



CP1 & CP2

COMPACTORS

WITH MODEL 20 CONTROLS

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11/19/21

## **Chapter 1 FEATURES**

- 1) The compactor can be placed in manual allowing the operator to drive the ram forward and back. The ram will remain where it is positioned for 5 minutes after which time it will return to automatic control and be driven home. System high pressure will inhibit ram forward.
- 2) Limit and pressure switches have been eliminated. The display now shows the system pressure whenever the ram is moving. Each time the ram is energized the display pressure is set to zero at the start of movement. Each time the system reads a higher pressure the display is updated with that value. Thus, the display shows the peak pressure during the previous move. The pressure display is updated in both Manual and Automatic.
- 3) Just like a car the oil should be periodically flushed and replaced. The factory recommendation is every 15000 machine cycles. From the Manual control screen, the client can view the total number of cycles since the last service. The count can be reset from this screen. An excessive count will not stop the compactor from operating. A lifetime cycle counter is also included.
- 4) An auto reset alarm “Check Photo Eye” has been added. If the compactor runs continually for more than 30 minutes it is possible the photo eye or reflector are dirty, or out of alignment. After an uninterrupted 30 minutes, the system will shut down for 10 minutes to allow the oil and solenoids to cool. After the cool down, auto operation will continue. If the photo eye is still blocked the compactor will cycle 30 minutes on, 10 minutes off until the obstruction or alignment is corrected. After the first 30 minutes the display will read “Check Photo Eye” and the alarm strobe will flash. The alarm display and strobe will continue until the photo eye clears. The alarm will not clear during a cool down cycle. This operation can be changed from a setup screen so that after the first 30 minutes the compactor shuts down completely and must be manually reset.
- 5) In previous versions of software, if there were multiple setpoints on a page, each setpoint had to be accepted before the operator could move off that screen. A major change in software allows the operator to quickly move through all the selectable valves until he finds the setpoint he wishes to change. To change a value, move to the screen that presents that value. Hit the “ENTER” key. Type in the new value. Hit the “ENTER” key a second time.  
  
If the operator needs to change the same value a second time, simply touch the *Enter* key again to repeat the procedure.
- 6) Model 20 provides consistency in how the operator moves from screen to screen. The *Down Arrow* key will take the operator to the next display. The *Up Arrow* key will take him to the previous display.
- 7) The alarm display automatically scrolls to display all active alarms instead of just the last alarm. The display also indicates whether the alarm is just a warning or whether it must be acknowledged before the machine will resume operation. Several alarms that will shut down the controls have been modified to create an automatic reset. The alarm description will read AUTO RESET.
- 8) In order to better attract the attention of an operator, a red strobe has been added to the front of the control panel. This light will flash whenever any alarm occurs. The display will provide a text description of the alarm.

9) In previous controls, the ram would stop in its present position in the event of a high pressure “Container Full” alarm. The ram will now return to its fully retracted position. This better protects the slide plate from fulling trash.

**11) Do not remove power to the controls with the ram fully extended. This can result in damage to the slide plate and voids the machine warranty.**

#### OPTIONS

- 1) To add additional operator protection, exchange the emergency stop pushbutton for a key lock version.
- 2) A container away limit switch, which prevents the compactor from operating if a container is not attached to the compactor, can be added.
- 3) A through door can be added to allow access to a compactor located on the first floor

## CHAPTER 2 - INSTALLATION

### WARNING

*Only experienced personnel should attempt to install, service, or operate this equipment. Some of the procedures require the opening of the front cover on the control box. This exposes potentially lethal electrical voltage.*

This style of compaction system is designed for use in a heated indoor facility having level access to the compacted refuse pickup point. Ramps or sills can only be navigated with special handling equipment to accommodate the wheeled refuse containers used in the system. The compactor may also be loaded manually.

Read the entire Installation Chapter before installing the Compactor. It is assumed that a specific location for the compactor has already been established with the help of the compactor’s representative. An experienced outside installation service organization may also be involved in the installation.

**1)** Position the compactor with its hopper under the building’s refuse chute. In new construction involving a metal refuse chute, the chute will normally have been supplied in a configuration to feed directly into the compactor without modification or addition. In existing installations, a transition is generally required to interface the compactor hopper to the bottom delivery end of the building refuse chute.

This transition should be of all-welded construction to prevent refuse hang-up on exposed bolts. Use welded angle iron sections as corner elements and hang the component from the ceiling of the compactor room. If the transition is to be welded to the compactor hopper, brace the hopper as needed.

**2)** The compactor must be anchored. Mounting holes are in all legs of the compactor. The compactor must be installed on a level floor with the four legs on the same level plain. Use a level to check level. If necessary, place shims under the legs of the machine to level it to its final horizontal position.

NOTE: ½” expansion bolts can be used at each leg to anchor the machine with the bolts passing through the shims to prevent future slippage of the shims. If the holes permit larger bolts to be used, proceed with the larger size.

Leave adequate clearance around the unit for both service access and for ventilation.

**3)** All electrical work must be carried out in accordance with the National Electrical Code and all State and Local Electrical Codes. Electricians licensed in the area in which the installation is being made should perform the work. A 30 Amp, 3Ph/60Hz, 3-wire, fused disconnect is required for the compactor. This disconnect should be fused at 20 amps for a 208/220 volt connection and 10 amps for a 440/480 volt service. A 6 foot length of flexible cable is supplied with (4) 12 gage wire leads to be hooked up to the building power (three phases and a ground). The wall disconnect must be mounted within 6 feet of the hydraulic power pack. An **OPTIONAL** smoke detector is available which can be connected to the compactor control panel. If the system also has Electrically Interlocked Doors, the control can lock the floor panels in the event of fire.

**4)** The Power Pac provides the hydraulic power to the compactor. It includes motor, pump, valves and associated control. The system is self-contained and needs only a connection to incoming power, an adequate supply of a good grade, anti-wear hydraulic fluid, and the reconnection of the electrical umbilical cable that connects the PLC panel with the compactor. The hydraulic approach was chosen because it permits greater pressure to be exerted by the ram with more positive control using smaller power components.

**5)** Connect the hoses already attached to the compactor to the Power Pack. The system is designed for hoses 6 to 8 feet long. If additional length hoses are required, they should be ordered to length and not use fittings to join two hoses together. Additional length may also require the system pressure settings to be increased. If room temperatures below 60 degrees can be expected, the room must be heated. The hose with the wire tie connects to the fitting with the wire tie. Fill the Power Pack reservoir tank with hydraulic oil – AW32 or equivalent.

**6)** Engage the 30 amp wall switch. Using a non-metallic rod, carefully and momentarily press in on the button in the center of the motor starter. The motor should rotate in the clockwise direction when looking at the back of the motor. If rotation is in the opposite direction, **shut off power** at the wall disconnect and, **CAREFULLY, interchange** any two of the three main wires leading **from** the motor to the motor starter. This action will reverse direction of motor rotation.

### CAUTION

*Seven seconds after power is turned on to the control, the ram will begin to move to its home position.*

**7)** It may be necessary to bleed air out of the hydraulic system prior to normal operation. Place the system in Manual control. Use the *Right* and *Left Arrow* key to retract and extend the ram. Return to the START UP screen. Cover the photo eye with a rag to simulate compactor full. After a seven second delay, the unit will begin a compaction cycle. The ram will move to the forward position. After a 1 second delay the ram will retract. If the photo eye is blocked it will continue to cycle. Continue cycling the unit until all air has been force out of the system. A timer controls the length of time that the ram travels forward. If this time is set to too long the ram will reach the mechanical end of travel, pressure will increase and a high pressure

“COMPACTOR FULL” alarm will occur. If necessary, refer to the operation chapter to learn how to adjust this time.

**8)** If you suspect that the ram is moving in the wrong direction go to the display on the hydraulic power pack. Press the *Up Arrow* key to go to the manual control page. Using the *left and right arrow* keys you can **Extend** and **Retract** the ram. If the ram is moving in the wrong direction, reverse the hoses.

**9)** To connect the wheeled refuse container to the compactor, first shut off power to the system by pressing the Red E-Stop Button on the hydraulic power pack. Move the container’s open end over the open end of the compactor and engage the ratchet hooks into the container rings. Work the ratchet to bring the container to within ½” of the compactor. **Twist** the Red E-Stop pushbutton to return power to the system. Open the hopper shutoff by withdrawing the red Stop Rod.

**10)** There is an optional single lever design which is available when side access is at a minimum. Shut off power as before. Push the latching lever fully to the rear of the compactor to raise the latches. Roll the container against the compactor as close as possible. Draw the lever forward to latch the hooks on the container. Assure that the hooks are properly engaged. The lever is then locked by a cam protruding from the side of the compactor. Return power to the system.

### **THE COMPACTOR IS NOW READY TO OPERATE**

## **Chapter 3 - Operation**

The compactors are designed for loading and compaction of refuse into totally enclosed wheeled containers.

The specially designed refuse containers, into which refuse is delivered and compacted, are moved from the compactor and closed when full. They can then be rolled to an intermediate storage area or directly to the location where a trash truck can unload them.

The hopper on top of the compactor receives refuse from above and directs it into the compaction chamber. A photocell, directed horizontally across the lower portion of this chamber, detects refuse and initiates the ram action.

The hydraulically actuated ram is energized and driven forward for a controlled period to force the refuse into the wheeled container which is firmly attached to the compactor. This action gradually compacts the refuse in the container. The ram continues to travel back and forth, compacting the refuse against the material already in the container until the photo eye no longer detects refuse. The ram will stop in the retracted position. The cycle begins ten seconds after the photo eye continuously sees trash and ends when the photo eye is cleared, and the ram returns home.

When the container is packed to a pre-determined density, the compactor will return home and shut down automatically. The readout states “COMPACTOR FULL” indicating that the container needs to be switched.

Prior to operating a compactor, the hopper access door must be closed. An empty refuse container needs to be locked in place. The wall disconnect must be turned on. The red Emergency Stop pushbutton must be

“pulled out” to apply power to the controls. (Pull out means twist to release). If this is done properly the display on the front of the operator interface will light up.



On power up the unit displays the Model number of the unit – V20. It shows the peak pressure of the ram’s last move. The *Up Arrow* key will move the operator to Manual Control, while the *Down Arrow* will take the operator to Alarms. If there is an alarm present, the word ALARM will appear next to the Down Arrow.

### MANUAL CONTROL



The Manual Control screen will inhibit automatic motion. The pressure achieved during the last ram movement will be displayed and the operator can use the left and right arrow keys to extend and retract the ram. The ram can be jogged to any position with the resulting required pressure displayed. A high pressure alarm will inhibit ram forward. The ram can be retracted and then driven forward until high pressure is once again detected. If the ram is left in a forward position more than 5 minutes, it will automatically be driven home. There is a small square next to the word PHOTO. If the photo eye sees trash this will be a black square. An open square indicates that the photo eye is clear of trash. The *Up* key will take the operator back to the Start Up screen. After a 7 second delay, the ram will return to the full retracted position. If the photo eye sees trash, an automatic cycle will begin after an additional 10 second delay. The down arrow key will take the operator to the cycle count display.



A compactor should be serviced about every 15,000 cycles. The oil should be changed, and the photo eyes cleaned, and the alignment checked. The first line of this display shows the number of cycles since the last oil change. This counter is reset by touching the left arrow key. The second line displays the lifetime number of cycles. The maximum count is 9,999,999. At this point the counter will automatically reset to zero.

### ALARM DISPLAY

If there is an alarm present in the system, the startup display will show the word alarm next to a down arrow. Pressing the down arrow key will take the client to an alarm display. If he presses the down arrow key and no alarm is present the display will read NO ALARM. The UP key will return the operator to the startup screen.



The Top Line of the Alarm Display will have 1 of four messages:

No Alarm

Warning

“1” Reset Alarm

This type of alarm will not stop the compactor or interfere with optional electrically operated doors. The message will automatically clear at the end of the alarm condition.

This alarm will stop the compactor and inhibit the operation of optional electrically operated doors. The

alarm must clear, and the operator must acknowledge this alarm, "1", before the compactor will run.

Auto Reset                      This alarm will clear automatically.

The second line of the display will identify the nature of the alarm.

Auto Reset	Check Photo Eye -	The photo eye has not seen its reflector for more than 30 minutes. Check alignment and clean both reflector and photo eye. To prevent overheating the oil or the directional valve solenoid the alarm will shut the compactor down for 10 minutes. After this cool down the system will automatically restart.
Warning	Compactor 80%	Early warning – Garbage bin is getting full. This alarm will not stop the compactor. It can be reset by pressing the "1" Reset Alarm key. Or if left unattended will change to a COMPACTOR FULL alarm when the compactor is full.
"1" To Reset	Low Oil Level	Refill reservoir with AW 32 oil.
"1" To Reset	Compactor Full	Replace the container
"1" To Reset	Transducer Error	Either the transducer cable has been cut or the transducer has failed.
Auto Reset	Access Door Open	As this alarm will clear automatically after the door is reclosed.
Auto Reset	Motor Overload	The pump motor starter has tripped because of a current overload. Press the blue reset button on the overload to reset alarm.
Auto Reset	Oil Cool Down	Oil temperature has exceeded 185 degrees. The Compactor will shut down and automatically restart at the end of a 15 minute shutdown period. If the oil has cooled, the time can be aborted by pressing the "1" Reset key.
Auto Reset	Container Away	The compactor does not have a container attached.
Auto Reset	Through Door	The door mounted to the compactor is open or not aligned

**If more than one alarm is present the screen will scroll through all active alarms.** The UP ARROW key will return the operator to the startup screen.



## PASSWORD



Setpoint values for the system are protected by a Password Screen. This screen can only be accessed from the START UP screen. Press the 0 and the 7 keys while of the START UP display—**AND THEN RELEASE**. Nothing will happen until you take your fingers off the keys. The password can be obtained from your Chute Source representative. Type in the code and then press the “Enter” key. If this is done properly the serial number for the compactor will be displayed. If nothing happens press the UP ARROW KEY to return to the START UP screen and begin the process again.



In order to verify warranty and to ensure that proper replacement parts are supplied when required, each compactor is serialized. The serial number allows the manufacturer to track a specific compactor to a specific location.

The *Down Arrow* key will move the operator to the Pressure Setpoint display while the *Up Arrow* key will return the operator to the STARTUP display.



The maximum allowable pressure setting is 1600 PSI for high pressure and 1200 for low pressure. The *Up Arrow* key will take the operator back to Serial Number. The *Down Arrow* Key will allow him to adjust timer setpoints.



Ram Ext is the time in 1/100 of a second that the ram travels forward at the start of compaction. If the time is set too short, the compaction will not be maximized. If the time is set too long, the compactor will reach a mechanical stop and a high pressure COMPACTOR FULL alarm will occur.

The DOWN ARROW key allows the operator to determine what happens when the photo eye has been blocked more than 30 minutes.



The left and right arrow keys will toggle between “AUTO RESET” AND “MUST ACK”. “AUTO RESET” will allow the compactor to run for 30 minutes and then force a 10 minute cool down. Following the cool down, if the photo eye remains blocked, the compactor will be allowed to run for another 30 minutes. This protects the compactor from overheating resulting from a broken or misaligned photo eye. The “CHECK PHOTO EYE” alarm will automatically clear when the photo eye no longer detects trash but will not clear during the 10 minute cool down.

“MUST ACK” will shut down the compactor after a continuous 30 minute run cycle. The alarm must be acknowledged – “1” TO RESET. In a tall building, this could eliminate noise at night.

## **CHAPTER 4 – PERIODIC & PREVENTIVE MAINTENANCE**

Regular periodic attention coupled with a program of preventive maintenance will assure long-term, trouble-free operation.

**WARNING – NEVER SERVICE THE COMPACTOR UNLESS THE EMERGENCY STOP PUSHBUTTON IS DEPRESSED AND THE WALL DISCONNECT HAS BEEN MOVED TO THE OFF POSITION.**

*Daily, do the following:*

1. Clean the photocell reflector with a soft damp cloth
2. Clean the photocell lens itself with a soft damp cloth
3. Check the alignment of the photo eye.
4. Clean the compactor and power pack
5. Clean the compactor room itself
6. Check for hydraulic oil leaks
7. Check for broken or missing parts, worn or frayed cables and hoses.

### *Weekly Maintenance*

1. Check oil level in the hydraulic reservoir. If necessary, add oil (AW32)

### *Quarterly Maintenance*

The hydraulic fluid (oil) should be checked for water contamination every three (3) months. This check is carried out as follows:

1. Turn off the Power Unit for several hours before the test procedure.
2. Wipe off the top of the reservoir carefully. Absolutely no impurities should drop into the reservoir.
3. Remove the Breather Cap.
4. Remove a sample of the oil in the reservoir from the bottom of the tank. This is best done with a plastic tube and an aspirator bulb, which can siphon off the necessary sample.
5. Check the oil drawn out of the reservoir. If it has a milky white appearance, water is present in the fluid. If this is the condition of the fluid, the hydraulic system must be drained and flushed.

A compactor should be serviced about every 10,000 cycles. The first password protected display shows the number of machine cycles. The hydraulic oil should be drained, flushed and refilled with clean oil at least twice a year. While the reservoir is empty, the suction strainer should be replaced.

**NOTE:** A certified service representative should carry out this replacement and cleaning procedure.

## **CHAPTER 5 TROUBLE SHOOTING**

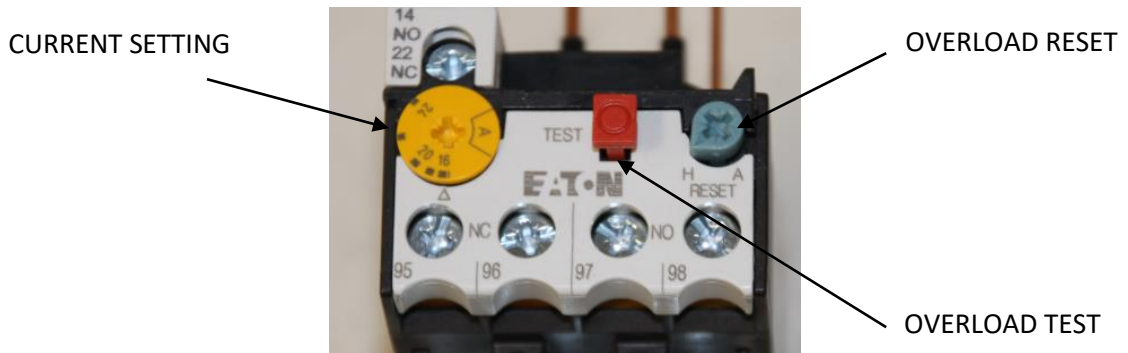
### *SYSTEM IS COMPLETELY DEAD. THERE ARE NO LIGHTS ON THE OPERATOR INTERFACE*

1. Check the Emergency Stop pushbutton. Twist to release
2. Check the fuses on the primary and secondary of the control transformer. The primary fuses are replaced with an LP-CC 3 and the secondary fuse with an FML-1.
3. Check the incoming power to verify that the fuses on the wall mounted 30 amp disconnect are not blown. Replace the fuse in a 208/220 volt system with 20 Amps. Replace the fuse in a 440 volt system with 10 amps. Do not over fuse.

**FUSES SHOULD ONLY BE CHECKED OR REPLACED WITH THE WALL SWITCH IN THE OFF POSITON**

### *MOTOR STARTER ALARM*

1. Check the fuses at the wall disconnect to verify that the incoming power has not been single phased.



2. Check that the current setting on the overload has been properly set for the incoming voltage. Refer to the nameplate on the motor for the proper setting. At 208 volts the setting will be approximately 16 amps while at 480 the setting will be approximately 10 amps.
3. Press the blue motor reset pushbutton.
4. Test the alarm by pulling out the red pushbutton to trip the overload. The display should read MOTOR STARTER.

#### *CHECK PHOTO EYE*

1. This alarm indicates that the photo eye has seen trash continuously for more than 30 minutes. Clean the photo eye and the reflector.
2. Check the alignment of the photo eye. The photo electric is polarized to prevent false readings on white boxes. There are three lights on the top of the unit. The green light indicates that there is power to the unit. The yellow light indicates that the output is turned on and the red light indicates that the unit is properly aligned. There is also a light/dark switch on the top of the unit. For the Chute Source compactor circuit, the switch should be in the "LO" position. When the unit is properly aligned all three lights should be on. When trash is blocking the photo's line of sight, only the yellow should be on.

#### *RAM DOES NOT COMPLETELY RETURN TO THE RETRACTED POSITION.*

1. In Manual control - extend and retract the ram. Watch the pressure readings while the ram is retracting. In normal operation the pressure will read between 350 and 550 PSI. Any reading higher than that will indicate that some refuse has gotten behind the ram and the system is compacting in both directions. The pressure reading will normally jump at the end of the stroke. This is because the ram will bottom out against the back of the compactor. Ignore the final pressure reading. The reading of interest is the reading while the ram is retracting. If enough trash has accumulated behind the ram the system will see high pressure during the retract cycle sooner than it should. This will shorten the retract position and probably result in a COMPACTOR FULL alarm on the next forward movement.

## COMPACTOR FULL ALARM

1. The system has seen excessive pressure before reaching the end of its forward motion. Check the Ram Ext time in the Set Up screens. It is possible the time is set too long allowing the compactor to reach its end of stroke. In this case the ram will be pushing against its mechanical limits giving the impression of a full container. Re-adjust the time and press the “1” key to reset the alarm.
2. Trash has built up behind the ram (see above). This will shorten the return stroke. The next forward stroke can then result in a COMPACTOR FULL alarm.
3. The container is full.
  - A. Reverse the ram several inches to relieve pressure on the refuse by pushing the *Left Arrow* key while in Manual. The ram will retract. Stop it by releasing the pushbutton. Press the E-Stop button to de-energize the control system.
  - B. Release tension on the ratchets until the container is free to move.
  - C. Pull the container free of the compactor. Close the lid at the end door of the container and move it out of the way.
  - D. Replace with an empty container.
  - E. Twist the emergency stop pushbutton to release and press 1” on the alarm screen to reset the compactor full alarm.

## CHAPTER 6 - SAFETY CONCERNS

The CP1/CP2-C5 compactor is an efficient machine, well designed for the purpose intended.

### HOWEVER - - -

As with any device of this nature, improper practices in its use or inadequate maintenance once in operation can result in injury to personnel and/or damage to the equipment. Both the potential injuries and the damage can be severe.

### ACCORDINGLY - - -

- 1) **Never try and service the compactor unless you have depressed the emergency stop pushbutton and opened the wall mounted disconnect.**
- 2) Never remove or modify any safety device.
- 3) Always disconnect and padlock power at the 30 amp wall disconnect. Do not rely strictly on the Emergency Stop pushbutton. This is a secondary safety device. It will stop the compactor from operating but there will still be 208 – 440 volt power in the control cabinet.
- 4) Never climb into or on to the compactor

- 5) Never over fuse. A 220/208 volt unit should be fused at 20 amps. A 440/480 volt unit should be fused at 10 amps.
- 6) Wear protective clothing including safety glasses, helmet and steel toe shoes when changing a dumpster or servicing the compactor. If the system is not protected by “Electrical Interlocked Doors” interfaced to the control system, glass and other materials can still be dropped down the collection chute.

**Compactor safety is addressed by two agencies. Below is a summary of their requirements.  
Occupational Health and Safety Act (OSHA) Appendix A**

OSHS (Occupational Health and Safety Act) is a stringent and specific set of requirements that affect practically every workplace in the United States. Specifically, Section 5 of the Act requires the following:

“Each employer -

(1) shall furnish, to each of his employees, a place of employment which is free from recognized hazards that are causing or are likely to cause death or serious physical harm to these employees.

(2) shall comply with occupational safety and health standards promulgated under this Act.

This obligation must be emphasized! It has been ruled that a violation of OSHA standards has been held to be evidence of negligence in a state court ruling against an employer for injury **even to a non-employee third person.**

### **ANSI Requirements (Z245.1 1984 and A12.1-1973)**

ANSI Standards (American National Standard Institute) clearly identify the standards of care and performance that the employer must follow, and that the employee should follow. The “stationary compactor” referenced in the following excerpts is typically the “apartment house” compactor - the CP1/CP2 compactors fall into this category.

### **Stationary Compaction Equipment**

*The employer shall be responsible for:*

1. Ensuring that the installation of stationary compactors is in conformance with local codes, ordinances and manufacturer’s recommendation.
2. Providing for instruction and training in safe methods of work to employees before assigning them to operate, clean, service, maintain or repair the equipment.
3. Monitoring the employee’s operation of stationary compactors and taking appropriate action to ensure proper use of equipment, including adherence to safe practices.
4. Repairing any mechanical malfunction or breakdown that effects the safe operation of the equipment.

5. Establish and follow a program of periodic and regular inspections and maintenance. This shall include keeping malfunction reports and records of inspections and maintenance work performed.
6. Protecting the operator at the point of operation, in the case of stationary compactors having a loading height of less than 42”.
7. Ensuring that stationary compactors equipped with automatic cycling controls are used only in locations where the charging chamber is not generally accessible while the compactor is cycling automatically.
8. Providing guard railings for dock rams in accordance with ANSI A12.1-1973. These shall be located around the charging chamber opening if walk-on ramps are used to deposit refuse into the charging chamber. Guard railings and toe boards shall be provided on the sides of walk-on ramps.
9. Make certain that the person or company engaged in servicing the compactor system is qualified to perform the work specified and understands and will adhere to all prevailing and related codes.

*The employee shall be responsible for:*

1. Using all applicable safety features provided on the stationary compactor.
2. Using stationary compactors only after being properly instructed and trained.
3. Reporting any damage to or malfunction of the compactor by submitting a report.
4. Ensuring that access doors, are closed and latched before operation may begin.
5. Ensuring that the area of operation around the container is clean and clear of persons.
6. The compaction Ram produces very large forces that may cause serious bodily injury or damage to property. Keep the compactor room locked. Be sure that no unauthorized person has access to the room and the equipment in it. Equip the door with a sign that warns unauthorized people to stay out.
7. Establish a formal record retention policy related to such things as products specifications, designs, drawings, inspection reports, service documents, suggestions, sales records, test reports, etc.
8. The compactor room should be used only for those purposes directly related to compaction operations and not to other activities such as service and other work performed for individual tenants on non-compaction system related activities. The compaction system should not be used in any manner or for any purpose not envisioned by the manufacturer.
9. Warn anyone authorized for compaction system access that they are not to put any part of their bodies (hands, arms, feet, etc.) into the compactor or hopper while power is on. When servicing the unit make sure that the wall 30 amp switch is in the “Off” position and has a safety padlock.

The Emergency Stop pushbutton will also kill control power to the compactor. Use this as a secondary safety when servicing the machine. The Emergency Stop will stop compactor motion, but it does not



shut off the 208/440 volt power in the control cabinet. For this reason, Emergency Stop should only be used as a secondary safety.

**10.** If the system includes electrical door interlocks that are interlocked with the compactor panel, removing power from the compactor will lock the floor panels. Otherwise, tenants can drop trash down the chute while the trash bins are being serviced.

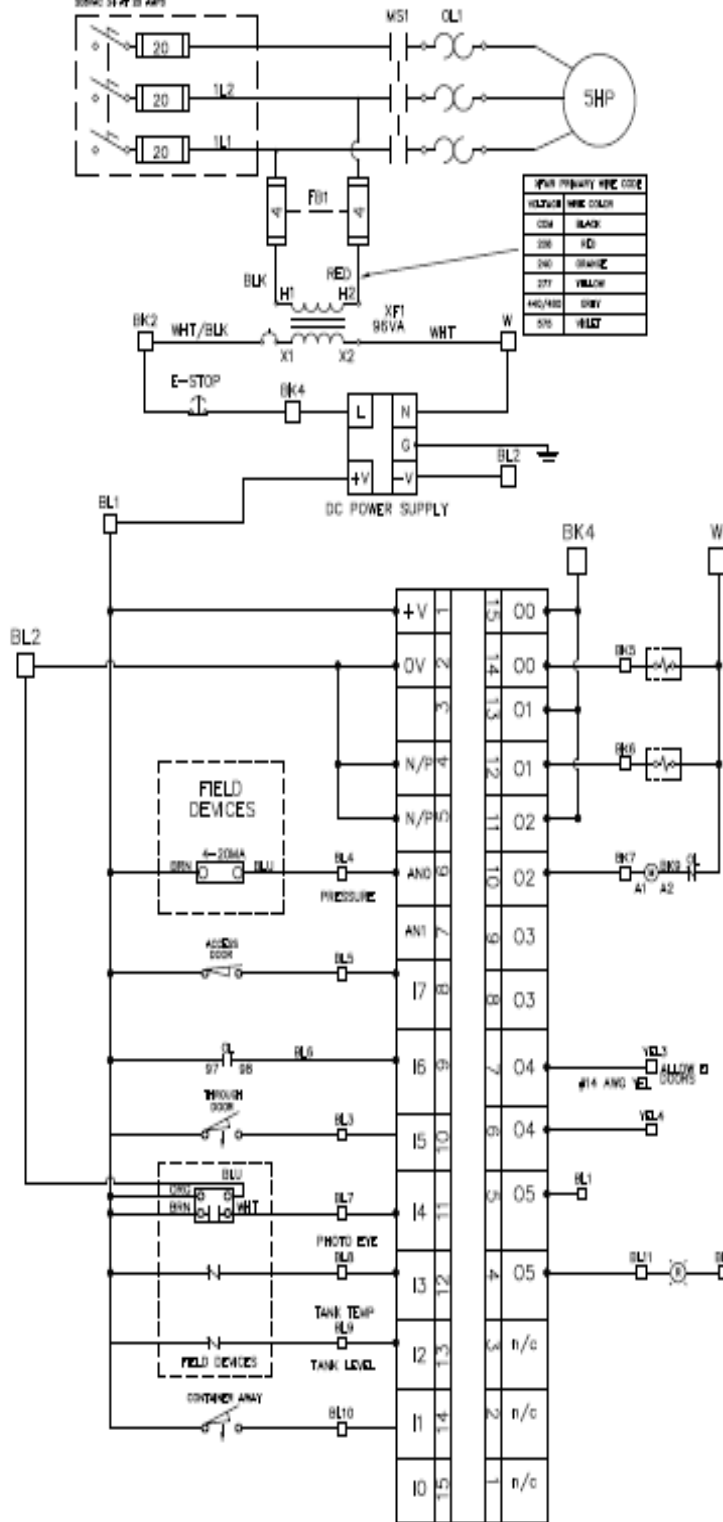
Because of the danger from falling glass, always wear safety glasses, gloves, and a hard hat when servicing the compactor.

**11.** If an electrical circuit is fused with a fuse of higher rating than the circuit initially incorporated, a serious hazard to life and property may develop.

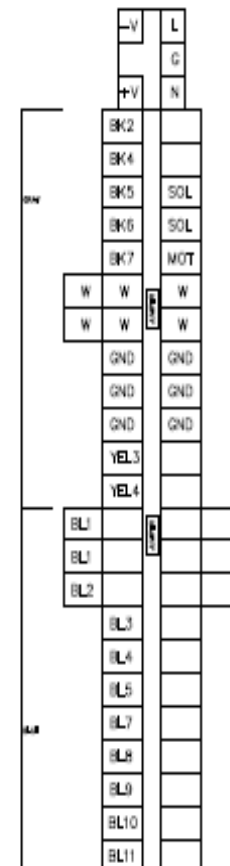
**12.** Do not permit modifications to the compactor system without first advising the compactor manufacturer and service organizations, in writing, as to reasons for the modification.

**13.** Check for wear of components once a week. Inspect for frayed and worn hoses and replace questionable hoses if wear is noted or suspected.

DISCONNECT AND WIRE  
 BEFORE CARRYING OUT  
 ANY REPAIRS TO THIS UNIT  
 TO PREVENT ELECTRIC SHOCK



WIRE COLOR	WIRE CODE
004	BLACK
006	RED
008	ORANGE
010	YELLOW
012/013	GRAY
014	BLUE



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