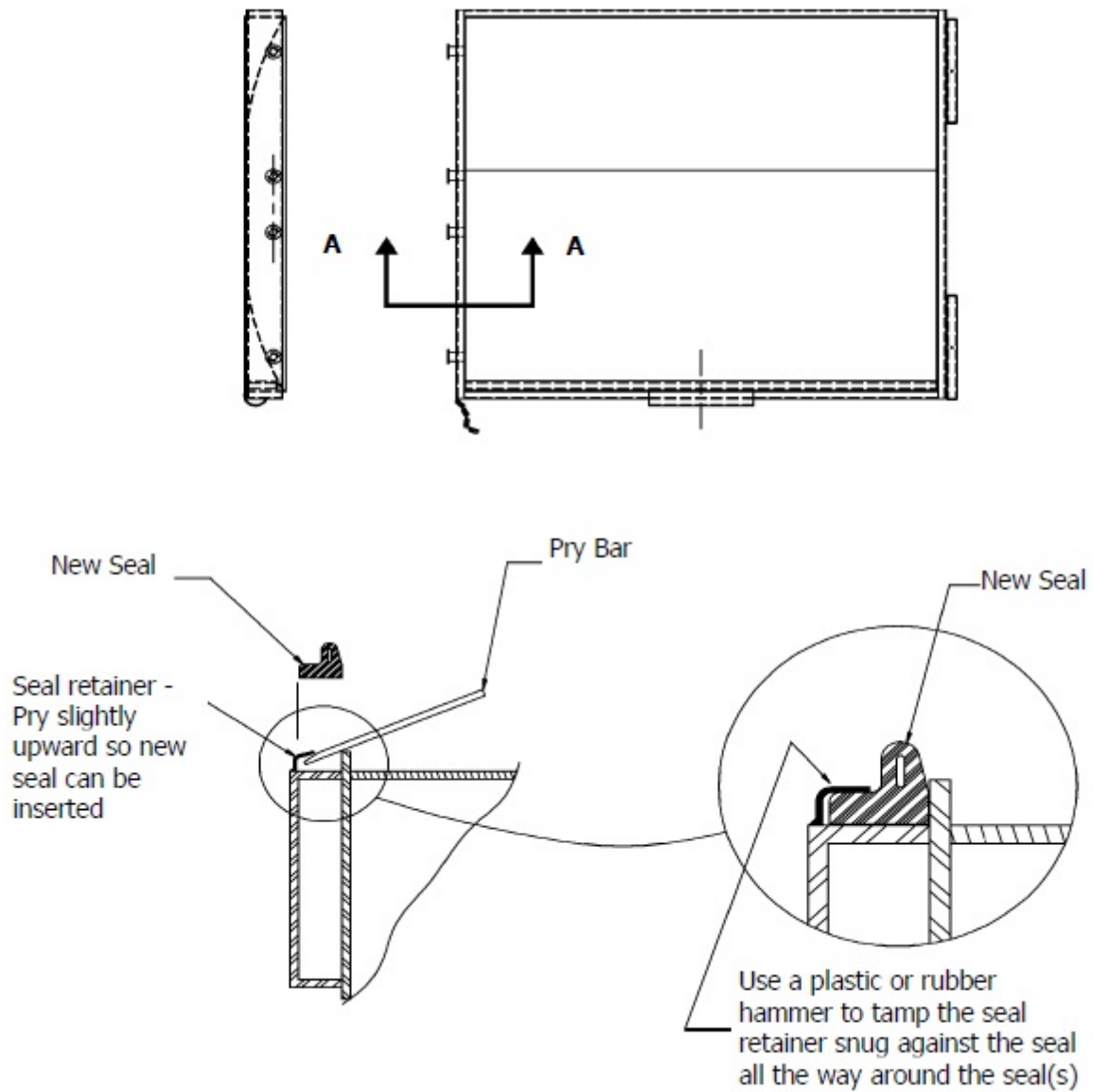
When the tailgate seal becomes damaged or worn, replace the seal.

WARNING

For units with hydraulic tailgates, before performing any inspection or maintenance on the seal, support the raised tailgate with a crane, forklift, or other positive maintenance prop.

- When removing the old seals (top & bottom) mark the position of the seal joints.
- Pry the seal retainer up slightly to allow removal of the old seals.
- When installing the new seals, join the seals at the same position.

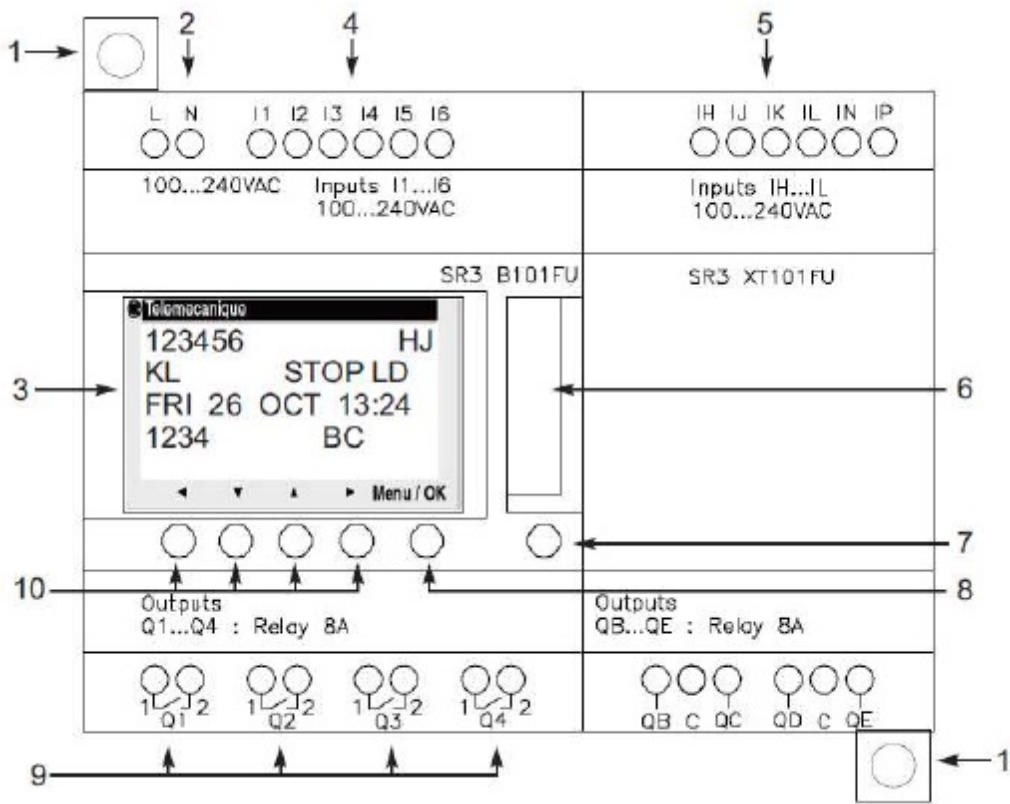
TAILGATE SEAL REPLACEMENT (CONTINUED)



RamJet Self-Contained Compactor Container

Service

PLC MAINTENANCE - LAYOUT & DESCRIPTION



REFERENCE	DESCRIPTION
1	Retractable mounting feet
2	Screw terminal block for the 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

RamJet Self-Contained Compactor Container

Service

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PLC MAINTENANCE - LAYOUT & DESCRIPTION (CONTINUED)

MULTICYCLE COUNTER SELECTION	
STEPS	DIRECTIONS
1	Press the Menu Button
2	Press Arrow Down Button to select PARAMETER (flashing)
3	Press Menu/Ok Button
4	Press Arrow Up Button until CC2 is flashing
5	Press Arrow Left Button until P=0001 is (flashing)
6	Press Arrow Down or Arrow Up to select cycle count
7	Press Menu/Ok Button
8	Press Menu/Ok Button with YES to Confirm Changes
9	Press the Menu Button

RAM STOP REAR OR RAM STOP FORWARD SELECTION	
STEPS	DIRECTIONS
1	Press & Hold the Arrow Left Button to Change and display the current ram stop position
Repeating this process switches the current position to ram stop forward or ram stop reverse.	

PLC MAINTENANCE - EXTEND/RETRACT TIMER ADJUSTMENT	
STEPS	DIRECTIONS
1	Press the Menu Button
2	Press the Up or Down Arrow Button until you get to PARAMETER
3	Press the Menu Button
4	Press the Up or Down Arrow Button until TT1 is flashing (Extend Timer)
5	Press the < Arrow Button
6	Press the Up or Down Arrow Button until the desired time is flashing
7	Press Menu
8	Press Menu with YES blinking
9	Repeat Steps 4-8 with TT2 (Retract Timer)
10	Press the Menu Button to return to normal operation.

TIMER SETTINGS (IN SECONDS)				
MODEL NO.	RAM STOP REAR		RAM STOP FORWARD	
	TT1	TT2	TT1	TT2
RJ-SC ²	25	17	17	25
RJ-88SC	27	17	17	27
RJ-100SC	21	16	16	21
RJ-250SC	19	13	13	19
RJ-250SC Ultra	19	13	13	19

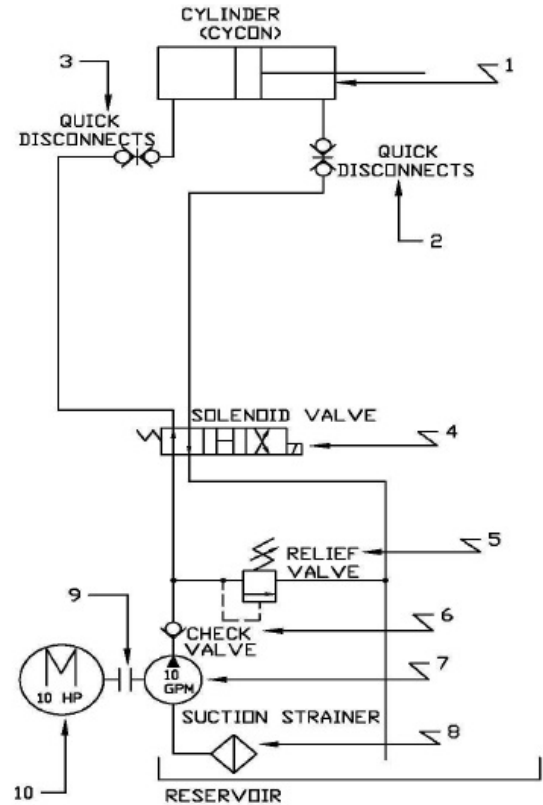
RamJet Self-Contained Compactor Container

Service

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HYDRAULIC SCHEMATIC - TYPICAL (CYCON)

1. Cylinder
2. Quick Disconnect (Female)
3. Quick Disconnect (Male)
4. Valve, 4-Way
5. Relief Valve
6. Check Valve
7. Pump
8. Suction Filter
9. Hub Coupling (Not on Closed-Coupled Units)
10. Motor



NOTICE

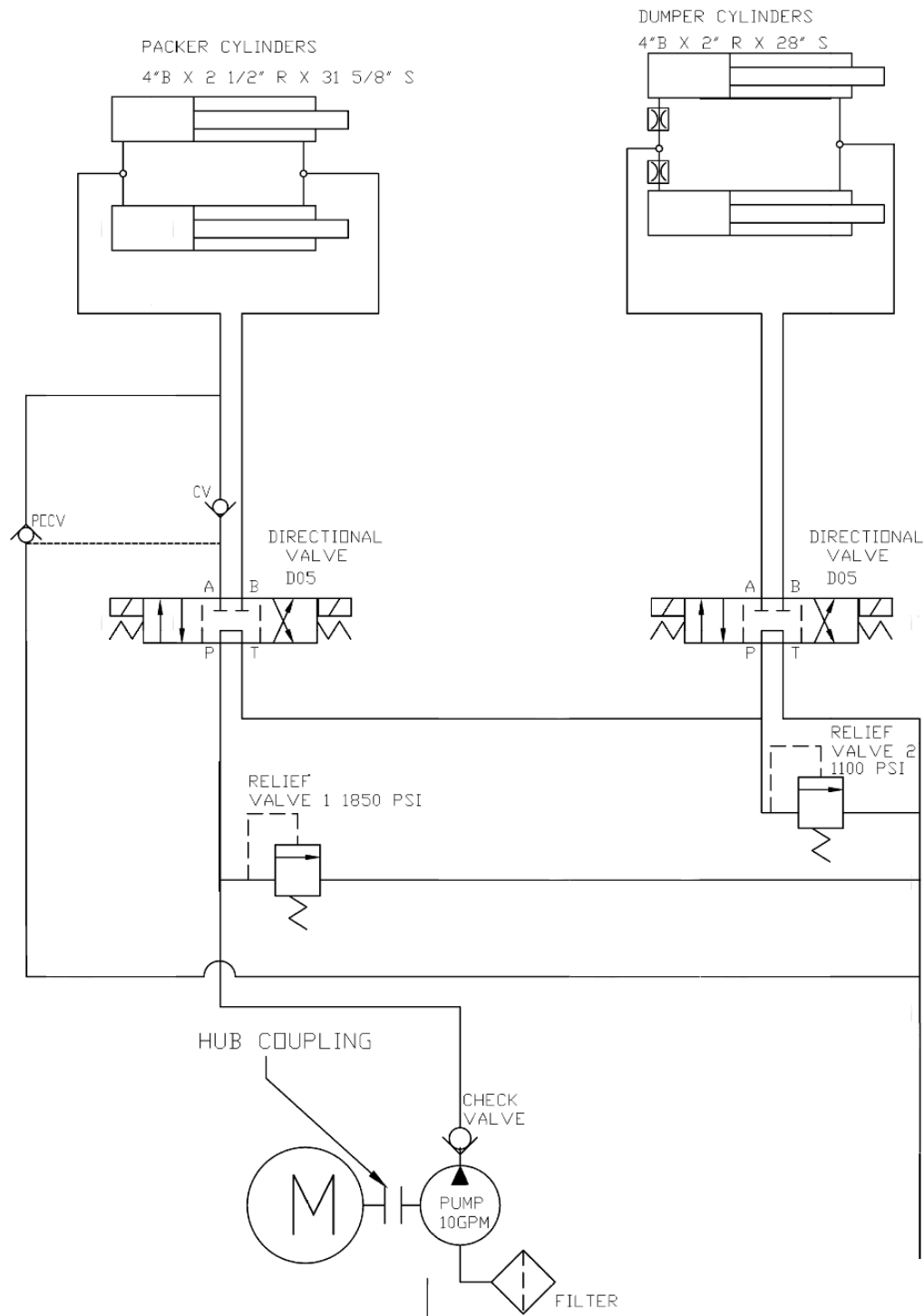
Single cylinder unit shown. For dual cylinder units, connect identical cylinder in parallel.

RamJet Self-Contained Compactor Container

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HYDRAULIC SCHEMATIC WITH INTEGRAL DUMPER



RamJet Self-Contained Compactor Container

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TROUBLESHOOTING CHART

PROBLEM	CAUSE	SOLUTION
UNIT WILL NOT START	1. No electrical power to unit	1a. Turn on main disconnect. 1b. Replace fuses/reset breakers
	2. No electrical power to control circuit	2a. Check primary and secondary sides of transformer. 2b. Check for correct voltage. Check control fuses. 2c. Check stop button. 2d. Check start button to be sure contact closes when depressed.
	3. No electrical power to motor	3a. Check heater resets
UNIT WILL NOT CONTINUE RUNNING WHEN START BUTTON IS RELEASED	1. Motor starter is inoperative.	1a. Check motor starter coil & wiring.
	2. Motor starter auxiliary contacts are inoperative	2a. Check motor starter contacts and wiring
	3. Reverse Button is inoperative	3a. Check wiring
	4. Secondary contact on start button is inoperative	4a. Check contact, wired black and orange, to be sure it is operating properly 4b. Check wiring
MOTOR RUNS BUT RAM DOES NOT MOVE NORMALLY	1. Insufficient oil in reservoir	1a. Fill reservoir with oil
	2. Low relief pressure	2a. Check relief pressure (refer to PROCEDURES-HYDRAULIC PRESSURE CHECK and PRESSURE SETTINGS for correct pressure). 2b. Clean orifice in relief valve and reset pressure 2c. Check "O" rings on relief valve for damage or leakage
	3. Oil leakage in cylinder	3a. Check cylinder for bypassing 3b. Replace seal kit, inspect rod and cylinder tube for scoring/nicks 3c. Replace cylinder
	4. Defective pump	4a. Replace pump
	5. Oil leakage from hose fittings	5a. Tighten hose fittings
	6. Low voltage	6a. Check voltage
	7. Pump may be driven in the wrong direction of rotation	7a. Stop immediately to prevent seizure. Check direction of drive rotation (proper rotation direction is indicated by arrow on motor)
	8. Shaft broken, or shaft key sheared	8a. Visually inspect motor and pump shaft and hub couplings for damage. Replace if necessary.
	9. Intake pipe from reservoir blocked, or oil viscosity too heavy to prime	9a. Drain system. Add clean fluid of proper viscosity and specifications. Filter as recommended. Check system filter for cleanliness.
	10. Intake air leaks (foam in oil or sounds like gravel in pump)	10a. Check intake connections. Tighten securely
	11. Units shift slowly	11a. Flow control valve (restrictor) clogged, remove/clean orifice.

RamJet Self-Contained Compactor Container

Service

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TROUBLESHOOTING CHART		
PROBLEM	CAUSE	SOLUTION
	12. Valve response sluggish	12a. Contaminated oil-drain and flush system. 12b. Inadequate voltage, check voltage. 12c. Disassemble valve & clean
UNIT WILL NOT REVERSE	1. Solenoid valve is in-operative	1a. Check coil in solenoid valve
	2. Reverse button in-operative	2a. Check reverse button contacts
PUMP MAKES NOISE-SOUNDS LIKE GRAVEL	1. Partly clogged intake strainer or restricted intake pipe	1a. Pump must receive intake fluid freely or cavitation results. Drain system, clean intake pipe and clean or replace strainer
	2. Defective bearing	2a. Replace pump
	3. Air leak at pump intake pipe joints	3a. Tighten joints as required.
PUMP SHAFT SEAL LEAKING	1. Seal worn or damaged	1a. Replace seals or pump.
EXCESSIVE HEAT	1. Continuous running	1a. When over 140° F or hot in comparison with circuit lines, pump should be shut down immediately. Before restarting, insure that fluid cooling capacity is adequate to remove system generated heat. 1b. Install oil cooler (air or water type) 1c. Install oil temperature shut down switch 1d. Check to be sure CYCON Power Pack has not been exchanged for Pressure Shifting Power Pack.
	2. Undersized hydraulic lines	2a. Replace with larger hydraulic lines
	3. High ambient temp in relation to oil temp.	3a. Use lower viscosity oil
	4. Excessive system leakage	4a. Check system for bypassing or leaks
RAPID WEAR	1. Abrasive matter in the hydraulic oil being circulated through pump	1a. Install adequate filter or clean filter. 1b. Replace oil more often and clean tank
	2. Viscosity of oil too low at working conditions	2a. Replace oil with factory recommended oil.
	3. Pressure too high	3a. Reduce pump pressures to factory specifications.
	4. Air recirculation causing pump noise	4a. Tighten all fittings.
ERRATIC OPERATION	1. Valve sticking or binding	1a. Disassemble & clean as necessary
	2. Viscosity of oil too high	2a. Change oil to factory recommended viscosity
	3. Air in system	3a. Check for leaks, tighten fittings
	4. Low oil	4a. Fill reservoir with oil
	5. Low voltage	5a. Check primary & secondary sides of transformer for correct voltage
OVERLOADS TRIP FREQUENTLY		1a. Check for correct voltage (incoming power.) 1b. Check fuses or breakers at disconnect 1c. Check heater elements to be sure they are tight 1d. Check wiring from starter to motor-make sure all connections are tight

RamJet Self-Contained Compactor Container

Service

TROUBLESHOOTING CHART		
PROBLEM	CAUSE	SOLUTION
		1e. Check motor leads to be sure all connections are tight surges or voltage
	NOTE: Excessive overload tripping and/or motor or coil failures may occur if voltage surges or voltage drops are frequent in your area. This circumstance can be remedied by the installation of phase protectors which drop power to the motor if surges are present.	

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SECTION 6

REPLACEMENT PARTS

CONTACT INFORMATION



Technical Service and Warranty:

877-258-1105

Parts:

800-528-5308

For parts visit our eCommerce Marketplace at www.mecomerchant.com.

If you do not have a user name and password, contact our Parts Department and they will assist with your registration.

Normal Business Hours:

Monday-Friday 8:00am - 5:00pm

(Central Standard Time)

RamJet Self-Contained Compactor Container

Replacement Parts

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Model	Cylinder	Cylinder Seal Kit	Cylinder Pin	Pinning bushing
88-SC	04-3842	04-0301	09-3874	09-2229
100-SC	04-0310	04-0311	04-0315	N/A
250-SC	04-3791	02-6407	456894	N/A
250-HT Tailgate	04-0210	04-0211	12-1108	N/A
SC	04-3876	04-3881	Rear 464882 Front 37-0210	N/A
*Cylinder/Seal Kit/Cylinder Pins are consistent across all 250 models including 250 SC, HT, Ultra, Stream line.				

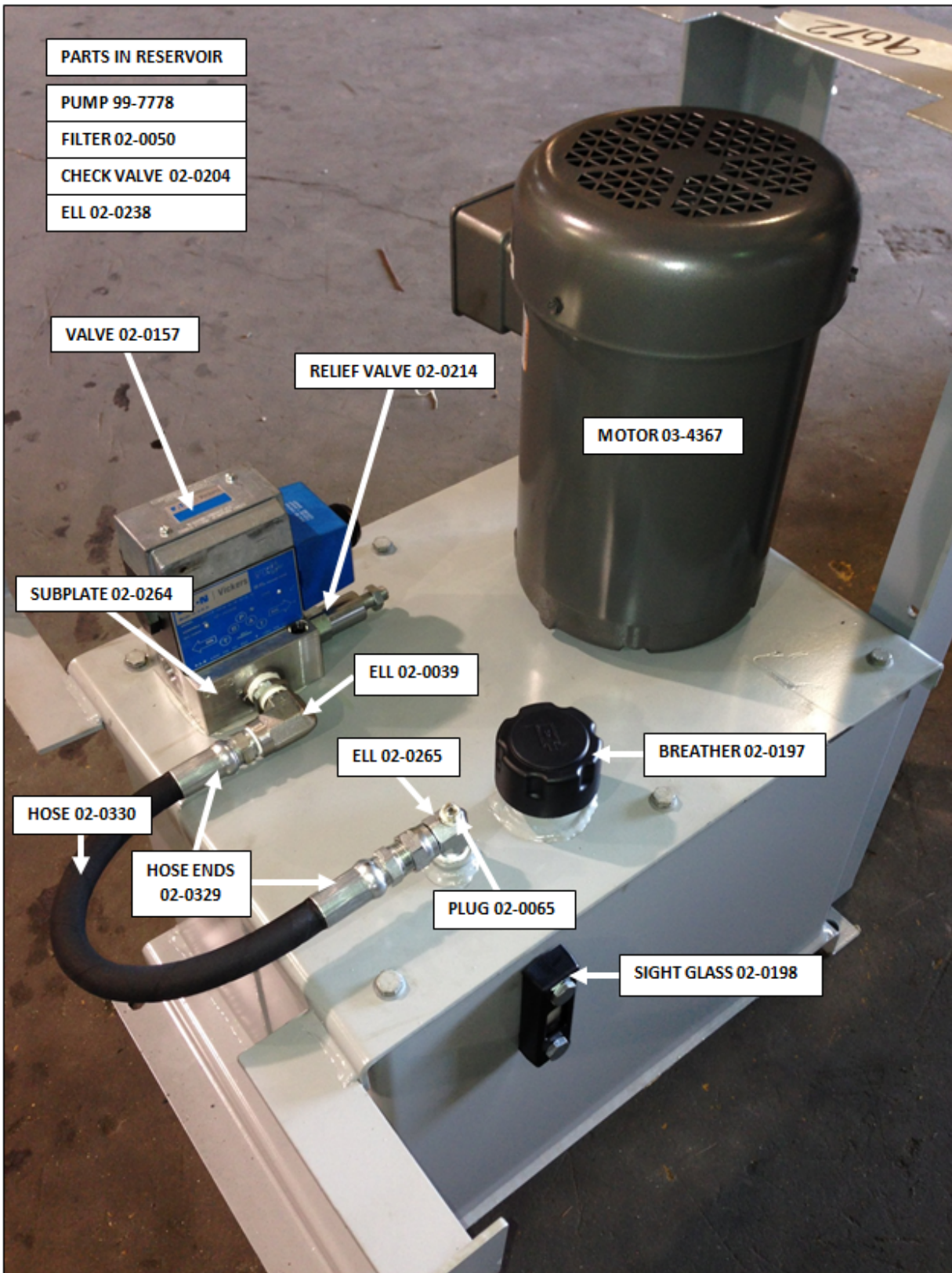
MISCELLANEOUS HARDWARE PARTS LIST	
PART #	DESCRIPTION
06-0006	SHORT SHOE
05-0017	BOLT, SQUARE HEAD FOR CAST IRON SHOES, GRADE 5
05-0018	NUT, SELF-LOCKING FOR CAST IRON SHOES BOLT
447966	RATCHET ASSEMBLY FOR 88SC,100SC,250SC, 250SL
05-0224	SWING BOLT FOR 250HT
02-1027	BALL VALVE FOR 250SLSL
06-2880	GROUND ROLLER
06-3372	GROUND ROLLER RUBBER
06-3691	GUIDE ROLLER
12-2112	GUIDE ROLLER MOUNTING BRACKET
12-2114	BULL NOSE FOR SC
05-0136	PADDLE LATCH W/KEY LOCK
05-0294	SLAM LATCH
09-1604	LARGE TOP COVER FOR RJ100SC
09-1606	SMALL TOP COVER FOR RJ100SC
09-2263	TOP COVER FOR RJ250SC
435622	DOUBLE HINGE FOR SELF-CONTAINED TAILGATE
03-0174	PUSH-BUTTON INTERLOCK
03-0498	MAGNETIC INTERLOCK
03-0012	LIMIT SWITCH
03-0010	LIMIT SWITCH ARM
05-4991	LATCH SLAM LOCKABLE
05-5027	STRIKER FOR SLAM LATCH OR MANUAL LATCH
09-3658	SHIM PLATE FOR USE WITH STRIKER 05-5027
454619	LATCH BOLT ON FOR AUTO START
05-0247	TAILGATE P-SEAL

RamJet Self-Contained Compactor Container

Replacement Parts

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POWER UNIT - STANDARD 5 HP



RamJet Self-Contained Compactor Container

Replacement Parts

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POWER UNIT - STANDARD 5 HP - PARTS LISTS

Match reference numbers with the chart on the previous page to identify components. For replacement part ordering, call our parts department at 800-528-5308.

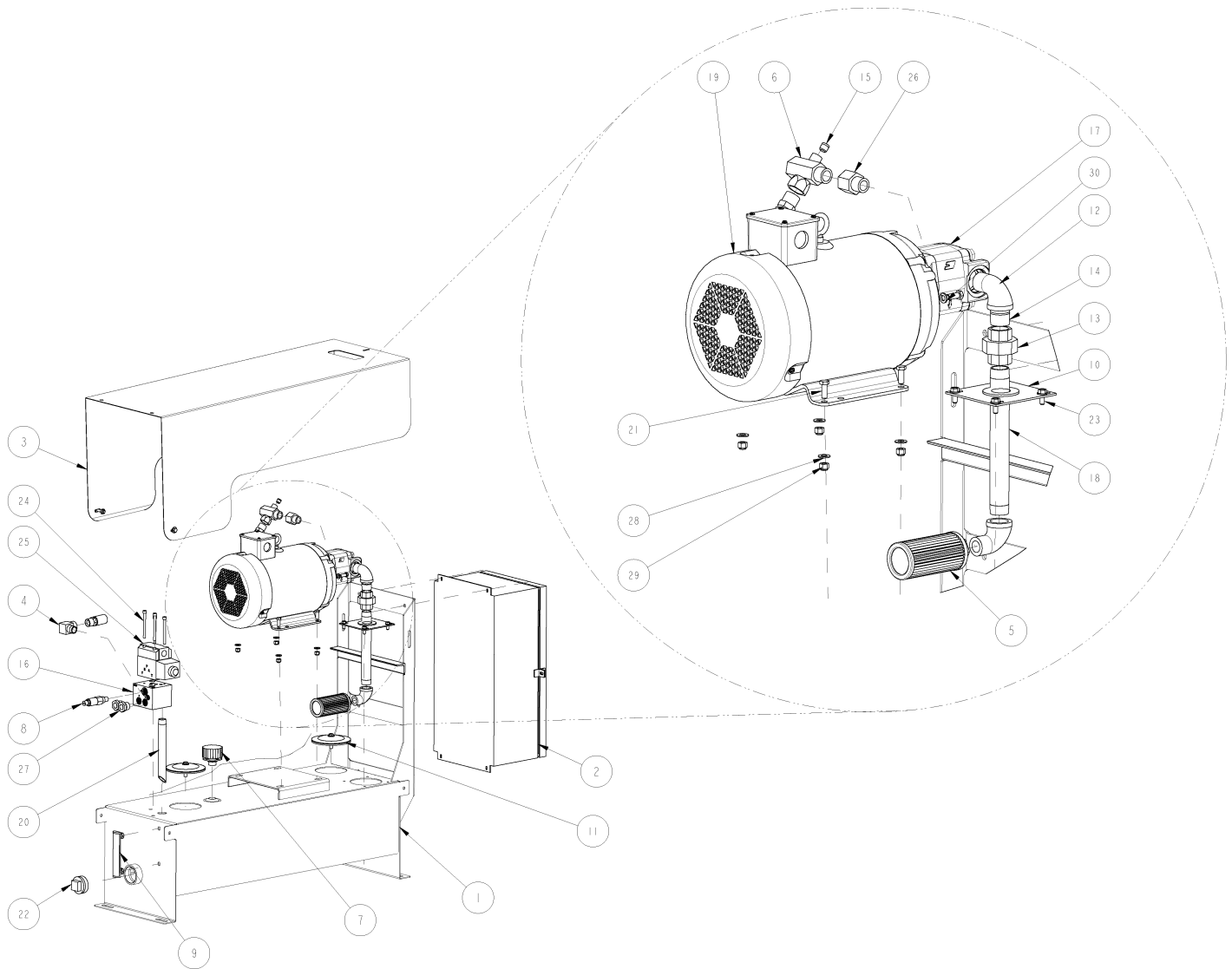
PART #	DESCRIPTION	QTY
02-0039	ELL 1/2 NPTM X 1/2 NPTF 90	1
02-0050	FILTER SUCTION 1 13 GPM 100 ME	1
02-0065	PLUG 1/4 NPT SOCKET HEAD	1
02-0197	BREATHER 3/4 FILLER	1
02-0198	GAUGE SIGHT LEVEL 3 INCH	1
02-0204	VALVE CHECK 1/2 NPTF	1
02-0214	VALVE RELIEF 20 GPM CART PILOT	1
02-0238	ELL 1 NPTM X 1 NPTF 90 SCH 40	2
02-0264	SUBPLATE 05 1 STN 1/2 NPTF R O	1
02-0265	ELL 1/2 NPTM X 1/2 NPTF W/1/4H	1
02-0328	HOSE END 1/2 WB X 1/2 SW NPTM	3
02-0329	HOSE END 1/2 WB X 1/2 NPTM	1
02-0859	VALVE CHECK 3/8 NPTF AIR BLEED (INSIDE RESERVOIR)	1
03-4367	MOTOR 5HP 1750 208/230/460 CLO	1
06-0011	DECAL MOTOR ROTATION	1
99-7778	PUMP 6 GPM VANE	1
02-0330	HOSE 1/2 WB 3500PSI	2.25
02-0329	HOSE ENDS	2
02-0157	VALVE	1

RamJet Self-Contained Compactor Container

Replacement Parts

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POWER UNIT - 10 HP



POWER UNIT - 10 HP - PARTS LIST

Match reference number with the drawings on this page. To order replacement parts, call our Parts Department at 800-528-5308.

RamJet Self-Contained Compactor Container

Replacement Parts

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POWER UNIT - 10 HP - PARTS LIST

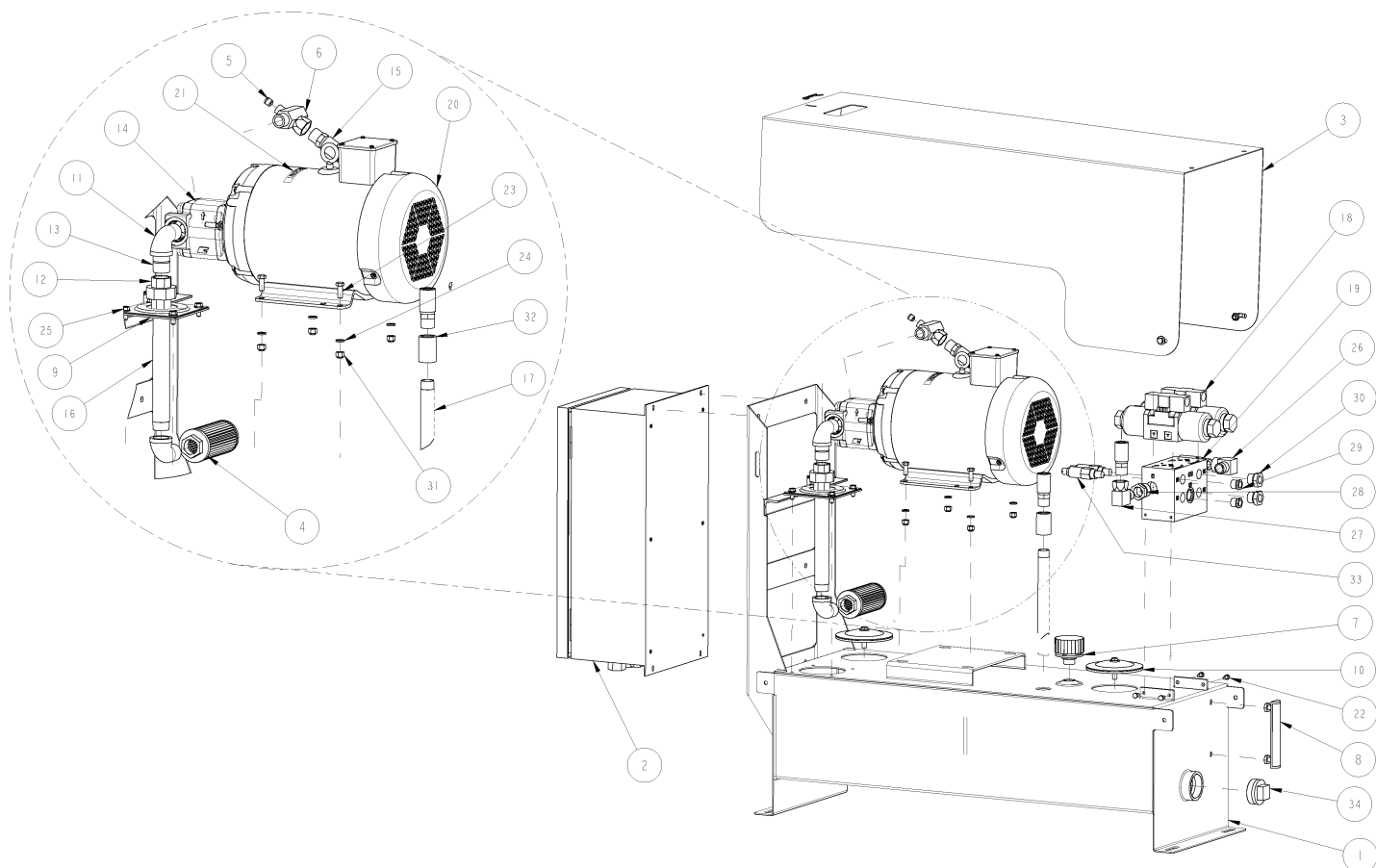
PPK 603860			
Item no	Part #	Description	Quantity
1	461333	RESERVOIR UNIV PPK 20GAL	1
2	03-0527	ENCLOSURE 12 1/2 X 24 X 8 NEMA	1
3	459306	WEATHER COVER (INCLUDES HARDWARE)	1
4	020050	FILTER SUCTION 1 13 GPM 100 ME	1
5	020065	PLUG 1/4 NPT SOCKET HEAD	1
6	021042	VALVE CHECK 3/4 NPTM X 3/4 NPT	1
7	020197	BREATHER 3/4 FILLER	1
8	020215	GAUGE SIGHT LEVEL 5 INCH	1
9	020218	FLANGE SUCTION 1 PIPE	1
10	020219	CLEAN OUT COVER 6	2
11	020238	ELL 1 NPTM X 1 NPTF 90 STREET	2
12	020239	UNION 1 NPT	1
13	020240	NIPPLE 1 NPT CLOSE	1
14	020267	PUMP 9 GPM GEAR	1
15	020326	HOSE END 3/4 WB X 3/4 NPTM	4
16	020363	PIPE 1 SCH 40 X 10 1/4	1
17	358461	PIPE 3/4 SCH 40 X 9 RETURN	1
18	020852	VALVE 4-WAY 05 T 3 SOFT SHIFT	2
19	026153	SUBPLATE 05 2 STN W/CV&RV	1
20	037030	MOTOR 10HP 208/230/460V 60HZ	1
21	060011	DECAL MOTOR ROTATION 3/4 X 4	1
22	050024	BOLT 1/4- 20 X 1/2 HHCS PLT	4
23	050096	BOLT 3/8-16 X 1 HHCS	6
24	050159	WASHER 3/8 LOCK ZINC	6
25	050225	SCREW 5/16-18 X 3/4 ST TYPE 23	4
26	020044	ELL 3/4 NPTM X 3/4 NPTF 90	1
27	020041	ELL 3/4 NPTM X 3/4 NPTF SWV 90	1
28	020060	ADAPTER 3/4 NPTF X 1 NPTM	1
29	020040	ADAPTER 3/8 NPTF X 1/2 NPTM	2
30	020132	ADAPTER 1/2 NPTF X 3/4 NPTM	2
31	05-0015	NUT 3/8-16 HEX SELF LOCKING	4
32	02-0129	COUPLING 3/4 NPT SCH 80	1
33	02-0214	VALVE RELIEF 20GPM CART PILOT OP	2
34	02-0254	PLUG 2 NPT SQ HD	1

RamJet Self-Contained Compactor Container

Replacement Parts

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POWER UNIT WITH INTEGRAL DUMPER - 10 HP



RamJet Self-Contained Compactor Container

Replacement Parts

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POWER UNIT WITH INTEGRAL DUMPER - 10 HP - PARTS LIST

Match reference number with the drawings on the previous page. To order replacement parts, call our Parts Department at 800-528-5308.

PPK 603860		
Part #	Description	Quantity
461333	RESERVOIR UNIV PPK 20GAL	1
03-0527	ENCLOSURE 12 1/2 X 24 X 8 NEMA	1
459306	WEATHER COVER (INCLUDES HARDWARE)	1
020050	FILTER SUCTION 1 13 GPM 100 ME	1
020065	PLUG 1/4 NPT SOCKET HEAD	1
021042	VALVE CHECK 3/4 NPTM X 3/4 NPT	1
020197	BREATHER 3/4 FILLER	1
020215	GAUGE SIGHT LEVEL 5 INCH	1
020218	FLANGE SUCTION 1 PIPE	1
020219	CLEAN OUT COVER 6	2
020238	ELL 1 NPTM X 1 NPTF 90 STREET	2
020239	UNION 1 NPT	1
020240	NIPPLE 1 NPT CLOSE	1
020267	PUMP 9 GPM GEAR	1
020326	HOSE END 3/4 WB X 3/4 NPTM	4
020363	PIPE 1 SCH 40 X 10 1/4	1
358461	PIPE 3/4 SCH 40 X 9 RETURN	1
020852	VALVE 4-WAY 05 T 3 SOFT SHIFT	2
026153	SUBPLATE 05 2 STN W/CV&RV	1
037030	MOTOR 10HP 208/230/460V 60HZ	1
060011	DECAL MOTOR ROTATION 3/4 X 4	1
050024	BOLT 1/4- 20 X 1/2 HHCS PLT	4
050096	BOLT 3/8-16 X 1 HHCS	6
050159	WASHER 3/8 LOCK ZINC	6
050225	SCREW 5/16-18 X 3/4 ST TYPE 23	4
020044	ELL 3/4 NPTM X 3/4 NPTF 90	1
020041	ELL 3/4 NPTM X 3/4 NPTF SWV 90	1
020060	ADAPTER 3/4 NPTF X 1 NPTM	1
020040	ADAPTER 3/8 NPTF X 1/2 NPTM	2
020132	ADAPTER 1/2 NPTF X 3/4 NPTM	2

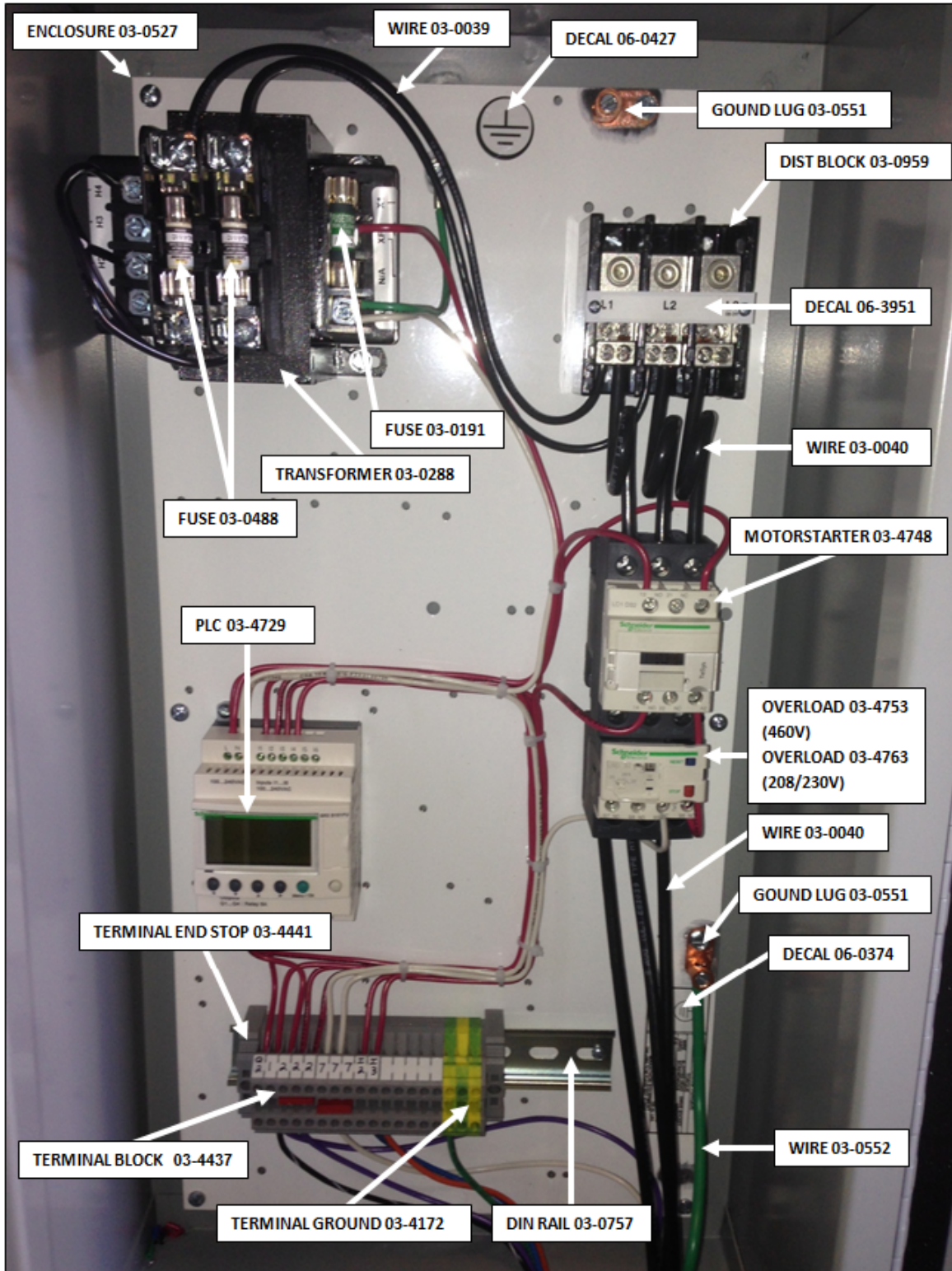
RamJet Self-Contained Compactor Container

Replacement Parts

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TYPICAL PANEL BOX CONFIGURATION

The diagram below represents a typical panel box configuration for the self-contained compactors. The panel box on your compactor may differ depending on the model and/or optional equipment/controls. Refer to the chart below to identify components. To order replacement parts, please call our Parts Department at 800-528-5308.



RamJet Self-Contained Compactor Container

Replacement Parts

ELECTRICAL PARTS LIST

PART #	DESCRIPTION
03-0288	CONTROL TRANSFORMER-MICRON 150VA, 208/230/460-120 VAC
03-0959	DISTRIBUTION BLOCK
03-4729	ZELIO SMART RELAY - PLC
03-4852	ZELIO EXPANSION MODULE - 6 INPUTS, 4 OUTPUTS OR
03-5483	ZELIO EXPANSION MODULE - 8 INPUTS, 6 OUTPUTS
03-4748	IEC MOTOR STARTER
03-4753	OVERLOAD FOR 460V OR
03-4763	OVERLOAD FOR 230V
03-4437	IEC FINGER-SAFE TERMINAL BLOCKS

See Power Unit - Standard 5 HP Parts List^[77] or Power Unit - 10 HP Parts List^[79] for additional replacement parts.

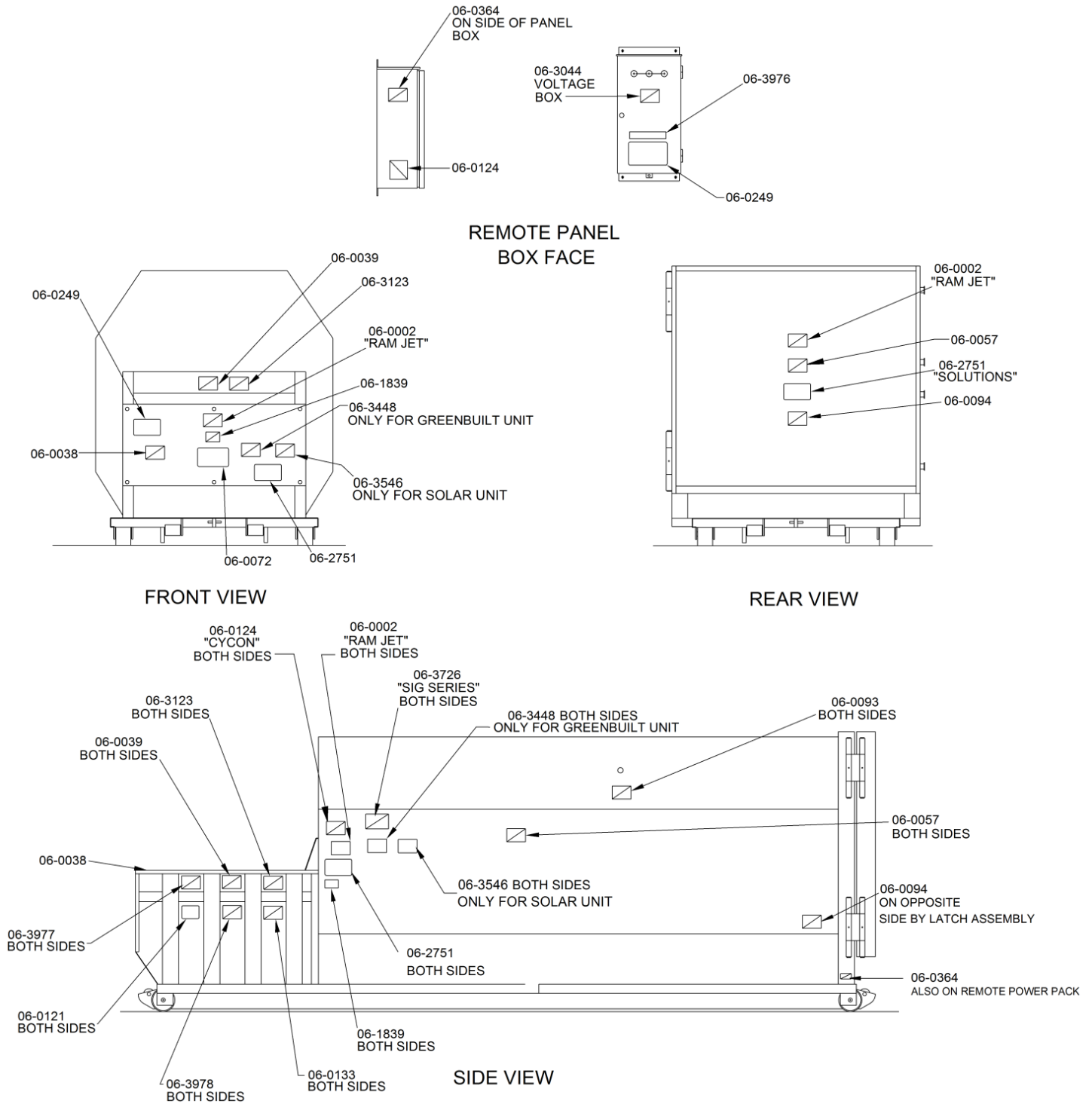
RamJet Self-Contained Compactor Container

Replacement Parts

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DECAL PLACEMENT

Match part numbers on chart to previous page. See next 3 pages for Decal Images.



RamJet Self-Contained Compactor Container

Replacement Parts

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DECAL PARTS LIST

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 operation. The FOLLOWING DECALS MUST BE MAINTAINED. Additional decals may be purchased through your distributor or from Marathon Equipment Company by calling the parts department at 800-528-5308.

When ordering replacement decals, use the chart below with the **Decal Placement Drawing**^[84] or look for the part number in the lower right hand corner of the decal. For optional equipment or HT Models, see **Decals for Optional Loading Configurations**^[89] and **Decals for Hydraulic Tailgate (HT) Units**^[90].

	Part #	Description	QTY
1	05-0325	RIVETS, 1/8 X 1/2 ALUM (to go with 06-0364)	4
2	06-0038	WARNING DO NOT REMOVE ACCESS COVER	2
3	06-0039	DANGER DO NOT ENTER	3****
4	06-0072	QUICK CLEAN TANK	1
5	06-0093	FIRE HOSE PORT	2
6	06-0094	NOTICE WIPE OFF SEAL AFTER....	2
7	06-0121	NOTICE FEDERAL REGULATION...NO <18 y.o.	2
8	06-0124	CYCON	2
9	06-0249	DANGER HAZARDOUS VOLTAGE	2
10	06-0364	COMPACTOR SERIAL NUMBER	2
11	06-1839	AMERICAN FLAG	3
12	06-0057	WARNING STAND CLEAR OF COMPACTOR	3
13	06-0002	RAM-JET	4
14	06-3123	CONFINED SPACE	3****
15	06-3231*	ULTRA DECAL	2
16	06-0040**	CAUTION: KEEP OUT	****
17	06-0052**	CAUTION: GATE MUST BE CLOSED....	****
18	06-0104***	HT OPERATING INSTRUCTIONS	1
19	06-0105***	DANGER: STAND CLEAR OF TAILGATE...	3
20	06-2751	MARATHON LOGO	4
21	06-3977	WARNING DO NOT OPERATE OR SERVICE	2
22	06-3978	DANGER, SAFETY DEVICES	2
23	06-0133	WARNING, KEEP OFF, DO NOT CLIMB	2
24	06-3726	SIGNATURE SERIES	2
25	06-3044	DANGER, HAZARDOUS VOLTAGE	1
26	06-3976	WARNING, SHOCK AND ARC FLASH HAZARD	1
NOTE: SEE BELOW FOR * REFERENCE DESCRIPTIONS *ONLY ON "ULTRA" MODELS. **ONLY ON OPTIONAL EQUIPMENT (ACCESS GATES, HOPPERS, &/OR DOGHOUSE. ***ONLY ON HT UNITS (HYDRAULIC TAILGATE). ****QUANTITY VARIES DEPENDING ON OPTIONAL EQUIPMENT, NOTE QUANTITY ON MACHINE.			

RamJet Self-Contained Compactor Container Replacement Parts

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DECAL IMAGES

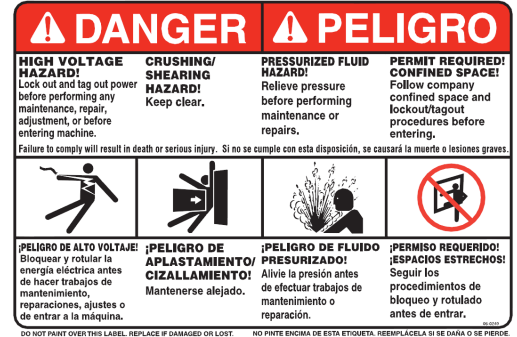
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06-0039



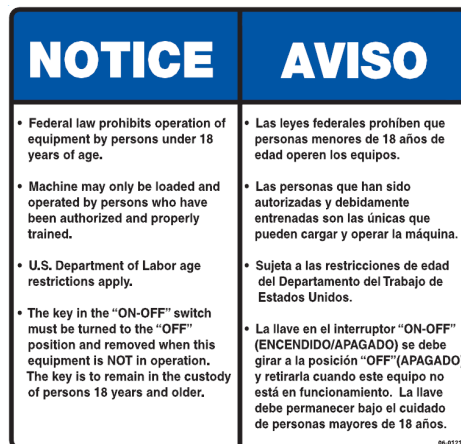
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06-3044



06-0121



06-0002



06-0072



06-0133



06-3123



06-0094

06-3726

06-0124

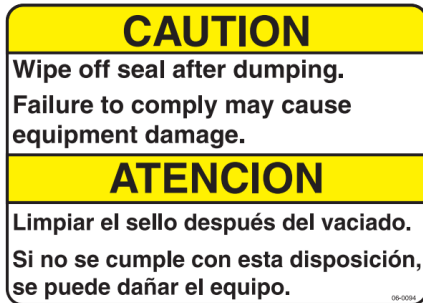


RamJet Self-Contained Compactor Container

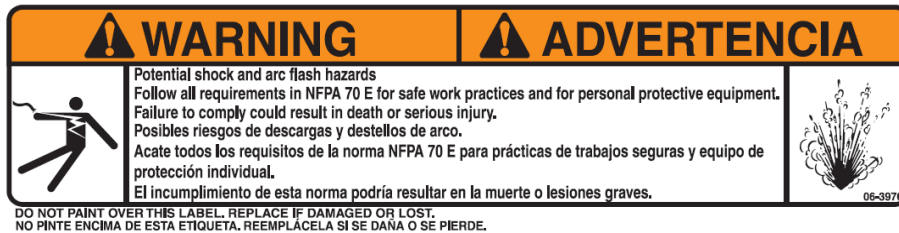
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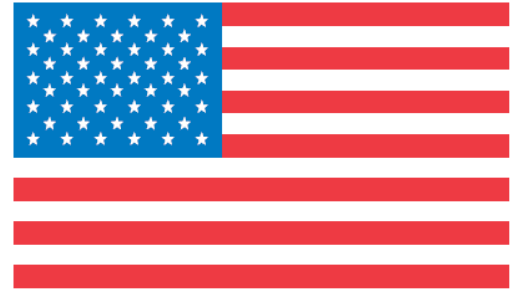
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06-1839



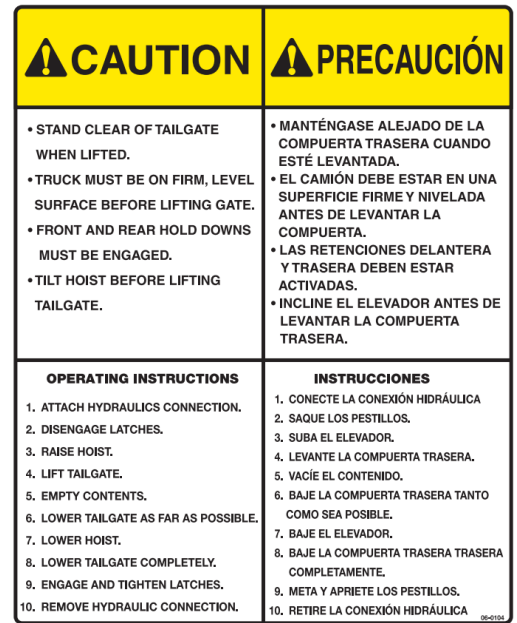
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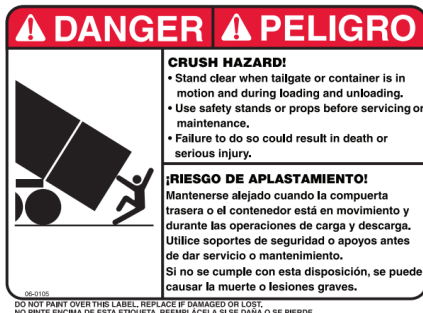
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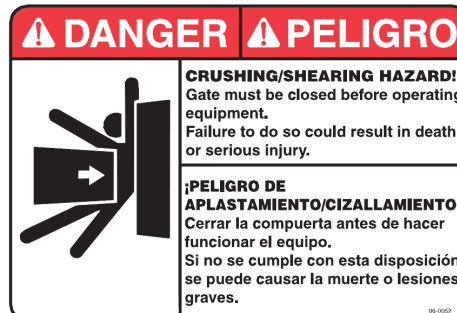
06-0104



06-0105



06-0052



RamJet Self-Contained Compactor Container

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06-0040



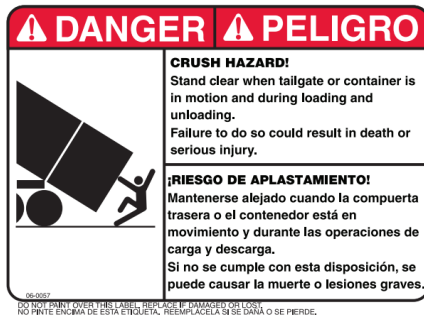
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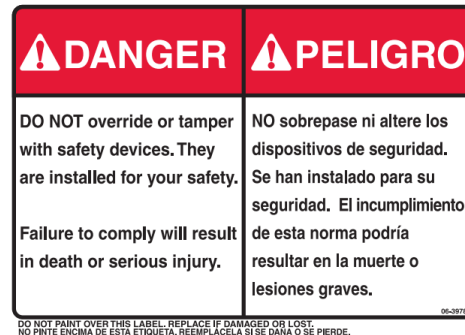
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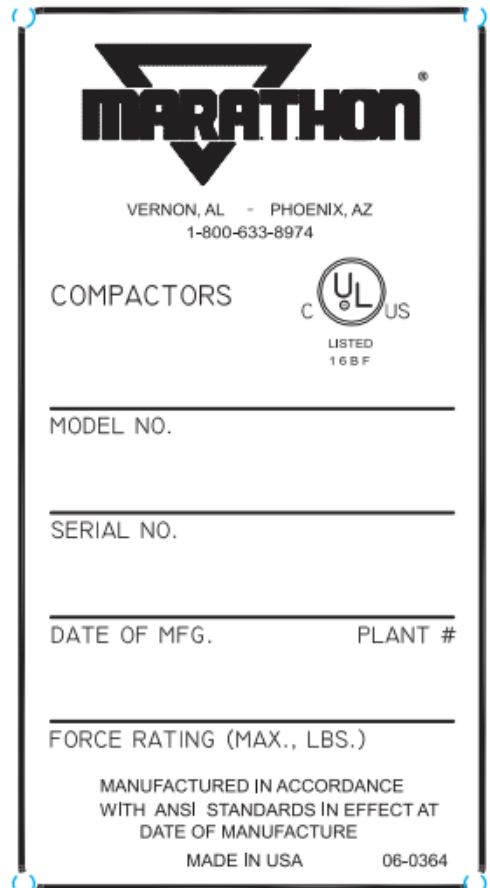
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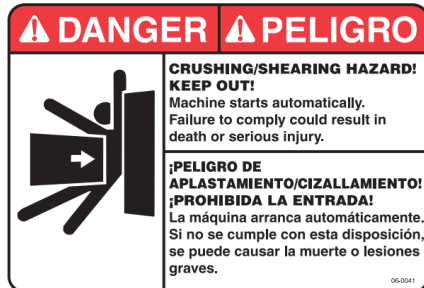
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06-0364



06-0041



06-0087



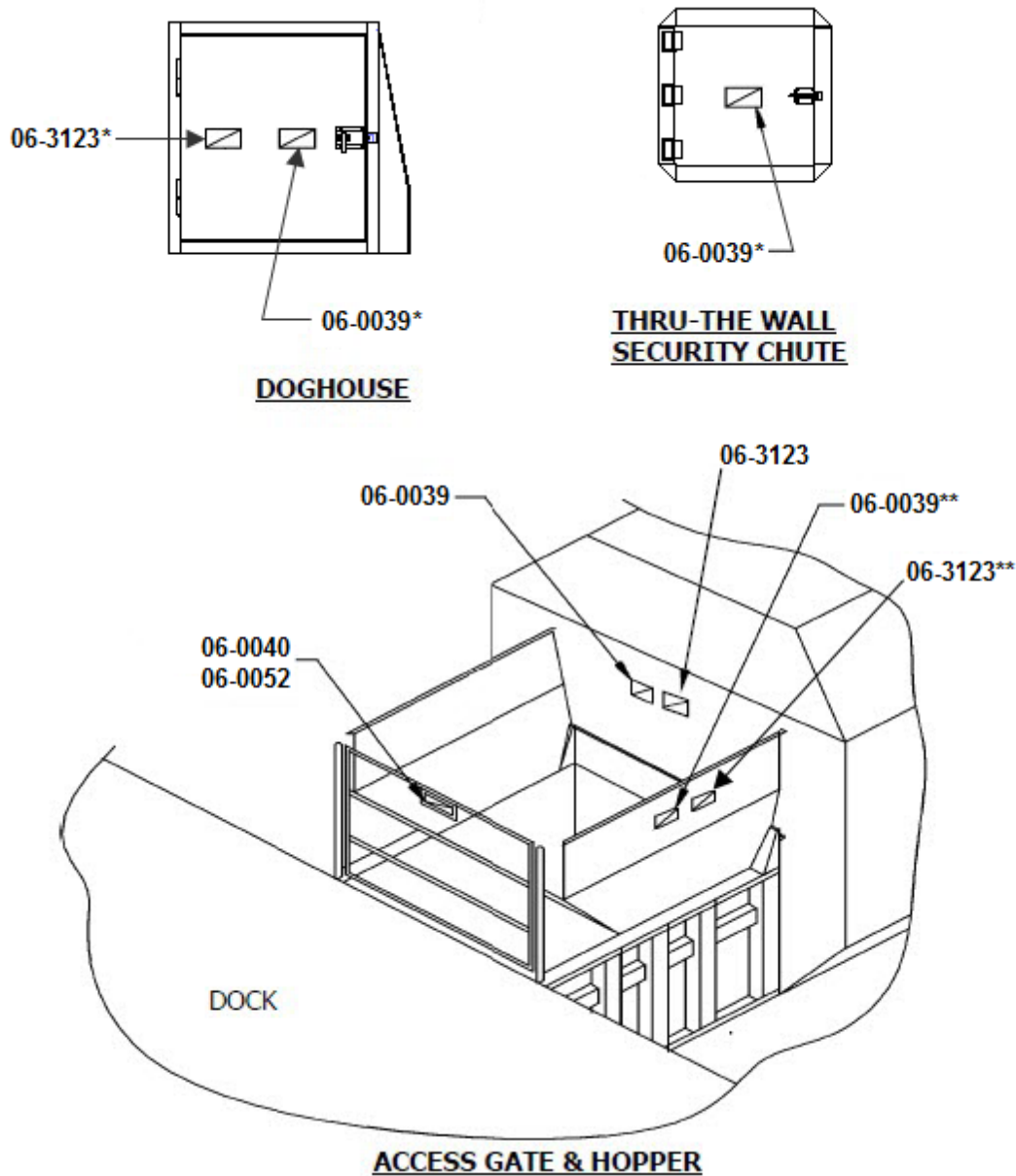
RamJet Self-Contained Compactor Container

Replacement Parts

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DECALS FOR OPTIONAL LOADING CONFIGURATIONS

Match part numbers to **Decals** ⁸⁶¹ when ordering replacement decals.



* The doghouse decals are to also be placed on the inside wall of the doghouse or opposing side from the doghouse door, so that it is visible when the door is open. This applies to both door decals.

** Located on each outside wall.

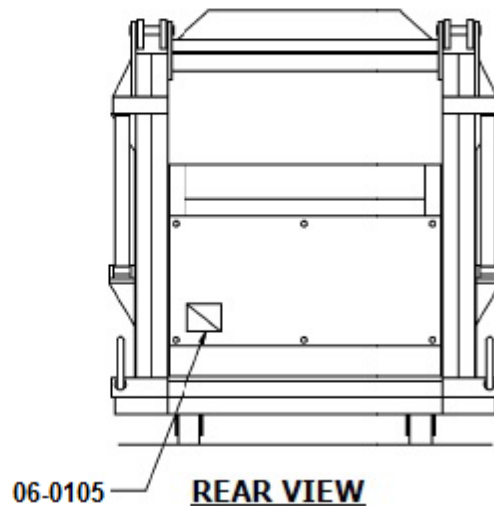
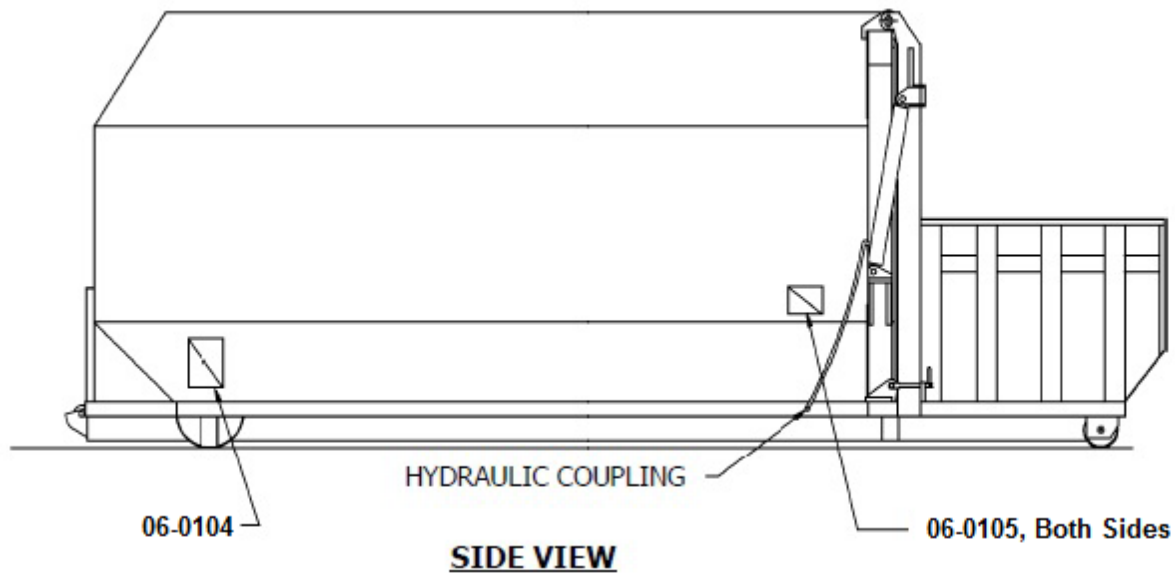
RamJet Self-Contained Compactor Container

Replacement Parts

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DECALS FOR HYDRAULIC TAILGATE (HT) UNITS

In addition to the decals and their placement specified on the previous pages, the self-contained units with the hydraulic tailgate option require the following decals located as shown below.



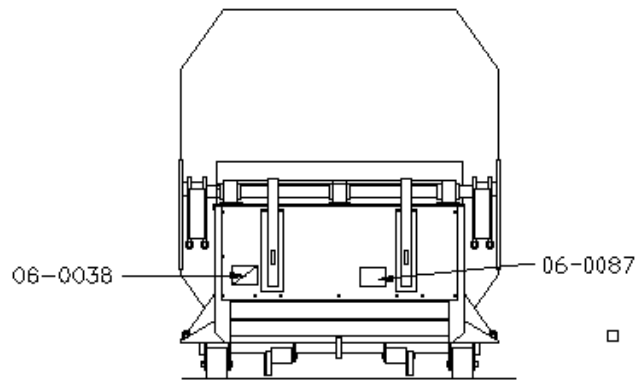
RamJet Self-Contained Compactor Container

Replacement Parts

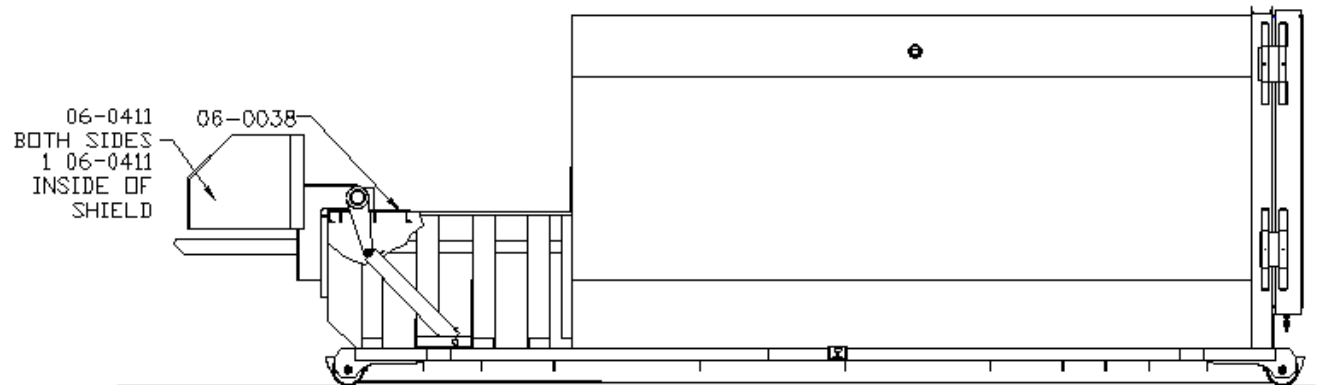
91

DECAL PLACEMENT FOR INTEGRAL DUMPER

In addition to the decals from RJ-250SC self-contained compactors and their placement specified in that manual, the self contained units with the integral dumper option require the following decals located as shown below.



REAR VIEW



SIDE VIEW

INTENTIONALLY LEFT BLANK

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