



Compactor Operating, Installation and Maintenance Manual

Compactors by BWE
1808 Norwood St. SW
Lenoir, NC 28645
828-726-3001

Upon installation and initial operation of any BWE Compactor, it is the responsibility of the customer to read the contents herein and properly train all employees subjected to operation/use of the BWE Compactor/s and all safety standards, operation guidelines contained within this manual.

Revised 01/31/2026

Bakers Waste Equipment is proud to introduce BWE Compactors, a brand representing years of innovation, field-tested quality, and peak performance. Our dedicated team, from engineering to service, delivers superior products backed by industry-leading support. Thank you for choosing BWE for your waste removal needs.

COMPACTOR SAFETY RULES



WARNING: IF INCORRECTLY USED, THIS EQUIPMENT CAN CAUSE SEVERE INJURY. COMPACTOR IS TO BE OPERATED ONLY BY AUTHORIZED FULLY TRAINED QUALIFIED PERSONNEL 18 YEARS OF AGE OR OLDER WHO ARE AWARE OF THE DANGER AND FOLLOW THESE SAFETY RULES. 16- & 17-YEAR OLDS MAY ONLY LOAD THIS COMPACTOR!

1. ALL SAFETY GUARDS AND COVERS MUST BE IN PLACE PRIOR TO STARTUP OR OPERATION OF THE COMPACTION EQUIPMENT.
2. BE SURE THE CONTAINER IS PROPERLY POSITIONED AND SECURELY LATCHED TO THE COMPACTOR BEFORE STARTING THE COMPACTOR.
3. MAINTAIN DOCK RAMP POINT OF OPERATION AND THE WORK AREA SURROUNDING THE STATIONARY COMPACTOR CLEAR OF REFUSE, GREASE, OIL OR WATER.
4. DO NOT PUT FLAMMABLE, EXPLOSIVE OR HAZARDOUS MATERIALS IN MACHINE.
5. BE FAMILIAR WITH ALL CONTROLS OF THE MACHINE I.E., KNOW LOCATION, FUNCTION AND OPERATION OF ALL SWITCHES.
6. DO NOT HANDLE OR TOUCH THE CONTROLS WITH WET HANDS OR IN DAMP ENVIRONMENT, IN FREEZING WEATHER, MAKE SURE CONTROLS ARE FREE OF ICE BEFORE OPERATING.
7. BEFORE ACTUATING THE CONTROLS BE CERTAIN THAT ALL INDIVIDUALS ARE CLEAR OF THE CHARGING CHAMBER, HOPPER OR PINCH-POINT AREAS.
8. WEAR SAFETY GLASSES/GOGGLES WHEN OPERATING COMPACTOR.
9. NEVER REACH INTO OR ENTER THE CHARGING CHAMBER UNLESS THE PRESCRIBED LOCKOUT MEASURES HAVE BEEN TAKEN TO PREVENT ACCIDENTAL STARTUP.
10. TO PREVENT OPERATION BY UNAUTHORIZED PERSON REMOVE KEY FROM CONTROL PANEL KEY SWITCH OR PADLOCK THE MASTER DISCONNECT SWITCH WHENEVER THE COMPACTOR IS NOT IN USE.
11. FULLY RETRACT PACKER RAM BEFORE UNLOCKING CONTAINER.
12. STAND CLEAR OF TAILGATE SWING AREA WHEN CONTAINER IS BEING REMOVED.
13. REPORT ANY DAMAGE TO, OR MALFUNCTION OF, THE STATIONARY COMPACTION EQUIPMENT TO THE RESPONSIBLE AUTHORITY, DO NOT CONTINUE OPERATION IF THE DAMAGE OR MALFUNCTION JEOPARDIZES SAFE OPERATION. BE SURE ALL SAFETY DEVICES ARE OPERATING CORRECTLY.
14. BEFORE ANY MAINTENANCE WORK IS BEGUN, TURN MAIN DISCONNECT SWITCH TO "OFF". PADLOCK THE MAIN DISCONNECT AND ATTACH AN APPROPRIATE WARNING TAG, E.G. "WARNING: DO NOT ENERGIZE WITHOUT PERMISSION OF _____". NEVER ENTER AREA BEHIND PACKER RAM OR CHARGING CHAMBER WITH ANY POWER SWITCH ON.
15. THE POWER UNIT OPERATES ON HIGH VOLTAGE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.
16. THE HYDRAULIC SYSTEM WHICH POWERS THE COMPACTOR IS HIGHLY PRESSURIZED, NEVER CHECK FOR LEAKS USING YOUR HANDS. IF INJURED BY HYDRAULIC LINES, RELIEVE HYDRAULIC PRESSURE BY BACKING OFF THE CYLINDER OR ACTUATOR UNTIL THE EXTERNAL LOAD IS RELIEVED. WHEN CONNECTING THE LINES, BE CERTAIN THAT ALL CONNECTIONS ARE TIGHT. DO NOT EXCEED HYDRAULIC PRESSURE SETTINGS.
17. IF EQUIPPED WITH SIDE OR END TIPPER, STAY CLEAR OF ANY MOVING PARTS OR POTENTIAL PINCH-POINTS WHILE UNIT IS IN OPERATION.
18. IN THE EVENT OF A FIRE IN THE CONTAINER:
 - A. CALL FIRE DEPARTMENT.
 - B. RUN PACKER RAM FORWARD (TO CLOSE OPENING INTO BOX).
 - C. CLOSE ANY CHUTE DOORS.
 - D. TURN OFF POWER AT MASTER DISCONNECT SWITCH.
 - E. BE PREPARED TO AID FIRE DEPARTMENT IN REMOVING CONTAINER.



Table of Contents

	Page
I Safety	
Operating Safety Statement.....	1
ANSI 245.2-2004 Guidelines.....	2-4
II Installation	
Installation And Cement Pad Specifications And Anchoring.....	5, 6
Description Of Fused Disconnect, Push-Button Stations, Hydraulic Hook up.....	7, 8
Wire Size Chart.....	9
Amp And Disconnect Fuse Chart.....	10
III Compactor Operation	
Start Up Procedures.....	11
Optional Electrical Components And Description.....	12
S100/S125 Receiver Attachment Procedure.....	13-16
IV Fabricated Options	
Description And Guidelines.....	17
V Decals	
Description Of Decals.....	18
VI Lockout/Tagout Procedures	
Instructions.....	19
VII Owner/Employee Responsibilities	
ANSI 245.2-2004 Guidelines.....	20-24
VIII Maintenance	
Procedures.....	25
Procedures For Return Of Effective Parts.....	26-27
IX Warranty Policy	
BWE Warranty On Compactors.....	28-29
X Trouble Shooting Charts	30- 32
XI Directions For Settings On TECO Controller-Manual	33-36
XII Proximity Switch Wiring Diagrams	37-38



I Safety

Operation Safety Statement

Your compactor has been designed and manufactured with safety, quality, performance, and value of ownership as its benchmark. All our employees are immensely proud and honored to present this product to you. At BWE, we take pride in the manufacture, quality control, premier coating process, final preparation, and testing of each unit prior to it leaving our facility going to the customer's location.

We strongly suggest that everyone involved in the installation, operation, and/or maintenance of this unit should read and be aware of all instructions, procedures, and warnings contained herein. **Very Important:** *Anyone who engages in the operation and/or maintenance of the compactor should read and become aware of the following published safety standards:*

ANSI No. Z245.21-2008 "Compactor Safety Requirements"

A copy may be obtained from the WASTEC website at:
www.wastec.org or by calling (202) 244-4700

and

OSHA 29 CFR, Part 1910.147, "The Control of hazardous energy (Lock out-Tag out)"

A copy may be obtained from the OSHA website at:
www.osha.gov

IMPORTANT NOTICE:

PROPER INSTALLATION, OPERATION, MAINTENANCE AND REPAIR ARE ALL AN INTEGRAL PART OF THE SAFE OPERATION OF ALL STATIONARY COMPACTORS. OPERATION, MAINTENANCE AND SERVICE PROCEDURES ARE DESCRIBED IN OUR SERVICE MANUAL AND IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THAT ALL RESPONSIBLE INDIVIDUALS ASSOCIATED WITH THESE PROCEDURES ARE EXPOSED TO THE CONTENT OF THE SERVICE MANUAL. ONLY FACTORY TRAINED AND AUTHORIZED SERVICE PERSONNEL, WHO ARE TRAINED IN THE USE OF SPECIAL TOOLS AND SAFETY PROCEDURES ARE ALLOWED TO SERVICE OR MAINTAIN THIS EQUIPMENT. ANYONE WHO DOES NOT FOLLOW THE SERVICE AND SAFETY PROCEDURES OR USE THE SPECIAL TOOLS RECOMMENDED BY BAKERS WASTE EQUIPMENT ASSUMES ALL RISK TO PERSON, EQUIPMENT AND PROPERTY.

If you have additional safety concerns or questions about the compactor operation or maintenance, please feel free to contact us at:

Bakers Waste Equipment, LLC.

1808 Norwood St. SW

Lenoir, NC 28645

1-828-726-3001

-1-



The following sections of ANSI Z245.2-2008, Compactors-Safety Requirements for Installation, Maintenance and Operation are reprinted with permission by the Environmental Industry Association and the Waste Equipment Technology Association (WASTEC)

Bakers Waste Equipment fully supports and strictly adheres to the foregoing policies. We strongly recommend that you take the time to review these procedures and implement them into your organization for the safe operation of the compactor.

5.11 Container/Cart Lifting Systems

5.11.1 General

1. **5.11.1.1** Container/cart lifting systems for stationary compactors shall be installed in accordance with the manufacturer's instructions.
2. **5.11.1.2** Controls for container/cart lifting systems, except for those stated in 5.11.3, shall be of the sustained-manual-pressure type, and located outside the area of operation of the lifting system and container, such that the operator is in direct line of sight of the lifting operation and cannot activate the controls while standing under a raised container.
3. **5.11.1.3** Safety check valves in the hydraulic system or mechanical lock systems shall be provided to hold the lift in its position should a failure occur with a lifting system hydraulic hose.
4. **5.11.2 Container/Cart Lifters**

5.11.2.1 Lifters for containers or carts provided with compactors, or marketed separately and recommended by the manufacturer for use with the compactor, shall conform to the following requirements:

- a) The lifter must be compatible with the type(s) of container/carts it is to cycle.
NOTE: If an operator attempts to use a lifter to cycle containers/carts for which it was not designed, this may result in an unsafe condition or damage to the container/cart.
- b) A minimum cycle time for the lifter shall be specified, and the lifter cycle time shall be capable of being adjusted only by the use of a tool.
- c) Upon release of pressure on the operating device by the operator, the lifter shall stop and hold at its current position in the cycle.
- d) The control shall be capable of reversing the direction of motion of the lifter at any point in the cycle.
- e) Controls shall be located so as to prevent inadvertent operation of the lifter.
NOTE: There may be more than one set of controls.
- f) The normal position for an operator using the controls shall not place the operator underneath a raised container or cart;
- g) Control levers shall be marked to indicate function. Vertically positioned controls shall be designed such that they are pulled to raise and pushed to lower.
- h) Push button controls shall be arranged with the "raise" button higher than the "lower" button and shall be marked to indicate function.
- i) The lifter shall be equipped with a device to secure the container/cart to the lifter during the lifting cycle.



5.11.3 Automatic Container/Cart Lifting Systems

1. 5.11.3.1 Automatic container/cart lifting systems shall have the point of operation and area through which the container moves completely enclosed by guards, a cage, or other similar devices with interlocked access that prevent entry, or operation when not in place.
2. 5.11.3.2 Automatic container/cart lifting systems shall have an emergency stop control. (see 5.7.2 regarding location of the emergency stop control.)

5.12 Continuously Operating And Unattended Stationary Compactors With Automatic Startup — additional safety features

5.12.1 Start-up alarm

1. 5.12.1.1 Continuously operating compactors and unattended compactors with automatic startup shall have a start-up alarm that is audible and visible for at least 5 seconds beginning with activation of the switch controlling the automatic starting control circuit (such as a "Manual/Off/Auto" function control) to the starting of the compactor.
2. 5.12.1.2 The audible alarm shall be a pulsing or intermittent signal, and it shall be adjustable to at least 10 dBA above the ambient noise level. An automatically adjustable audible signal shall be capable of producing at least 10 dBA above the ambient noise level.
3. 5.12.1.3 The visible alarm shall be a flashing or pulsating light.
4. 5.12.2 Start-up time delay

1. 5.12.2.1 Continuously operating compactors and unattended compactors with automatic startup shall have a minimum time delay of 20 seconds from the time of activating the switch controlling the automatic starting control (such as a "Manual/Off/Auto" function control) until the automatic starting control circuit is energized and the compactor cycles.
2. 5.12.2.2 For continuously operating compactors, the switch shall be held in the actuating position for the entire 20-second delay in order to energize the automatic starting control circuit. If the switch controlling the automatic starting control circuit is released before the end of the 20-second delay period, the automatic starting control shall not be energized.
3. 5.12.3 Warning Alarm

5.12.3.1 Continuously operating compactors and unattended compactors with automatic startup shall have a visible warning alarm that is activated as long as the automatic starting control system is energized or the main motor is running.

NOTE: The warning alarm may be the same alarm used for the start-up alarm in 5.12.1



5.12.4 Emergency Stop Controls, Interlock Interrupts, and Automatic Starting Control Circuits

1. **5.12.4.1** When actuated, emergency stop controls shall stop the compactor motor and disable any automatic starting control circuit. (See 5.12.5)
2. **5.12.4.2** For compactors with automatic starting control circuits, the compactor shall not automatically restart when the emergency stop control is reset. The compactor shall not restart until the automatic starting control circuit has been manually reset (energized) to initiate a normal startup sequence with startup alarm and startup time delay.
3. **5.12.4.3** For compactors with automatic starting control circuits, the compactor shall not automatically restart when the access door or gate is closed (interlock re-engaged). The compactor shall not restart until the automatic starting control circuit has been manually reset (energized) to initiate a normal startup sequence with startup alarm and startup time delay.

5.12.5 Automatic starting control circuit

1. **5.12.5.1** The automatic control circuit shall be de-energized when power is removed from the compactor.
2. **5.12.5.2** For compactors with automatic starting control circuits, the compactor shall not restart automatically when electrical power is reapplied. The compactor shall not restart until the automatic starting control circuit has been reset (energized) to initiate a normal startup sequence with startup alarm and startup time delay. (See 5.12.2)

5.12.6 Discharge lockout device for continuously operating stationary compactors

1. **5.12.6.1** A key lock switch shall be provided within sight of the discharge end of a continuously operating stationary compactor to prevent the inadvertent activation of the compaction cycle when the discharge end is not visible from the operator station.



II INSTALLATION

Very Important

Please take the time to review the following with regard to installation instructions. All BWE Compactors are designed to comply with industry standards and requirements for safety and user friendliness. Our compactor design adheres to all UL, ANSI, and OSHA standards. It is the responsibility of the customer to make sure all installation requirements are met and in compliance with the aforementioned standards. Bakers Waste Equipment does not assume responsibility for the installation of equipment, except in cases where Bakers Waste Equipment has been contracted to install the customer's compactor. Compliance with local ordinances, state and federal laws concerning installation is the sole responsibility of the customer.

Cement Pad

Stationary Compactor Pad:

1. Pad parallel to a building: Minimum clearance between the unit and the building is 3' (ft)
2. Pad perpendicular to building: Minimum clearance between the unit and the building is 2' (ft). If desired, the placement of bollards will further protect against potential damage to the building.
3. Pad within enclosures: A recommended minimum pad is 12' (ft) wide x 40' (ft) long. A clear gate opening of 10' (ft) is recommended.
4. It is recommended that ALL units be placed on a cement pad with a minimum dimension of 10' (ft) wide x 40' (ft) long. Units that have a combined length of more than 33' (ft) may consider taking the total length then adding 6' (ft) for a total overall length dimension. Units equipped with side dumping carts or hoppers may require a width greater than 10' (ft). It is preferred that a cement pad meets the same grade level as the surrounding grade. However, if cement pads are raised, they MUST have a sufficient slope in order to accommodate the unrestricted access for the roll off truck to pick up the container. Containers equipped with four ground rollers should always be on a level pad.
5. The pad thickness should be a minimum of 6" (inches) x 3,000 PSI reinforced cement or equivalent fiber-reinforced concrete.

Self-Contained Compactor Pad:

1. Pad parallel to the building: Minimum clearance between the unit and the building is 3' (ft).
2. Pad perpendicular to building: Minimum clearance between the unit and the building is 2' (ft). If desired, the placement of bollards will further protect against damage to property.
3. Pad within enclosures: A recommended minimum pad is 12' (ft) wide x 35' (ft) long. A clear gate opening of 10' (ft) is recommended.
4. It is recommended that ALL units be placed on a cement pad with a minimum dimension of 10' (ft) wide x 35' (ft) long. Units equipped with side dumping carts or integrated cart dumping systems may require both a width and length greater than the 10' (ft) x 35' (ft) pad. It is preferred that cement pads meet the same grade level as the surrounding grade. However, if cement pads are raised, they must have a sufficient slope in order to accommodate the unrestricted access for the roll off truck to pick up the unit.
5. Self-contained compactors have 4 ground rollers. *It is especially important that the unit be installed on a level pad. Failure to comply could result in damage to property and/or possible personal injury.*
6. The pad thickness should be a minimum of 6" (inches) x 3,000 PSI reinforced cement or equivalent fiber-reinforced concrete.



Anchoring to Cement Pad

Stationary Compactors:

1. Position compactor into final location. Make sure unit is level, using shims if needed. *DO NOT leave space between cement pad and anchor pad.* Use shims if needed. This could cause twisting of the frame and damage to the unit.
2. A ¾" x 6" anchor bolt is recommended. Anchor pads are located at each corner of the compactor. Position the compactor in its final location. Drill to a depth of 6" or all the way through the concrete. Insert anchor bolt into the hole. Make sure the unit is flush with the cement at all 4 corners and level. Finish by making sure all anchor bolts are tightened.

Self-Contained Compactors with Guide Island:

1. It is recommended that the guide island be anchored prior to moving the self-contained compactor into position.
2. Place the guide island onto the pad, centering on the pad and placing the stops no closer than 2' (ft) from the end of the pad. Once positioned, drill a hole for the anchor bolt at one of the positions at the stop end. Insert anchor bolt into the hole. Once secured, only hand-tighten the nut.
3. Next, re-position guide to the exact position and drill a hole in the opposite end and place anchor in hole. Follow same procedure as in para. 3. Fully tighten the nut and go back and do the same to the first anchor that was put in.
4. Drill to a depth of 6" or all the way through the concrete. Fully tightened all nuts.
5. Now the unit is ready to move into position for final hook-up.



Hydraulic and Electrical Components

Important

A fused disconnect with a lockable ON-OFF switch, furnished by the customer, must be installed within line of sight and no more than 50 (ft) (15m) from the main control box.

The control panel box contains high voltage components. Only authorized service personnel should attempt to open the panel door and work on the components.

Always follow lock out/tag out procedures when working on the compactor

Stationary & Self-Contained Compactor Power Units:**Remote Power Pack with Push Buttons on Main Control Box**

1. Move power unit to a position that is clearly marked with safety lines or bollards in order to prevent damage to the power unit.
2. An electrical power disconnect must be located within the sight of, and no more than 50' (ft) (15m) away from the main control box.
3. The Push Button Controls on the control box need to be within "line of sight" of the compactor hopper, and within 3' (ft) of the point of operation, material feed area or if chute fed, within 3' (ft) of the access door, and clearly accessible for the operator/s of the compactor.
4. CAUTION: If the Emergency Stop Button which is located on the Main Control Box face does not meet the criteria set forth in the above paragraph 3, then a second Emergency Stop Button should be added to meet the criteria.
5. PACKING OF COMPACTOR POWER UNITS: All compactors are shipped with the hydraulic hoses and remote electrical harnesses coiled around the power unit with the weather cover closed over them. This is to protect the hoses and harnesses during shipping only. The entire length of the hoses and harness should be completely removed from the power unit during installation. In the event the power unit has to be transported after installation, the hoses and harness should be re-coiled around the power unit for transportation.
6. STATIONARY COMPACTORS: Hydraulic hoses should have a clear unobstructed path from the compactor to the remote power unit. There should be NO sharp objects or abrasive surfaces around the hydraulic hoses. This could cause unnecessary wear. Hoses should be secured to the compactor frame using conduit style clamps. Hoses should be mounted so that they are protected from abrasion during use. Hoses which are mounted to the concrete surrounding the compactor should be done so they do not create a trip hazard. Connect hoses to the correct marked port.
7. SELF-CONTAINED COMPACTORS: Hydraulic hoses should have a clear unobstructed path from the compactor to the remote power unit. There should be NO sharp objects or abrasive surfaces around the hydraulic hoses. This could cause unnecessary wear. Hoses should be secured to the concrete, dock, etc. using conduit-style clamps. When connected to the compactor the hydraulic hoses should hang loosely, with minimal stress on the fittings. Under no circumstances should hoses have to be pulled on or stretched to make the connections of the quick connect fittings. If possible, a method of hanging the hoses when they are disconnected from the compactor should be provided. This will keep the disconnects off the ground, eliminating the possibility of hydraulic oil contamination and corrosion of the quick connectors.
8. Once the above criteria have been met, the remote power unit needs to be secured and anchored down with a min. of 4 ea. -1/4" x 3" anchor bolts.
9. A check of the terminal connections and all component connections within the control panel should be done prior to running power to the motor starter. Inspect all hydraulic connections to ensure proper hook up.
10. Run power feed from fused disconnect to motor starter in control panel box. (Customer responsibility to supply the disconnect) All wiring should adhere to local electrical codes.
11. **DO NOT attempt to start the unit until instructions on page 11 have been followed.**



Remote Power Unit with a Remote Push Button Station

1. Follow procedures outlined in paragraph 1, 2, 3 in previous section.
2. CAUTION: If the Emergency Stop Button which is located on the remote push button station does not meet the criteria set forth in paragraph 3, then a second Emergency Stop Button should be added to meet the criteria.
3. THROUGH THE WALL INSTALLATION: *(It is the responsibility of the customer to make sure all local codes are met with this type of installation)*
Disconnect the wires on the push button control station at the terminal inside the control box. (Make sure the wire color / number matches up with the terminal color / number) Make sure that the distance for the sealite is correct for reconnect to the terminal once the push button station is mounted inside the building. Mount the push button control station.
4. ALL OTHER INSTALLATIONS: Make sure the distance to the mount point is correct. A predetermined length of sealite is provided. Mount the push button control station to the face plate provided or another acceptable mount. Once the above criteria have been met, the remote power unit needs to be secured and anchored down with a min. of 4 ea. -1/4" x 3" anchor bolts.
5. CAUTION: Always mount the remote-control station in a position so that it is not vulnerable to forklifts or carts of any type.
6. PACKING OF COMPACTOR POWER UNITS: All compactors are shipped with the hydraulic hoses and remote electrical harnesses coiled around the power unit with the weather cover closed over them. This is to protect the hoses and harnesses during shipping only. The entire length of the hoses and harness should be completely removed from the power unit during installation. In the event the power unit must be transported after installation, the hoses and harness should be re-coiled around the power unit for transportation.
7. STATIONARY COMPACTORS: Hydraulic hoses should have a clear unobstructed path from the compactor to the remote power unit. There should be NO sharp objects or abrasive surfaces around the hydraulic hoses. This could cause unnecessary wear. Hoses should be secured to the compactor frame using conduit style clamps. Hoses should be mounted so that they are protected from abrasion during use. Hoses which are mounted to the concrete surrounding the compactor should be done so they do not create a trip hazard. Connect hoses to the correct marked port.
8. SELF-CONTAINED COMPACTORS: Hydraulic hoses should have a clear unobstructed path from the compactor to the remote power unit. There should be NO sharp objects or abrasive surfaces around the hydraulic hoses. This could cause unnecessary wear. Hoses should be secured to the concrete, dock, etc. using conduit-style clamps. When connected to the compactor the hydraulic hoses should hang loosely, with minimal stress on the fittings. Under no circumstances should hoses have to be pulled on or stretched to make the connections of the quick connect fittings. If possible, a method of hanging the hoses when they are disconnected from the compactor should be provided. This will keep the disconnects off the ground, eliminating the possibility of hydraulic oil contamination and corrosion of the quick connectors.
9. Once the above criteria have been met, the remote power unit needs to be secured and anchored down with a min. of four. -1/4" x 3" anchor bolts.
10. A check of the terminal connections and all component connections should be done prior to bringing power to the motor starter.
11. Run power feed from fused disconnect to motor starter in control panel box. All wiring should adhere to local electrical codes.
12. **DO NOT attempt to start unit until instructions on page 11 have been followed.**



WIRE SIZE CHART

THW Copper 75°C (165°F)

LENGTH of WIRE RUN**3 PHASE
MOTOR
SIZE**

VOLTAGE	TO 100'	TO 200'	TO 300'
3 HP	208 10	8	
	230 12	10	8
	460 12	12	12
5 HP	208 10	6	4
	230 10	8	6
	460 12	12	10
10 HP	208 6	4	2
	230 8	4	3
	460 12	10	8
15 HP	208 6	3	1
	230 6	3	2
	460 10	8	6
20 HP	208 4	1	1/0
	230 4	2	1
	460 10	8	6
30 HP	208 2		
	230 2		
	460 8		

SINGLE PHASE

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

**AMP and DISCONNECT FUSE CHART**

A fused disconnect with a lockable ON-OFF switch, furnished by the customer, must be installed within line of sight and no more than 50 (ft) (15m) from the main control box of the compactor. The fused disconnect should be sized according to the chart below.

MOTOR SIZE	SPEED RPM	VOLTAGE	FULL LOAD AMPS	FUSED AMPS
3 HP	1750	208	10.3	30
	1750	230	9.4	25
	1750	460	4.7	15
5 HP	1750	208	15.8	40
	1750	230	14.4	30
	1750	460	7.21	20
10 HP	1750	208	27.5	40
	1750	230	26	40
	1750	460	13	30
15 HP	1750	208	45	60
	1750	230	42	60
	1750	460	21	30
20 HP	1800	208	56.3	100
	1800	230	51.2	100
	1800	460	25.6	60
25 HP	1750	208	75	110
	1750	230	68	100
	1750	460	34	60
30 HP	1760	230	76	110
	1760	460	38	60

SINGLE PHASE MOTORS

3 HP	1750	208	17	40
5 HP	1750	208	30.8	60
		230	28	50
10 HP	1750	208	43	110
		220	40	90

IMPORTANT: Installation sites with Single Phase, that use a Roto Phase Converter, must use a min. of a 100 AMP Fuse Disconnect.



Disclaimer: All power sources must be verified to supply the correct Voltage shown above with regard to each motor shown i.e., power supply (Single or 3 Phase) & Amp draw. Low or high-power supply voltage can result in the lack of proper operation and/or damage of the indicated motor (Voltage, Amp) shown!

BWE is not responsible for the failure to provide adequate power source, wire size and is not responsible for additional expense incurred as a result of not providing or indicating adequate power supply prior to installation of a BWE Compactor!

III COMPACTOR OPERATION

Start-up Procedures

Caution: Only a trained, authorized representative from Bakers Waste Equipment, or a qualified service, distributor, or waste hauler organization, should perform the startup.

1. Check the hydraulic reservoir to make sure it is filled to $\frac{3}{4}$ level on the sight gauge. If it needs filling, use premium grade hydraulic oil AW32, low-sudsing with a viscosity of 150 SSU at 100 F.
2. Check and make sure all fuses in the fused disconnect are properly rated to carry the required voltage to operate the compactor. (See Chart on Fuses and Circuit Breaker on page 10)
3. Make sure the motor is wired correctly to meet the power source voltage.
4. Make sure all personnel are clear of the charge box area.
5. Once verified that all is clear switch the fused disconnect to the "ON" position.
6. To start compactor, insert key into start switch and turn.
7. Verify proper motor rotation. The motor should rotate clockwise when viewed from fan end.
8. If reversed, simply stop the unit. PUT THE FUSED DISCONNECT SWITCH IN THE "OFF" POSITION. Then reverse L1 & L2 lines.
9. Once corrected, put the fused disconnect switch to the "ON" position and repeat step "6".

CONTROLS FOR COMPACTORS

Push Button Control Station

The push button control station can be supplied separately from the control panel box with random lengths of sealite as well as integrated on the front panel of the control box.

Emergency Stop: Red Mushroom style button. When depressed, this cuts off ALL power to the compactor unit. If there is a jam, simply follow the instructions below for Hand operation.

IN CASE OF EMERGENCY:

PUSH THE LARGE RED BUTTON TO STOP THE UNIT OPERATION

Key Locked Auto Start Button: Insert the key and turn to auto start. To reverse simply follow the same steps as forward, except the key position must be turned to reverse.

Key Locked FWD/REV: Same instructions as Key Locked Hand/Auto Button



Optional features:

(These features may have been ordered and put on your unit. Please take the time to review the appropriate feature)

1. **80% Light:** Lights when the container is approximately 80% full. Depending on volumes allows you 24 hours to schedule a pick-up on your container. Sometimes a bridge or jam might have occurred in the container. Simply cycle the machine 3-4 more times empty. This will clear the bridge or jam. The light will stay on until the 100% light activates and the container is emptied or hit the E-stop button to reset the light and restart.
2. **100% Light:** Lights when the container is 100% full. When this light is activated, the unit stops running. It is time to schedule a pick-up and have your container emptied, before operating the unit. The unit will re-set the lights when the container is emptied, and the E-stop button is hit.
3. **Hold To Run Button:** This feature is designed for the operator to depress and hold the "Start" and "Hold to Run" button at the same time in order for the machine to operate. Releasing the buttons will automatically stop the unit.
4. **Access Interlock:** This feature is on all gates, doghouse doors, security chute doors. It is a required safety feature that ensures the non-operation of the unit while the access is opened.
5. **Photoelectric Eye:** This feature is installed in order for the unit to detect the level of volume inside the unit and automatically begin cycling. The photo eye is normally mounted inside a doghouse or load enclosure.
6. **Start-up Alarm:** This feature is required for all units that have a automatic start-up, such as PhotoElectric eye. It will be audible and visible for at least 5 seconds beginning with the start of the unit.
7. **Oil Heater:** This feature is installed for protection against the unit not working in extreme cold weather temperatures due to thick oil.
8. **Jog Control Station:** This feature is installed for the hauler or maintenance personnel to operate the unit remote from the inside controls. The station is mounted on the unit and by-passes the inside controls once the key is inserted and switched to "ByPass". The driver or maintenance personnel can then move the press head into the forward position. This will prevent the materials that are fed into the compactor from spilling onto the ground while the container is being emptied.
9. **Oil Temperature Shutdown Switch:** This feature is installed to prevent damage to the hydraulic components in the event of extreme high oil temperatures.
10. **Low Oil Shutdown:** This feature is installed to prevent damage to hydraulic components in the event of extremely low oil levels.



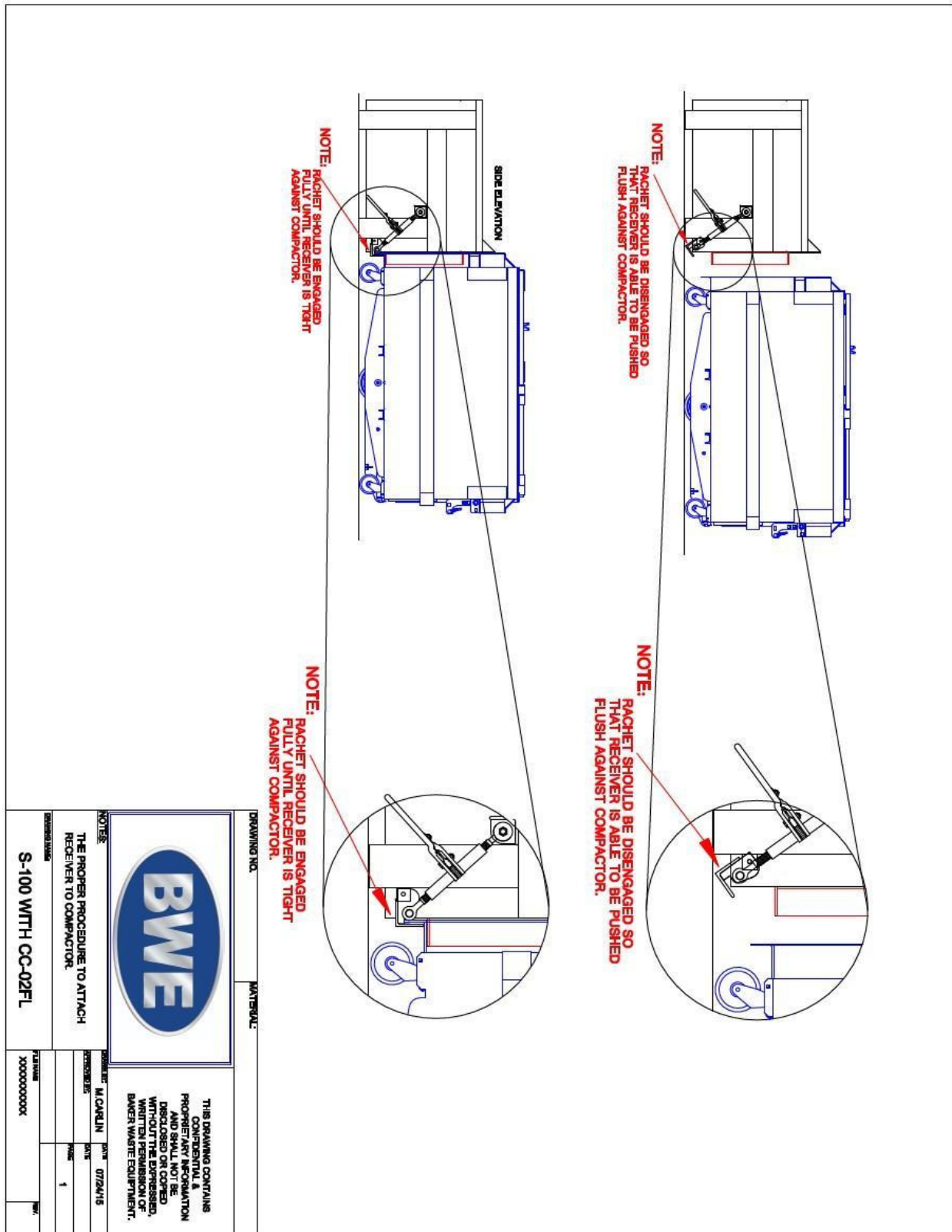
Receiver Attachment Procedures

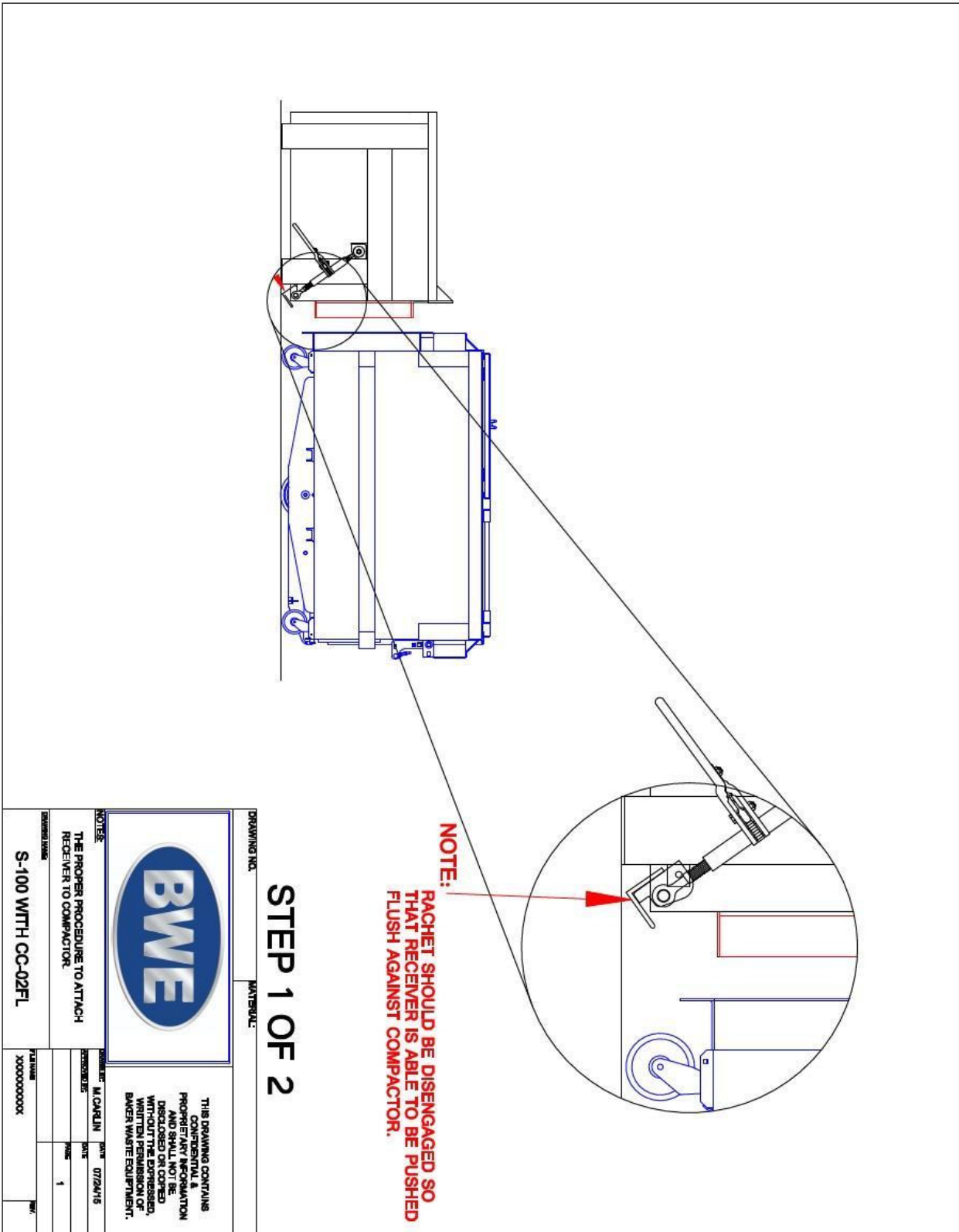
Caution:

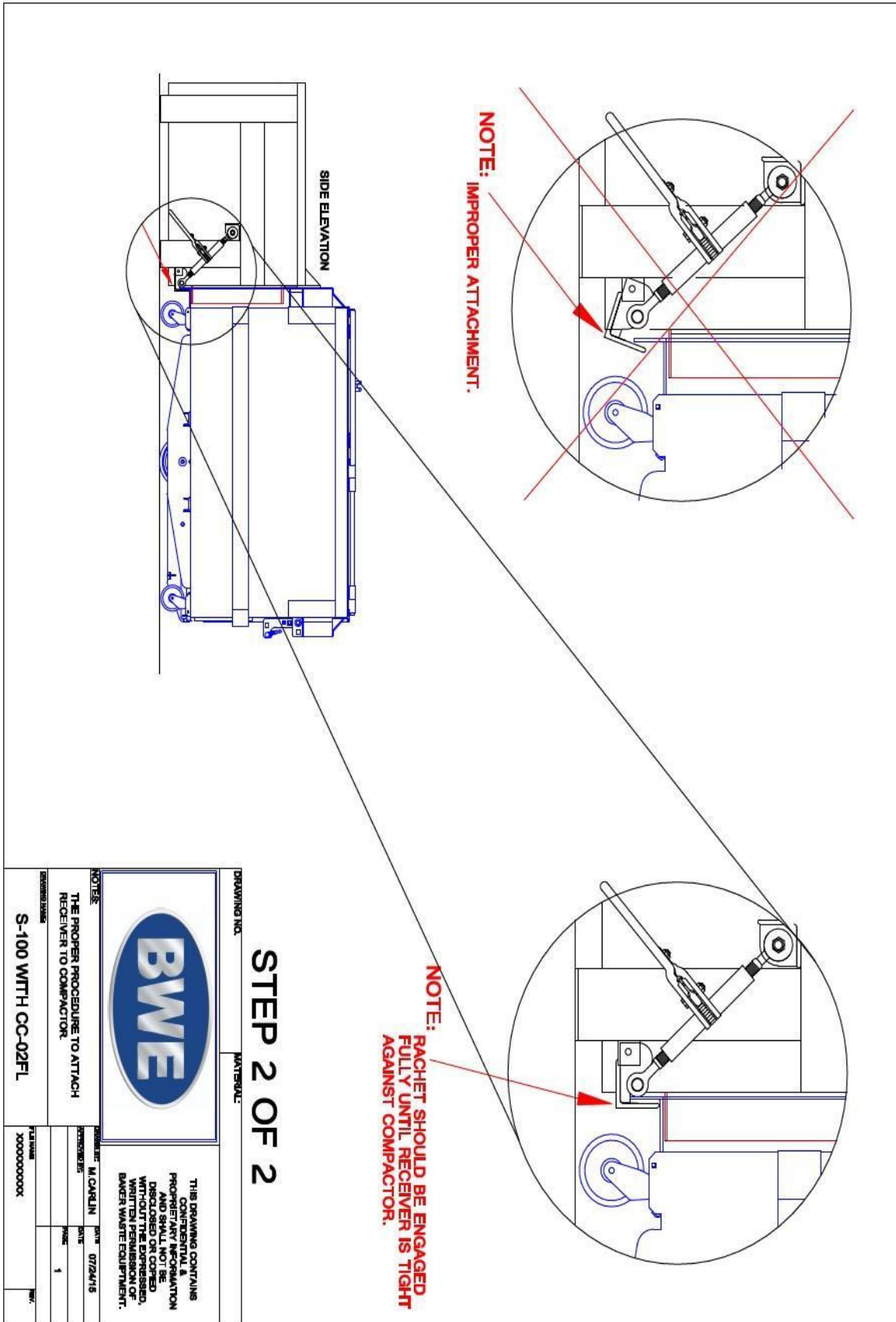
All BWE compactors are designed to be used with a corresponding refuse receiver. While there are many different manufacturers of refuse receivers, it must be verified that the receivers to be used are compatible with the BWE compactor ordered. Use of incorrect receivers can result in poor compactor performance and will increase the risk of personal injury during operation. Please consult a BWE salesman for verification of refuse receivers.

1. Position the receiver to be used in front of the compactor ram opening.
2. -Note that S-100 compactors require a receiver with a 31.5" W x 25.5" T opening AND a 3" connecting flange.
- Note that S-125 compactors require a receiver with a 36.5" W x 25.5" T opening AND a 3" connecting flange.
3. Check that the locking flange of the latching is lowered into the disengaged position. (See Fig. 1)
4. Roll the receiver into position, engaging the compactor snout into the receiver opening.
5. Push receiver fully forward so that connecting flange on receiver makes contact with the flange on the compactor (See Fig. 2).
6. Using the ratchet mechanism on the latch, raise the locking flange up so that the receiver is in contact with the compactor. The locking flange should be parallel to the floor (Fig. 3). If the compactor is equipped with a green engagement light, this light will be lit, indicating the latch is in its proper position. If the light is not lit, the compactor will not operate.
7. The compactor should never be operated with improper attachment as shown in Fig. 4. Equipment damage and personal injury can occur.
8. To remove receiver, reverse the above procedure. Care should be taken when disengaging the receiver as it is extremely heavy and will be difficult to control.

Important: Prior to engaging or after removing the container, always check the angle locking mechanism on the compactor for debris, damage, etc. Failure to remove debris, or operate with a damaged locking mechanism, can result in improper engagement, personal injury, or property damage.









IV Fabricated Option Installations

All fabricated options that are built by Bakers Waste Equipment comply with all safety specifications and requirements. At the customer's request they can be delivered either attached to the compactor or shipped separately. All optional components, whether shipped attached or separately should not be altered in any way. Altering any component will void any warranty associated with the fabricated option or with the operation of the compactor, both hydraulic and/or electrical. This applies to the option only if it was integrated in any way in the electrical/hydraulic operation of the compactor.

Stationary/Self-Contained Compactors:

1. Side Feed hoppers—If hoppers are shipped separately, pre-drilled holes have been provided for assembly to the main frame of the compactor. Each bolt must be fastened securely. Failure to properly bolt to frame may result in a voided warranty.
2. Rear Feed Hoppers (4 sided or Dock Feed, 3 sided with hinged gate and interlock) – If hoppers are shipped separately, pre-drilled holes have been provided for assembly to the main frame of the compactor. Each bolt must be fastened securely. Failure to properly bolt to frame may result in a voided warranty.
3. Dock Installation w/gate, interlock and walk-on/drive on ramp—Gates are designed to promote safety first. They are integrated with the compactor operation with an interlock device, meeting all safety standards, which will not allow the compactor to run with the gate open. Alteration of this device will void any warranty claims. Walk-on/Drive-on ramps should be ordered, taking into consideration of dock heights, and the need for transition plates. Failure to account for these measurements and the need for a transition plate resulting in additional cost will be the responsibility of the customer.
4. Chute Fed: This type of installation can be through a wall, framed dock door, etc. All loading heights should be a minimum height of 42". Most feed openings in the wall, door, etc. should be a minimum of 40" x 40" depending on the size of the compactor. Self-contained compactors will require a break-a-way design. It is the customer's responsibility to follow local ordinances with respect to aesthetics, local ordinances, codes, sanitation requirements (Self-Contained units) etc.
5. Weather enclosures—At the customer's request, Bakers Waste Equipment may provide weather enclosures. It is the customer's responsibility to address all local ordinances with respect to aesthetics, litter, etc.
6. Container Guides –Bakers Waste Equipment recommends that container guides be used on Stationary Compactor installations with chute feed applications and others where property damage may occur as a result of the compactor being moved due to unnecessary force while off-loading the container. BWE recommends that all Self-Contained compactors use 6ft to 10ft guides with stops.

Pre-Set Ratchet Hinges

Some compactor receivers are ordered with adjustable hinges, noted by each hinge being mounted to an adjustable ratchet mechanism. The hinge ratchets are pre-set at the factory to prevent waste from escaping from the receiver during use. Because of this, the hinge ratchets should never be adjusted during the process of opening and closing the door. Doing so may result in waste seepage from the container or damage to the door or seal may occur.



V WARNING DECALS

In accordance with ANSI Z245.21-2008 all Bakers Waste Equipment Compactors are shipped with warning and instruction decals located in the proper locations. It is the customer's responsibility to make sure all decals remain legible and in their original location. If decal becomes damaged or not legible, please contact BWE for replacement decals.

Decal Replacement Order Numbers:

#bwe-041	Stationary Compactor
#bwe-42	Danger-High Voltage: 208 volts
#bwe-43	Danger-High Voltage: 230 volts
#bwe-44	Danger-High Voltage: 460 volts
# bwe-45	WARNING: THIS COMPACTOR STARTS AUTOMATICALLY
# bwe-46	WARNING: DO NOT REMOVE ACCESS COVERS EXCEPT FOR SERVICING: FOLLOW LOCKOUT/TAGOUT PROCEDURES
# bwe-47	DANGER: DO NOT ENTER
# bwe-48	WARNING: GATE MUST BE CLOSED BEFORE OPERATING COMPACTOR
# bwe-49	A port
# bwe-50	B port
# bwe-51	WARNING: BEFORE OPENING DOOR (COVER) TURN CONTROL PANEL KEY SWITCH TO OFF POSITION, REMOVE KEY, AND BLOCK OFF TRASH CHUTE, FOLLOW LOCKOUT/TAGOUT PROCEDURES
# bwe-52	WARNING: WHEN CHANGING CONTAINER OR REPOSITIONING TRANSFER VEHICLES, TURNKEY SWITCH TO OFF POSITION AND REMOVE KEY. FOLLOW LOCKOUT/TAGOUT PROCEDURES.
# bwe-53	WARNING: STAND CLEAR WHEN TAILGATE OR CONTAINER IS IN MOTION AND DURING UNLOADING.
# bwe-54	WARNING: BEFORE OPERATING LIFTER, CLEAR AREA OF ALL INDIVIDUALS
# bwe-55	DANGER: STAY CLEAR OF LIFTER AND LIFTING AREA
# bwe-56	WARNING: FOLLOW LOCKOUT/TAGOUT PROCEDURES BEFORE ENTERING
# bwe-57	DANGER: CONFINED SPACE
# bwe-58	WARNING: DO NOT REMOVE COVER EXCEPT FOR SERVICING. FOLLOW LOCK OUT TAG OUT PROCEDURES



VI LOCKOUT / TAG OUT PROCEDURES

IMPORTANT

Prior to performing a service call, routine maintenance that requires entry into the unit charging chamber, entry through the access panel, back panel, top cover plate, entry into a security chute or any work on electrical, mechanical, hydraulic, pneumatic, chemical, thermal or any other potential energy source where the unexpected energization or startup of equipment, or release of stored energy could cause personal injury, a lockout/tagout procedure must be followed. Please refer to ANSI Z245.21-2008 and OSHA requirements for lockout/tagout.

INSTRUCTIONS FOR LOCKOUT/TAGOUT PROCEDURE:

1. If the press head is in the forward position against a load move the press head to the rear position, shutting the unit down.
2. Go to the fused disconnect and move the lever to the OFF position.
3. Padlock the lever with keyed lock and take the key with you.
4. Place a visible sign or tag that is legible on the disconnect handle or lock. It must be placed, not in a position where it could fall or be knocked off. (Recommend a wire strap attached to the lock throat in the locked position) The tag should indicate a Warning such as: Danger: Do not operate equipment or attempt to turn on power. Person working on equipment. NOTE: A sign with similar wording should be placed on the control station located near the unit.
5. After locking and tagging the compactor, attempt to start the compactor with the control station in order to verify the effectiveness of the lockout/tagout procedure. If it is a key lock push button station take the key with you.
6. Hydraulic: Relieve all hydraulic energy by manually depressing the solenoid valve pin located at the end of the solenoid valve. (This should only be done by an authorized, qualified technician.)
7. Electrical: The panel box contains high voltage components. (Only an authorized, qualified technician should attempt to work inside the control box)



VII OWNER/EMPLOYER RESPONSIBILITIES

The following sections of ANSI Z245.2-2008, Compactors-Safety Requirements for Installation, Maintenance and Operation are reprinted with permission by the Environmental Industry Association and the Waste Equipment Technology Association (WASTEC)

5.726 **Operator and employee responsibilities.** Operators who work on and around the compactor shall be responsible for the items listed below:

- 5) Using all applicable safety features provided on the compactor.
- b) Using the compactor only after receiving instruction.
- c) Reporting any damage to, or malfunction of, the compactor by submitting a report to the employer or responsible authority when the damage or malfunction occurs.
- d) Ensuring that access doors and service opening covers are in place, secure, and/or locked before operations begin.
- e) Ensuring that the area of operation around container/cart lifting systems and the container will be clear of persons during all phases of the lifting operation prior to energizing the dumping system.
- f) Ensuring that all persons are clear of the compactor point of operation before actuating any compaction cycle controls or container/cart lifting system controls and being prepared to stop the compaction cycle or container dumping operation if necessary.
- g) Ensuring that all persons are clear of the tailgate (on compactor-container combinations so equipped) before the tailgate is opened or shut. The operator should warn all persons not to cross behind or under an open tailgate.
- h) Using the stationary compactor in accordance with the manufacturer's instructions, including ensuring the proper position of all locks, doors, guards, etc.
- 5) Ensuring that no one disables or bypasses safety interlocks, switches, or other protective devices and that the compactor is not operated unless these devices are fully functional.
- j) Locking out the unit when inspecting malfunctions, jams, or other problems arising from daily operations; servicing; or performing maintenance (except maintenance testing). The affected employee shall identify the type and magnitude of the energy that the compactor uses, shall understand the hazards and know the methods to control the energy (see 7.3).
- k) Coupling and securing a compatible container to a compactor frame as specified by the compactor and container manufacturer(s).
- l) Operating, inspecting, and maintaining the compactor only if 18 years old or older and after being properly instructed and trained; and
- m) Loading, but not operating, the compactor only if 16 years old or older.



7.3 Procedures for the control of hazardous energy sources (lockout/tag out)

5.726.3010 The owner/employer shall have a hazardous energy control (lockout/tag out) procedure to follow when performing servicing and maintenance on stationary compactors where the unexpected energization or start up of equipment, or release of stored energy could cause injury to employees.

5.726.3010 The owner/employer shall utilize the instructions provided by the manufacturer for the control of hazardous energy sources. The lockout/tagout procedure shall isolate and render safe all energy sources, including electrical, mechanical, hydraulic, pneumatic, chemical, thermal or other potential energy sources (e.g., gravity, etc.). It shall be used to ensure that the compactor is stopped, isolated from all potentially hazardous energy sources and locked out before employees perform any service or maintenance where the unexpected energization or start-up of the compactor or release of stored energy could cause injury.

5.726.3010 The lockout/tag out procedure shall include but is not limited to the following:

- 5) Shutting down all power sources.
- b) Removing keys or other devices that enable the compactor.
- c) Installing a tag on an appropriate location, using a non-reusable fastener, or installing a similar warning device.
- d) Placing operating components in such a position so as not to be subject to possible free fall and/or installation of additional blocking devices to prevent such free fall of any raised or elevated component; and
- e) Relieving stored hydraulic or pneumatic pressure, after blocking devices are installed, if maintenance is to be done to the hydraulic or pneumatic system.

5.726.3010 The procedure shall address the following:

- 5) Sequence of lockout for the compactor:
 - 5) Notify all affected employees that servicing or maintenance is required on a compactor and that the compactor must be shut down and locked out to perform the service or maintenance.
 - 2) 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) If the compactor is operating, it must be shut down by the normal stopping procedure (depress stop button, open switch, close valve, etc.).
 - 4) De-activate the energy isolating device(s) so that compactor is isolated from the energy source(s).



5) Lock out the energy isolating device(s) with assigned individual lock(s).

6) Stored or residual energy must be dissipated or restrained by methods such as grounding, repositioning, blocking, bleeding down, etc.

7) Ensure that the compactor is disconnected from the energy source(s) 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.

Caution: Return operating control(s) to neutral or "off" position only after verifying the isolation of the equipment.

NOTE: The machine or equipment is now locked out.

b) Restoring the compactor to 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:

5) Check the machine or equipment and the immediate area around the machine or equipment to ensure that nonessential items have been removed and that the machine or equipment components are operationally intact.

2) Check the work area to ensure that all employees have been safely positioned or removed from the area.

3) Verify that the controls are in neutral.

4) Remove the lockout devices and re-energize the machine or equipment.

NOTE: The removal of some forms of blocking may require re-energizing of the machine before safe removal.

5) Notify affected employees that the servicing or maintenance is completed and the machine or equipment is ready for use.

8 Safety and training program

5.726 General

5.726.3010 Employers shall evaluate and manage safety issues related to the operation of compaction equipment as part of their safety program.



5.726 **Safety program**

5.726.3010 The employer's program shall include at a minimum the following elements:

- 5) A hazard assessment in which the employer conducts a review of the various types of compaction equipment which the employer utilizes, and the hazards associated with them and,

review and assess the capabilities, qualifications and training of any person who may potentially encounter these hazards.

b) An evaluation of the means and methods of controlling the hazards identified in the hazard assessment, including information such as industry and regulatory requirements; instructions for the operation, inspection, and maintenance of stationary compactors, and other appropriate information to the hazards that are identified

c) A written program, based upon hazard assessment and evaluation, to include procedures for the operation, inspection, and maintenance of stationary compactors, prohibited practices, record keeping, training requirements, and normative references to documents, such as operating manuals, that are relied upon and may be required as part of that program;

d) A program, conforming to 8.2, for the implementation of the written program; and

e) Periodic review and program revisions as necessary to ensure the effectiveness of the safety program.

5.726 **General training**

5.726.3010 Employers shall ensure all employees, including supervisors, contract laborers, and all other persons

engaged in the operation, cleaning, maintenance, service or repair of compacting equipment are properly trained appropriate for their assigned jobs and tasks. Contractors who may be engaged to operate

or

maintain the employer's compactors shall be advised of the unique hazards related to the equipment that may affect the activities in which the contractor's employees will engage.

5.726.3010 **Training frequency**

5.726.3010.1 Training shall be provided upon initial assignment to a job or task, with periodic refresher training to maintain the required level of competence. Retraining shall be provided for employees whenever their job assignments change, or an equipment change occurs that presents a new hazard. Additional retraining shall be provided whenever the employer has reason to believe, or periodic inspections reveal that employee deviations from procedures have occurred, or inadequacies in the employee's knowledge of procedures become evident.



5.726.3010 **Instructional information**

5.726.3010.1 Employers are required to refer employees to, and have readily available, the manufacturer's instructions to ensure correct operating and maintenance procedures and work practices are understood and followed. Employers are required to ensure employees possess knowledge and skills to safely operate the stationary compactor.

5.726.3010 **Contract labor**

5.726.3010.1 Employers shall ensure for each job or task performed that training is provided either by the contract laborer's parent employer or by the employer.

5.726.3010 **Training records**

5.726.3010.1 Employers are required to maintain training records to include the date(s) of the training and the type of training received. Records are required to be maintained as required by applicable regulations. Contractors and contract laborers are required to provide the employer with appropriate training records upon demand.

8.3.6 Equipment-specific training

5.726.3010.1 Training shall be tailored for individual operations and the type of equipment utilized including detailed, equipment-specific training for machine operators, as well as maintenance personnel and supervisors who must operate equipment as part of their job duties. Training shall include practical demonstration of equipment operation knowledge and skills by the employee, as appropriate to the requirements of the employee's job duties.

5.726 **Training requirements**

5.726.3010 Training is required to include at a minimum:

- 5) The necessary training as identified in the hazard assessment [see 8.2.1 a)];
- b) The training required by laws and regulations, such as those of federal and state Occupational Safety and Health Administrations, the Departments of Transportation, and other applicable regulatory agencies; and
- c) Operational instruction on each specific type of equipment used by the employee, including the instructions provided with the equipment.



VIII MAINTENANCE

Warning: Before entering any part of the compactor, attached hopper, chute, conveyor or weather enclosure make sure all Lockout/Tagout procedures are followed.

Suggested Maintenance Schedules:

Maintenance checks should only be performed by a qualified technician, qualified distributor or qualified hauler.

Bi-annual or Annual:

1. Inspect around and under compactor for debris accumulation. To clean remove the labeled access cover if needed, and clean debris from inside and underneath unit.
2. Check all hydraulic hoses for leakage and/or wear. Always check where the hoses rub on the ground, against metal objects or through a building wall for wear. Replace any hoses that show signs of chafing, cracking or compression damage (non-round or flattened). Damaged hoses not only affect machine performance but are also a safety hazard. Always replace hoses with hoses approved for hydraulic usage only. Hoses must be equipped with crimped-on hose ends.
3. Check pivot pins of cylinders. Pins must be held in place with either a washer/cotter pin lock, or a teardrop/bolt lock. To prevent corrosion in corrosive environments. Remove lock and slide pin out, grease pin and replace pin. Inspect pin for wear and replace if grooving is evident on pin. A grooved pin will cause cylinder misalignment and excessive noise during operation and will cause the hydraulic cylinder to fail prematurely.
4. Inspect cylinder seals for excessive leaking. If leaking is evident, inspect shaft for scoring. Replace cylinder if necessary. Cylinders are not field serviceable and should be replaced as a complete unit. Self-Contained (SC) hydraulic cylinders should be replaced in pairs only!
5. Inspect charge chamber. Chamber walls and floor should be smooth and have no significant galling or scoring. If scoring is present, use a framing square to check squareness of ram face to side wall. Ram guides should be straight and firmly secured to side wall of charge chamber. Charge chamber floor and side walls should be greased with a general-purpose grease such as Chevron Multifak EP2.
6. Inspect the machine for loose guards, hopper panels, and machine related components. Any machine which has damaged guarding should immediately be shut down and locked out.
7. Check for exposed wires, motor / pump coupling alignment and wear, sealite joints, etc.
8. Check all external components for proper function i.e., photo-electric eye, remote pin-off station.
9. Check all door latches to ensure proper function. Any machine which meets ANSI requirements through electronic guarding must be tested to ensure the guarding is in proper operating condition.
10. Check turnbuckles for ease of operation. (This should only be done when the container is detached from the compactor) (DO NOT DETACH TURNBUCKLE FROM CONTAINER, ONLY PERFORM THIS PROCEDURE WHEN THE HAULER HAS PICKED UP THE CONTAINER FOR TRANSPORT TO A DISPOSAL FACILITY). Turnbuckles should be greased using a grease gun. Each grease fitting should receive 3 pumps of grease from a grease gun.
11. Check hydraulic oil level. (should show $\frac{3}{4}$ full in the sight gauge) If oil is low, replace with recommended oils. If milky white replace oil. Change oil filter. If dark, please call BWE service department or a qualified service technician.
12. Check sight gauge for leaks, cracks, etc.
13. If equipped, check operation of oil heater or cooler. High temperature or low temperature shut off switches should be tested for correct operation.

Recommended Hydraulic Oil:

AW-32 or lighter in mild / average weather locations. Dextron ATF is recommended in extreme cold weather locations.



PROCEDURES FOR WARRANTY CLAIMS FOR DEFECTIVE PARTS:

ALL THE FOLLOWING PROCEDURES MUST BE FOLLOWED ON ALL PART RETURNS DURING THE WARRANTY PERIOD. FAILURE TO COMPLY WITH THE FOLLOWING PROCEDURES WILL ABSOLVE BAKERS WASTE EQUIPMENT OF SUCH CLAIMS. (SEE ATTACHED WARRANTY POLICY)

Motors:

1. Once checked by a qualified technician and determined that no problem exist with fuses or wiring, then call BWE Service Department to notify us of the problem with the product model and serial number, verify your warranty period and receive a warranty authorization number. We will then direct you to the nearest factory authorized motor diagnostic/repair facility.
2. If the factory facility determines that it was a factory defect, then the factory facility will replace the motor at no charge.
3. If it is determined that the motor was not due to a factory defect, then it will be the customer's responsibility to replace the motor.
4. BWE is not responsible for pick-up and delivery charges to the factory facility.

Hydraulic Cylinders:

1. Once checked by a qualified technician and determined that there is a problem with the cylinder, then call BWE Service Department to notify us of the problem with the product model and serial number, verify your warranty period and will receive a warranty authorization number.
2. BWE will at that time ship out a replacement cylinder from BWE or the cylinder manufacturer. Shipment will be normal freight rate unless specified different by customer. For shipments other than normal freight, i.e. overnight, the determination of payment will be solely made by BWE.
3. The customer is responsible for shipment of the defective cylinder, within 30 days, to BWE to determine the final warranty status.
4. In the event the cylinder is not received within the allotted time frame, then the customer will be billed the total amount of the replacement cylinder plus S & H.

All other parts:

1. Once checked by a qualified technician and determined that there is a problem with the part, then call BWE Service Department to notify us of the problem with the product model and serial number and verify your warranty period and will receive a warranty authorization number.
2. BWE will at that time ship out a replacement part from BWE or authorize the customer to purchase the part from an authorized distributor, factory warehouse. Shipment will be normal freight rate unless specified different by customer. For shipments other than normal freight, i.e. Overnight, the determination of payment will be solely made by BWE.
3. It is the customer's responsibility to ship the defective part back to Bakers Waste equipment at BWE's discretion.
4. Upon shipment of the replacement part the customer will be billed for the part. Upon receipt of the defective part and upon examination of the defective part, it is found to be defective, the customer will be credited the amount billed for the replacement part.
5. The credit will only be issued if the defective part is returned to Bakers Waste Equipment within 30 days.
6. All labor and travel will be paid per BWE's flat rate schedule. The work required to replace any part must first be authorized by Bakers Waste Equipment.



The invoice from the customer must be itemized to include model, serial number of unit, work performed, BWE warranty authorization number, location of equipment, labor hours & mileage.

Flat Rate Schedule for Labor and Mileage:

1. In all cases of replacement of parts or repair of structural components the customer is required to call in to BWE Service Department for a "Warranty Authorization Number". In cases where the work has begun and will exceed the Flat Rate Schedule more than 5% of the original estimate, it will be required that you contact the Service Department for approval. In cases where the hours exceed the original flat rate schedule and/or work not authorized with a Warranty Authorization Number, that claim on the excess will be denied. NO CREDIT will be allowed for labor hours spent in the inspection or diagnosis of equipment problems.
2. In cases of structural repair by welding, re-fabrication or modification of an existing design, an authorization must be obtained from the BWE Service Department prior to work. The request must have the model number, serial number, brief description or drawing of work to be done.

Caution: Only factory original replacement parts or equivalent should be used to ensure proper operation of equipment.

FAILURE TO COMPLY WITH ALL THE ABOVE PROCEDURES WILL VOID ALL WARRANTY CLAIMS



Manufacturers Product Warranty and Claim Procedures

(Revised February 10th, 2026)

Bakers Waste Equipment, LLC warrants all products sold to be free from defects in materials and workmanship under normal use for **3 Years Structural, 2 Years Parts and 1 Years Labor** from the date of delivery or customer pick up.

All products must be qualified to have been used as designed for the application while being serviced as required by trained and qualified personnel.

Bakers Waste Equipment, LLC reserves the right to determine if materials, parts, or workmanship have been damaged or compromised due to misuse, neglect, accident, or alteration.

Warranty claims must first be approved by **Bakers Waste Equipment, LLC** prior to any repair, replacement, or reimbursement.

This warranty shall not cover any loss of product, production, labor, or any other consequential damages incurred as a result of the equipment failure.

This warranty is the only applicable warranty for all products manufactured by **Bakers Waste Equipment, LLC**, and to the fullest extent permitted by applicable law, **Bakers Waste Equipment, LLC** disclaims all other representations and warranties, expressed or implied, with respect to its products including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement.



Warranty Claim Procedure:

1. **Bakers Waste Equipment, LLC.** Must first be made aware of the failure for approval and course of action to correct or resolve the issue. An identifying serial number, order number, and / or invoice number will be needed to certify the warranty claim.
2. Subsequent steps to correct or resolve the warranty claim will be qualified, approved, and at the sole discretion of **Bakers Waste Equipment, LLC.**
3. All warranty work done by a company or person other than **Bakers Waste Equipment, LLC** must be qualified and approved by **Bakers Waste Equipment, LLC**
4. Warranty response will be done in a timely manner as required by the nature of the failure.

Warranty As Relates to Specific Product Groups and Parts:

- All new steel refuse or recycling containers have **3 Years Structural, 2 Years Parts and 1 Years Labor** warranty coverage from the date of delivery or customer pick up.
- Roll Off Tub Containers are loaded and delivered nested which may cause surface scratches that do not affect the structural integrity and are not covered under warranty.
- All new compactor products **3 Years Structural, 2 Years Parts and 1 Years Labor** warranty coverage from the date of delivery or customer pick up. (Note compactors are warrantied based on normal use which is defined as intermittent operation for up to 16 hours per day and 7 days per week)
- Power Units specified for single phase power will need a phase converter to 3 phase or a special motor / pump configuration. *10HP, 1 phase motors are not recommended for compactor power units and are exempted from the product warranty.
- Ordinary replacement parts are not covered by and are excluded from the terms of this warranty.
- There is no other expressed warranty on replacement parts, except as issued by the original manufacturer/dealer/distributor.
- All warranty parts are shipped using standard ground transport services. Customer will be responsible for any and all expedited or express shipping methods beyond the standard ground services.
- Customer may be required to return a defective part for evaluation within 15 days for it to be deemed defective and qualify for a warranty replacement.
-

Bakers Waste Equipment, LLC reserves the right to deny a warranty claim in the event the customer fails to comply with or perform its responsibilities as it pertains to this warranty.



XI TROUBLE-SHOOTING CHART

PROBLEM	CAUSE	SOLUTION
UNIT WILL NOT START	(1) No electrical power to unit	(1a) Turn on main disconnect (1b) Replace fuses or reset breaker
	(2) No electrical power to control	(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 OPERATE CONTINUOUSLY	(1) Motor Starter is in-operative	(1a) Check motor starter coil & wiring
	(2) Motor Starter auxiliary contacts	(2a) Check motor starter contacts & wiring in-operative
	(3) Secondary contact on start button is in-operative	(3a) Check contact, wired black & orange, to be sure it is operating properly. (3b) 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 valve pressure
		(2b) Clean orifice in relief valve and reset pressure
		(2c) Check "O" rings on relief valve for Leakage and damage to rings
	(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
		(5b) Inspect fittings for damaged threads
(6) Low Voltage		(6a) Check voltage at disconnect box
		(6b) Check voltage at motor starter
(7) Pump rotating in wrong direction		(7a) Stop ASAP! Check direction of Motor.
(8) Shaft broken, or shaft key sheared		(8a) Check pump pressure
		(8b) Remove pump from motor and Visually inspect shaft and key
(9) Intake pipe from reservoir blocked, or oil viscosity too heavy to prime		(9a) Drain system. Add clean fluid per per chart on page 22. Change filter.



PROBLEM	CAUSE	SOLUTION
MOTOR RUNS BUT RAM DOES NOT (Cont.)		
	(10) Intake air leaks (foam in oil or Oil viscosity too heavy to prime)	(10a) Check intake connections. Tighten if needed
	(11) Unit shifts slowly	(11a) Check directional control valve For trash, contamination
	(12) Directional control valve Shifting slow	(12a) Contaminated oil—drain oil and flush system.
		(12b) Inadequate voltage, check voltage, check coil.
		(12c) Disassemble valve and clean
UNIT WILL NOT REVERSE	(1) Solenoid valve is in-operative	(1a) Check coil in solenoid valve
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) Replace pump	(2a) Replace pump
	(3) Air leak at pump intake pipe joints	(3a) Tighten joints as required
EXCESSIVE HEAT	(1) Continuous running	(1a) When over 140 F degrees or hot in Comparison with circuit lines, pump should be shut down immediately. Before restarting, ensure that fluid cooling capacity is adequate to
remove system generated heat		(1b) Install oil cooler (air or water type)
		(1c) Install oil temperature shutdown
	(2) Undersized hydraulic lines	(2a) Replace with larger hydraulic lines
	(3) High ambient temperature in relation to oil temperature	(3a) Use lower viscosity hydraulic oil
	(4) Excessive system leakage	(4a) Check system for bypassing or leaks
	(5) For photo eye installs only!	(5a) Check reflector for alignment and dirt. Clean reflector. Check eye for film/dirt. Clean eye lens.



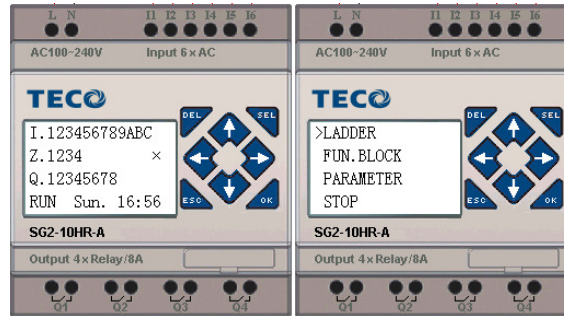
PROBLEM	CAUSE	SOLUTION
RAPID WEAR HYDRAULIC	(1) Shavings, trash in the hydraulic Oil, circulating through system (1b) If positive check gears in	(1a) Check filter for shavings. Test oil
	change oil and filter.	If needed, replace pump.
	(2) Viscosity of oil too low at working conditions	(2a) Replace oil with factory recommended hydraulic oil
	(3) Pressure is too high	(3a) Reduce pump pressures to factory specifications
ERRATIC OPERATION	(4) Air recirculation causing pump noise	(4a) Tighten all fittings
	(1) Valve sticking or binding	(1a) Disassemble & clean
	(2) Viscosity of oil is too high	(2a) Change oil and replace with oil with factory recommended viscosity
	(3) Air in system	(3a) Check for leaks, tighten fittings
	(4) Low oil	(4a) Fill reservoir with oil to ¾ of sight+ gauge
OVERLOADS TRIP FREQUENTLY	(5) Low voltage	(5a) Check primary & secondary sides of transformer for correct voltage
		(1a) Check voltage on 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 to make sure all connections are tight.
		(1e) Check motor leads to be sure all connections are tight.

Note: Excessive overload tripping and/or motor or coil failures may occur if voltage 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 in the event of a surge.

TECO Programming Changes

The timers in BWE programs are controlled by Data Registers instead of just using standard timers as in the past. This way we control multiple timer functions with one Data Register setting. To set the Data Registers follow the following steps.

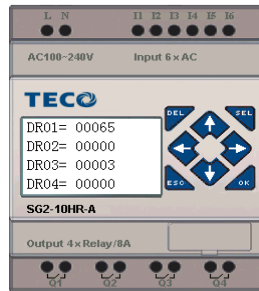
1. When you open the control panel door you should see one of the following screens on the TECO. If you see the screen on the right skip to the next step. If your screen does not look like either of these two screens, press the up arrow key until the screen looks like one of these. If your screen looks like the screen on the left press the ESC button on the TECO and it will change to the screen on the right.



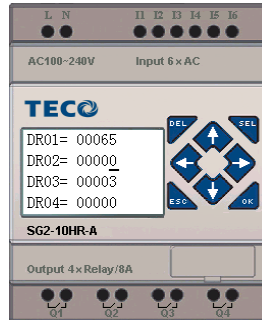
2. From the screen on the right press the down arrow key until the > is beside the word "Stop", as shown on the following screen. When you see the following screen, press the "OK" key twice.



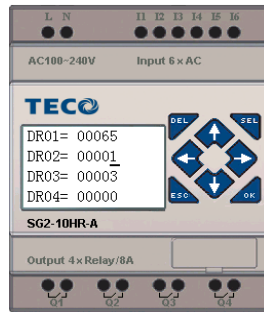
3. After pressing the "OK" key twice, use the down arrow key to move the cursor down beside the word "Data Register" and press "OK". You will then see the following screen.



4. When you see this screen just move the cursor to the number you want to change and press "SEL", in the following picture we have moved the cursor to DR02, to the farthest number to the right and pressed "SEL".



5. At this time, use the up and down arrow keys to select the desired time.



We set DR02 to one here just for demonstrational purposes. In the program this will be the equivalent to one second. Once you have set a DR to your desired settings press "OK" and move to the next DR you wish to change. After setting the DRs to the desired settings, press the "ESC" key and you will be returned to the following screen.



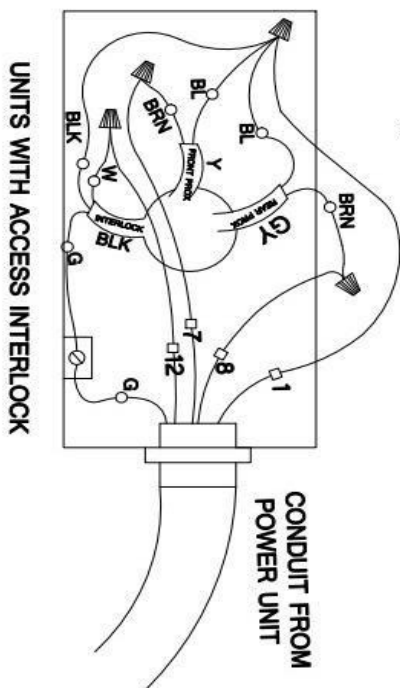
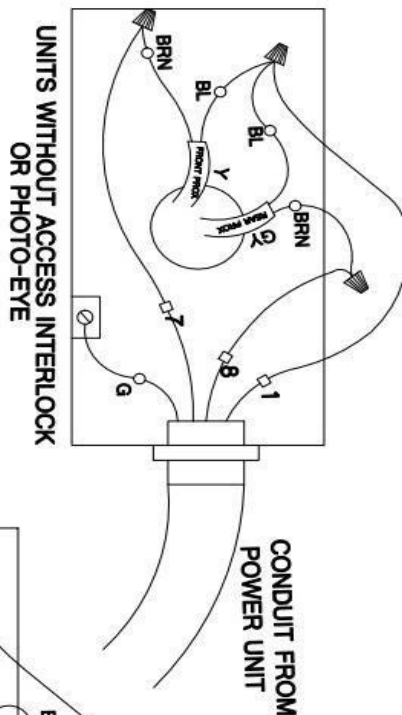
5. From the above screen press the up arrow key once so that you see >RUN. At that time press the "OK" key twice and you should see the following screen.



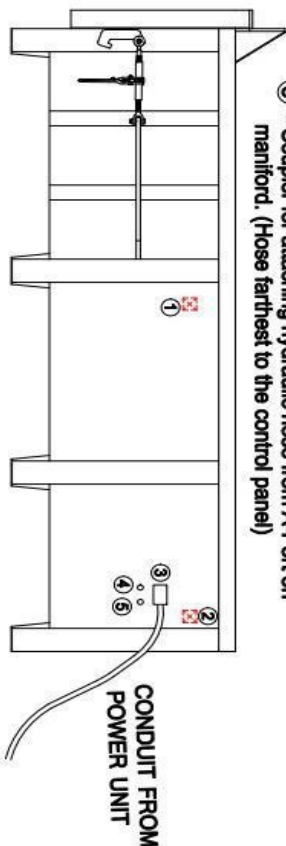
At this time the program should be in run mode and the machine should turn on when the key is turned, allowing you to check the times you entered. Remember to always start the ram from the home position when checking time related settings.

PROXIMITY SWITCH WIRING DIAGRAM 1 OF 2

BLK- BLACK
 BRN- BROWN
 BL- BLUE
 Y- YELLOW
 GY- GREY
 W- WHITE
 G - GREEN



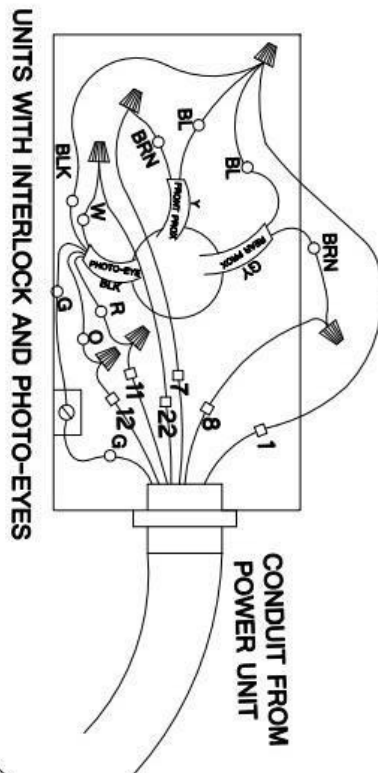
- 1 - Approximate location of front prox. (inside machine)
- 2 - Approximate location of rear prox. (inside machine)
- 3 - Water resistant junction box.
- 4 - Coupler for attaching hydraulic hose from B-Port on manifold. (Hose closest to the control panel)
- 5 - Coupler for attaching hydraulic hose from A-Port on manifold. (Hose farthest to the control panel)



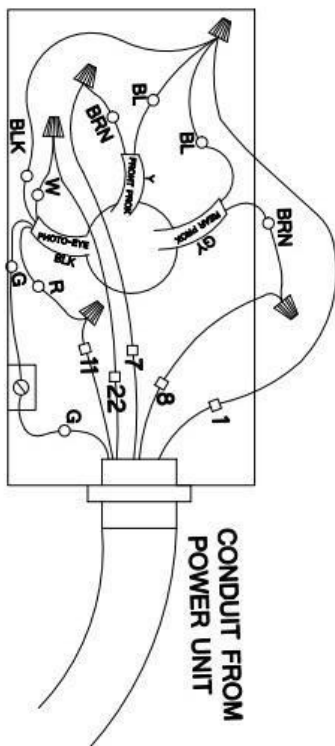
DRAWING NO.		MATERIAL	
		THIS DRAWING CONTAINS CONFIDENTIAL & PROPRIETARY INFORMATION AND SHALL NOT BE DISCLOSED OR COPIED WITHOUT THE EXPRESS WRITTEN PERMISSION OF BAKERS WASTE EQUIPMENT.	
NOTES:	DATE	BY	REV
	02/20/15	MACARLIN	1
REVISIONS:		DATE	
300000000000			

PROXIMITY SWITCH WIRING DIAGRAM 2 OF 2

BLK- BLACK
 BRN- BROWN
 BL- BLUE
 Y- YELLOW
 GY- GREY
 W- WHITE
 G- GREEN
 O- ORANGE

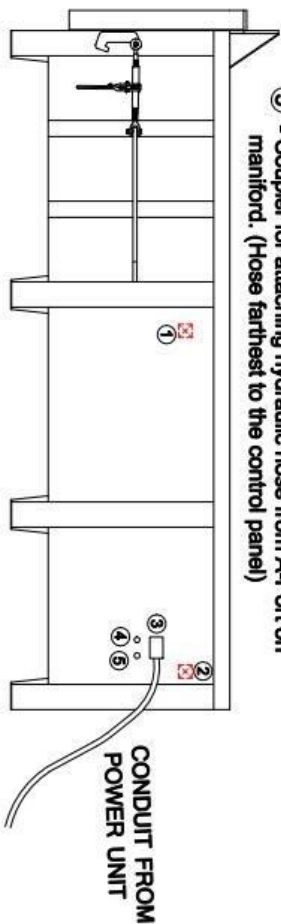


UNITS WITH INTERLOCK AND PHOTO-EYES



UNITS WITH PHOTO-EYES

- ① - Approximate location of front prox. (inside machine)
- ② - Approximate location of rear prox. (inside machine)
- ③ - Water resistant junction box.
- ④ - Coupler for attaching hydraulic hose from B-Port on manifold. (Hose closest to the control panel)
- ⑤ - Coupler for attaching hydraulic hose from A-Port on manifold. (Hose farthest to the control panel)



DRAWING NO.:		MATERIAL:	
THIS DRAWING CONTAINS CONFIDENTIAL & PROPRIETARY INFORMATION AND SHALL NOT BE DISCLOSED OR COPIED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF BAKERS WASTE EQUIPMENT.			
NOTES:	DESIGNED BY:	DATE:	BY:
	M. CARLIN	02/20/15	
EXTENDING LINE:	DATE:	1	
FILE NAME:	2000000000X		



NORMAL SERVICE CALL HOURS

MONDAY-FRIDAY

8:00 a.m.- 4:00 p.m.

1-828-726-3001

Or

920-728-7055 -Service

Immediate Service Call Request after Normal Hours & Holidays!

Please call 1-920-728-7055

For Technical Support

Please call 1-336-566-9204