6PAK

USER'S GUIDE

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Certificate of conformity

MDA Compaction certifies that their equipment are manufactured and assembled according to ANSI and CSA standards listed below.

The use of this equipment meets the standard listed below as long as the owner and user of the equipment follows the maintenance and training prescribed by these standards.

- The RAM meets the ANSI Z245.51 standards.
- The safety check complies with the CSA Z432-04 standards, clause 8.2.5, Canadian Machinery Safety standards.
- The level 3 safety circuit meets the requirements of standard R2A (SECURITY CONTROL) risk category PL and D.

Being the original manufacturer of the equipment, if equipped with the SECUREPAK option, we declare that our products meet the standards prescribed in section 7 of the regulation 851 concerning the “Pre-Start Health and Safety” of the “occupational health and safety Act regulation” for industrial machinery.

This document makes a written notice for the PSR inspection exemption as described in the “Ontario Health and Safety guideline.” Directive from “PSR guideline from April 2011.” The directive makes it possible to display on the original equipment of the manufacturer the comformity with the standards of applications for the exemption of PSR inspection.

All of our equipment includes CSA approval and are certified as CAN/CSA 22.2#0, 0.4 and CSA after having been legitimately inspected by the CSA Group.

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MAINTENANCE

SERVICES

INTRODUCTION

Congratulations!

You are now the owner of a Front Loading Compactor 6 PAK from MDA Compaction. This equipment, like all our products manufactured, have been manufactured with all the care required to give the most complete satisfaction.

This manual has been written by the manufacturer and is an integral part of the equipment. It defines the use for which the product was designed and contains all the information necessary for operators.

In addition to this manual which contains the necessary information for users, more information has been written specifically for technicians in charge of maintenance.

Compliance with the instructions given in this manual ensures the safety of working conditions, reduces operating costs, the quality of the results as well as increased machine life. Failure to comply with these requirements can result in risks for the user and damage to the equipment and the environment.

All repairs, the information of which is absent from this manual, must be carried out by qualified personnel that have been authorized by the manufacturer.

If you need assistance, please contact your supplier. Have in hand the serial number of the device, the installation date, and the electrical diagram number.

If you have any questions concerning your equipment or you need more information, please contact us at:

1-844-858-2424

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DEFINITION OF LABELS

LETT-0327 Do not Step in Warning.
Never enter inside the 6 Pak the machine can start automactly

No Parking Sign, Make sure that the bin can be pick up anytime by your hauler.

LETT– 0325 24 Votl Connection Warning

LETT 0324— Disconnect Electric and Hydraulic Connection before Lifting.
Must be acknolege by the Truck Driver

LETT-0306— « This equipment requires a regular and periodic maintenance. » The maintenance of this equipment is your responsibility, ensure its proper functioning. Please refer to this manual. See the maintenance schedule.

LETT-0305— Your equipment is known to be among the safest ones if all the standard and optional safety guards/devices are engaged.

LETT-0303— It is mandatory to perform the lockup procedure prior to any equipment intervention, maintenance, or inspection.

LETT-0304-XXX — « DANGER XXX VOLTS » Your equipment is powered with a high-voltage electrical source that could cause injuries or even death. Only a qualified electrician must access the control panel. The inner compartment is entirely ‘‘finger safe’’ in order to protect people operating the equipment.

POSITION OF LABELS

NOTE: THE LABEL MODEL AND THEIR POSITIONING ARE SUBJECT TO CHANGE WITHOUT NOTICE.

WARNING BEFORE USE

ONLY PERSONNEL OVER THE AGE OF 18 OR TRAINED ARE PERMITTED TO USE THIS EQUIPMENT.

REMAIN OUTSIDE THE RESTRICTED AREAS WHILE THE EQUIPMENT IS IN OPERATION. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.

NEVER ENTER INSIDE THE 6PAK WITHOUT FIRST LOCKING THE WALL MOUNTED DISCONNECT IN CLOSED POSITION. AVOID WEARING CLOTHING THAT IS TOO LOOSE THAT MAY CATCH ONTO PARTS OF THE MACHINE AND COULD RESULT IN SERIOUS ACCIDENTS. BEFORE ACTIVATING THE COMPACTOR, MAKE SURE THAT NOTHING AND NOBODY IMPEDES THE CORRECT OPERATION OF THE MACHINE. REST ASSURED THAT NO ONE IS INSIDE THE RSTRICTED ZONES. (See safety procedures in the maintenance section.)

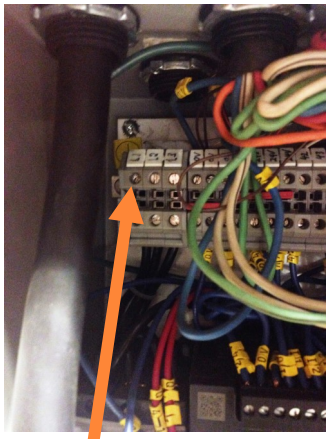
Scrupulously follow all instructions in this manual (in particular those linked to the symbols « danger » and « warning») and the safety labels affixed directly to the machine.

The manufacturer declines all responsibility for the material and bodily damage caused by the non-observance of these instructions.

Any work on the equipment that is not covered in this manual must be performed or requires the assistance of personnel from the manufacturer.

IN CASE OF EMERGENCY PRESS RED BUTTON

WARNING BEFORE USE



Electric connection terminal:
L-1
L-2
L-3

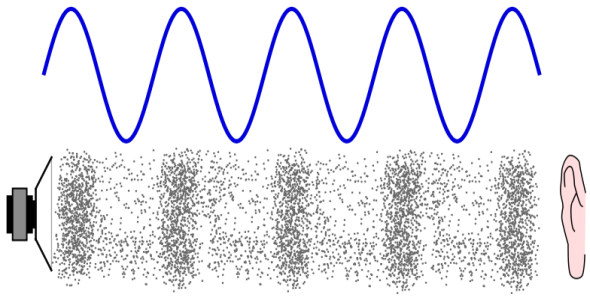
CAUTION

THE ELECTRICAL CONNECTION MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN.

N.B. Make sure that the engine is running in a clockwise motion.

If not, reverse two (2) phases. The equipment will not operate if the engine is reversed.

72



dB
DECIBEL

Sound estimation information

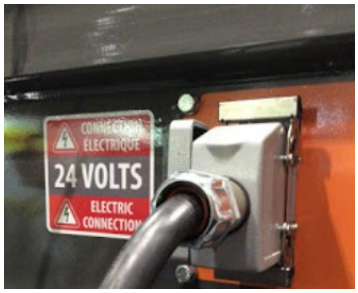
When the operator operates the equipment : the noise level of a the 6 PAK was tested in dBA with respect to the time of the ram cycle of 56 seconds.The noise level was measured as a function of the position of the operator during the operation of the baler, ie approximately 24 inches from the operator and at a height of 65 inches.

INSTALLATION

INSTALLATION

STEP 1

Fix on the Ground the Terminal



STEP 2

Connect the 24 Volt to the 6PAk

STEP 3

Connect the hydraulic hoses to the 6 Pak

GENERAL INFORMATION

CONTROL PANEL ELECTRICAL COMPONENTS

Action (Yellow)

-The Action button is the ignition knob.

-The pilot light flashes when the 6pak is almost full and remains on when full.

Statut Light (Blue)

Once the sequence is initiated, we force the Full mode by pressing on the Statut Light button. (Refer to the Draining Procedure page)

CONTROL PANEL ELECTRICAL COMPONENTS

Emergency Stop

The Emergency Stop button disables all unit functions. The button remains on once pressed. Such button must be pulled to resume the operation mode.

Error Light

Refer to the Error Code Table on page 14.

Winter Mode

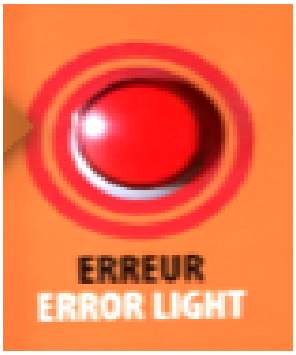
A compacting cycle will be automatically initiated after 60 minutes of inactivity, as soon as the temperature reaches –5°C.

De-Icing Mode

Indicates if the Winter Mode is ON

or OFF.

Error Code Table



Code	Problem	Remedy
ON	Emergency Stop	Remove the Emergency Stop mode on the terminal and the container.
3x Flash (See Picture 1)	Motor Overload	Open the electric control, install on the terminal and press on the Blue button on the thermal relay.
4x Flash (See Picture 2)	High Pressure - Start Cycle	Check if the ram is stuck in the compacting chamber. (Remove the jammed item).
5x Flash (See Picture 3)	Abnormal front cycle time	Check oil level in the tank, the hydraulic hose condition and the pressure sensor.
6x Flash (See Picture 4)	Abnormal back cycle time	Check oil level in the tank, the hydraulic hose condition and the pressure sensor.
Continuous (See Picture 5)	Alarm Safety Off (Start with door open)	Ensure that the loading door is completely shut and check the red door magnet.


24VDC
Inputs I1...I6
24VDC
IB...IG
Analog or 24VDC
ALM H-PRESS START
Menu / Ok
Outputs
Q1...Q8 : Relay 8A


24VDC
Inputs I1...I6
24VDC
IB...IG
Analog or 24VDC
ALM OVER LOAD
SR2 B201BD
Menu / Ok
Outputs
Q1...Q8 : Relay 8A


24VDC
Inputs I1...I6
24VDC
ALM MAX RUN FWD
Menu / Ok
Outputs
Q1...Q8 : Relay 8A


24VDC
Inputs I1...I6
24VDC
ALM SAFETY OFF
Menu / Ok
Outputs
Q1...Q8 : Relay 8A


24VDC
Inputs I1...I6
24VDC
ALM MAX RUN REV
Menu / Ok
Outputs
Q1...Q8 : Relay 8A

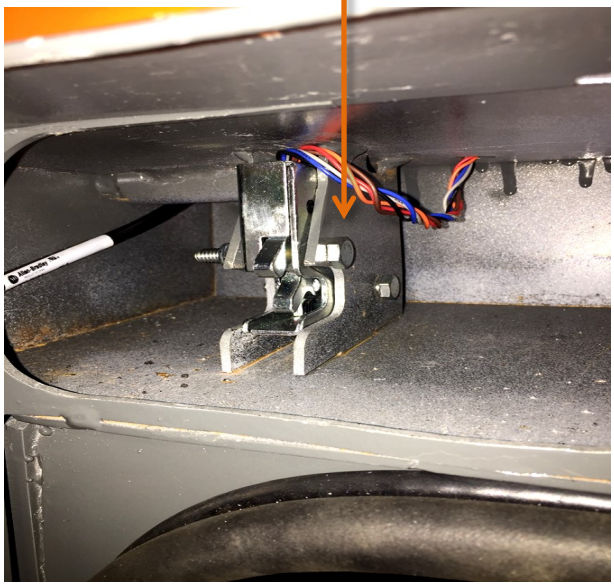
MAGNETIC SENSORS

A

Sensor of the loading door

B

A



A

Positioning magnet

Status dlag/LED (see next page)

B

Electro-mechanical lock

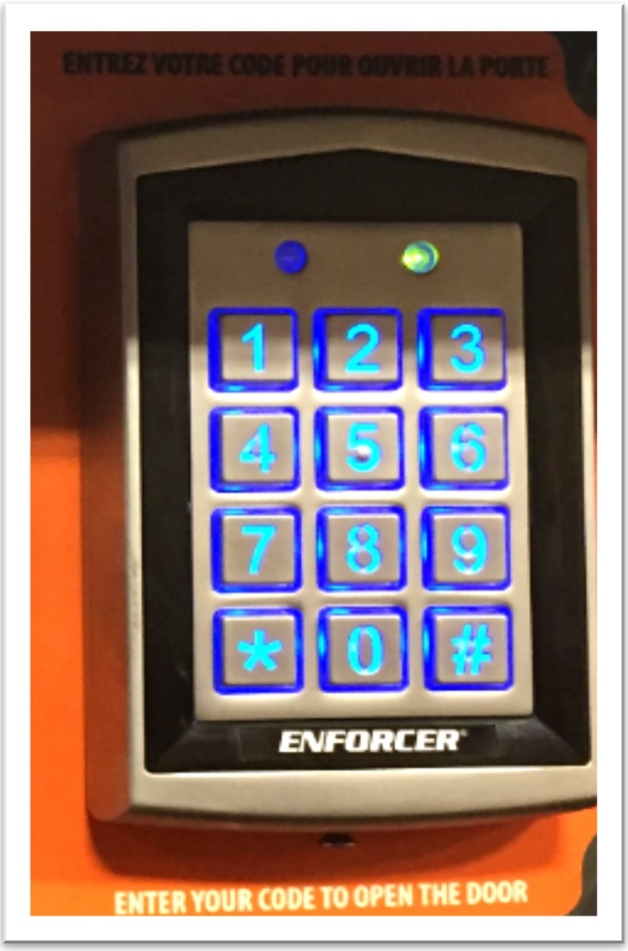
with built-in magnet

Status/Diag LED

Unit Indicators (per IEC 60073)

State	Status	Troubleshooting
Off	Not powered	NA
Red	Not safe, OSSD not active	NA
Green	Safe, OSSD active	NA
Green Flash	Power up test or OSSD inputs not valid	Check 24V DC or OSSD inputs (yellow and red wire)
Red Flash	1Hz Flash Recoverable Fault 4 Hz Flash Non-recoverable Fault	Recoverable fault– check OSSD outputs are not shorted to GND, 24V DC or each other. Cycle Power
Amber Flash	1 Hz Flash margin indicator safe, OSSD active	Sensor is reaching max. Sensing distance; re-align sensor with ac-

Numeric Keypad Programming



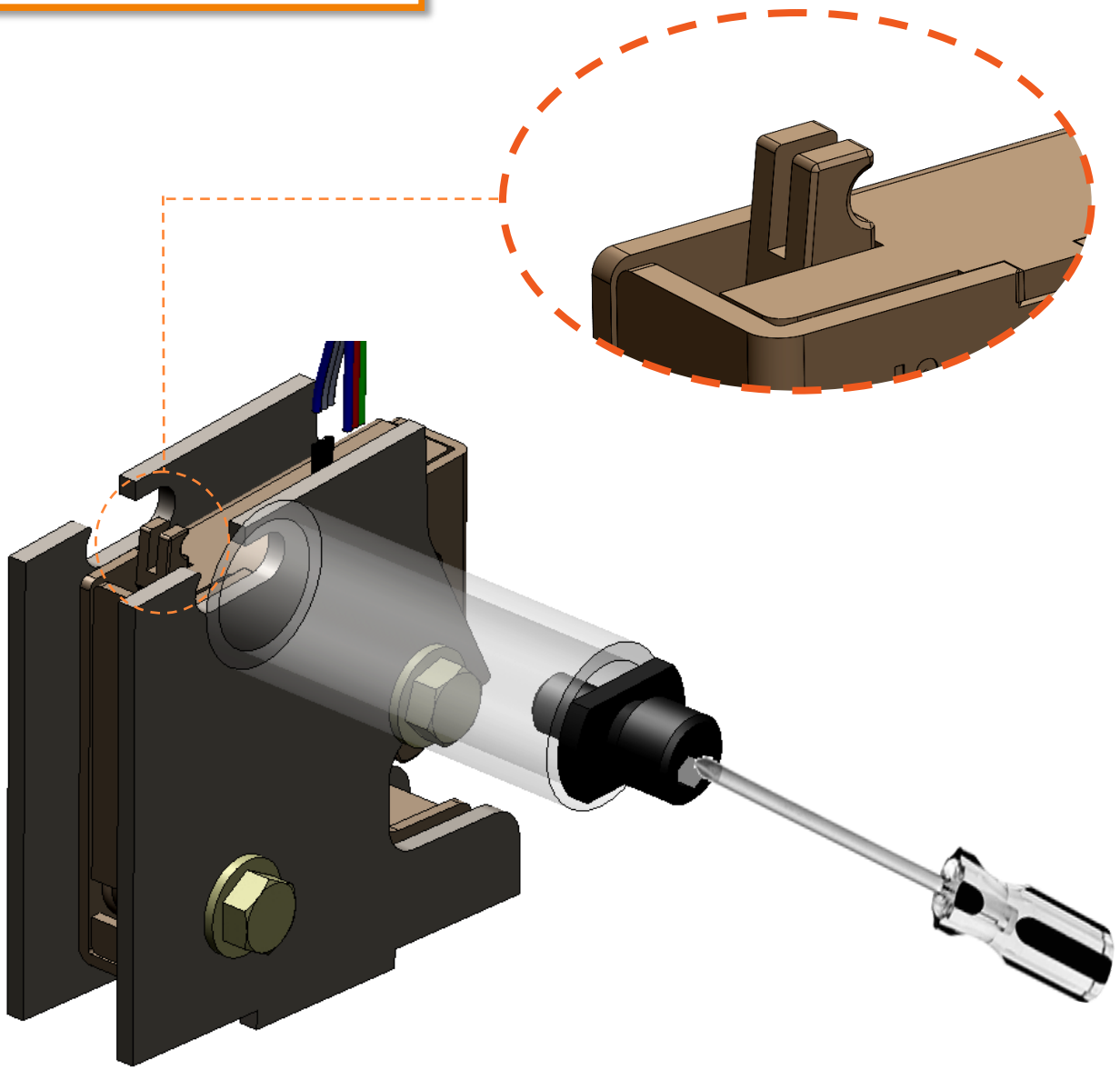
Master Number:

0000

User Number:

2424

Manual Door Release



In case or malfunction of the keypad, door can be open

Remove the bolt to have acces to the manual release of the latch with a screwdriver

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User Operation for the SK-1131-SQ

Note: [u][u][u][u] indicates the user code.

Note: [X][X][X][X] indicates the master code.

1. **Using the User Codes:**
   A. User codes operate the door (4-8 digits long).
      Press [u][u][u][u]
   B. The [#] key must be pressed also if the keypad is in manual-entry mode.
      Press [u][u][u][u] [#]

2. **Using the Master Code:**
   The Master Code can be used to operate any output.
   Press [X][X][X][X] [#] [1] (Relay output #1)
   Press [X][X][X][X] [#] [2] (Relay output #2)
   Press [X][X][X][X] [#] [3] (Relay output #3)

3. **Using the Inhibit/Lockout Code:**
   Please contact your installer for an explana ion of inhibit mode and its operation.

4. **Using Duress Codes:**
   For a full explanation of duress codes and their uses, see pg. 12.

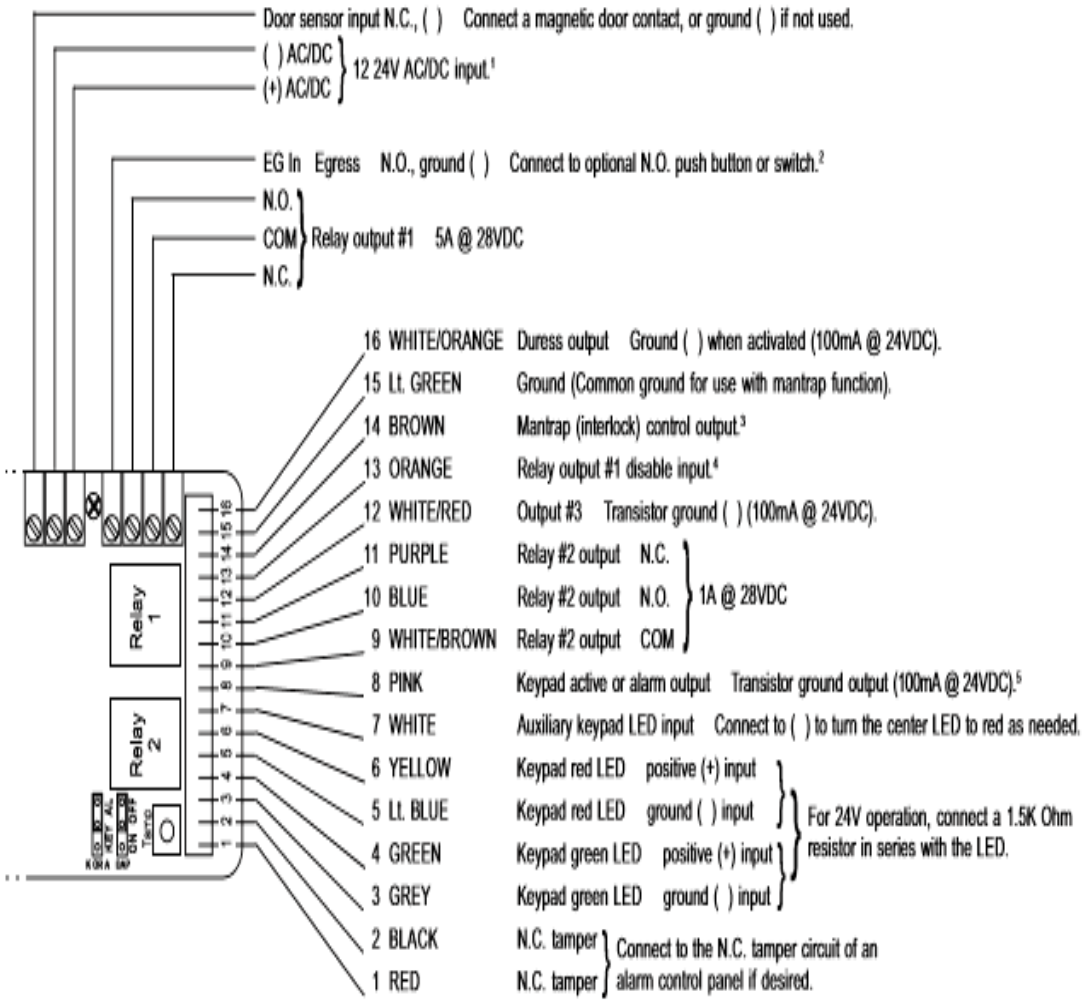
5. **Delete/Add/Change User and Master Code:**
   A. Enter the Master Code first, followed by the [*] key
      (If you forgot the master code, see page 15 for more information.
      Press [X][X][X][X] [*]
   B. Changing/Adding Users:
      Press [1] 00-99 (user ID) [u][u][u][u] (user code, 4-8 digits) [#] (for relay output #1)
      Press [2] 0-9 (user ID) [u][u][u][u] (user code, 4-8 digits) [#] (for relay output #2)
      Press [3] 0-9 (user ID) [u][u][u][u] (user code, 4-8 digits) [#] (for relay output #3)
   C. Deleting Individual Users:
      Press [1] 00-99 (user ID) [#] (for relay output #1)
      Press [2] 0-9 (user ID) [#] (for relay output #2)
      Press [3] 0-9 (user ID) [#] (for relay output #3)
   D. Changing the Master Code:
      Press [0] [X][X][X][X] [#]
   E. To exit programming mode, press the [*] key.

Digital Access Keypad Manual

UNIQUE FEATURES

- **12-24V AC/DC universal power** – No programming or jumpers needed.
- **Mantrap** – Each keypad can be used as a stand-alone keypad. However, the mantrap feature uses two keypads to protect an area with two doors by ensuring that only one door is open at a time. With the mantrap interlock functions, when a user keys in the code to open one door, a signal is sent to disable the second keypad, thereby preventing access through the second door until the first door is closed.
- **Relay output #1 inhibit control** – Relay output #1 is typically used for a door strike. If the keypad is set to the "inhibited" mode, relay output #1 will not operate. This increases the security of the protected premises during the time it is not expected to be occupied, such as during evening or weekend hours. An authorized user can enable or disable the inhibit control by using the code for relay output #2 or output #3 at any time, depending on how installed.
- **Door forced open warning** – When used with an optional magnetic contact, the keypad beeps continuously for 1 minute if the door to the protected premises is forced open without using a valid user code. The warning can be stopped at anytime by keying in any output #1 user code.
- **Door propped open warning** – When used with an optional magnetic contact, the keypad beeps continuously if the door is propped open after the allowed open time. The allowable open time is programmable. The warning stops when the door is re-closed.
- **Auto or manual code entry checking:**
  - Auto code entry checking mode – When all the user codes have the same number of digits, the keypad will activate automatically when the code is entered. There is no need to press the "#" key. This is convenient for the users.
  - Manual code entry checking mode – The user codes can vary in number of digits, and the user must press the "#" key when finished entering the code. This increases security.
- **Keypad active output** – This NPN transistor open collector ground (-) output activates for 10 seconds when any key on the keypad is pressed. This can be used to trigger a video recorder or turn on a light, or to signal a guard that someone is entering the protected premises.
- **Alarm output** – When used with an optional magnetic contact, this NPN transistor open collector ground (-) output can be connected to trigger an optional alarm control panel if a protected door is forced open or propped open.
- **Door auto relock** – This can be programmed to relock an open door either when the programmed relock time expires or immediately after the door is closed, depending on which occurs first. This prevents unwanted "tailgate" entries, which can happen if an unauthorized person tries to follow an authorized person through the door.
- **Duress output** – This NPN transistor open collector ground (-) output can be used to trigger a silent alarm if an authorized user is forced under duress to use the keypad. The duress output is activated by adding 2 to the first digit of any user code for output #1. In this case, the protected door opens as it would normally, but a signal is quietly sent to a remote device to call for help without alerting the unauthorized person.
- **Backlit keypad** – The keypad is backlit to increase nighttime visibility. For convenience, the lighting intensity will increase for 10 seconds after any key is pressed.

WIRING – BASIC DIAGRAM



[1] For DC, connect to a regulated power supply with correct polarity, + to +, to . For AC, polarity is not important.

[2] Egress input Connect to optional N.O. push button or switch inside the protected premises. Lets users inside the protected premises exit without using the keypad's code.

[3] Mantrap control output Outputs ground ( ) for five seconds after relay output #1 is activated, continues while the door is open.

[4] Connect to ground ( ) to prevent relay output #1 from operating, or to the mantrap (interlock) control output of another keypad to disable output #1 while the other keypad is active.

[5] Program for either the keypad active output (KEY on the K OR A jumper) or alarm output (AL on the K OR A jumper).

SPECIFICATIONS

Power:
- Operation voltage — 12-24 Volts AC/DC. No jumper needed to set voltage.
- Stand-by current drain — 10mA @12VDC.
- Active current drain (press keypad key) — Under 30mA.
- Active current drain (one relay activated) — Under 80mA.
- Active current drain (two relays activated) — Under 130mA.

Outputs:
- Relay output #1 — 5A @ 28VDC, Form "C", N.O./C./N.C., programmable for 1 to 999 second timed output or shunt (start/stop) output. Three terminals.
- Relay output #2 — 1A @ 28VDC, Form "C", N.O./C./N.C., programmable for 1 to 999 second momentary output or shunt (start/stop) output. Three wires.
- Output #3 — Transistor ground, max. 100mA @ 24VDC, programmable for 1 to 999 second momentary output or shunt (start/stop) output. Single wire.
- Tamper output — 50mA @ 12VDC, N.C. output. Connect to tamper circuit of alarm control panel. Two wires.
- Keypad active or alarm output — Transistor ground, max. 100mA @ 24VDC. Switches to ground (-) for 10 sec. when a key is pressed (keypad active output), or switches to ground (-) to indicate a door was forced open or propped open (alarm output). Single wire.
- Mantrap (interlock) control output — Outputs ground (-) for five seconds after relay output #1 is activated, continues while the door is open. Use to disable a second keypad during this time. Single wire.
- Ground output — Steady ground (-), 100mA @ 24VDC. Single wire.
- Duress output — Transistor ground (-), 100mA @ 24VDC. Single wire.

Inputs:
- Power — 12-24Volts AC/DC. Two wires.
- Egress — N.O., ground (-). Single wire.
- Door sensor input — N.C., ground (-). Connect to an N.C. magnetic contact to show if door is opened or closed, or connect to ground (-) if not used. Single wire.
- Green LED input — Connect to operate green LED as needed. Two wires.
- Red LED input — Connect to operate red LED as needed. Two wires.
- Auxiliary LED input — Connect to (-) to turn the center LED to red as needed. Single wire.
- Relay output #1 disable input — Connect to ground (-) to prevent relay output #1 from operating, or to the mantrap (interlock) control output of another keypad to disable output #1 while the other keypad is active. Single wire.

Code Operation:
- Auto or manual code entry. Up to 100 user codes for relay output #1, up to 10 user codes for relay output #2, up to 10 user codes for output #3. 111,110,000 possible user code combinations.

Auto refresh time during code entry:
- Max. 10 seconds to enter each digit.
- Max. 30 seconds to enter each code.

Dimensions (keypad with back box):
- 4-5/8" x 2-7/8" x 1-7/8" (117 x 74 x 48 mm).

Weight (keypad with back box):
- 6.3 oz. (180 grams).

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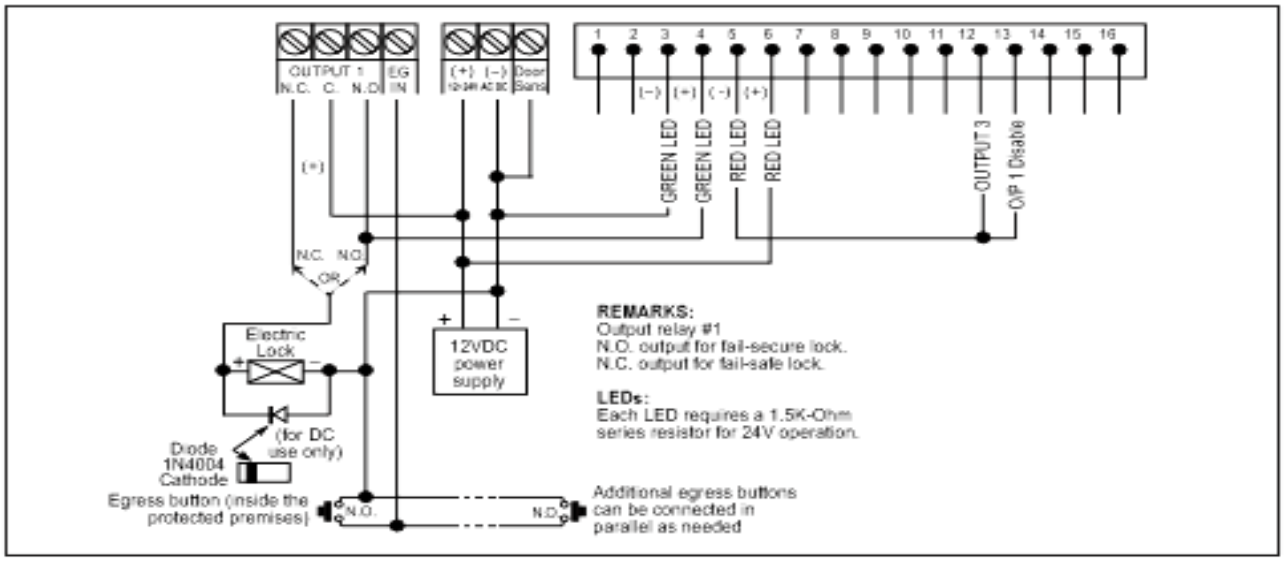
WIRING:

Example Wiring, with Inhibit Control Authorized



Note:

- Connect a 1N4004 diode as close as possible to and in parallel with the DC-powered electromagnetic or electric lock. This absorbs possible electromagnetic interference to prevent operation of the lock from damaging the keypad. A 1N4004 is not required for AC-powered locks.
- Connect the ground (-) terminal of the keypad to earth to prevent electrostatic discharge from damaging the keypad.
- The connection of relay output #1 disable to output #3 as shown above is optional. When so wired, output #3 is the inhibit control. To use, program output #3 for shunt on/off operation. When output #3 is ON, relay output #1 will not work. For example, this can be used to prevent users from entering the protected premises during the evening or weekend. See programming option 61.
- As wired, the green LED lights while relay output #1 is activated to activate the lock.
- As wired, the red LED lights to show that relay output #1 is disabled by the activation of output #3.
- Tape all unused wires to prevent short circuits.

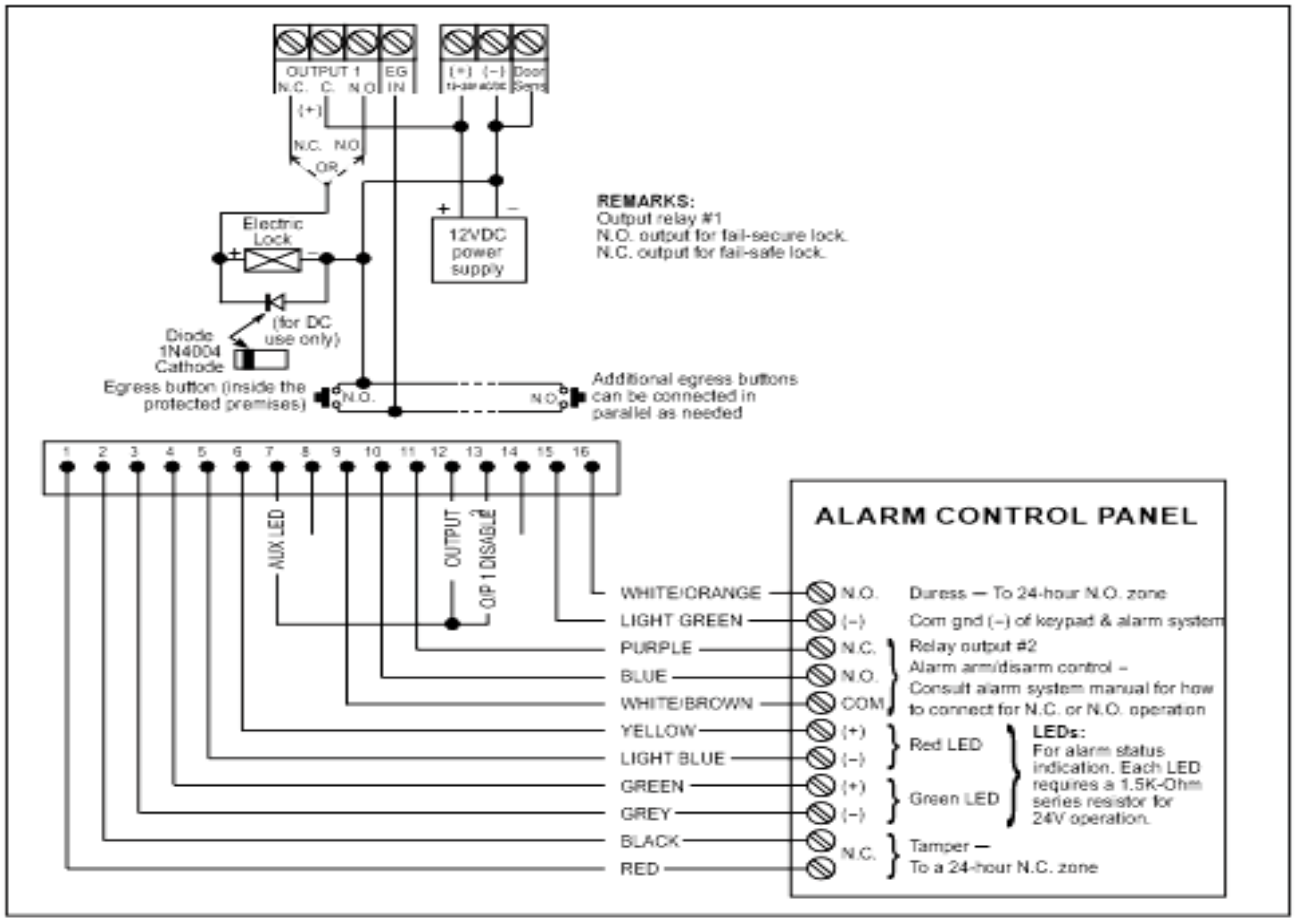
WARNING:

- If the inhibit control is used, all personnel must exit the protected premises before output #3 is activated. Otherwise, personnel in the protected premises will not be able to exit until output #3 is turned OFF.
- The user code for output #3 in this case should be given only to personnel authorized to enter the premises any time. It should not be given to other users.

Digital Access Keypad Manual

WIRING:

Example Wiring, with Connection to Lock Device and Alarm Arm/Disarm



Note:

PLEASE ALSO REFER TO THE NOTES ON PAGE 6 FOR MORE GENERAL INFORMATION.

- The electromagnetic or electric door lock operation is the same as page 6, except the LED outputs have changed.
- The function of the red and green LEDs depends on how they are connected to the alarm control panel.
- Relay output #2 controls the arm/disarm of the alarm control panel. Consult the alarm control panel manual for more information.
- Connect the duress output to a 24-hour N.O. zone and the tamper output to a 24-hour N.C. zone on the alarm control panel.
- The connection of relay output #1 disable to output #3 as shown above is optional. When so wired, output #3 is the inhibit control. To use, program output #3 for shunt on/off operation. When output #3 is ON, relay output #1 will not work. For example, this prevents users from entering the protected premises during the evening or weekend. See programming option 61. In this case, the center auxiliary LED changes from flashing green to steady red to show that relay output #1 is disabled by the activation of output #3.
- The keypad's light green wire connects to the ground (-) wire of the alarm control panel to enable the two to work together.

Page 8

SK-1131-SQ - User Control Chart

Relay Output #1: Output: Shunt / Momentary (___secs.) Programmed For_____

USER ID	User Name	Access Code
00	SAMPLE - John Doe	54321
00		
01		
02		
03		
04		
05		
06		
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USER ID	User Name	Access Code
00	SAMPLE - John Doe	54321
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99		

Relay Output #2: Output: Shunt / Momentary (___secs.) Programmed For: _____

0		
1		
2		
3		
4		

5		
6		
7		
8		
9		

Output #3: Output: Shunt / Momentary (___secs.) Programmed For: _____

0		
1		
2		
3		
4		

5		
6		
7		
8		
9		

Note: copy this sheet to use for your installations.

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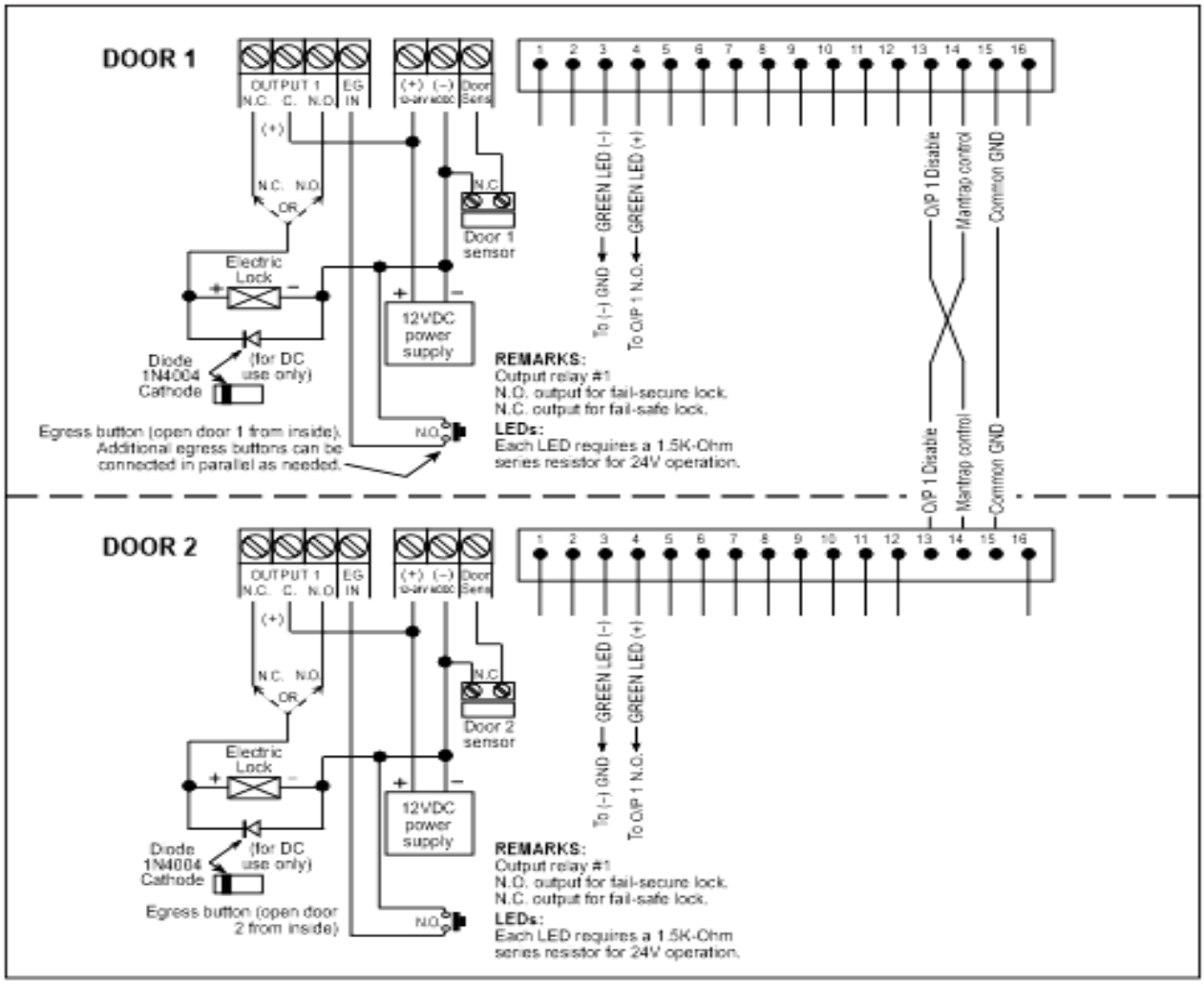
Digital Access Keypad Manual

WIRING:

Example Wiring, Mantrap Using Two Keypads



Interlock — Each keypad can be used as a stand-alone keypad. The mantrap feature is for a protected area with two doors to ensure only one door is open at a time. With the mantrap feature, when a user keys in the code to open one door, a signal is sent to the second keypad to disable it, thereby preventing access through the second door until the first door is closed.

Note: ***PLEASE ALSO REFER TO THE NOTES ON PAGE 6 FOR MORE GENERAL INFORMATION.***

- Use an N.C. magnetic contact or some other N.C. device to detect whether a door is opened or closed. Do this for the two entrances to the protected premises.
- The function of the red and green LEDs depends on how they are connected.
- Combine this wiring diagram with the diagram on page 7 if connection to an alarm control panel is required.
- Connect output #3 to relay output #1 disable as shown on page 6 if inhibit control is required.
- To use the mantrap feature:
  - Use either the keypad from outside or the egress button from inside the protected premises to open one of the two doors.
  - While the first door is opened, the first keypad sends a signal to the second keypad to prevent the second keypad from being used to open the second door.
  - After the first door is closed, both keypads are ready to use.

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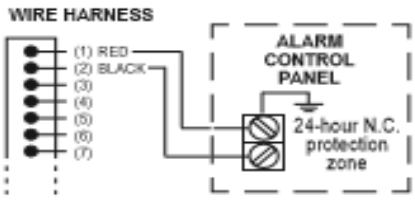
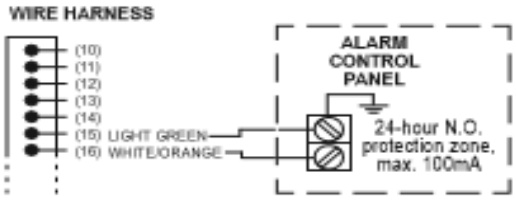
WIRING:

Auxiliary Accessories

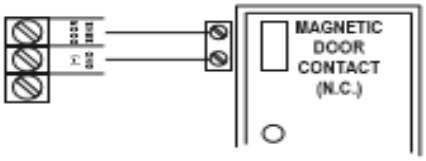
TAMPER N.C.



DURESS OUTPUT



DOOR SENSING



Required for:

- Door Auto Relock
- Door Forced-open Alarm
- Door Propped-up Alarm
- Mantrap (Interlock) Control

KEY ACTIVE or ALARM OUTPUT

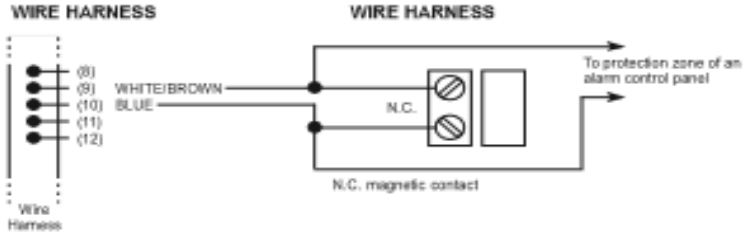
(See page 15 for jumper selection)

The Key Active Output will switch to ground (-) for 10 seconds whenever a key is touched. Use to turn ON an LED and/or a small buzzer to notify a guard, or to energize a relay to switch ON lights or CCTV camera.

Only one connection option is recommended. Make sure the current does not exceed the maximum rating of 100mA.

An external power supply and isolation relay are necessary to drive high power devices such as lights or CCTV cameras.

RELAY OUTPUT #2 — Example, to shunt an alarm N.C. zone



Use Normally Open (N.O.) output contact to shunt a Normally Closed (N.C.) protection zone of an alarm system.

Set relay output #2 to Start / Stop mode (programming option 51)

Digital Access Keypad Manual

PROGRAMMING NOTES

1. **Master Code**: The SK-1131-SQ comes pre-programmed with the Master Code set at 0000. Additional codes and/or data should be programmed at the owner's discretion. However, to ensure security, program a new personal Master Code to replace the factory-set Master Code as soon as possible.
2. **Factory defaults**:

Master code	0000
User code length	4 to 8 digits
Main relay output time	1 second
Auxiliary relay output time	1 second
Transistor ground output time	1 second
Wrong code lockout	10 tries / 30 sec.

Door forced open alarm	disabled
Output activation announcer	ON
User code entry mode	manual
Keypress beep	ON
Door propped open alarm	OFF
Silent operation	OFF

3. **Code operation**: User codes are each four to eight digits and are assigned to two-digit IDs. If all the codes have the same number of digits, the keypad can be programmed for whether the [#] key must be used or not after entering the code (see programming, option 820 or 821, page 14).
   The administrator can easily delete the code of one user via the two-digit ID, if the user is no longer authorized to enter a protected area, without the need to teach the new code to all the other users.
   Relay output #1 allows up to 100 user codes, while relay output #2 and output #3 allow up to 10 user codes each.

4. **Using Duress Codes**: Duress codes are used to activate a separate device silently to alert a guard or other personnel that a user is operating the keypad under threat. The keypad operates as normal, but a signal is sent to alert others. Duress code is for output #1 only.
   Duress codes do not need to be programmed. All user codes are automatically turned into duress codes by increasing the first digit of a user code by the number 2. The code is entered the same way as a regular user code.
   For example:
   User code 4468 can be entered as duress code 6468
   User code 9843 can be entered as duress code 1843
   User code 8181 can be entered as duress code 0181
   NOTE: If a user code is programmed, its duress code is unique and cannot be programmed as another user code. For example:
   If user code 4468 is programmed, its duress code of 6468 is automatically programmed. A user code of 6468 cannot be programmed.

LED INDICATORS

Green LED – Does not have a pre-determined function. Instead, connect to a switch or output via the grey and green wires in the wire harness.

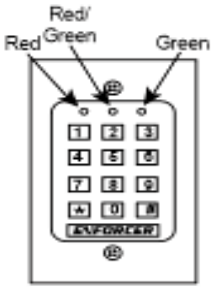
Red LED – Does not have a pre-determined function. Instead, connect to a switch or output via the light blue and yellow wires in the wire harness.

Auxiliary red/green LED – Flashes green to show the keypad status (see below). It also lights red when the white wire in the wire harness is connected to ground (-) to show, for example, that an output is activated.

BUZZER AND LED SIGNALS

The keypad's built-in buzzer and the auxiliary red/green LED can signal the following:

STATUS	BUZZER TONES*	AUX. LED FLASHES
1. In programming mode	- - -	ON
2. Successful key entry	1 beep	1 flash
3. Successful code entry	2 beeps	2 flashes
4. Unsuccessful code entry	5 beeps	5 flashes
5. DAP jumper not replaced	Continuous beeps	Continuous flashes
6. In standby mode	- - -	1 flash in 2-sec. intervals
7. Output relay activated	1-sec. long beep**	- - -



NOTE: * The buzzer can be disabled through programming option 83, ref. pg. 14.
** The output relay activated beep can be disabled through programming option 81, ref. pg. 14.

Digital Access Keypad Manual

PREPARING TO PROGRAM THE KEYPAD

To program the SK-1131-SQ, first determine the following information:

1. The master code — Allows the system administrator to program or operate the keypad.
2. The user code or codes — Allows users to use the keypad's functions.
3. Configuration of the relays and outputs — For relay output #1, relay output #2, and output #3, determine whether the output should operate from 1 to 999 seconds and then turn OFF (momentary mode), or turn ON/OFF via the code (shunt mode).
4. Result of improper code entry — Choose between a 30-second code lockout, duress output, a 15-minute code lockout, or no reaction.

* Note: When [X][X][X][X] appears in the instructions, it indicates master code entry.

GETTING STARTED

A master code is required to program the keypad. The default master code is set to "0000." To change the master code, go to page 15 and follow the instructions for "MASTER CODE BYPASS (DAP jumper).

Once the master code is set, review the programming options and decide exactly what the keypad will do, including the format of the user access codes as well as how the keypad responds via the relay output, buzzer and LEDs. Note that in every case the basic steps for programming are:

1. Enter the master code, followed by the [*] key, which puts you in programming mode.
2. Enter the programming codes defined in the various sections as needed, followed by the [#] key.
3. Enter the [*] key again to exit programming mode.

Note: A rapid string of 5 beeps and/or 5 LED flashes indicates an error, while 2 beeps indicates that the entry has been accepted.

USER PROGRAMMING

ENTER PROGRAMMING MODE

Enter Master code	Confirm	Function
[X][X][X][X]	[*]	Enter into programming mode

Note: For first-time use, Master code is [0][0][0][0]

ADDING OR CHANGING MASTER AND USER CODES

Option	User ID	Access code	Confirm	Function
[0]		4 to 8 digits	[#]	Master Code
[1]	00 to 99	4 to 8 digits	[#]	Up to 100 User Codes for relay output #1, with duress feature
[2]	0 to 9	4 to 8 digits	[#]	Up to 10 User Codes for relay output #2
[3]	0 to 9	4 to 8 digits	[#]	Up to 10 User Codes for output #3

Note: No user code may be the same as the master code.
Note: For User ID, key in he number of the user. For Access Code, type in the code for that particular user.

DELETE A USER

To delete a user who has left he company or who no longer has authority to enter the protected area:

1. Enter programming mode:

Enter Master code	Confirm	Function
[X][X][X][X]	[*]	Enter into programming mode

2. Delete code:

Option	User ID	Confirm	Function
[1]	00 to 99	[#]	Deletes specific user ID from output #1
[2]	0 to 9	[#]	Deletes specific user ID from output #2
[3]	0 to 9	[#]	Deletes specific user ID from output #3

EXIT THE PROGRAMMING MODE BY PRESSING THE "*" KEY

Digital Access Keypad Manual

INSTALLER PROGRAMMING

These functions should only be used by professional installers, as incorrect entries can disable the entire keypad function.

Enter Programming Mode (DEFAULT: 0 0 0 0)

Enter Master code	Confirm	Function
X X X X *	*	Enter into programming mode

*Key in the Master Code.
Note: For first-time use, Master code is 0 0 0 0

Data Refresh

Option	Confirm	Function
8 9 0 1	#	Clears all previously stored data.

Configure Relay Outputs (DEFAULT: Momentary, 1-sec. output for all three outputs)

Option	Output time	Confirm	Function
4 0	1 to 999	#	Relay #1, momentary mode, from 1 to 999 seconds
4 1		#	Relay #1, shunt mode (ON/OFF)
5 0	1 to 999	#	Relay #2, momentary mode, from 1 to 999 seconds
5 1		#	Relay #2, shunt mode (ON/OFF)
6 0	1 to 999	#	Output #3, momentary mode, from 1 to 999 seconds
6 1		#	Output #3, shunt mode (ON/OFF)

Wrong Code Lockout (DEFAULT: 10 tries / 30 seconds)

Option	# of tries	Confirm	Function
7 0			After 10 successive wrong codes, 30-second lockout
7 1			After 10 successive wrong codes, Duress activated
7 2	5 to 10	#	After 5 to 10 wrong codes, 15-min. lockout - Can reset wi h Master Code
7 6 0 0		#	None of the above

Door Forced-Open Alarm (DEFAULT: Disabled)

Option	Code entry	Confirm	Function
8 0	1	#	Door forced-open alarm is enabled
	0	#	Door forced-open alarm is disabled

Output Activation Announcer (DEFAULT: On)

Option	Code entry	Confirm	Function
8 1	1	#	1-sec. beep notifies the user to open the door when the output relay is ac ivated.
	0	#	The beep is disabled, replaced by 2 short beeps for valid user codes.

User Code Entry Mode (DEFAULT: Manual)

Option	Code entry	Confirm	Function
8 2	1	#	**Auto Entry Mode** is selected. The # key that follows he user code is NOT required in code entry. The User Codes MUST be set to he same digit length as he Master Code.
	0	#	**Manual Entry Mode** is selected. The # key that follows the user code is required in code entry. The User Codes can be 4-8 digits, but not necessarily all of the same length.

Keypress Beeps (DEFAULT: On)

Option	Code entry	Confirm	Function
8 3	1	#	Keypad beeps when a key is pressed.
	0	#	Silent operation -- keypad does not beep when a key is pressed.

LED Flashes in Standby Mode (DEFAULT: On)

Option	Code entry	Confirm	Function
8 4	1	#	Amber LED ON during standby mode.
	0	#	Amber LED OFF during standby mode.

Door Propped Open Alarm Timer (DEFAULT: Off)

Option	Code entry	Confirm	Function
9	0	#	No door propped open alarm
	1 to 999	#	Allowable time from 1 to 999 seconds that the door can be left open before the alarm starts.

Exit Programming Mode

Confirm	Function
*	Exits programming mode, returns keypad to normal operations

Digital Access Keypad Manual

REPROGRAM THE KEYPAD (CERTAIN DATA)

To change certain data in the keypad (such as to delete or change user codes), do the following:

1. Enter program mode by keying in the master code and the [*] key:
   [X][X][X][X] [*] The keypad is now in the programming mode.
2. Use the programming instructions on page 13 and 14 to make any changes to the keypad's data.
3. Exit the programming mode by pressing the [*] key.

REPROGRAM THE KEYPAD (COMPLETE DATA REFRESH)

Sometimes it may be necessary to completely erase all current data (except the master code) and input new data. An example of when this may be necessary is the sale of a protected building to a new owner. In such a situation, do the following:

1. Enter the programming mode by keying in the master code and the [*] key, then enter the refresh code, [8][9][0][1] and the [#] key:
   [X][X][X][X] [*] The keypad is now in the programming mode.
   [8][9][0][1] [#] All old data is cleared and the keypad is ready for new data.
   NOTE: The master code does NOT change.
2. Use the programming instructions on pages 13 and 14 to enter the keypad's data.
3. Exit the programming mode by pressing the [*] key.

DELETE USER

To delete a user who has left the company or who no longer has authority to enter the protected area:

1. Enter program mode by keying in the master code and the [*] key:
   [X][X][X][X] [*] The keypad is now in the programming mode.
2. Enter the output # and user ID number and the [#] key:
   To delete user ID 05 from output #1, press [1] [0][5] [#] .
   To delete user ID 1 from output #2, press [2] [1] [#] .
   To delete user ID 7 from output #3, press [3] [7] [#] .
3. Exit the programming mode by pressing the [*] key.

MASTER CODE BYPASS (DAP jumper)

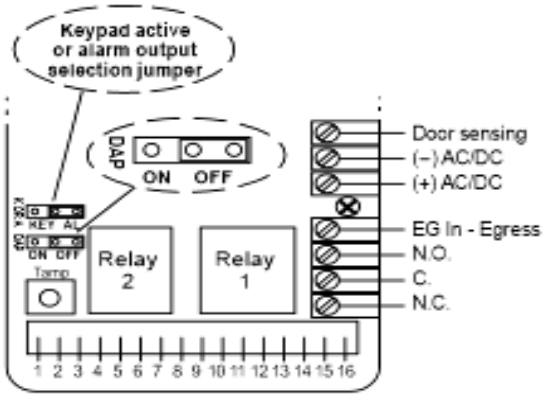
If the master code is forgotten or does not work, use the DAP (direct access to program) jumper to override the forgotten code and permit direct entry into the programming mode as follows:

1. Disconnect the power supply.
2. Move the DAP jumper from OFF to ON.
3. Reconnect the power supply.
   The keypad will start beeping.
4. Move the DAP jumper back to the OFF position.
   The keypad will stop beeping as soon as the jumper is removed.
5. The keypad is now in the programming mode, ready to receive new programming data.
6. Re-program the keypad as shown starting on page 13.

NOTE — A new master code may be programmed to replace the one that was lost or forgotten. Note that the sequence for replacing the old master code is as follows:

Option*	Key in new code	Confirm	Exit
[0]	[X][X][X][X]	[#]	[*]

*Zero "0" is for new master code only; see page 13 for other options.



SETTINGS

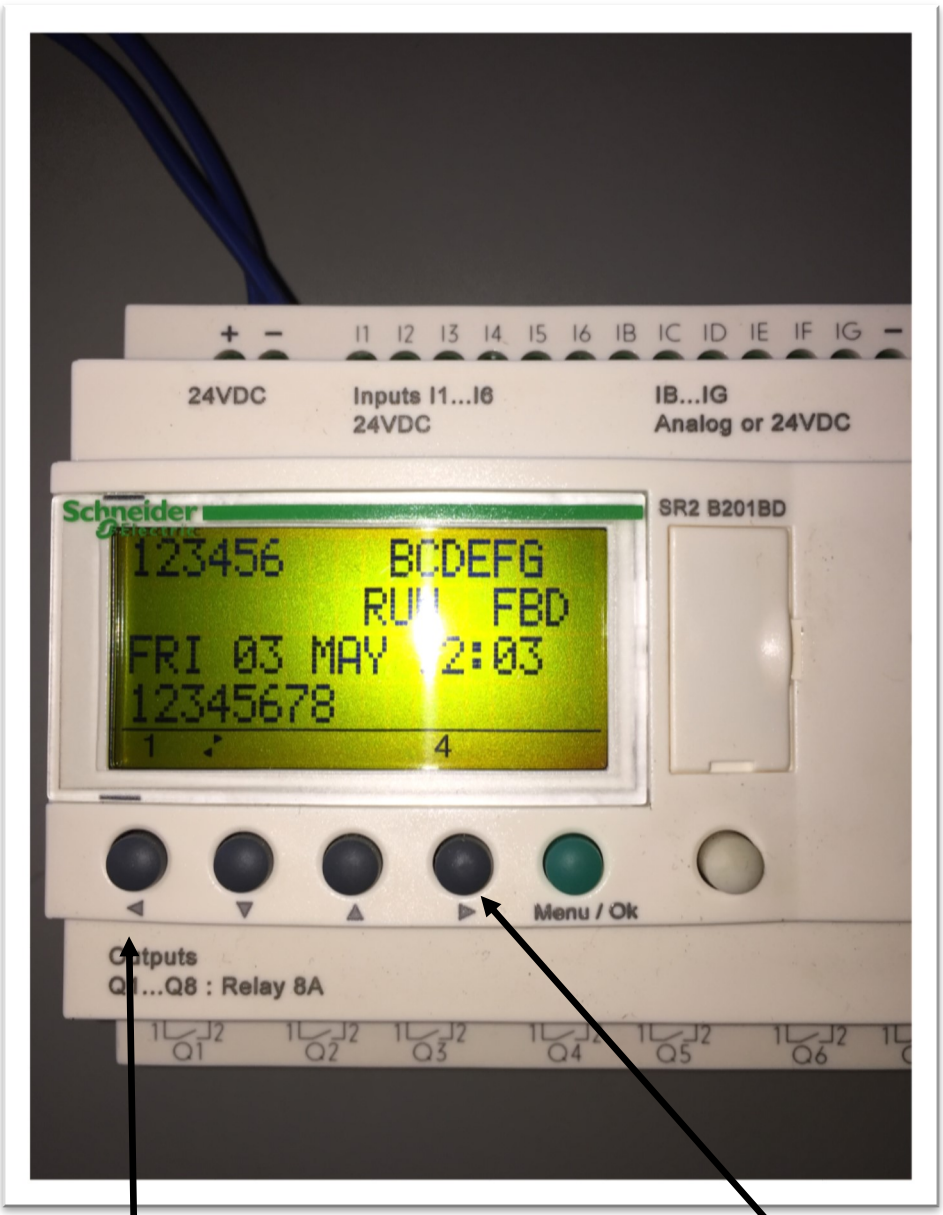
Different editable and **non-editable** settings

Setting	Definition	Editable
#1. FULL CYCLE **+00280**	Cycle time — the ram moves forward (Full cycle).	No
#2. END-PRE **+00180**	Cycle time — the ram returns (Full cycle).	No
#3. END BREAK **+00240**	Pressure reading zone start time (almost full).	No
#4. END CHECK **+00260**	Pressure reading zone end time (almost full).	No

Different **editable** and non-editable settings

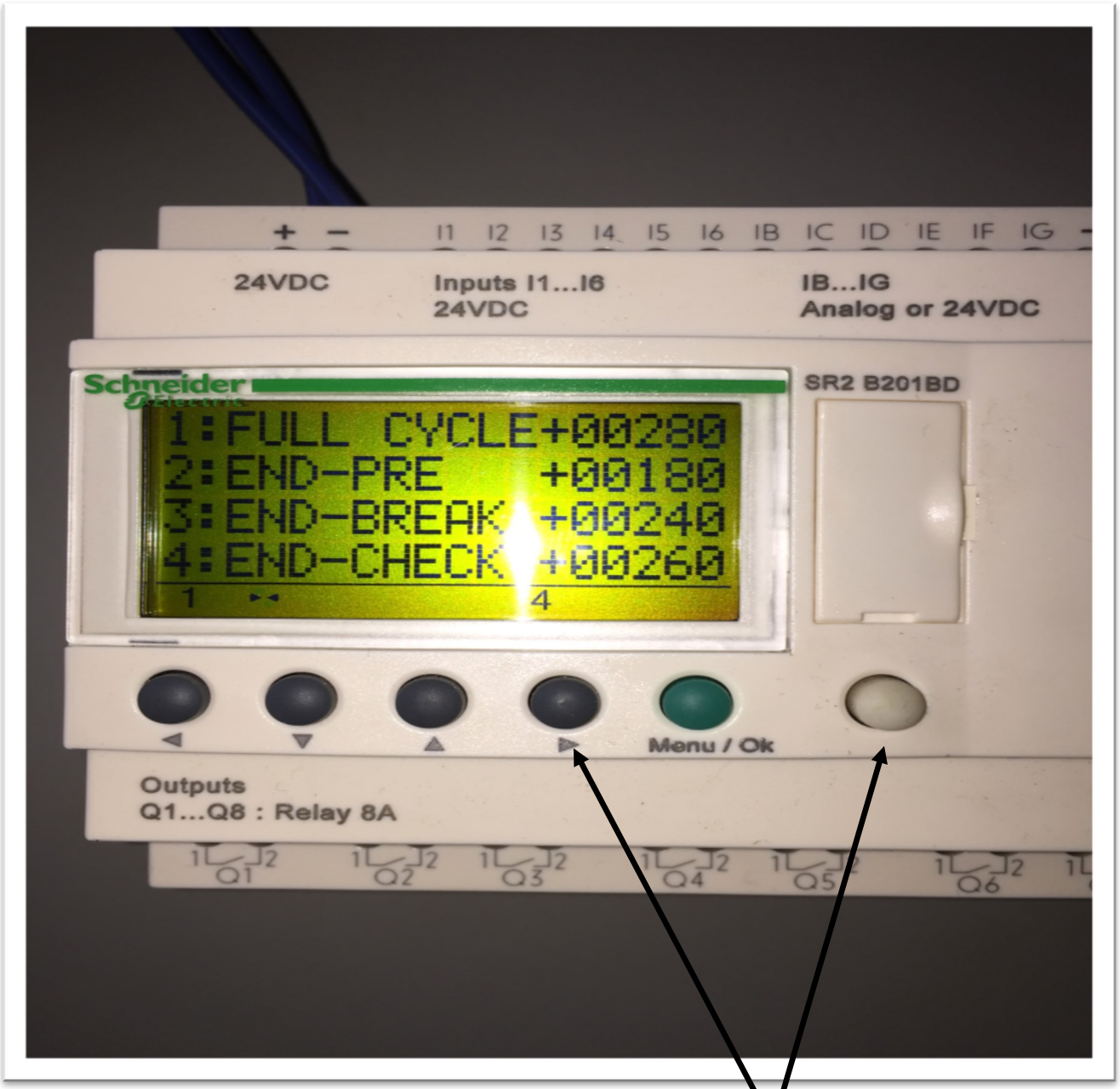
Setting	Definition	Editable
#5. WINTER **+00050**	If the Winter Mode is ON, this is time intervals between each automatic compaction cycle start (Beginning of a compaction cycle resets the timer).	Yes
#6. COMP PRS **+01800**	Compaction force pressure adjustment. Preset pressure of 1,800 can be lowered if the container is too heavy for the garbage collector (Max. pressure: 1,800).	Yes
#7. RET PRS **+01800**	Pressure adjustment upon ram return (Max. pressure: 1,800).	Yes
#8. NBR CYCLE **+00002**	Number of consecutive compacting cycles, following a compaction request.	Yes

Programming

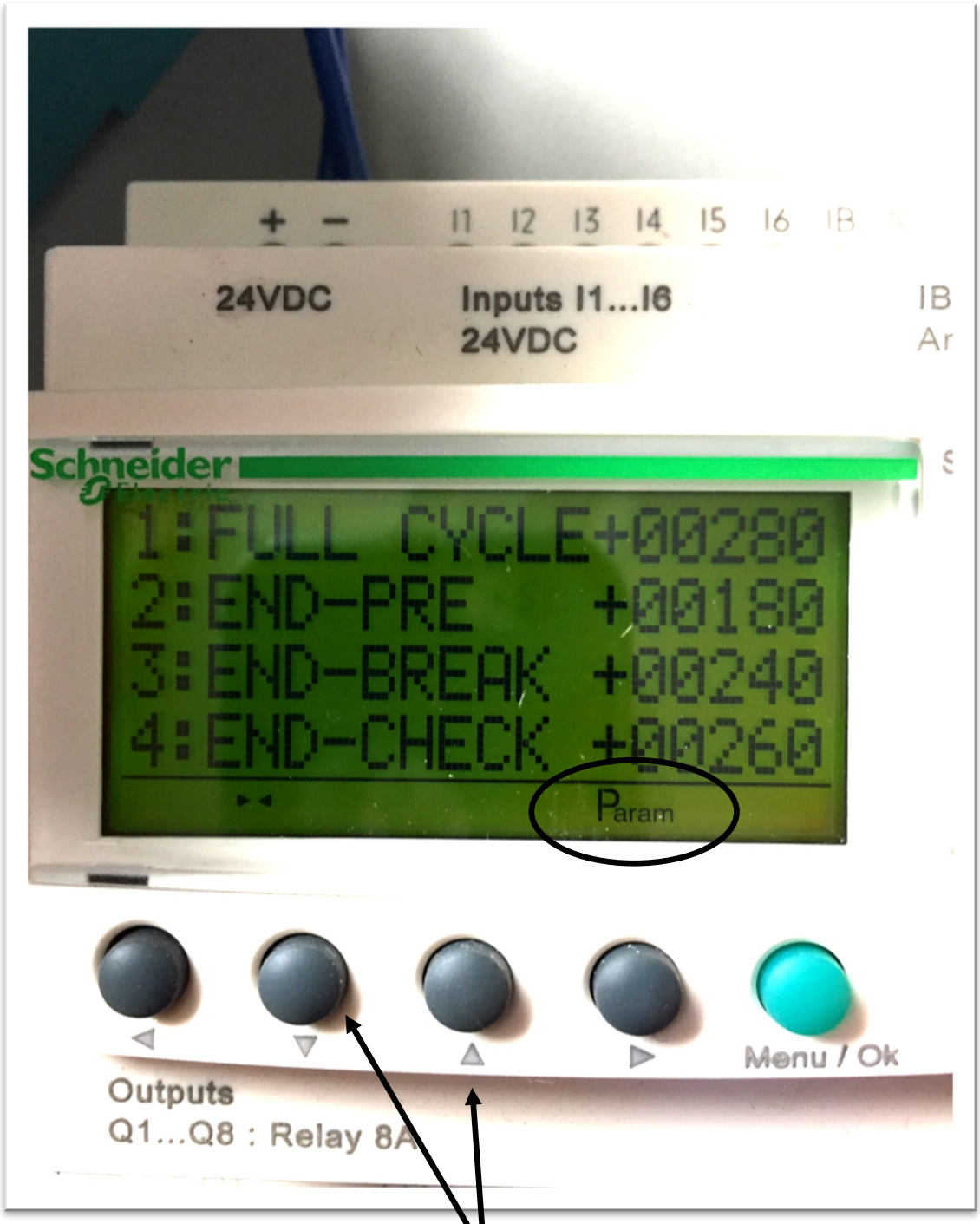


Press here to exit the Setting page.

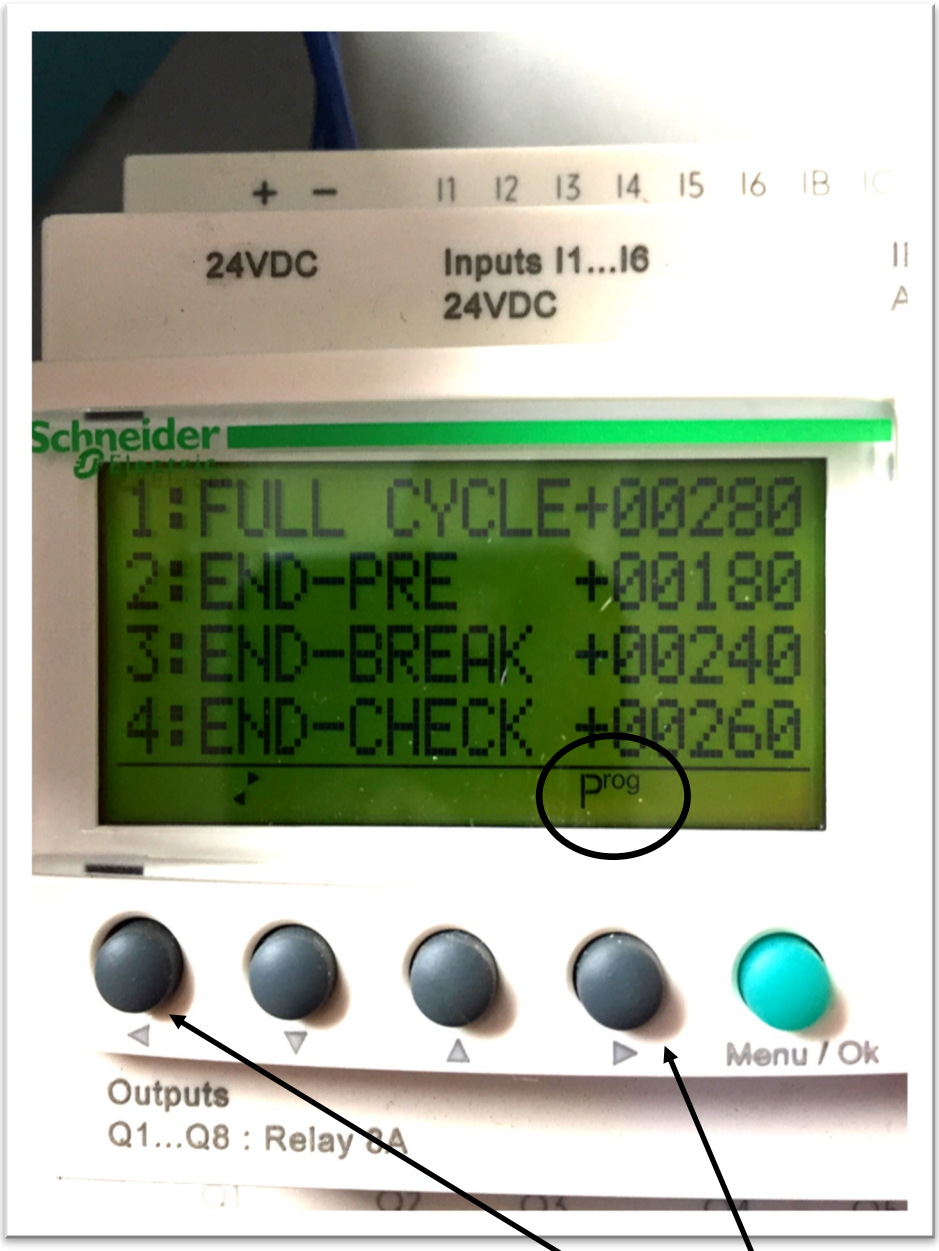
Press here to enter the Setting page.



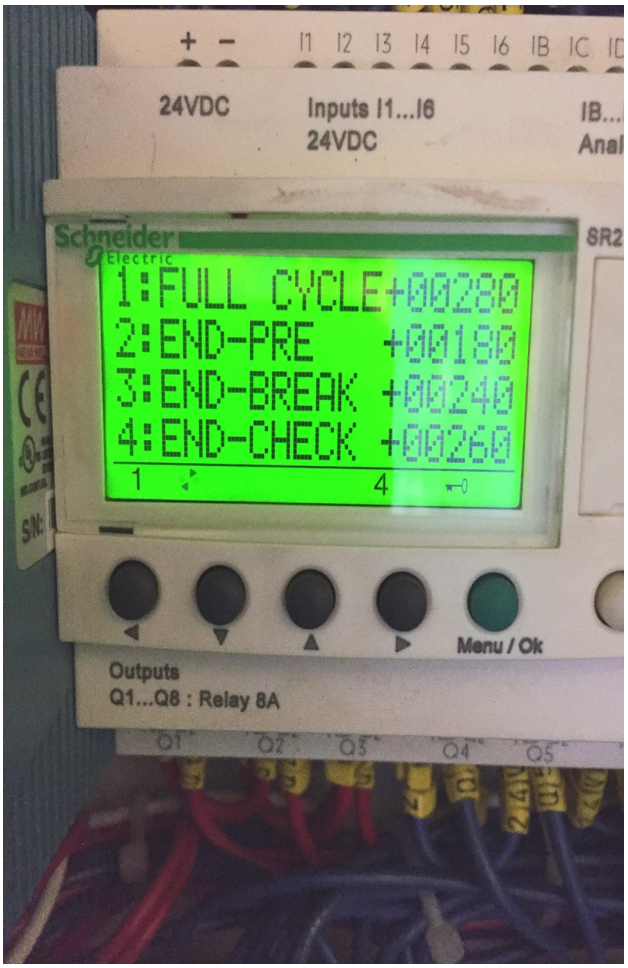
Hold the White button down and press the Right button to select the Setting mode (Param) or the program (Prog).

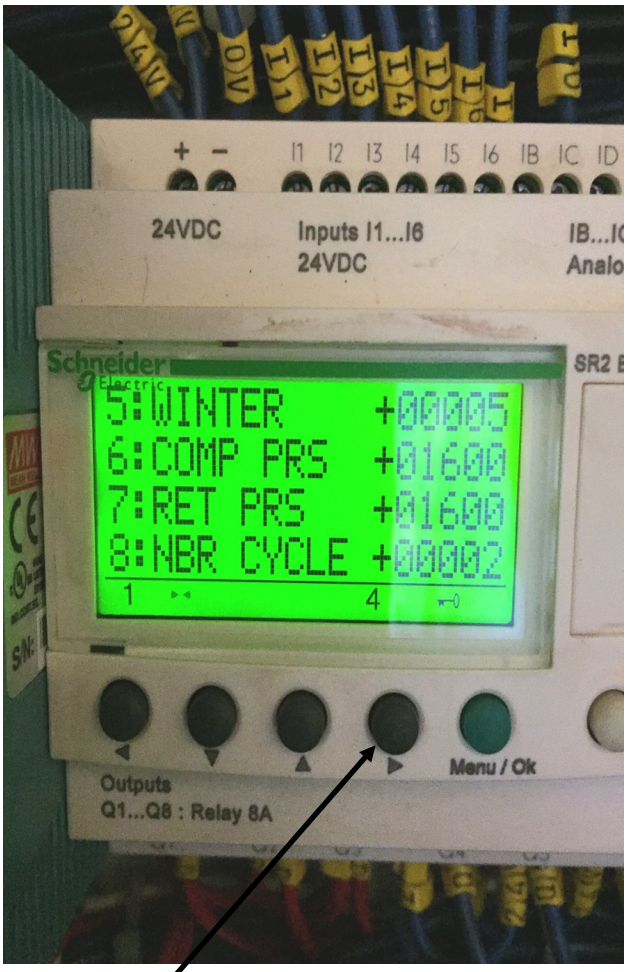


Press the Up and Down buttons to modify the Setting value (Param).

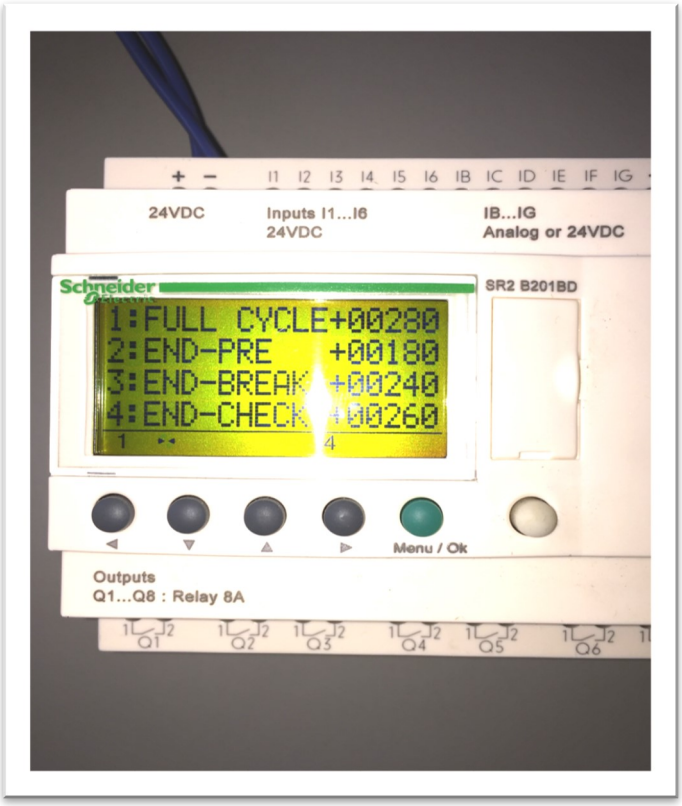


In Program mode (Prog), Setting #1 will flash.
Press the Left and Right buttons to select the Setting to adjust (the selected value flashes).





Press the Right button to go to Setting mode — page 2 (Param).



Programs

Page1 = 1-2-3-4

Page 2 = 5-6-7-8

#1. FULL CYCLE = +00280

#2. END-PRE= +00180

#3. END BREAK= + 00240

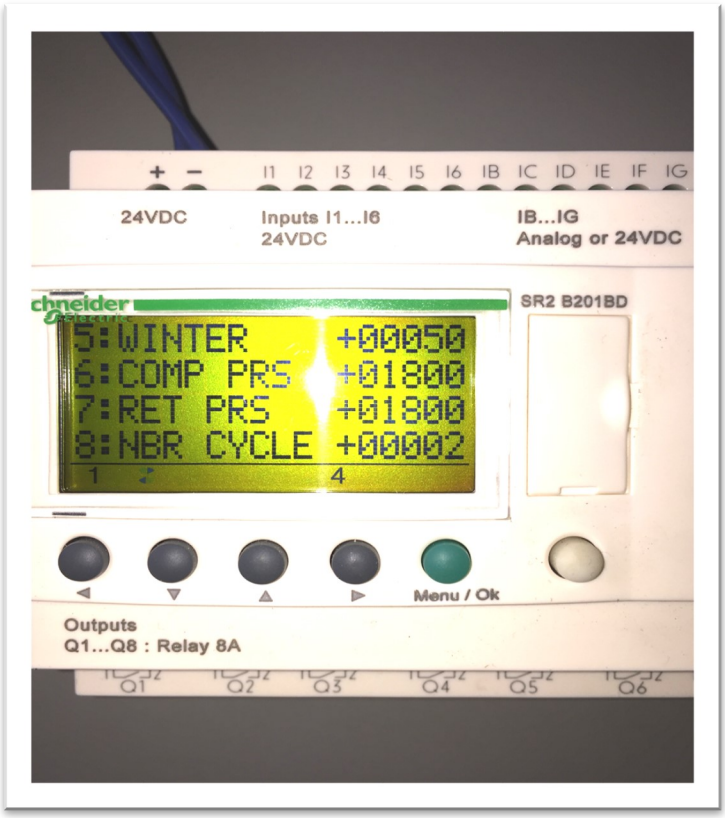
#4. END CHECK= +00260

#5. WINTER= +00050

#6. COMP PRS= + 01800

#7. RET PRS= +01800

#8.NBR CYCLE= +00002



DRAINING PROCEDURE

Draining Procedure

#1. Press the Blue button.

#2. Uncouple hydraulic hoses.

#3. Disconnect electrical outlets.

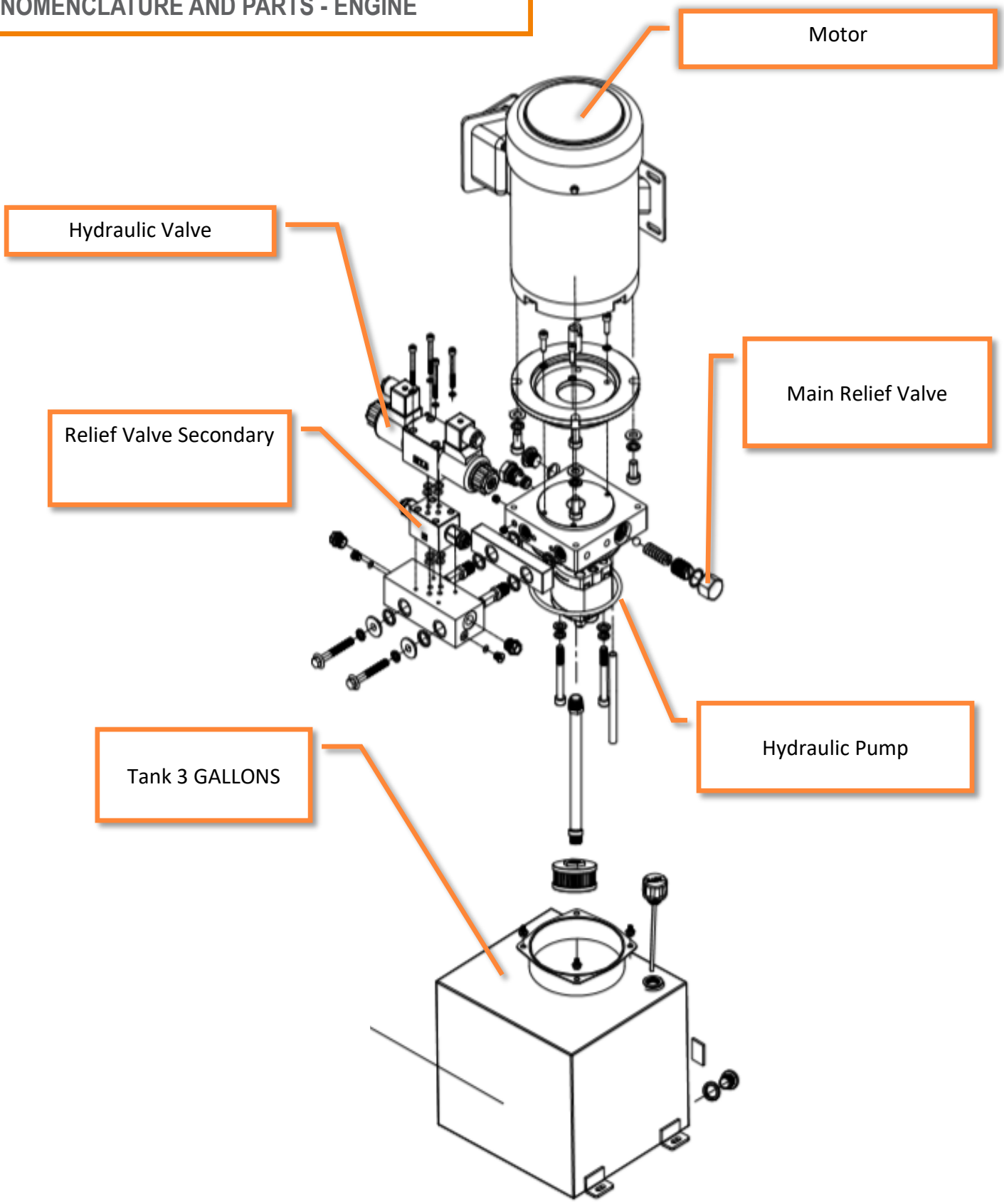
#4. Tilt the container.

#5. Reconnect hydraulic hoses and electrical outlets.

#6. Press the Action button to start a compaction cycle.

Electric and Hydraulics specifications

NOMENCLATURE AND PARTS - ENGINE



NOMENCLATURE AND PARTS - ENGINE

NO.	MOTOR HP	VOLTAGE	GPM	MAX LOAD
1	3HP HYDRAULIC UNIT	575V / 3PH	2.36 GPM	6 amps
2	3HP HYDRAULIC UNIT	208V / 3PH	2.36 GPM	12 amps
3	3HP HYDRAULIC UNIT	230V / 3PH	2.36 GPM	12 amps
4	3HP HYDRAULIC UNIT	460V / 3PH	2.36 GPM	7 amps
5	2HP HYDRAULIC UNIT	240V / 1PH	1.76 GPM	11 amps
6	1HP HYDRAULIC UNIT	120V / 1PH	1 GPM	13 amps

CONTROL PANEL ELECTRICAL COMPONENTS

Action (Yellow)

-The Action button is the ignition knob.

-The pilot light flashes when the 6pak is almost full and remains on when full.

Statut Light (Blue)

Once the sequence is initiated, we force the Full mode by pressing on the Statut Light button. (Refer to the Draining Procedure page)

CONTROL PANEL ELECTRICAL COMPONENTS

Emergency Stop

The Emergency Stop button disables all unit functions. The button remains on once pressed. Such button must be pulled to resume the operation mode.

Error

Refer to the Error Code Table on page 14.

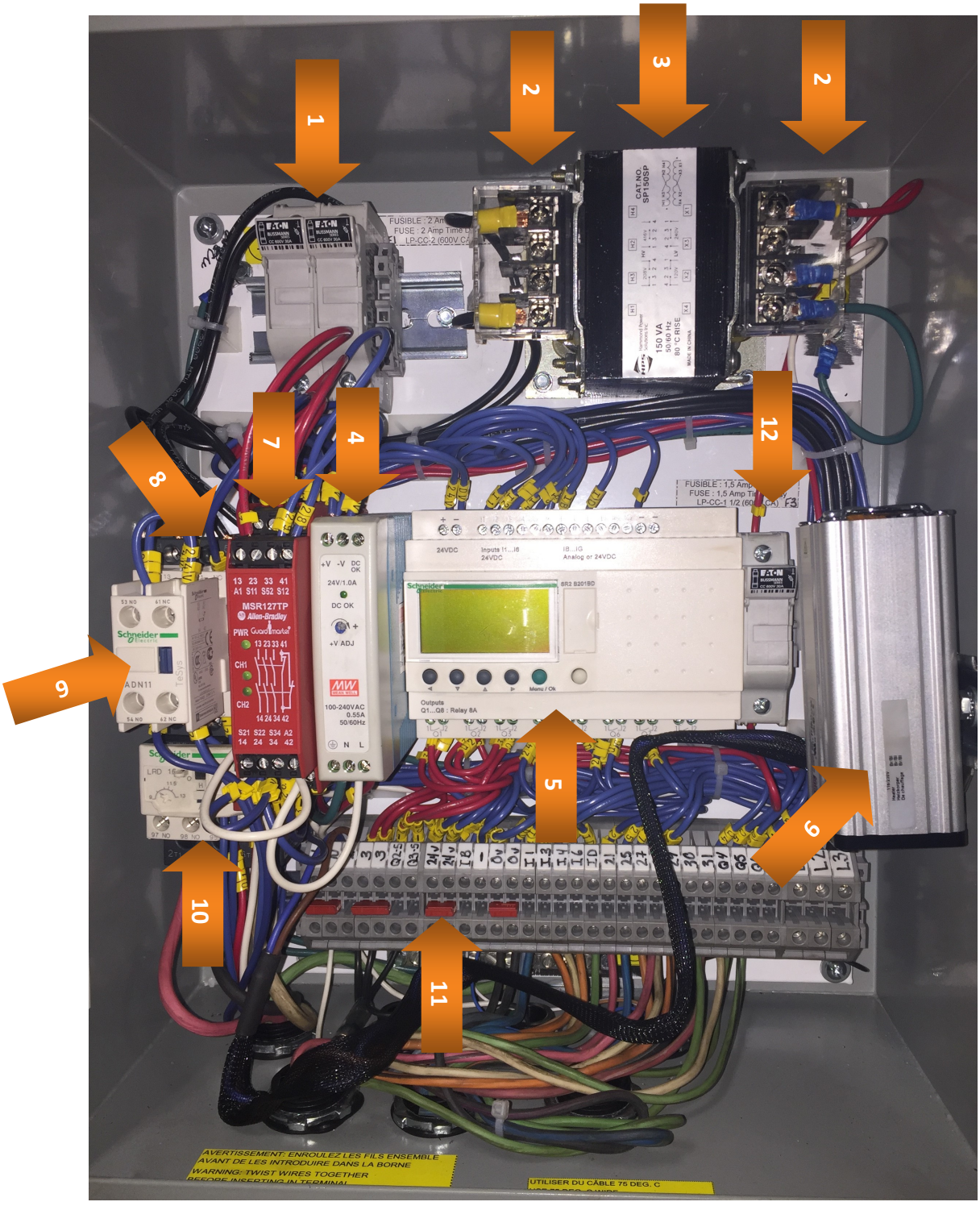
Winter Mode

A compacting cycle will be automatically initiated after 60 minutes of inactivity, as soon as the temperature reaches –5°C.

De-icing Mode

Indicates if the Winter Mode is ON or OFF.

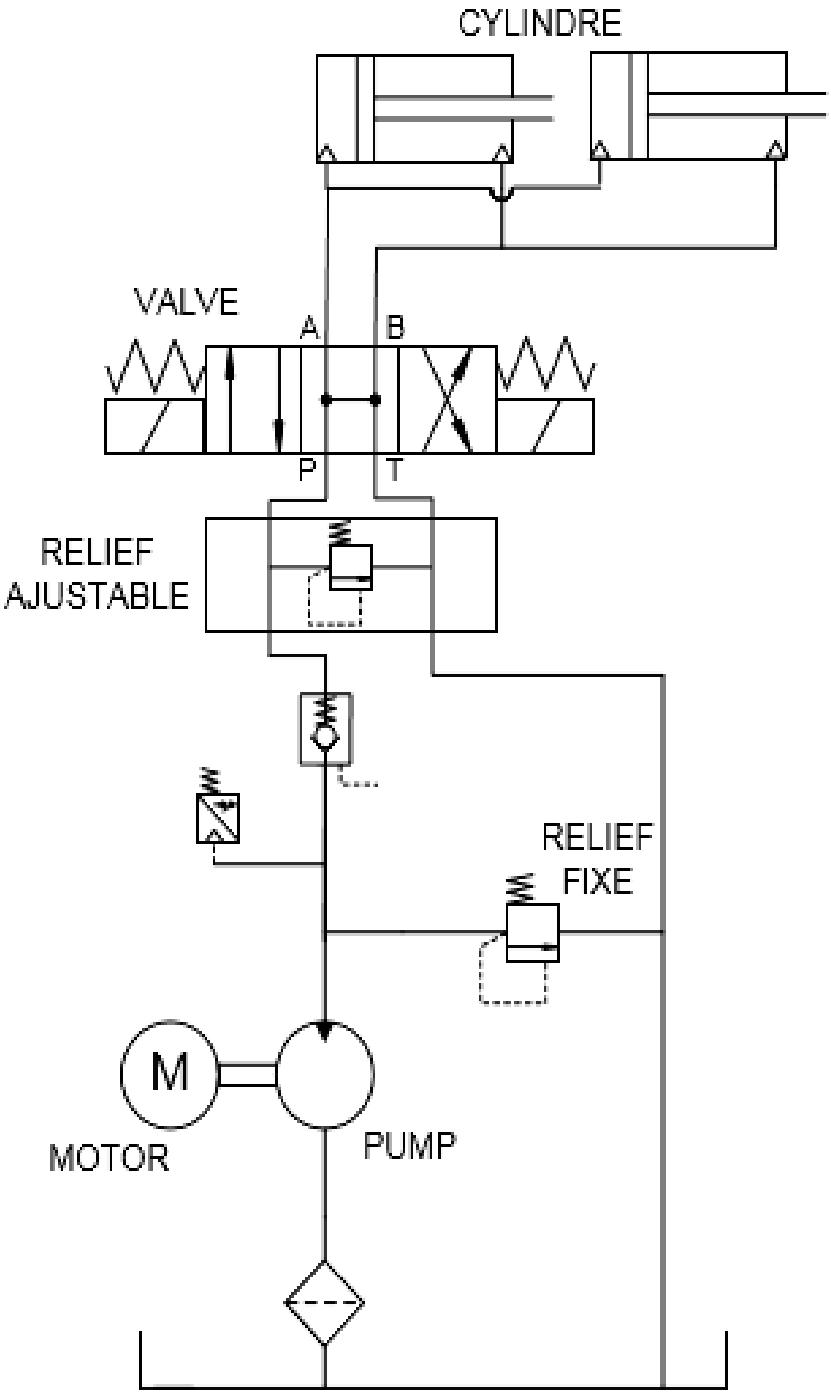
CONTROL PANEL— ELECTRICAL COMPONENTS



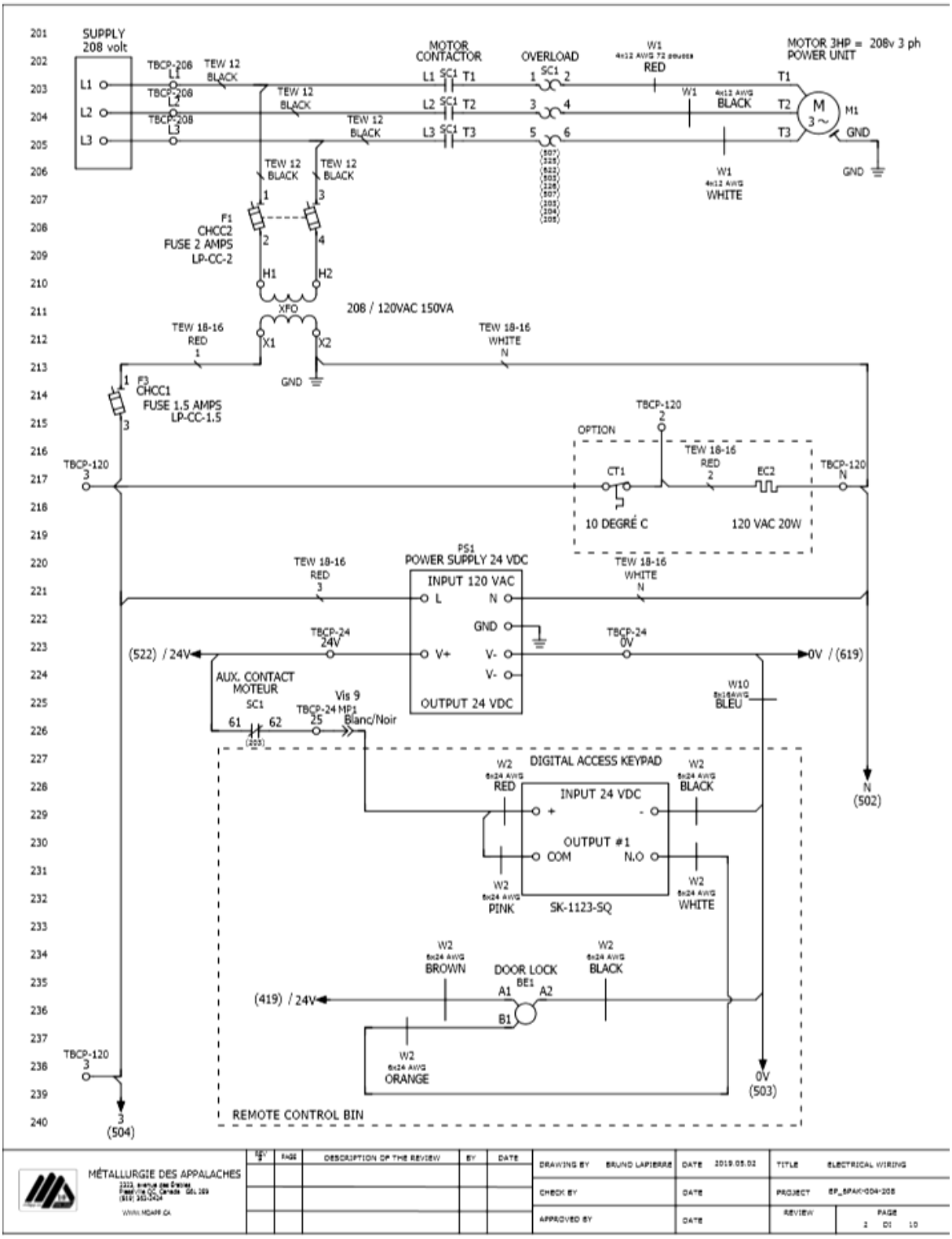
NOMENCLATURE AND PARTS - CONTROL PANEL

NO	CODE MDA	DESCRIPTION
1	EFUS-0037	DOUBLE FUSE HOLDER 2P 600V 30A
2	ETRA-0040	PROTECTIVE COVER
3	ETRA-0039 (600) ETRA-0019 (208)	TRANSFORMER 150 VA 600 V TO 120 V TRANSFORMER 208/416 -120 /240 150VA
4	ETRA-0021	POWER SUPPLY 120 VAC - 24VDC 1AMPS(50/BOX)
5	EAUT-0007	PROGRAMMABLE CONTROLLER
6	ECHA-0102	BOARD HEATER 40W 120V
7	ESEC-0101	SAFETY CONTROLLER
8	ECON-0004(600)	CONTACTOR 20A 3P 600V 120V
9	ECON-0003	SAFETY CONTACTOR
10	ECON 0025(208) ECON-0105(600)	OVERLOAD RELAY 9-13A 3P OVERLOAD RELAY 5.5A-8A
11	EBOR-0013	TERMINAL BLOCK
12	EFUS-0124	SINGLE FUSE HOLDER
13	EBOUS-0029	ACTION BUTTON
14	EBOU-0009	(AU1) EMERGENCY STOP
15	EBOU-0020	(LT2) PILOT LIGHT
16	OPCO-0012	NUMERIC KEYPAD
17	EBOUS-0009	EMERGENCY STOP
18		ERROR LIGHT
19		WINTER MODE
20		DE-ICING MODE

HYDRAULIC DIAGRAM

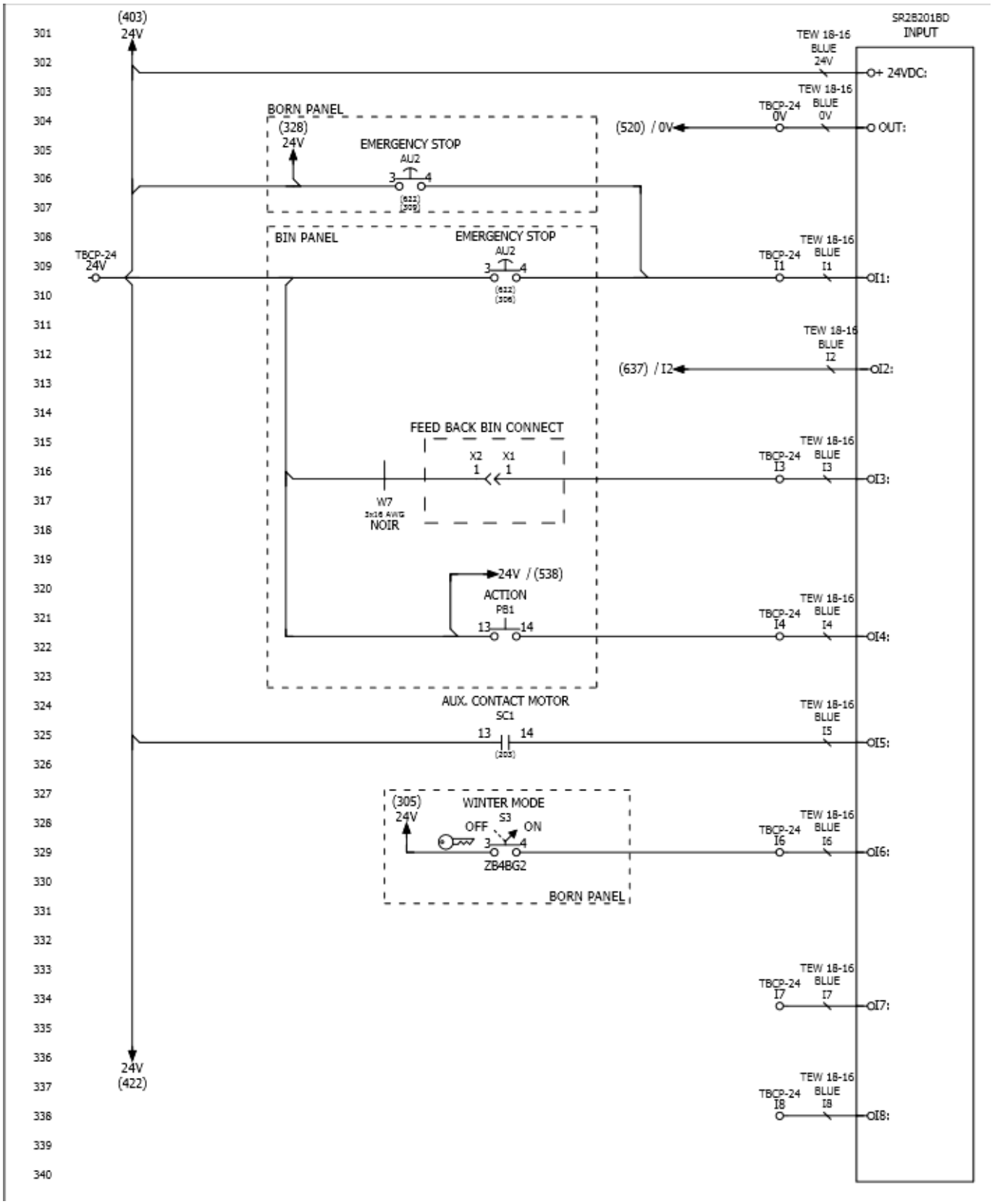


ELECTRICAL DIAGRAM

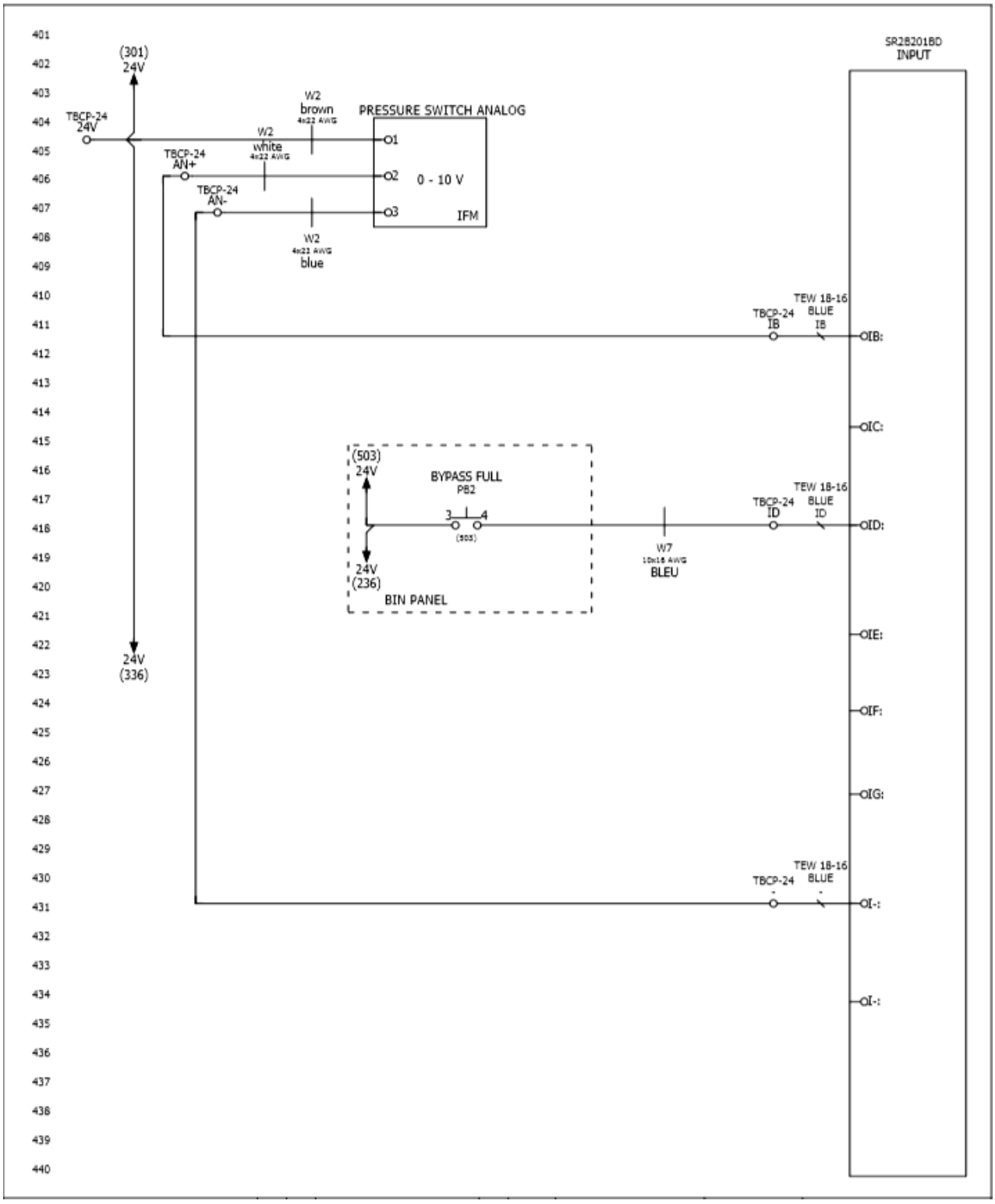


MÉTALLURGIE DES APPALACHES	REV	PAGE	DESCRIPTION OF THE REVIEW	BY	DATE	DRAWING BY BRUNO LAPIERRE	DATE 2019.05.03	TITLE ELECTRICAL WIRING	
						CHECK BY	DATE	PROJECT BP_BPAK-004-208	
						APPROVED BY	DATE	REVIEW	PAGE 2 01 10

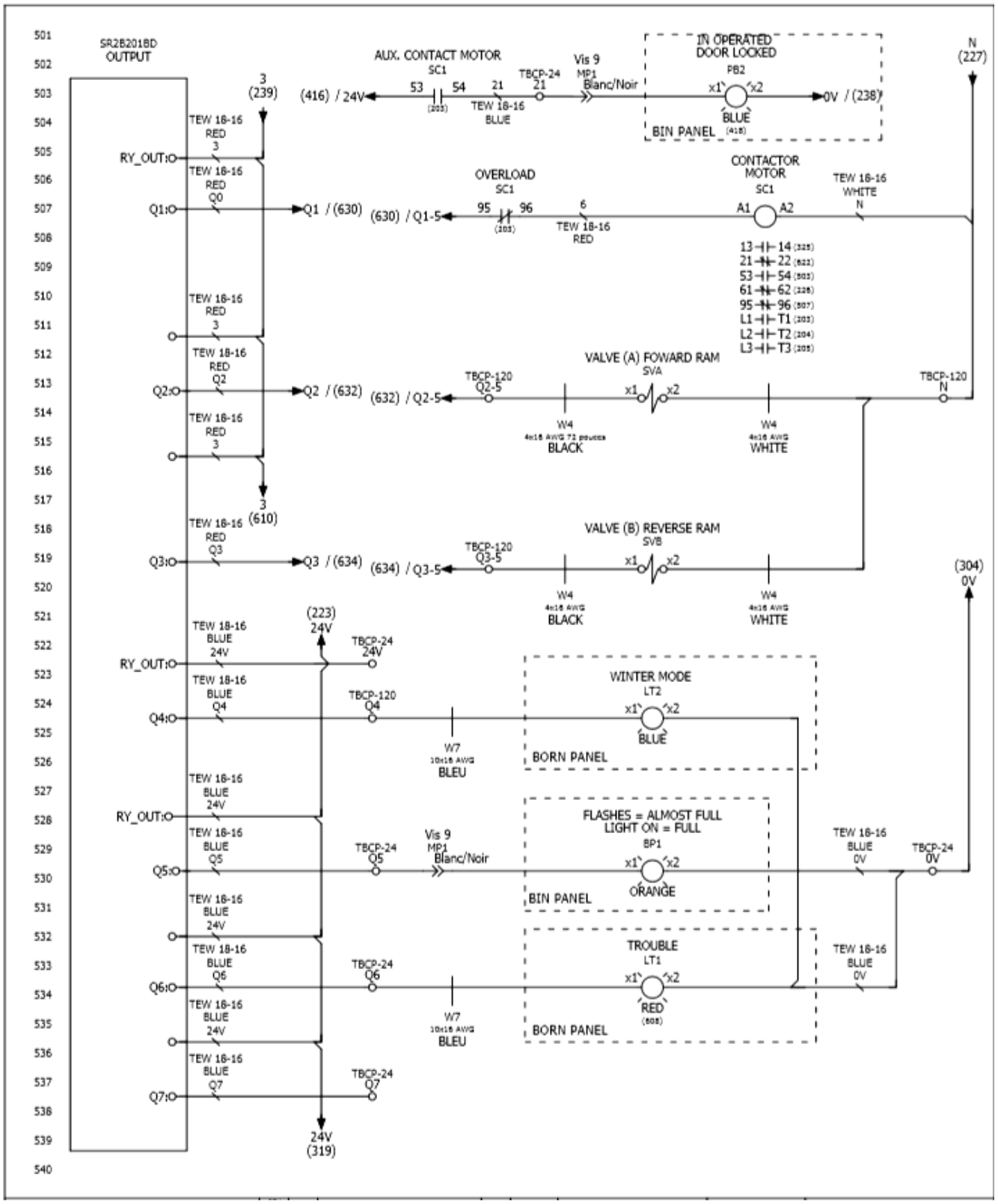
ELECTRICAL DIAGRAM



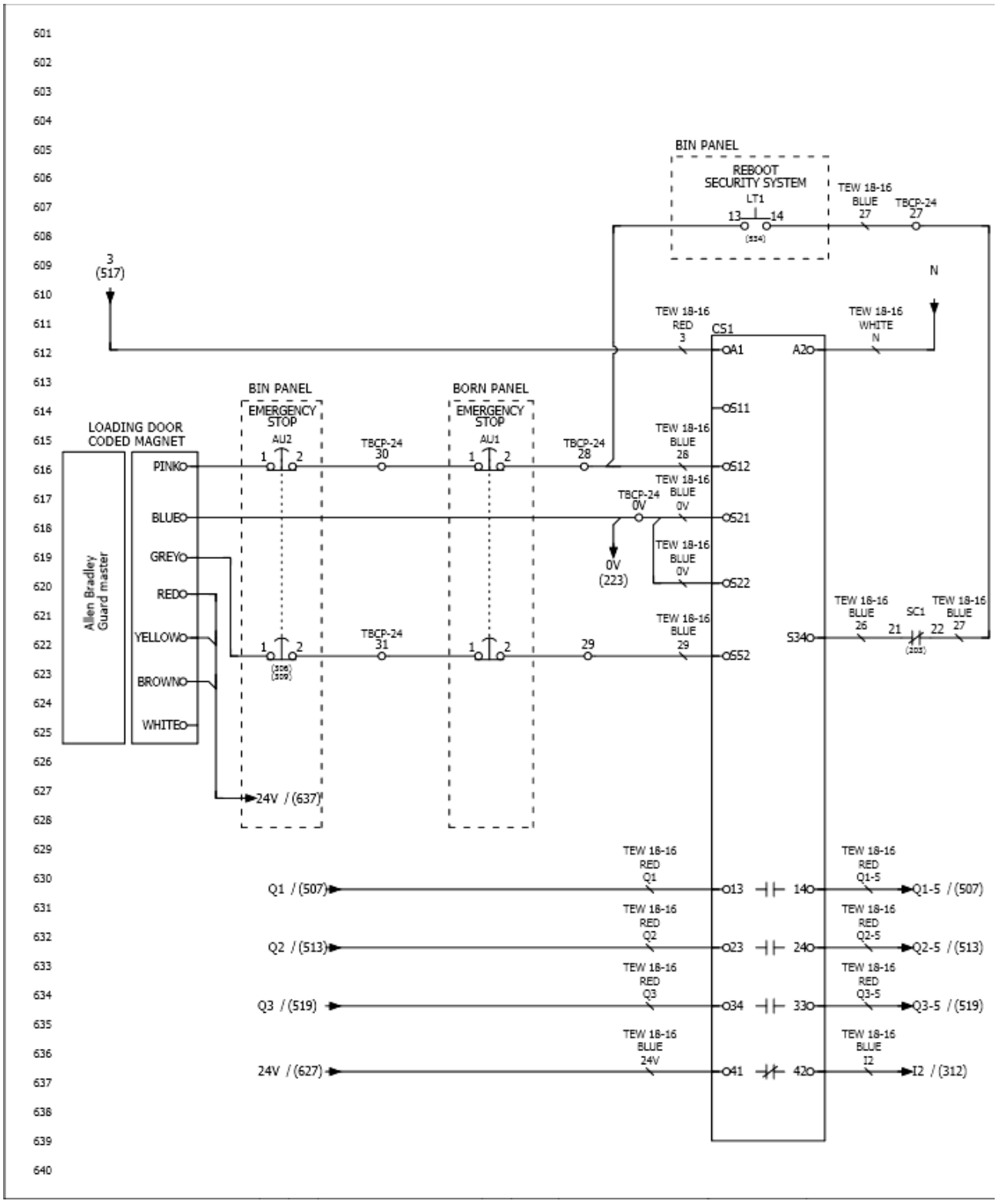
ELECTRICAL DIAGRAM



ELECTRICAL DIAGRAM



ELECTRICAL DIAGRAM



ENERGY CONTROL POINT

E1

ELECTRIC

MAIN CURRENT —VERTICAL BALER

LOCKUP PROCEDURE

1- WARN THE PERSONNEL THAT THE EQUIPMENT IS SUBJECT OF A LOCKUP PROCEDURE.

2- PUT EQUIPMENT IN ‘’OFF” POSITION.

3- DISCONNECT ALL SOURCES OF POWER SUPPLY.

4- USE OF THE LOCK:

(a) USE A SAFE ENCLOSURE FOR ELECTRIC OUTLETS (ABLE TO CLOSE WITH A KEY);

(b) TIE IT AROUND A SOLIDE AND STATIONARY OBJECT ;

(c) PUT THE CONJUNCTION BOX IN THE "OFF" POSITION AND PUT THE LOCK ON.

5- DO NOT LEAVE THE KEY ON THE LOCK, IN PREFERENCE PUT IT IN A SAFE PLACE UNTIL THE END OF THE WORK THAT IS EXECUTED.

6- ENSURE THAT EQUIPMENT CANNOT BE RE-OPERATED (THAT THE CONJUNCTION BOX CANNOT BE RECONNECTED IN ANOTHER SOCKET)

7- VERIFY THAT EVERYTHING IS WITHIN STANDARDS AND THAT THE EQUIPMENT CANNOT BE RE-OPERATED. IF IT IS NOT THE CASE, REPEAT STEPS FROM STEP 1.

8- VERIFY THAT ALL CONTROLS ARE IN OFF POSITION.

9- VERIFY THAT THERE ARE NO OTHER POWER SOURCE.

10– DURING MAINTENANCE OPERATIONS OR REPAIRS ON THE EQUIPMENT YOU MUST WEAR PROTECTIVE GLASSES AND GLOVES AS REQUIRED BY THE MANUFACTURER

END OF LOCKUP PROCEDURE

1- RESET ALL PARTS IN PLACE. VERIFY THAT THE SECURITY PIECES ARE ALL INSTALLED.

2- ENGAGE THE RESETTING PROCEDURE.

3- VERIFY THAT THE LOCKS ARE REMOVED AND THAT THE SAFETY DEVICES ARE CORRECTLY IN PLACE.

4- MAKE SURE TO KEEP THE PERIMETER SAFE AND WARN ALL PERSONNEL THAT THE EQUIPMENT IS READY TO BE OPERATED.

5- TURN ON THE EQUIPMENT AND VERIFY THAT ALL THE FUNCTIONS OF THE

"" TO CUT AND PUT ON THE ELECTRIC SECTIONER. ""

"" TO CUT AND PUT ON THE ELECTRIC SECTIONER. ""

Contract No. : _____

Attestation of group training

During the installation of the 6 PAK as of _____, the following employees were present to receive the 6 PAK user training.

Signature of employees that have received the training (client);

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

The training was given by : _____

In the presence of MDA installers : _____

_____

Chief of staff (client); _____

_____