Always keep this manual in a safe readily accessible location.

MODEL_____

SERIAL_____

SERVICE COMPANY_____

TELEPHONE NUMBER_____

For Operating Instructions or Technical Support
Call 1-507-886-6666

Last Revision: 1/31/12

Starting with Ser. # M60STD-4265

Table of Contents

SAFETY-READ BEFORE OPERATING

Safety Instructions

A.  **Warning:** Any changes to the original construction, components, programs, wiring and or documents of any kind in any way related to the compactor without authorization from Harmony Enterprises Incorporated will void the warranty and any liability immediately.

B.  **Warning:** It is the responsibility of the end user to properly install the compactor in accordance with all local, state, and federal codes, and within manufacture's guidelines unless it is requested by the end user that a representative of Harmony Enterprises conduct the install. Consult your distributor or the factory with any questions before attempting installation. Locate and install compactor to meet all **OSHA** and **ANSI Z245.5** safety requirements.

C.  **Warning:** It is the responsibility of the end user to take appropriate action to insure all employees and operating personnel understand and adhere to all safe operating procedures of the compactor. In the event that the operator of the compactor is unable to read in English, it is the employer's responsibility to translate these instructions either verbally or in writing so that the operator fully understands the operation procedures.

D.  **Warning:** No one under the age of 18 may operate the compactor. No one under 16 may load material into the compactor. Failure to abide may violate federal law.

E.  **Warning:** Safety of the operator is of prime importance in operation of the compactor. The compactor is equipped with several standard safety features. Switches are used to monitor all access doors to ensure they are closed and secured before any automatic movements are allowed. This prevents access to the chamber area, protecting the operator from potential injury.

F.  **Warning:** Do not attempt to process unauthorized materials such as glass, concrete, steel, wood, tanks, or containers could cause serious injury and damage to the baler**.**

G.  **Warning:** Do not compact any volatile or combustible materials in the baler.

H.  **Warning:** Do not attempt to enter the chamber area. Do not put hands or feet in or near the chamber when the machine is in operation. Stand clear of the compactor while the compactor is cycling or when ejecting a bale. Keep working area clean and dry with no obstructions. Do not stack things on baler.

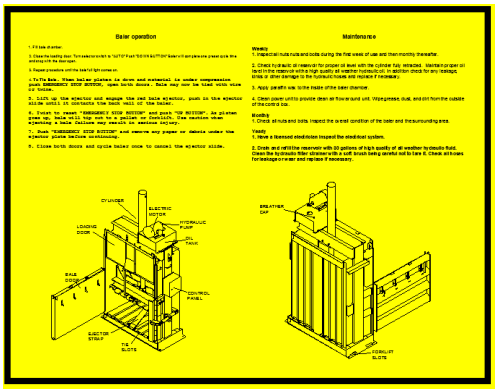
I.  **Warning:** Remove the key from the key switch on the machine after use to prevent any unauthorized use of the baler.

J.  **Warning:** The baler is intended to compact and bale recyclable materials including high and low-density recyclable plastics. Any materials other than these common commodities should be authorized and verified by your local distributor.

K.  **Warning:** Repair work should be performed by a Harmony Enterprises certified service technician only. Contact local distributor for instructions on how to proceed when defects are suspected.

SAFETY-READ BEFORE OPERATING

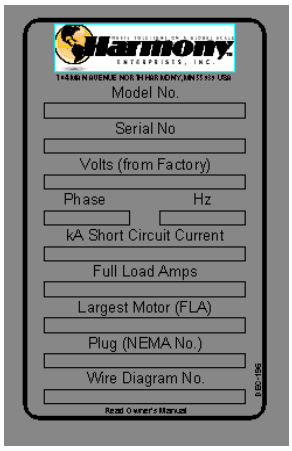
Decals



#120

#107

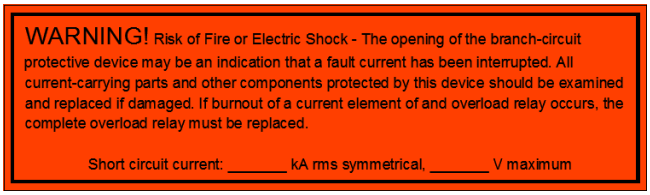
#219



#196

#81

#111



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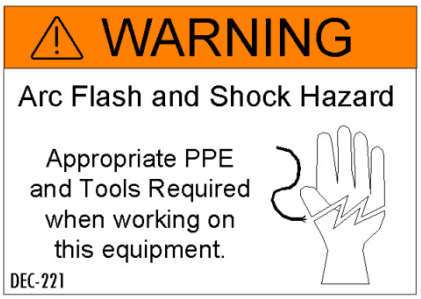

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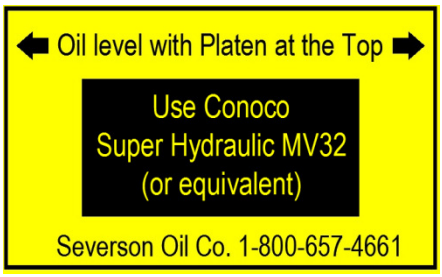

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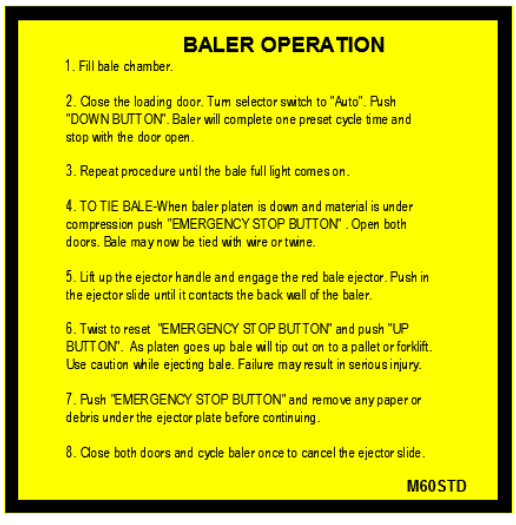

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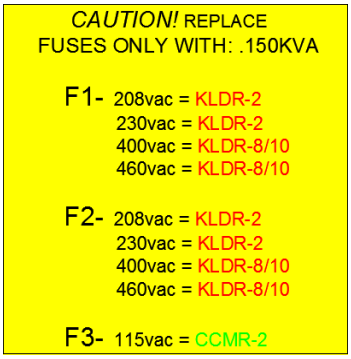


#152

#4

#18

#80

#168

#4 – This decal informs the operator that the platen must be fully extended before moving the baler.

#18 – This decal informs the operator that the unloading door must be open before ejecting a bale.

42 – This decal lets the operator know what type of hydraulic oil to use in the baler hydraulic circuit and how to read the oil level properly.

#80 – This decal alerts the operator to the presents of dangerous voltage higher than 120 volts.

#81 – This decal informs the operator that the baler meets or exceeds the requirements for ANSI standard Z245.5 *Safety Requirements for Baling Equipment.*

#107 – This decal is the decal for Harmony Enterprises Inc, the manufacturer of the baler.

#111 – This decal informs the operator that the main electrical disconnect shall be supplied by the customer who purchased the baler. The disconnect on the baler electrical panel is not the main electrical disconnect.

#113 – This decal informs the operator on the correct procedure for operating the baler.

#120 – This decal informs the operator on the correct procedure for operating the baler as well as the recommended preventative maintenance schedule.

#151 – WARNING: RISK OF FIRE OR ELECTRIC CHOCK – THE OPENING OF THE BRANCH CIRCUIT PROTECTIVE DEVICE MAY BE AN INDICATION THAT A FAULT CURRENT HAS BEEN INTERUPTED. ALL CURRENT CARRYING PARTS AND OTHER COMPONENTS PROTECTED BY THIS DEVICE SHOULD BE EXAMINED AND REPLACED IF DAMAGED. IF BURNOUT OF AN OVERLOAD RELAY OCCURS, THE COMPLETE OVERLOAD RELAY MUST BE REPLACED.

This decal informs the operator that in the event of a sudden loss of power or surge all current carrying devices including relays shall be examined and replaced if damaged to avoid the risk of fire or electric shock once power is restored.

#152 – This decal informs the operator of the proper fuses to use based on the voltage supplied in the event that one or multiple fuses need to be replaced.

#168 – This decal informs the operator that it is hazardous to bale any volatile, toxic or flammable materials in the baler.

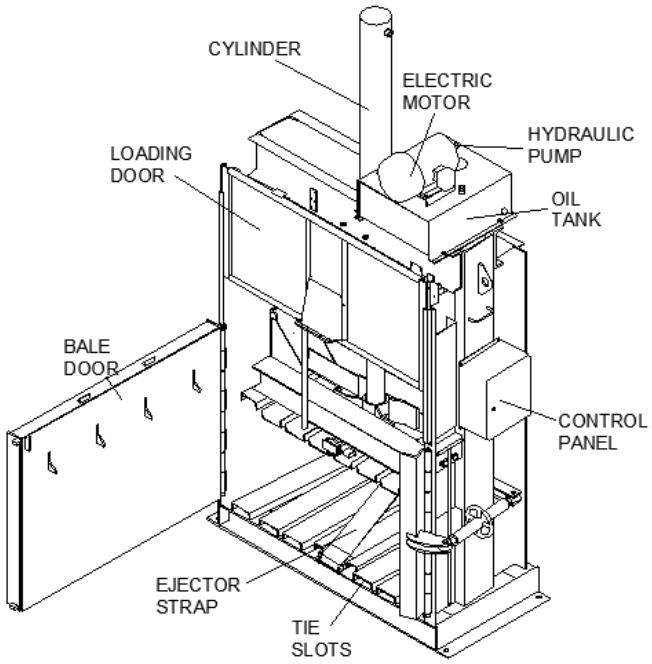
#196 – This deal lists the information for model, serial number, corresponding wiring schematic, and voltage and amp draw of the machine.

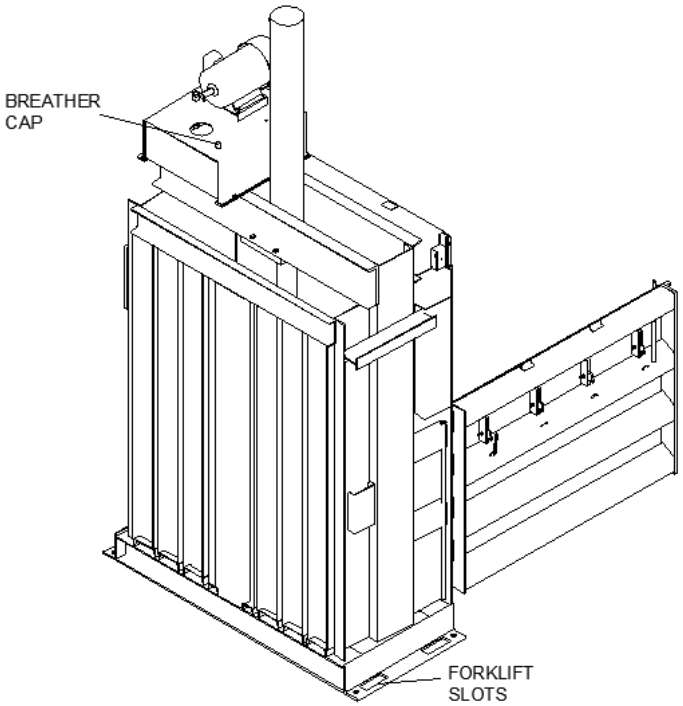
#219 – This decal informs the operator as well as surrounding personnel that they must be at least 18 years of age to operate the machine.

#221 – This decal informs the operator that proper PPE (Personal Protective Equipment) must be warn when operating the machine.

PRODUCT DESCRIPTION

Baler Components



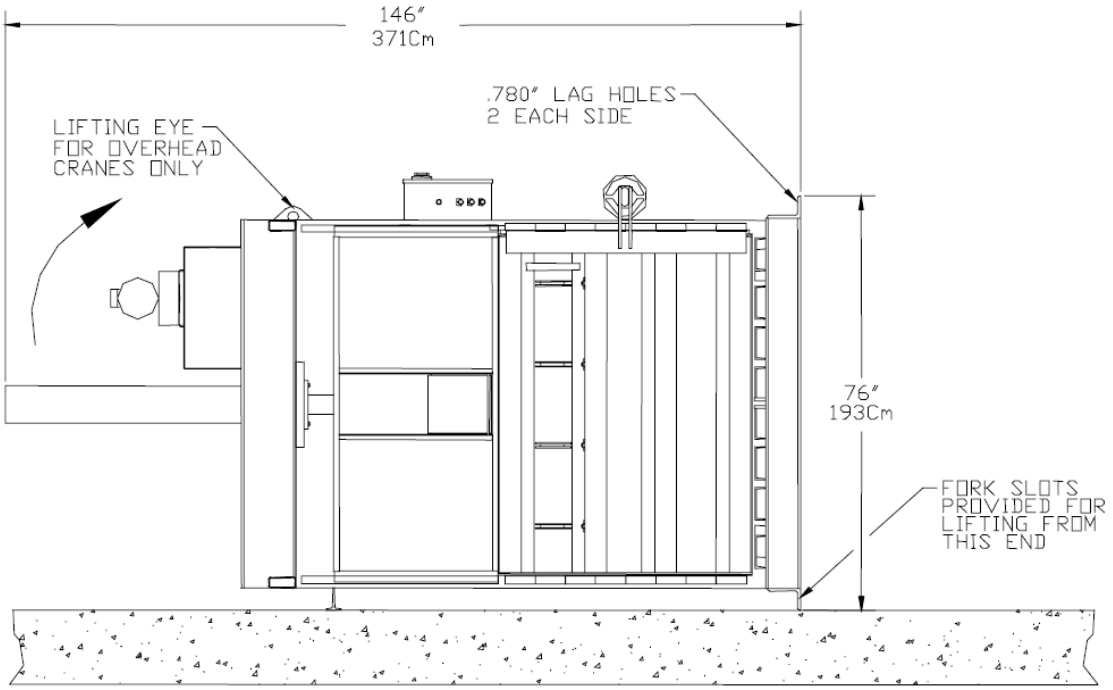


INSTALLATION AND SETUP

Baler Unit Set-Up

- The baler is shipped with the hardware for setup packaged inside the chamber.
- The M60STD baler requires a minimum 8-ft x 10-ft operating area.
- The M60STD baler is shipped on its side unless special circumstances are arranged prior to the shipping process.
- Use the figure below as a reference when standing the baler upright
- Use the forklift tine slots provided to assist in moving the baler to the desired location. A forklift with a minimum 6,000lb capacity is recommended.
- It is recommended by Harmony Enterprises that a professional rigger be used to erect the baler. This can be coordinated by your local distributor.

1. Once the baler has been stood up, remove the banding from the door handle on the loading door.
2. Remove the restraints on the counter balance weights to allow the loading door to open.
3. Remove the clean out rod from the chamber area.
4. Open the control panel and remove the breather cap and keys.
5. Remove the hydraulic tank cap and replace it with the breather cap.
   IMPORTANT: Do not operate the machine until the breather cap has been installed
6. Give the baler a thorough visual inspection for any damage during transit.
7. Coat the inside of the chamber with paraffin wax. This will aid in the bale eject process.
8. Place a sheet of cardboard at the bottom of the chamber that covers the entire floor. This will aid in the bale tying process.



INSTALLATION AND SETUP

Electrical Set-Up

Warning: The incoming voltage must be the same as the baler voltage, and the circuit must be capable of handling the electrical demand. The use of any phase conversion is not recommended.

- The M60STD baler comes standard from the factory wired for 3-phase voltages of 208, 230, or 460 VAC.
- The M60STD baler will arrive pre-wired for the voltage specified at the time of purchase. Use the chart below to determine wire size, fuse size and the receptacle required for this voltage.
- The M60STD baler must be connected to a properly installed and inspected branch circuit. All wiring must comply with local codes as well as the National Electric Code.

BASED ON UL508A

3- Phase	10.0 HP	208V	230V	480V
Wire Size	Gauge (Minimum)	8	8	12
Current Protection	Amp (Maximum)	40	37	19.2
Full Load Amps	Amp (Maximum)	32	29.3	15.3
Motor FLA	Amp FLA	30.8	28	14
NEMA Plug		L15-30P	L15-30P	L16-20P
NEMA Receptacle		L15-30R	L15-30R	L16-20R

NOTE: The above information is for reference only. All wiring must comply with local as well as National Electric Code.

INSTALLATION AND SETUP

Initial Testing

 **Warning:** No one under the age of 18 may operate this compactor. No one under 16 may load material into this unit. Failure to abide may violate federal law.

 **Warning:** Do not operate this unit until you have completely read and fully understand the instructions in this manual. Make sure all access covers are closed and secured and all safety devices are engaged. Clear all persons from the operating area before testing.

 **Warning:** Avoid all contact with hydraulic fluid. If injury results from contact with fluid consult a doctor immediately. Do not operate compactor if hydraulic fluid is leaking in any area.

1. Confirm that the electrical setup has been completed.
2. Confirm that the loading and unloading doors are closed.
3. Insert the key into the key selector switch on the control panel and turn it to the “AUTO” position
4. Press the “DOWN” button on the control panel to cycle the baler. The platen will move down for a predetermined amount of time and return to the fully retracted position automatically. The loading door will open automatically when the platen begins to retract.

   NOTE: The standard down stroke time is set from the factory to be 30 seconds. This value is adjustable based on compacted material densities
5. See the section entitled TROUBLESHOOTING AND SERVICE if the cycle time needs to be adjusted.

BALER OPERATIONS

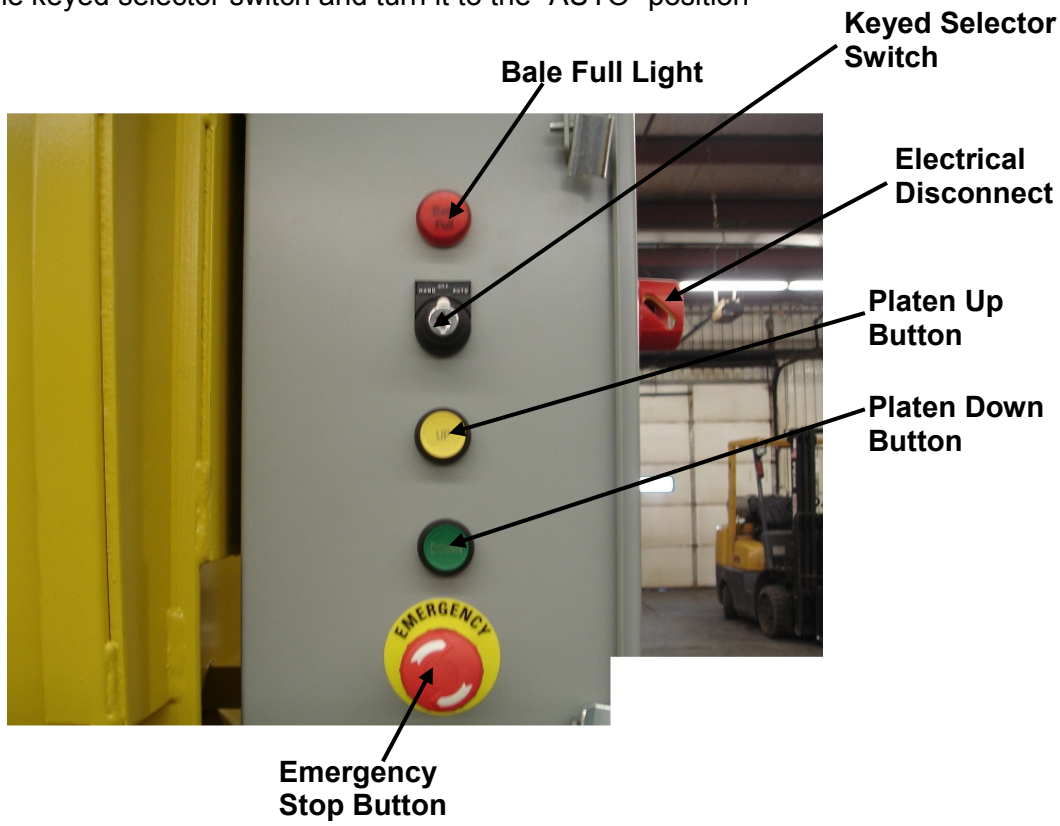
Warning: No one under the age of 18 may operate this compactor. No one under 16 years of age may load material into this unit. Failure to abide may violate federal law.

Warning: Do not compact any volatile or combustible materials in this compactor.

Warning: Any attempts to process unauthorized materials such as glass, concrete, steel, wood, tanks, or containers could cause serious injury and damage to the compactor.

Compacting Material

1. Open the loading door by pushing up on the loading door handle.
2. Place refuse in the chamber via the loading door.
3. Close the loading door.
4. Insert the key in to the keyed selector switch and turn it to the “AUTO” position



5. Press the green “DOWN” button. The platen will cycle for a predetermined amount of time and automatically return to the fully retracted position. The loading door will reopen automatically when the platen begins to retract.
6. Repeat the process until the Bale Full Light comes on.

BALER OPERATIONS

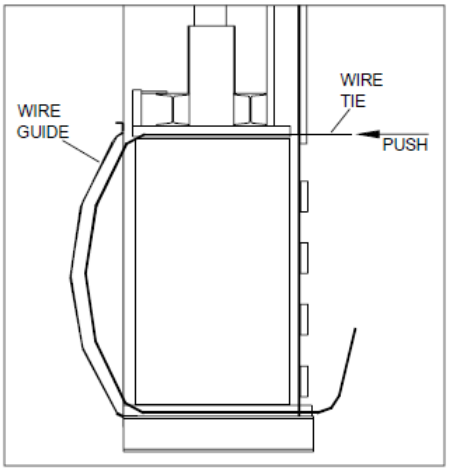
Warning: Stand clear of the compactor while in operation and when ejecting a cube. Keep working area clean and dry with no obstructions. Do not stack things on compactor.

Warning: No one under the age of 18 may operate this baler. No one under 16 may load material into this unit. Failure to abide may violate federal law.

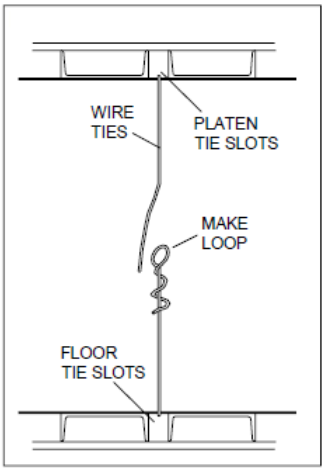
Tying A Full Bale

- It is recommended that 14 gauge wire ties be used to tie a bale. Different gauges may be necessary depending on the material being baled.

1. Insert the key into the keyed selector switch and turn it to the "HAND" position.
2. Press the yellow "UP" button to retract the platen a few inches.
3. Open the loading door and place a flat sheet of cardboard on top of the bale.
4. Press the green "DOWN" button. When the platen stops moving press the EMERGENCY STOP button.
5. Open the unloading door.



Option 302



Standard

6. From the rear, feed one end of the wire ties through the tie slots under the bale.
   NOTE: If Option 302 is included. Feed the wire ties from the front.
7. Feed the other end of the wire ties through the tie slots in the platen.
8. Form a loop in the wire ties as shown, feed the remaining end through the loop and pull tight.
9. Twist to secure.

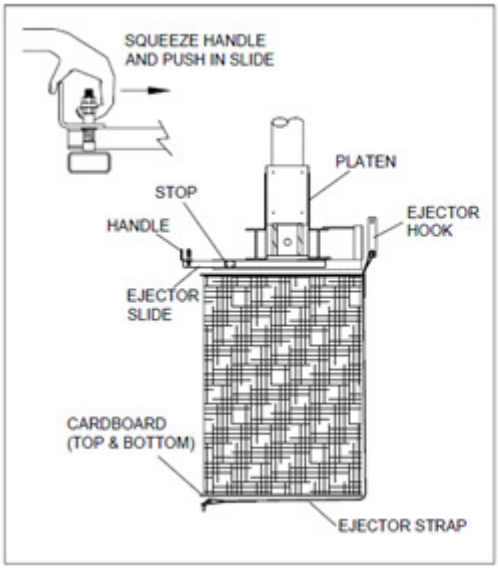
BALER OPERATIONS

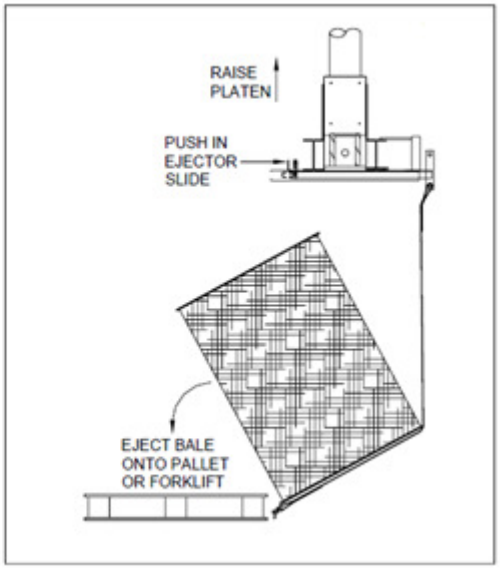
Warning: Stand clear of the compactor while in operation and when ejecting a cube. Keep working area clean and dry with no obstructions. Do not stack things on compactor.

Warning: No one under the age of 18 may operate this baler. No one under 16 may load material into this unit. Failure to abide may violate federal law.

Ejecting A Full Bale

1. Follow the procedure for **Tying A Full Bale** before proceeding.
2. Position a pallet in the opening of the unload door. The bale will be tipped on to the pallet during the bale eject process.
3. Grab the red and black handle located in the center of the platen.





4. Pull up on the black handle and push the red ejector slide back until it makes contact with the rear wall of the chamber.
   NOTE: When the bale full light is on the platen will automatically stop in the proper location to engage the ejector.
5. Turn and hold the keyed selector switch to the "HAND" position and press the yellow "UP" button. The platen will retract and tip the ejector plate forward, tipping the bale onto the pallet.
6. Retract the platen all the way to cancel the bale ejector handle and plate.
7. Perform steps 5 and 6 in the section **Baler Unit Set-Up** to prepare for the next bale.

MAINTENANCE

Recommended Lock-Out/Tag-Out Procedure

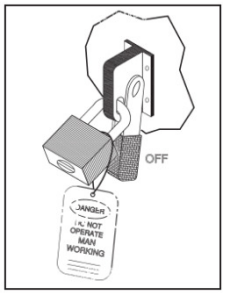
Warning: Access panels, limit switches and devices shall be maintained to function at all times to protect personnel and meet safety requirements.

Warning: Avoid all contact with hydraulic fluid. If injury results from contact with fluid consult a doctor immediately. Do not operate compactor if hydraulic fluid is leaking in any area.

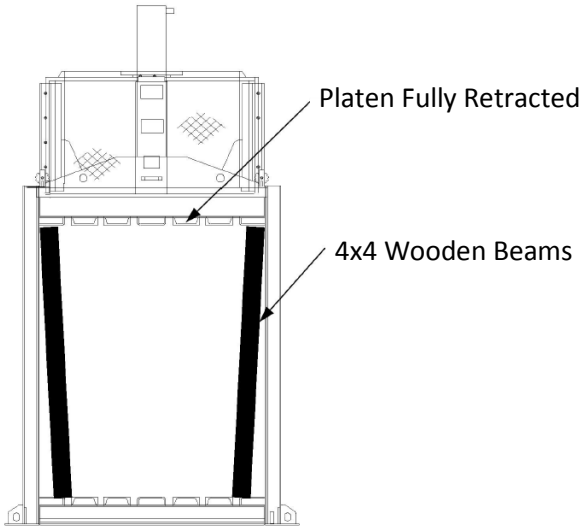
Warning: Lock-out/Tag-out procedures must be in accordance with OSHA and ANSI Z245.5 requirements.

Warning: It is the responsibility of the employer whose employees are engaged in installing, repairing, adjusting, inspecting, operating, or maintaining the compactor to develop, document, and implement a policy and procedure for locking / tagging out any potentially hazardous energy source. This is of paramount importance and must be completed before any work is done to the compactor.

1. Disconnect electrical power from the baler by switching off the disconnect located on the control panel.
2. Place an appropriate padlock on the disconnect switch and place a warning tag that reads UNDER REPAIR DO NOT USE on the power source and on the baler control panel.



3. With the loading and unload door fully open, place two (2) 4x4 wooden beams underneath the platen for support, one in each corner as shown below.



4. Double check that the compactor has no electrical power by testing for voltage on the power source with a voltmeter.
5. Test the compactor for power by attempting to operate it.
6. Remove all stored hydraulic energy by manually relieving pressure in the directional valve. Press in on the ends of the valve to relieve pressure.
7. When the job is complete, clear the area of all unauthorized personnel before removing the lock and tags.
8. Reconnect all electrical power to the baler.

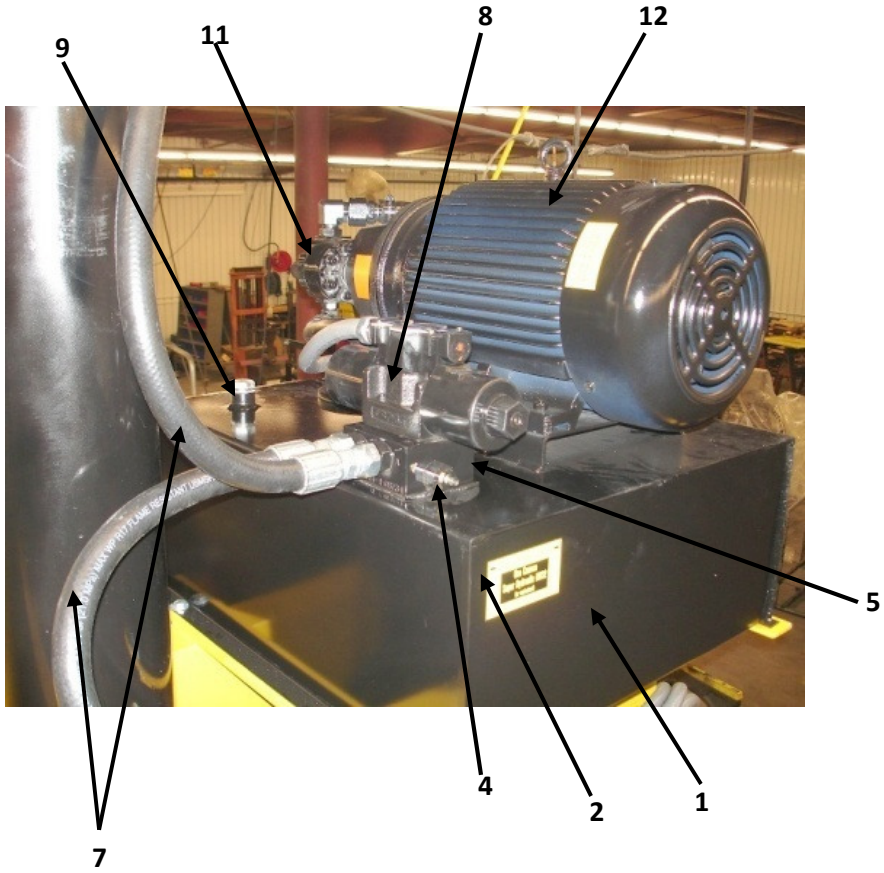
Maintenance

Preventative Maintenance

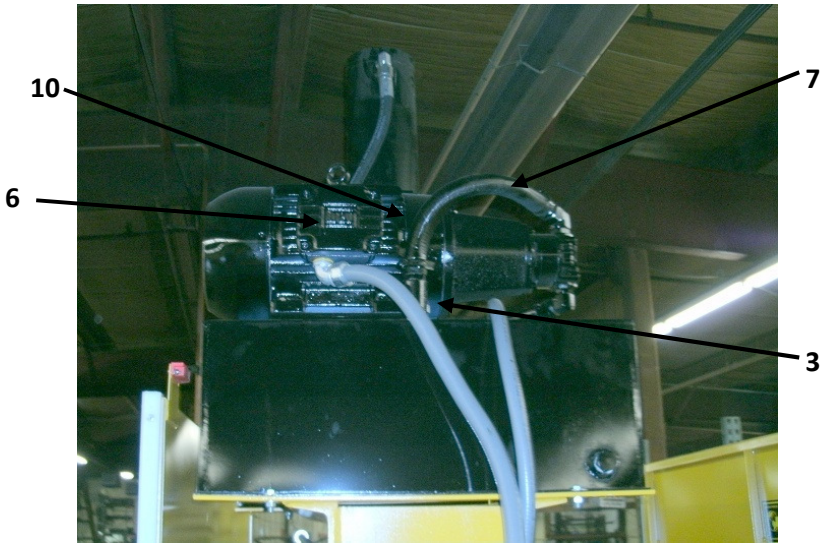
The following chart displays the recommended tasks for preventative maintenance of the baler.

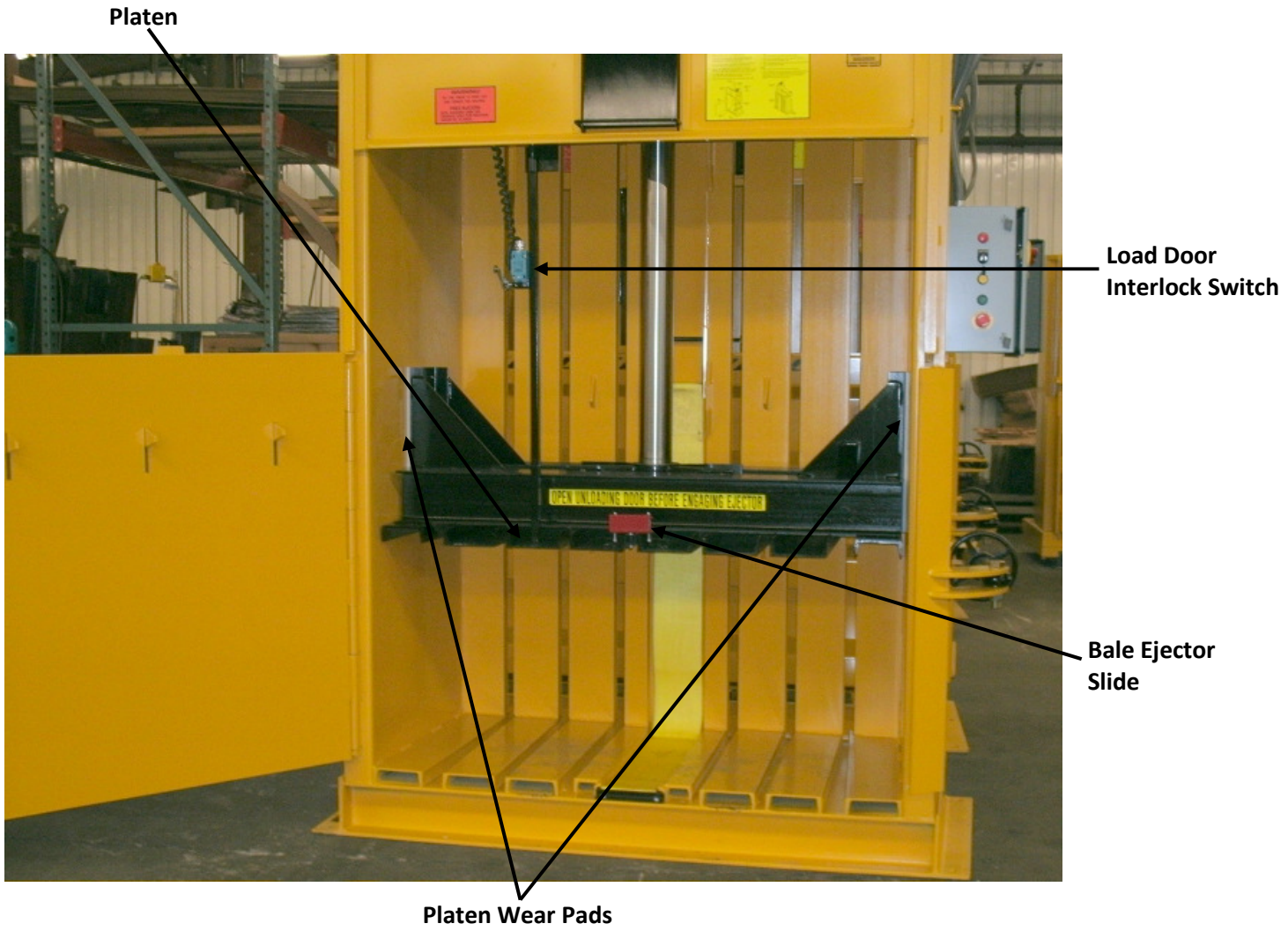
- The term **CHECK** refers to a visual inspection for correct operation of and damage to the components of the baler.

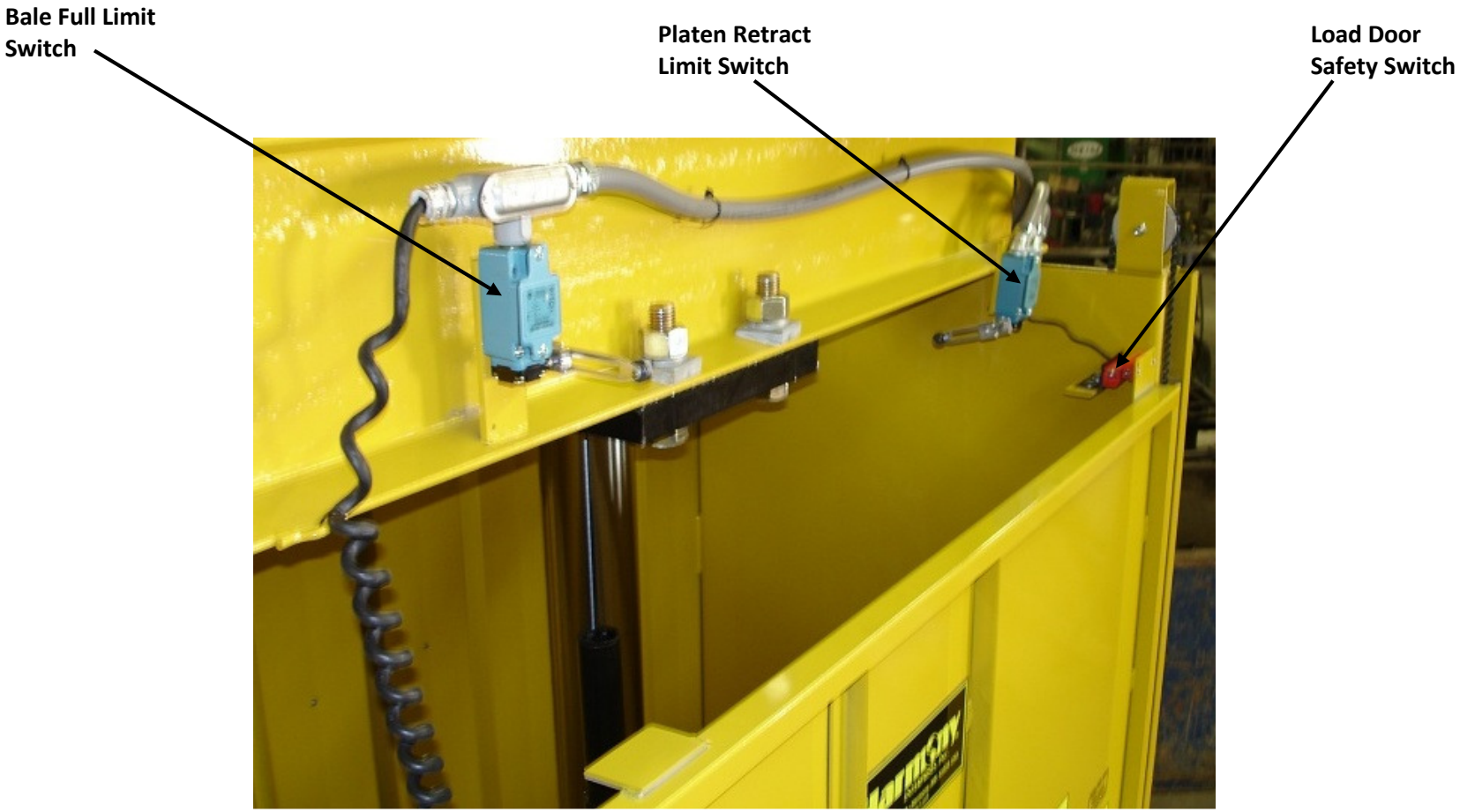
Item	Reference	Frequency			Lubricant/Notes
		Weekly	**Monthly**	**Annually**	
Oil Tank Level	Page 18	Check			MV32 Hydraulic Oil
Hydraulic Hoses	Page 18	Check			
Limit Switches	Pages 19, 20	Check			
Oil	Page 18			Change	MV32 Hydraulic Oil
Suction Filter	Page 18			Change	
Platen	Page 19		Clean		
Oil Return Filter			Replace		Option 326
Platen Wear Pads	Page 19	Check			
Desiccant Breather	Page 18		Replace		

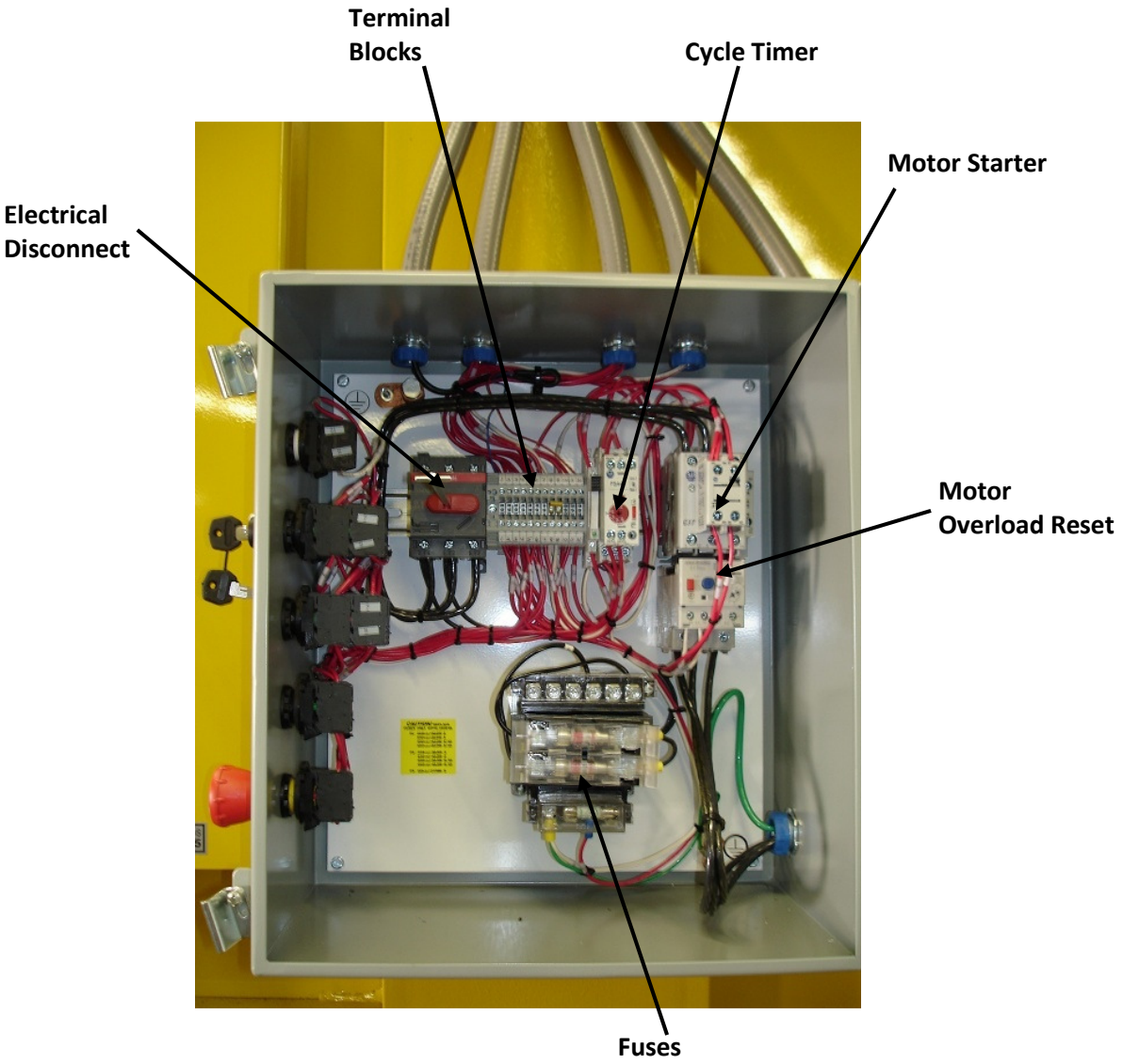


		Notes
1	Oil Tank	
2	Oil Tank Sight Screw	Remove to view oil level, platen must be retracted to read oil level properly
3	Suction Filter Location	Suction filter is located inside the oil tank
4	Pressure Relief Valve	Adjust to make sure pressure gauge always reads 1800psi
5	Pressure Gauge Fitting	Install pressure gauge here
6	Motor Rotation Wiring	
7	Hydraulic Hoses	Inspect for leaks, damage
8	Directional Valve	
9	Descent Breather Connection	
10	Motor Nameplate	
11	Hydraulic Pump	
12	Baler Motor	




Platen
Load Door
Interlock Switch
Bale Ejector
Slide
Platen Wear Pads


Bale Full Limit Switch
Platen Retract Limit Switch
Load Door Safety Switch

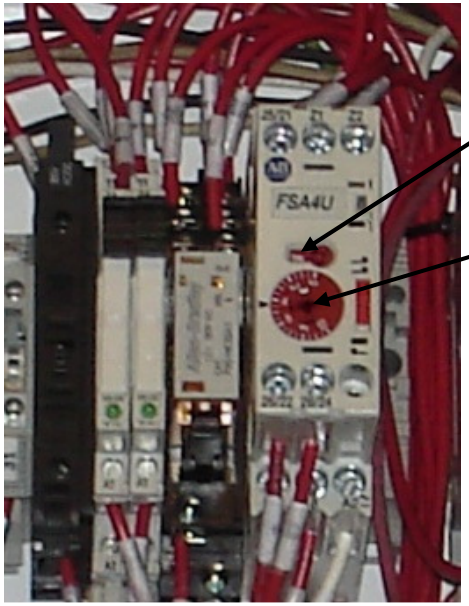

Terminal Blocks
Cycle Timer
Motor Starter
Electrical Disconnect
Motor Overload Reset
Fuses

TROUBLESHOOTING AND SERVICE

Warning: Troubleshooting and or service are to be performed by a Harmony Enterprises certified service technician only.

Adjusting The Cycle Timer

The function of the cycle timer is to have the ability to adjust the amount of time it takes for the baler to complete the down stroke of a baling cycle. Different materials can require more or less time to compact due to varying densities.



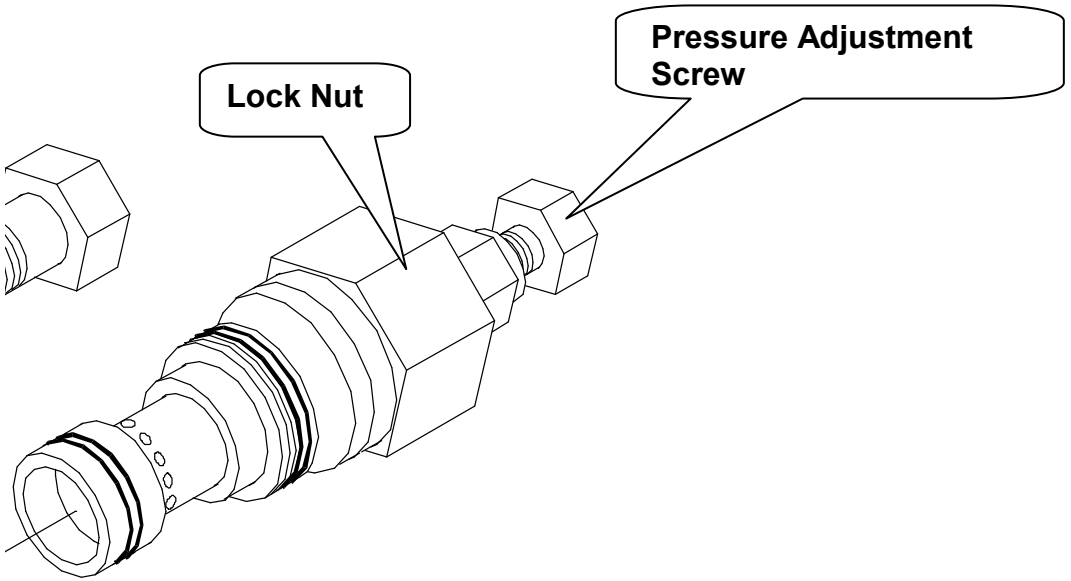
1. The dial window can be set to the desired unit of measure including: seconds, minutes, and hours.
2. The timer dial is used to set a certain percentage of the units chosen in step 1. The dial is labeled 0 – 10 with 10 equal to 100% of the duration and 5 equal to 50% of the duration chosen in step 1. The standard setting is 1M (1 minute) and the dial is set to 50% of 1 minute which is 30 seconds.

Adjusting The Pressure Relief Valve

The function of the Pressure Relief Valve is to control and set the maximum allowed hydraulic system pressure to 2000psi.

Warning: Troubleshooting and or service are to be performed by a Harmony Enterprises certified service technician only.

1. Install a hydraulic pressure gauge rated from 0 - 3000psi into the fitting on the manifold.
2. Loosen the lock nut.

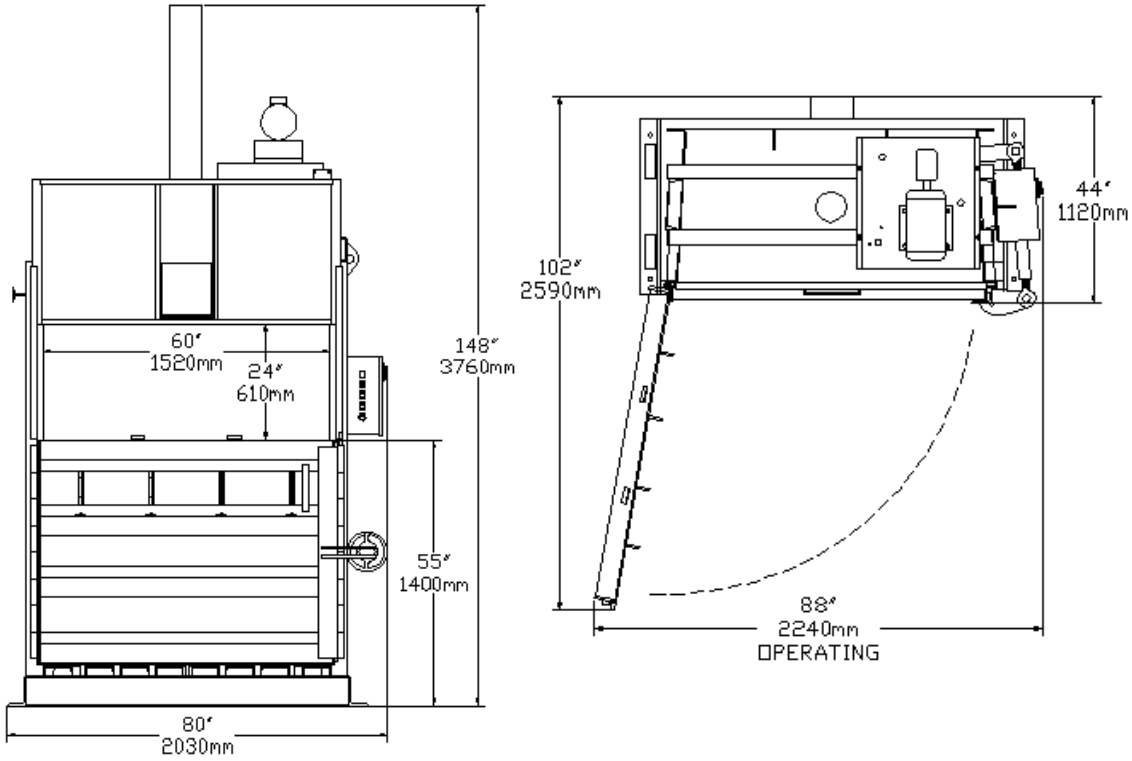


3. Turn the selector switch to the “HAND” position. Press the “DOWN” button to send the platen in the downward direction. When the platen is fully extended the gauge should read 1800psi.
4. Turn the screw out to lower the pressure until the gauge reads 1800psi or in to raise the pressure until the gauge reads 1800psi and retighten the lock nut on the Pressure Relief Valve.
5. Remove the pressure gauge and run a test cycle.

APPENDIX

Specifications and Dimensions

3 - Phase		
	USCS	**Metric**
Width	80 in	2030 mm
Height	148 in	3760 mm
Depth	44 in	1120 mm
Cube Capacity	53 cu-ft	1504.5 L
Reduction Ratio	25:1	25:1
Motor	10 hp	7460 W
Ram Total Force	56550 lbs	25651 kg
Cycle Time	49 sec	49 sec
Cylinder (BxRxS)	(6x4x48) in	(152x102x1219) mm
Electrical Power	208V/230V/460V	208V/230V/460V
Net Weight	5100 lbs	2313 kg

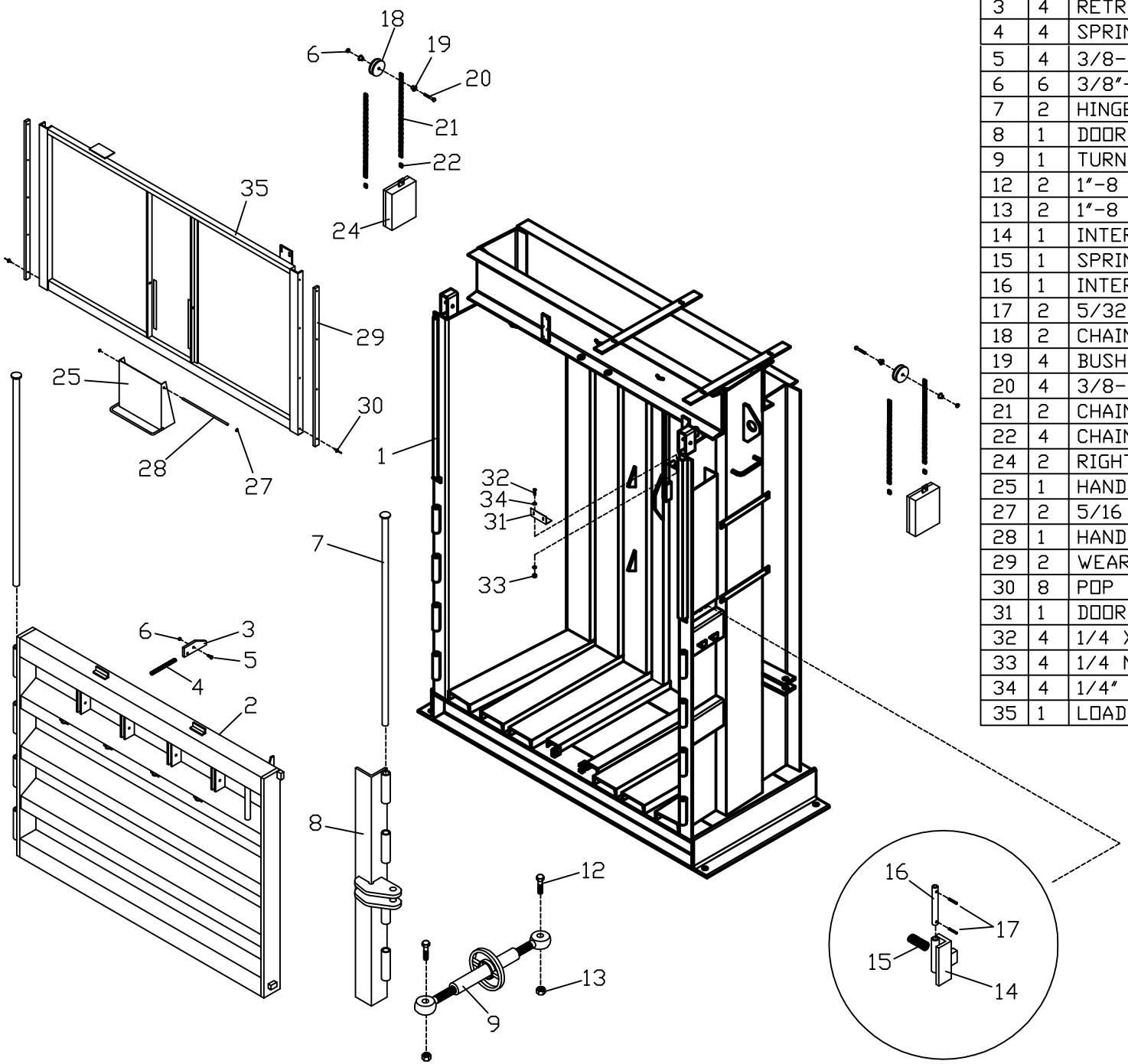


APPENDIX

Assembly Drawings and Schematics

M60STD CHAMBER

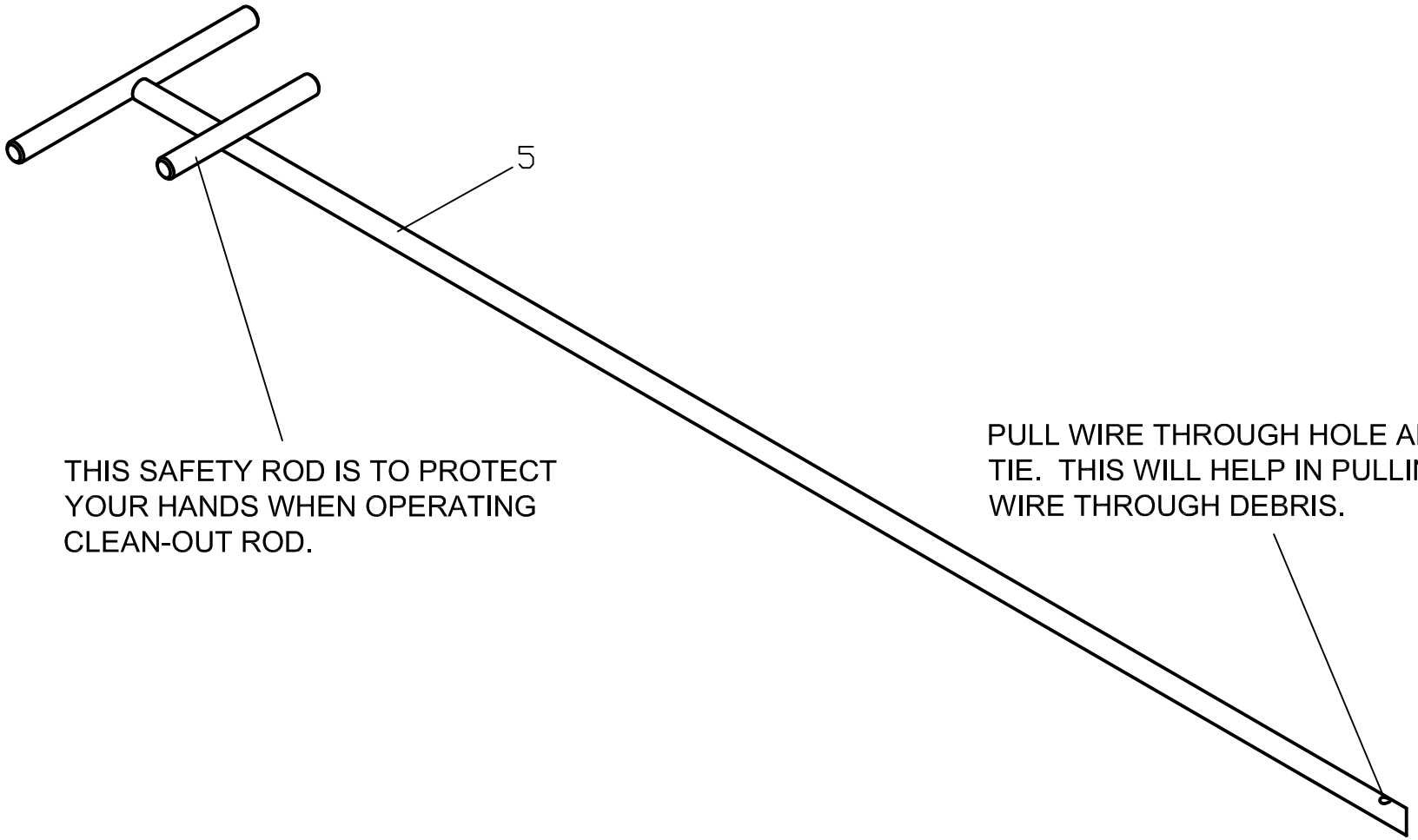
NO	REVISIONS	ECO	DATE	BY
11	CHANGE EJECT SYSTEM TO USE STRAP STARTING SERIAL NO: M60STD-4179	2577	4/29/11	REC



ITEM	QTY	DESCRIPTION	PART NO.
1	1	CHAMBER WELDMENT	N60STD-1050
2	1	UNLOADING DOOR	N60STD-5000
3	4	RETRACTABLE DOG	N60STD-5006
4	4	SPRING	9064
5	4	3/8-16 X 2 HEX HD CAP SC	9214
6	6	3/8"-16 UNITORQUE LOCKNUT	9143
7	2	HINGE PIN ASSY.	N60STD-5004
8	1	DOOR LATCH	N60STD-5400
9	1	TURNBUCKLE	M60STD-5350
12	2	1"-8 X 4 1/2" HEX HD BOLT	G-8241
13	2	1"-8 NYLOCK NUT	9180
14	1	INTERLOCK ASSEMBLY	M42HD-5400
15	1	SPRING	G-7615
16	1	INTERLOCK PIN	M42HD-5500
17	2	5/32 X 3/4" TENSION PIN	1613
18	2	CHAIN PULLEY	N60STD-7201
19	4	BUSHING	U-378
20	4	3/8-16 X 2 1/2 HEX BOLT	9023
21	2	CHAIN	U-379
22	4	CHAIN LINK	M60-7207
24	2	RIGHT DOOR WEIGHT	N60STD-7210R
25	1	HANDLE ASSEMBLY	N60STD-7007
27	2	5/16 END CAPS	9065
28	1	HANDLE ROD	N60STD-7009
29	2	WEAR PAD	N60STD-7025
30	8	POP RIVET	9137
31	1	DOOR CLOSE MOUNT	PP200-7006
32	4	1/4 X 3/4 PAN HD SCREW	9017
33	4	1/4 NYLOCK NUT	9133
34	4	1/4" FLAT WASHER	9319
35	1	LOADING DOOR	N60STD-7000

CLEAN-OUT ROD

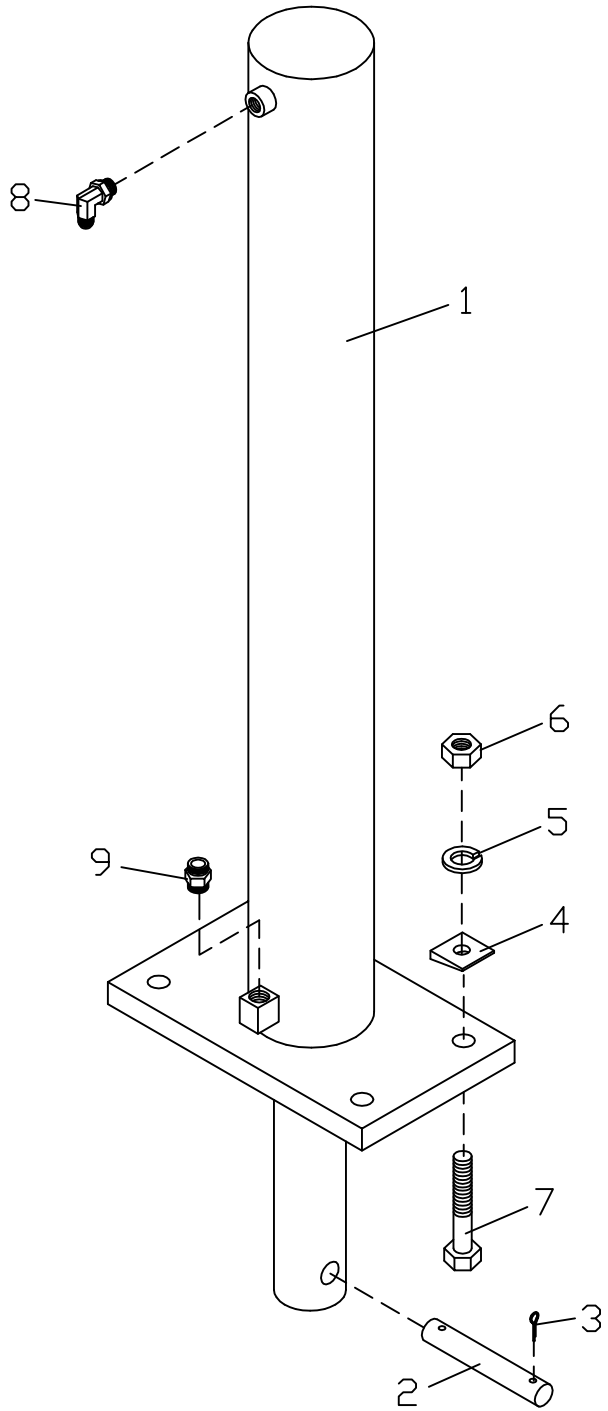
ITEM	QTY	DESCRIPTION	PART NO.
5	1	CLEAN OUT ROD	T60XD-6016



NOTE:
USE CLEAN OUT ROD TO REMOVE ANY DEBRIS IN THE WAY OF SLIDING WIRE TIES THROUGH WIRE GUIDE TRACKS IN FLOOR OR PLATEN.

M60STD CYLINDER

NO	REVISIONS	ECO	DATE	BY
1	ADDED M60HP-8530, DELETED (1) M60HP-8491		5/25/99	REC

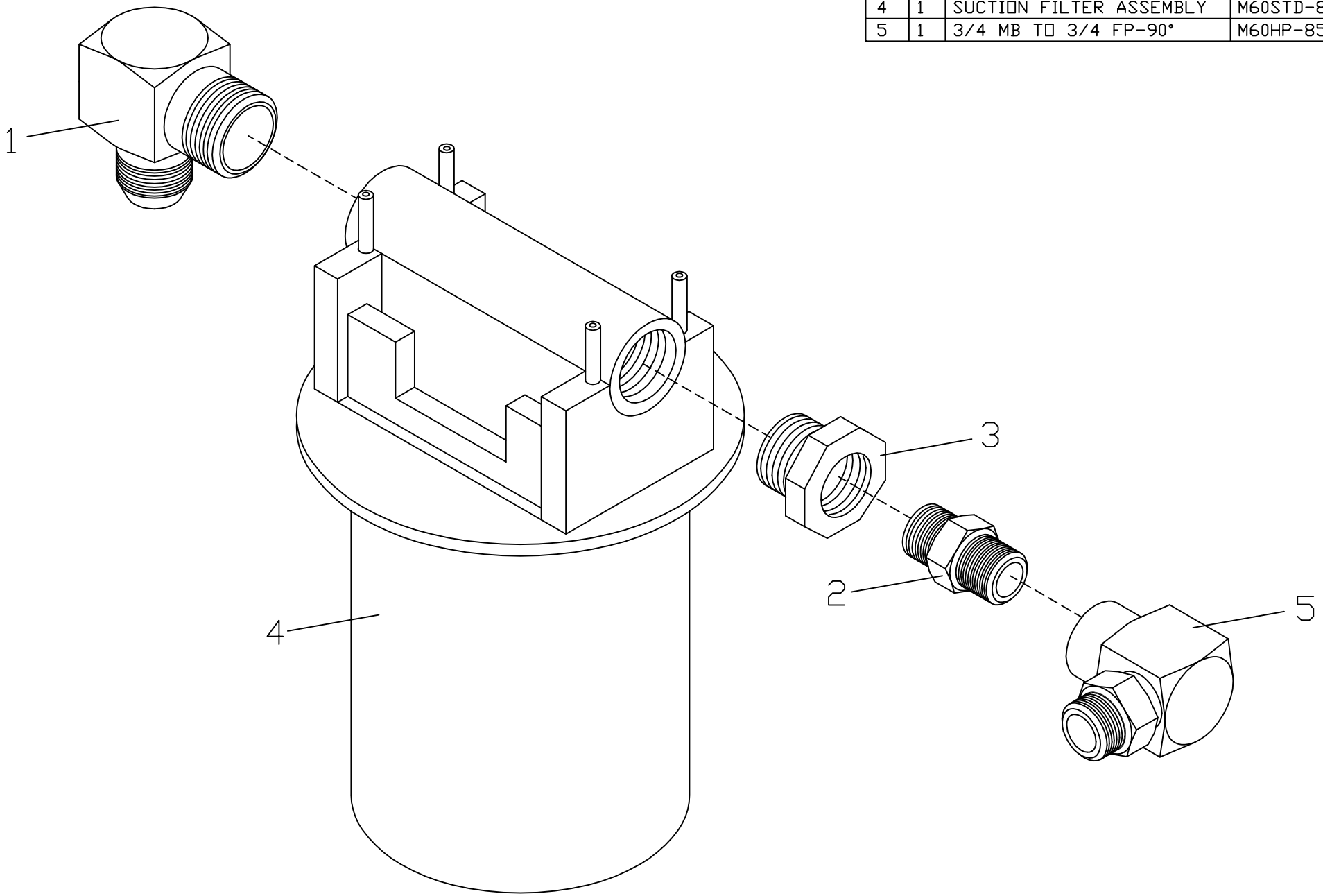


ITEM	QTY	DESCRIPTION	PART NO.
1	1	6" X 48" HYD CYLINDER	N60STD-8500
2	1	PIN	N60STD-3012
3	2	COTTER PIN	9164
4	4	BEVELED WASHER	9200
5	4	SPLIT LOCKWASHER	M60-1534
6	4	1-8 HEAVY HEX NUT	9195
7	4	1"-8 X 4 1/2 HEX HD CAP	G-8241
8	1	3/4" 90° ADAPT	M60HP-8491
9	1	3/4MB X 3/4MJ ORING	M60HP-8530

M60STD FILTER OPTION

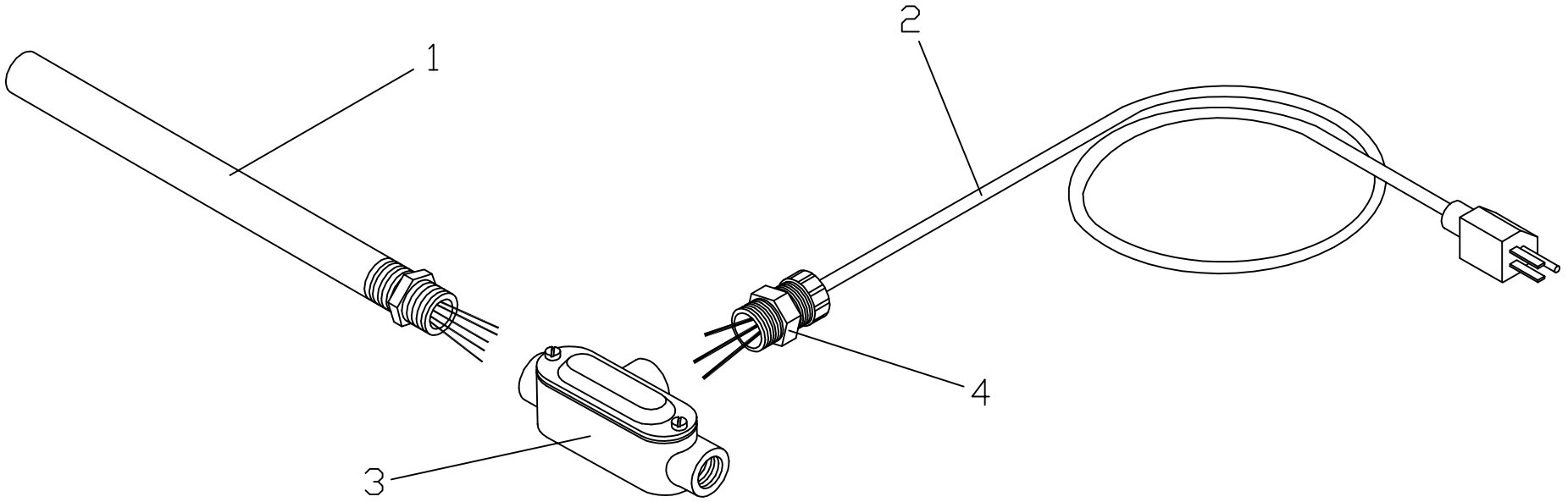
NO	REVISIONS	ECO	DATE	BY
2	M60STD-8536A REPLACED M60HP-8536A		7/23/07	REC

ITEM	QTY	DESCRIPTION	PART NO.
1	1	1-1/4MP TO 1MJIC 90° ADAPT	C200-8057
2	1	3/4" TO CLOSE NIPPLE	G-8157
3	1	3/4 FP TO 1 1/4 NPT	M60HP-8532
4	1	SUCTION FILTER ASSEMBLY	M60STD-8536A
5	1	3/4 MB TO 3/4 FP-90°	M60HP-8543



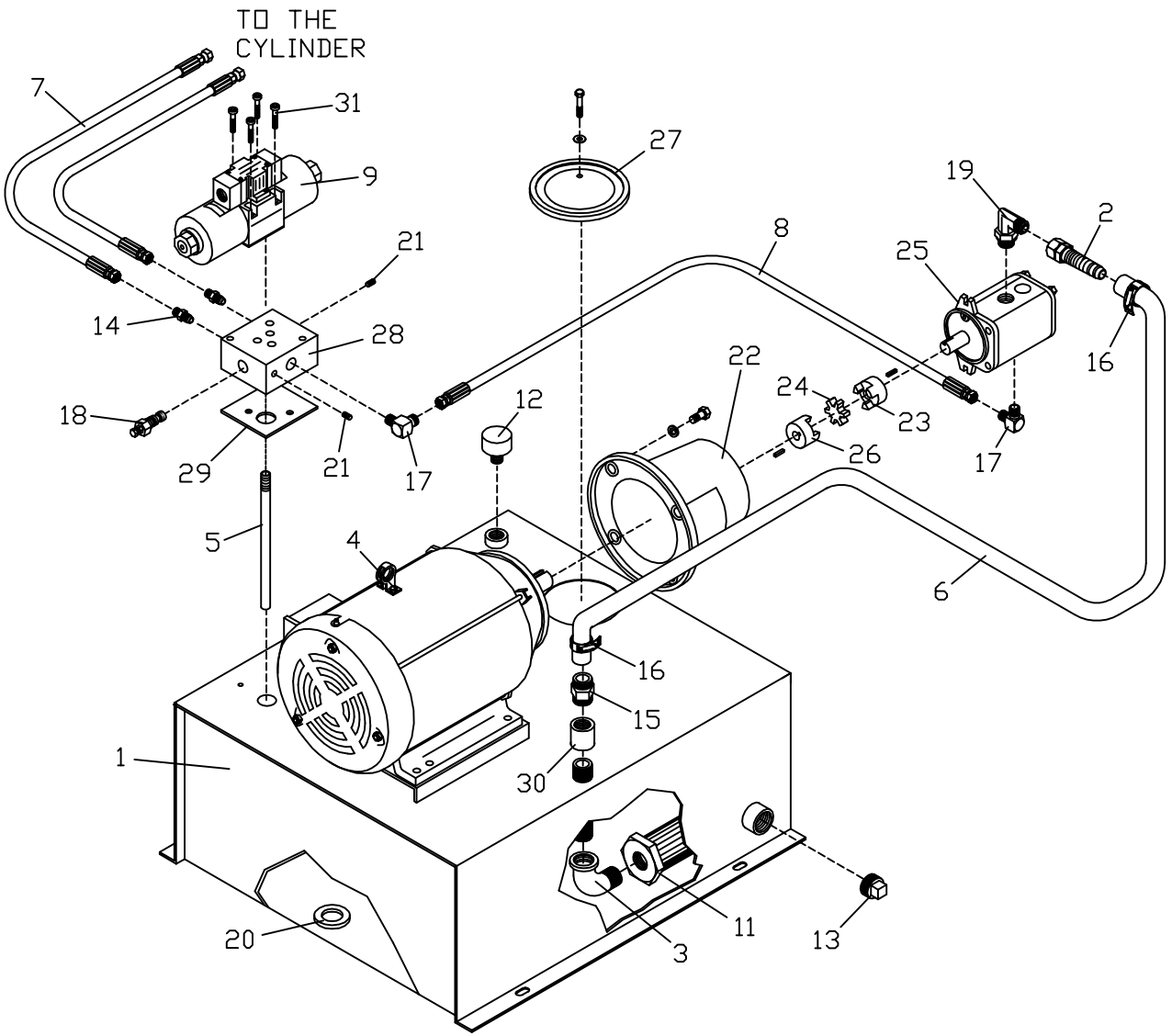
M60STD OPTIONAL HEATER

ITEM	QTY	DESCRIPTION	PART NO.
1	1	TANK HEATER	P6FL-9002
2	1	POWER TOOL CORD	C25-9607
3	1	SPLICE BOX	M72-9498
4	1	STRAIN RELIEF CONNECTOR	M42-9572



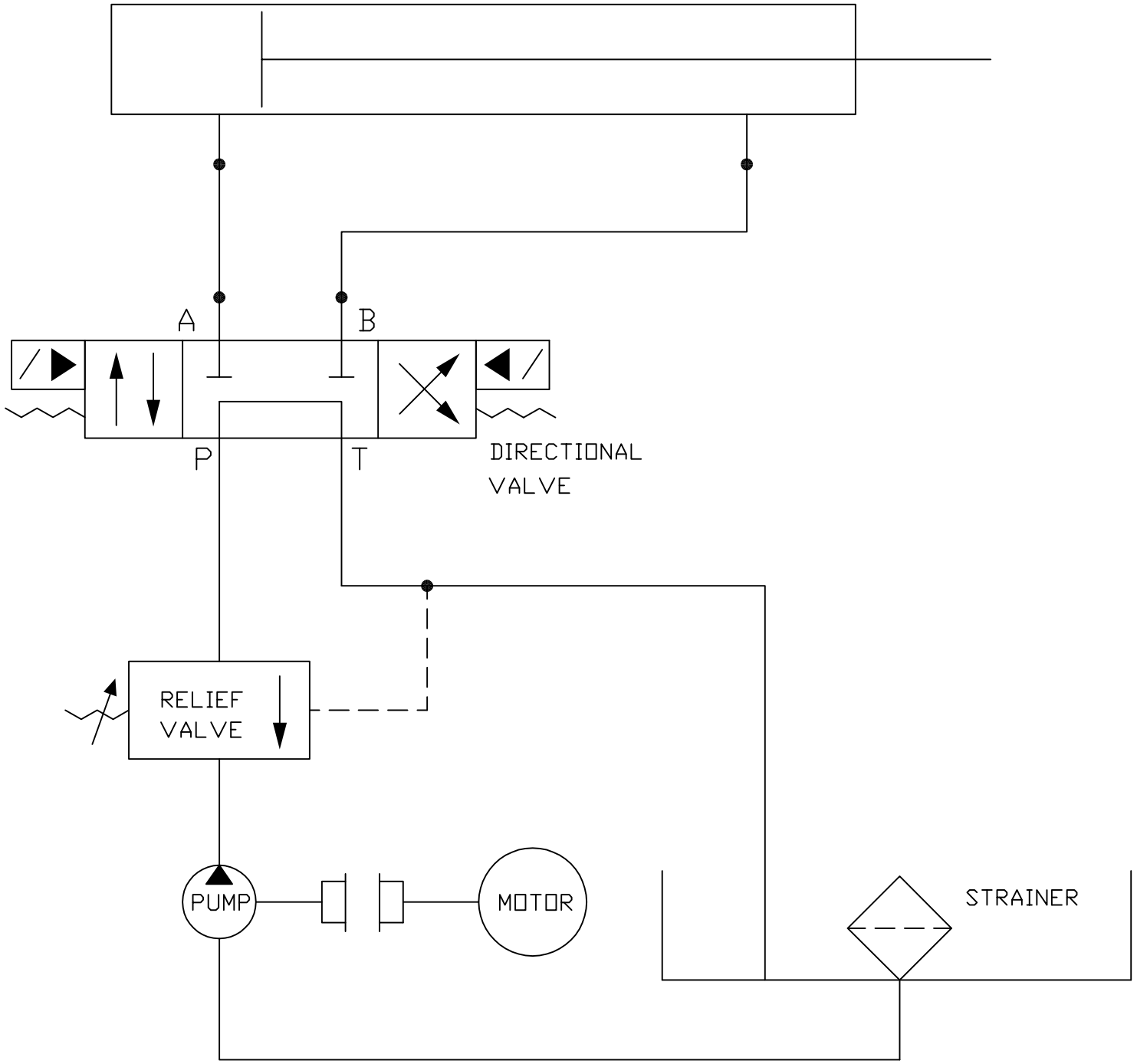
M60STD HYDRAULIC SYSTEM

NO	REVISIONS	ECO	DATE	BY
10	BCB2003-8102 REPLACED V72HS-8102 STARTING SERIAL NO: M602707STD	2270	5/9/06	REC



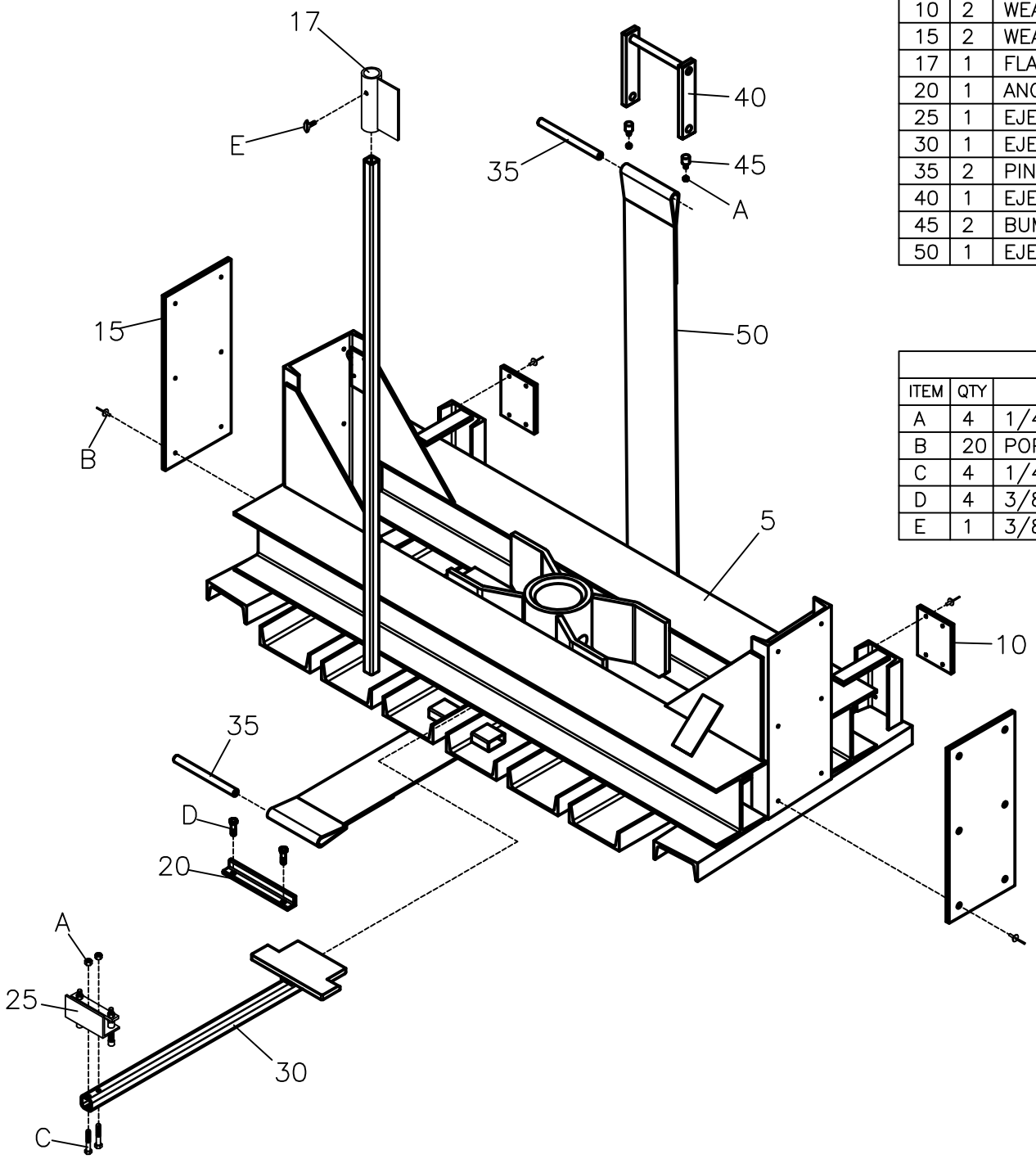
ITEM	QTY	DESCRIPTION	PART NO.
1	1	TANK ASSEMBLY	N60STD-8009
2	1	1" FJX BARB FITTING	M72HD-8055
3	1	1 1/4" STREET ELL	C200-8412
4	1	10HP MOTOR	BCB2003-9400
	1	1" TO 3/4" ELECT. BUSHING	CF475-9406
5	1	1/2 X 8 PIPE NIPPLE	S60XD-8092
6	1	1" SUCTION HOSE	1826
7	2	3/4 X 38" HYD HOSE	N60STD-8101
8	1	3/4 X 20" HYD HOSE	S60XD-8101
9	1	DIRECTIONAL VALVE	BCB2003-8102
11	1	STRAINER	M72-8533
12	1	FILLER CAP	M72-8431
13	1	3/4" DRAIN PLUG	M60HP-8444
14	2	5/8 MB-3/4 MJIC ADAPT	S60XD-8108
15	1	BARBED FITTING ADAPT	M60HP-8478
16	2	HOSE CLAMP	M60HP-8479
17	2	5/8MB-3/4MJIC X 90° ADTP	M60HP-8538
18	1	RELIEF VALVE	M42-8721
19	1	HYDRAULIC ADAPTOR	C200-8060
20	1	MAGNET	M-8640
21	2	3/8" MB PLUG	M42-8723
22	1	MEDIUM MOTOR ADAPTOR	N60STD-9401
23	1	3/4" COUPLER	M60HP-8702
24	1	SPIDER LOVEJOY	M60HP-8703
25	1	12 GPM HYD. PUMP	M60HP-8850
26	1	MOTOR HALF COUPLER	M60HP-8704
27	1	6" ENDCOVER KIT	N60STD-8001
28	1	MANIFOLD W/O-RING	N60STD-8442
29	1	GASKET FOR MANIFOLD	C200-8415
30	1	1" PIPE COUPLING	T60XD-8122
31	4	1/4-20 X 1 1/2 SCK HD SCR	9234

M60STD HYDRAULIC SCHEMATIC



M60STD PLATEN & EJECTOR STRAP

NO	REVISIONS	ECO	DATE	BY
14	N60STD-6010 REPLACED M60CB-6050 STARTING SERIAL NO: M60STD-4178	2851	7/13/11	REC



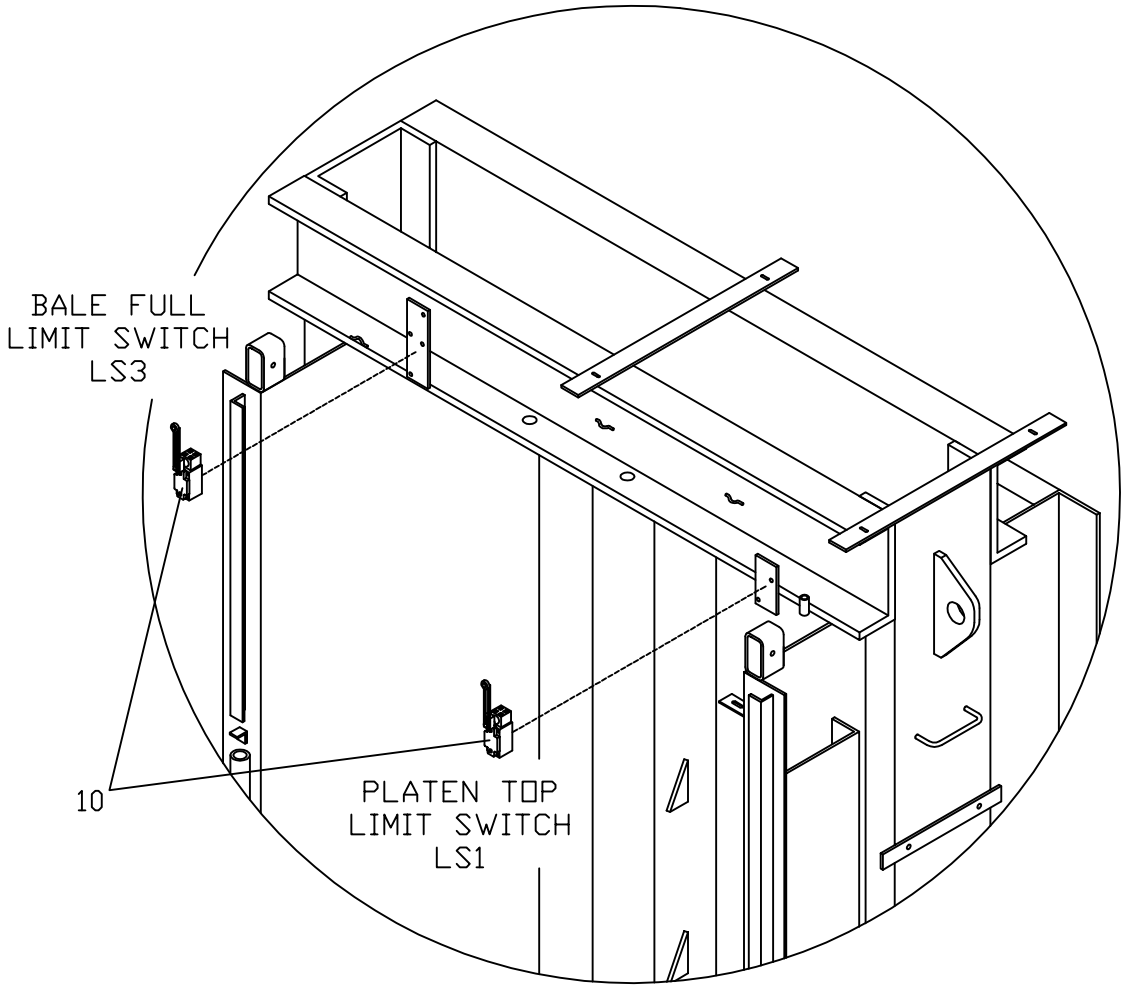
ITEM	QTY	DESCRIPTION	PART NO.
5	1	PLATEN	N60STD-3000
10	2	WEAR PAD-SMALL	N60STD-3014
15	2	WEAR PAD-LARGE	N60STD-3015
17	1	FLAG-BALE FULL SWITCH	N60STD-3016
20	1	ANGLE BRACKET	M60CB-6010
25	1	EJECTOR SLIDE HANDLE	M48MP-6023
30	1	EJECTOR SLIDE	N60STD-6010
35	2	PIN	M60CB-6055
40	1	EJECTOR HOOK	M60CB-6100
45	2	BUMPER	M60CB-6101
50	1	EJECTOR STRAP	M60CB-6200

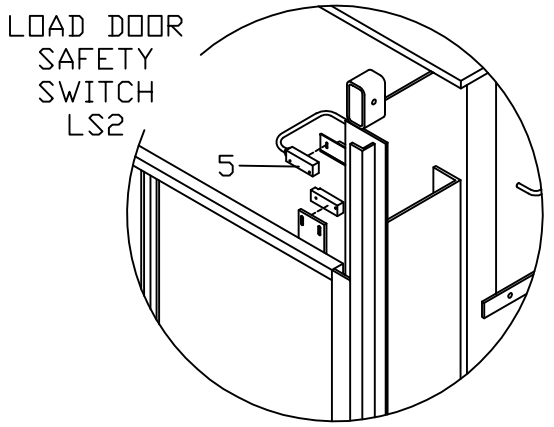
BOLT KIT			
ITEM	QTY	DESCRIPTION	PART NO.
A	4	1/4" NYLOCK NUT	9133
B	20	POP RIVET	9137
C	4	1/4-20 X 1 3/4" SK HD SCR	9190
D	4	3/8-16 X 1 1/4" HEX HD	9250
E	1	3/8" THUMB SCREW	9368

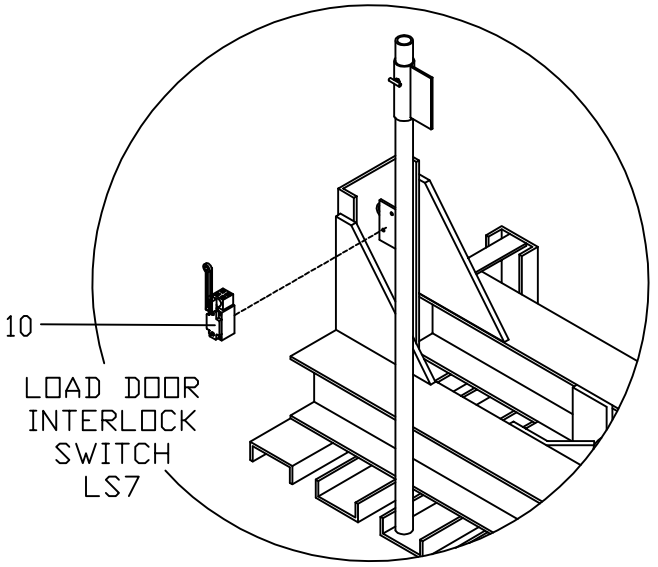
M60STD ELECTRICAL SWITCHES

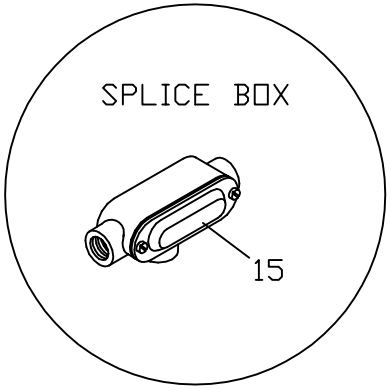
NO	REVISIONS	ECO	DATE	BY
2	CHANGED LOAD DOOR SAFETY SWITCH MOUNTING SERIAL NO. 602192STD AND UP	2131	9/11/03	REC

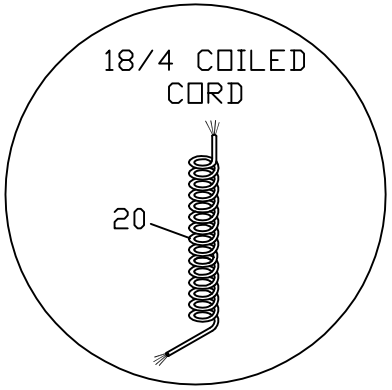
ITEM	QTY	DESCRIPTION	PART NO.
5	1	SAFETY SWITCH	N60STD-9011
10	3	LIMIT SWITCH	N60STD-9481
15	1	SPLICE BOX	M72-9498
20	1	18/4 COILED CORD	M72-9677



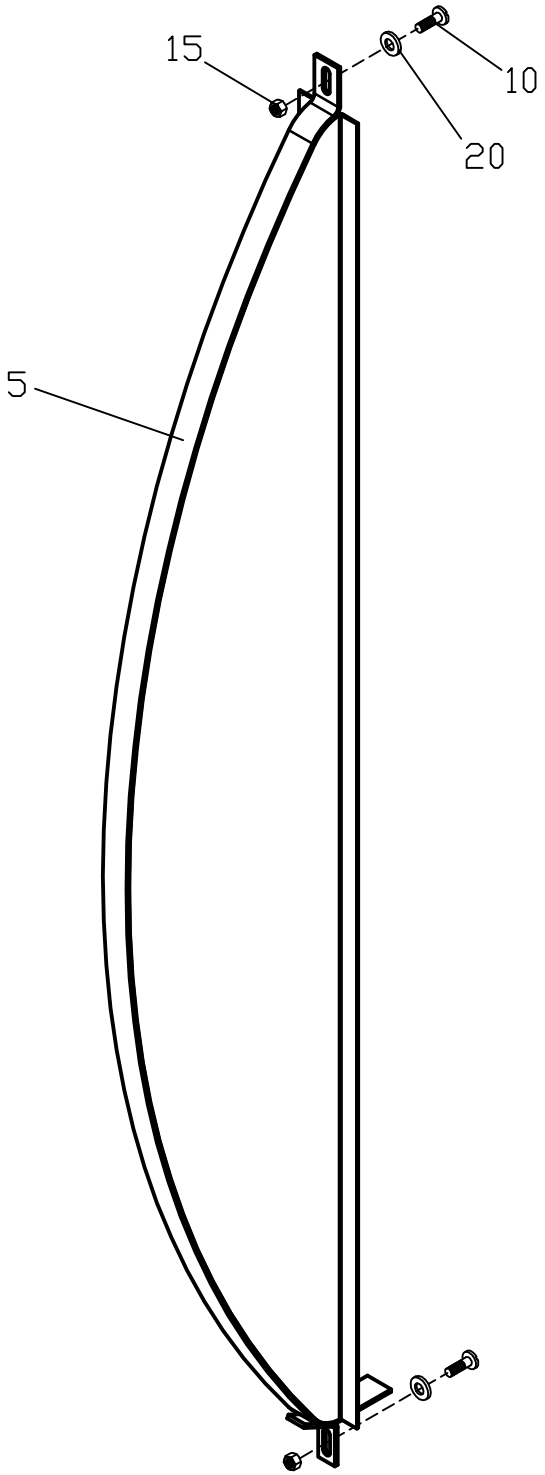








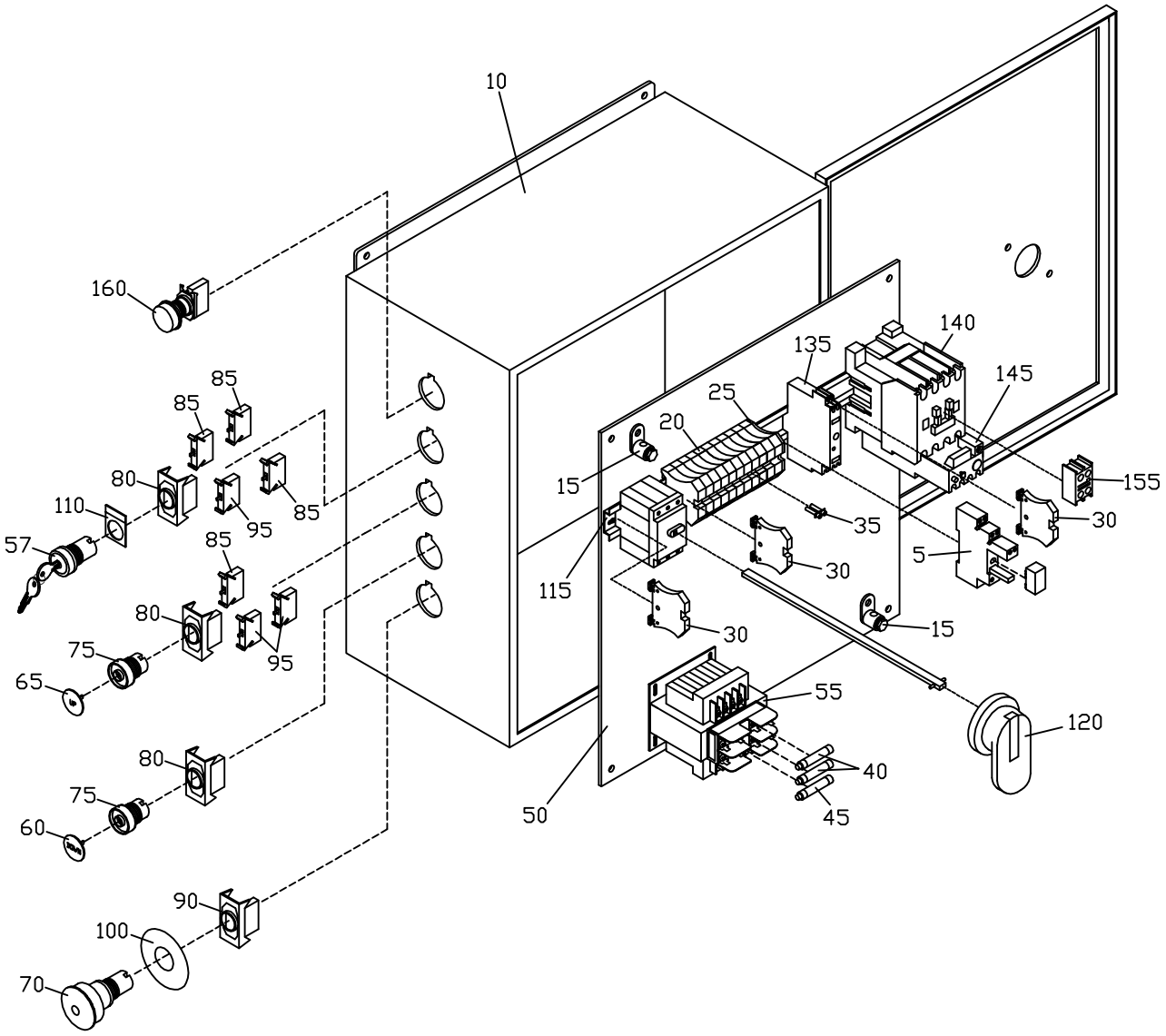
OPTIONAL WIRE GUIDES



ITEM	QTY	DESCRIPTION	PART NO.
5	6	WIRE GUIDE	N60STD-1221
10	12	1/4-20 X 3/4" PAN HD SCR	9017
15	12	1/4" NYLOCK NUT	9133
20	12	5/16" SAE FLAT WASHER	9086

M60STD THREE PHASE ELECTRICAL BOX

NO	REVISIONS	ECO	DATE	BY
11	N60STD-9570 REPLACED N60STD-9470, ADDED (1) N60STD-9202 STARTING SERIAL NO: 603717STD	2423	4/6/09	REC



ITEM	QTY	DESCRIPTION	PART NO.
5	1	CREDIT CARD RELAY BASE	M42-9140A
	1	RELAY BASE (ONLY)	M42-9139
	1	CREDIT CARD RELAY (ONLY)	M42-9140
10	1	ELECTRICAL BOX	U60STD-9153
15	2	GROUND LUG	U60STD-9156
20	12	TERMINAL BLOCK	N60STD-9200
25	1	END CAP	N60STD-9201
30	3	TERMINAL BLOCK ANCHOR	N60STD-9202
35	1	2-WAY JUMPER	N60STD-9205
40	2	2 AMP FUSE-KLDR(208/230V)	M72-9402
	2	8/10 AMP FUSE-KLDR(460V)	M72-9417
45	1	2 AMP FUSE-CCMR	M72-9403
50	1	ELECTRICAL PANEL	M60HP-9406
55	1	TRANSFORMER	M72-9407
57	1	3 POSITION KEY SWITCH	V72HD-9449
60	1	GREEN (DOWN) CAP	TB04-9450
65	1	YELLOW (UP) CAP	TB04-9451
70	1	RED PUSH BUTTON	TB04-9452
75	2	PUSH BUTTON	TB04-9453
80	3	CONTACT BASE W/1NO	TB04-9455
85	4	1 NO CONTACT BLOCK	TB04-9455-F
90	1	CONTACT BASE W/1NC	TB04-9456
95	3	1 NC CONTACT BLOCK	TB04-9456-F
100	1	EMERG. STOP LEGEND PLATE	TB04-9459
110	1	HAND-OFF-AUTO LEG. PLATE	TB04-9461
115	1	DIN RAIL (12")	N60STD-9465
120	1	DISCONNECT	N60STD-9570
	1	BASE (ONLY)	N60STD-9100
	1	SHAFT (ONLY)	N60STD-9466
	1	HANDLE (ONLY)	T60XD-9129
135	1	TIME DELAY RELAY	N60STD-9500
140	1	MOTOR STARTER	V72HS-9601
145	1	MOTOR OVERLOAD	V72HS-9602
155	1	FRONT MNT CONTACT 1NO,1NC	M60-9705
160	1	RED LIGHT ASSEMBLY	BCB2003-9728
	1	LIGHT BULB	BCB2003-9729

CONTROL PANEL	NAME

INDEX	MODIFICATION	DATE	DRAWING	VERIFIED	APPROVED
A	NEW LAYOUT	1-20-12	CCA		

WASTE SOLUTIONS ON A GLOBAL SCALE
Harmony™
ENTERPRISES, INC.
704 MAIN AVENUE NORTH · HARMONY, MN 55939 USA · www.harmony1.com

DRAWING: CCA

VERIFIED:

DATE OF CREATION: 1-20-2012

1. STARTING SERIAL NUMBER: M60STD-4265

VERTICAL BALER

HARMONY M60STD

ELECTRICAL SCHEMATICS

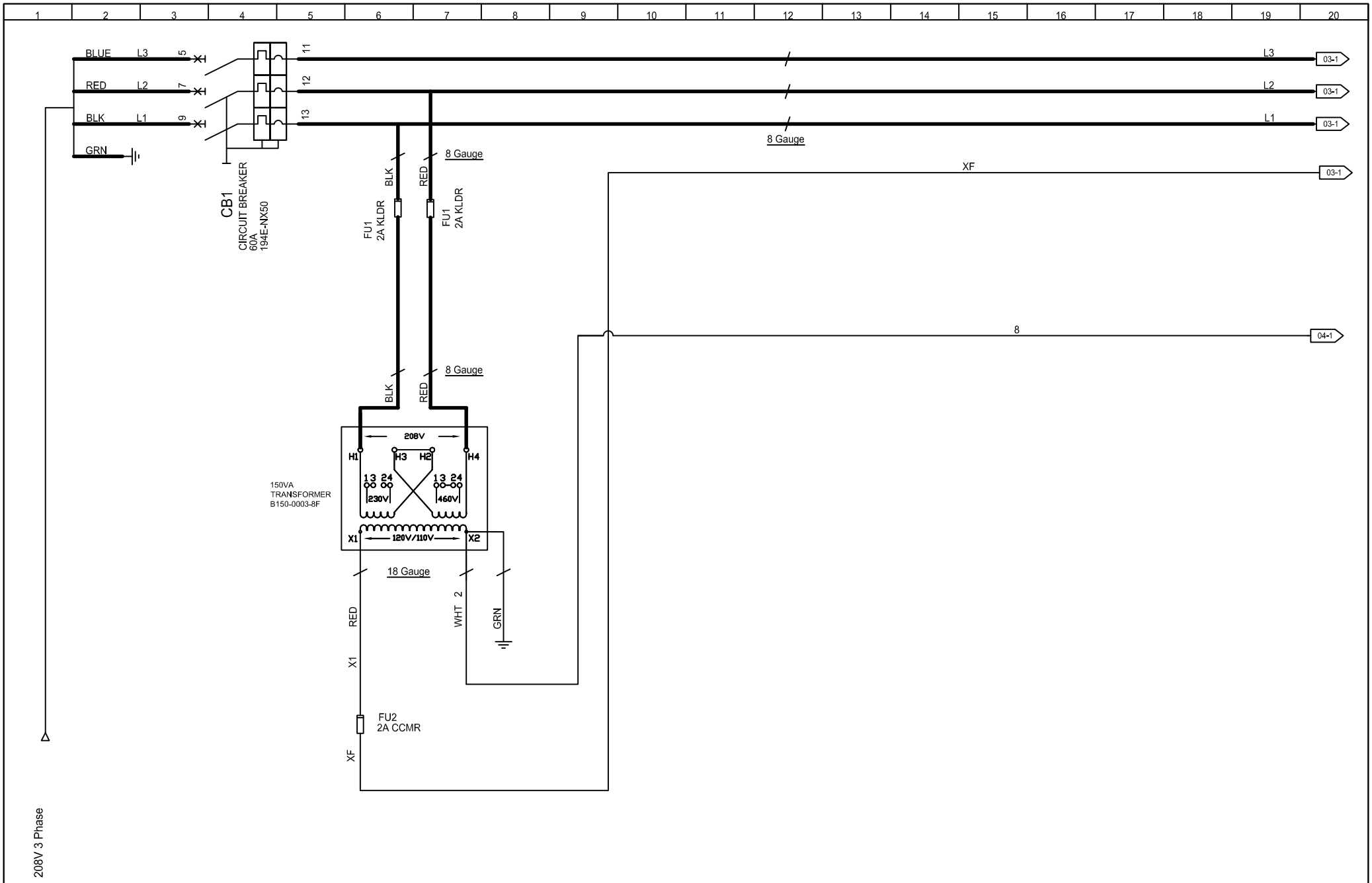
PAGE 1

DOCUMENT N° : **M60STD-S93208-0112**

01 / 06

WARNING: Any changes to the original construction, components, programs, wiring and or documents of any kind in any way related to this BALER without authorization from Harmony Enterprises Incorporated will void the warranty and any liability immediately.

Production Copy



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Harmony ENTERPRISES, INC. — WASTE SOLUTIONS ON A GLOBAL SCALE

DRAWING: CCA
VERIFIED:
DATE OF CREATION: 1-20-12

INDEX	DATE	MODIFICATION	DES.

M60STD

Document n° :

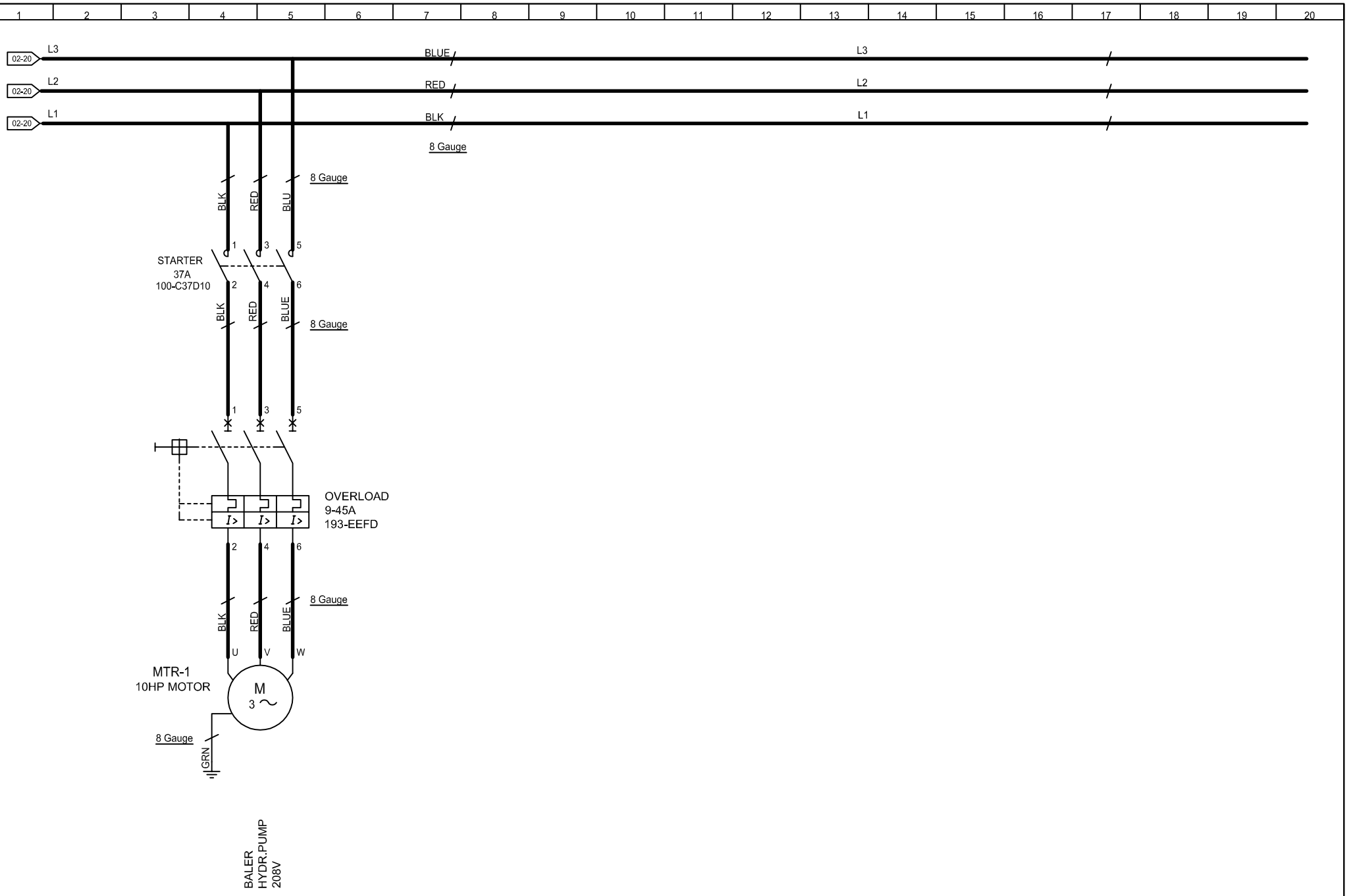
VERTICAL BALER

208VAC TRANSFORMER
24VDC POWER SUPPLY

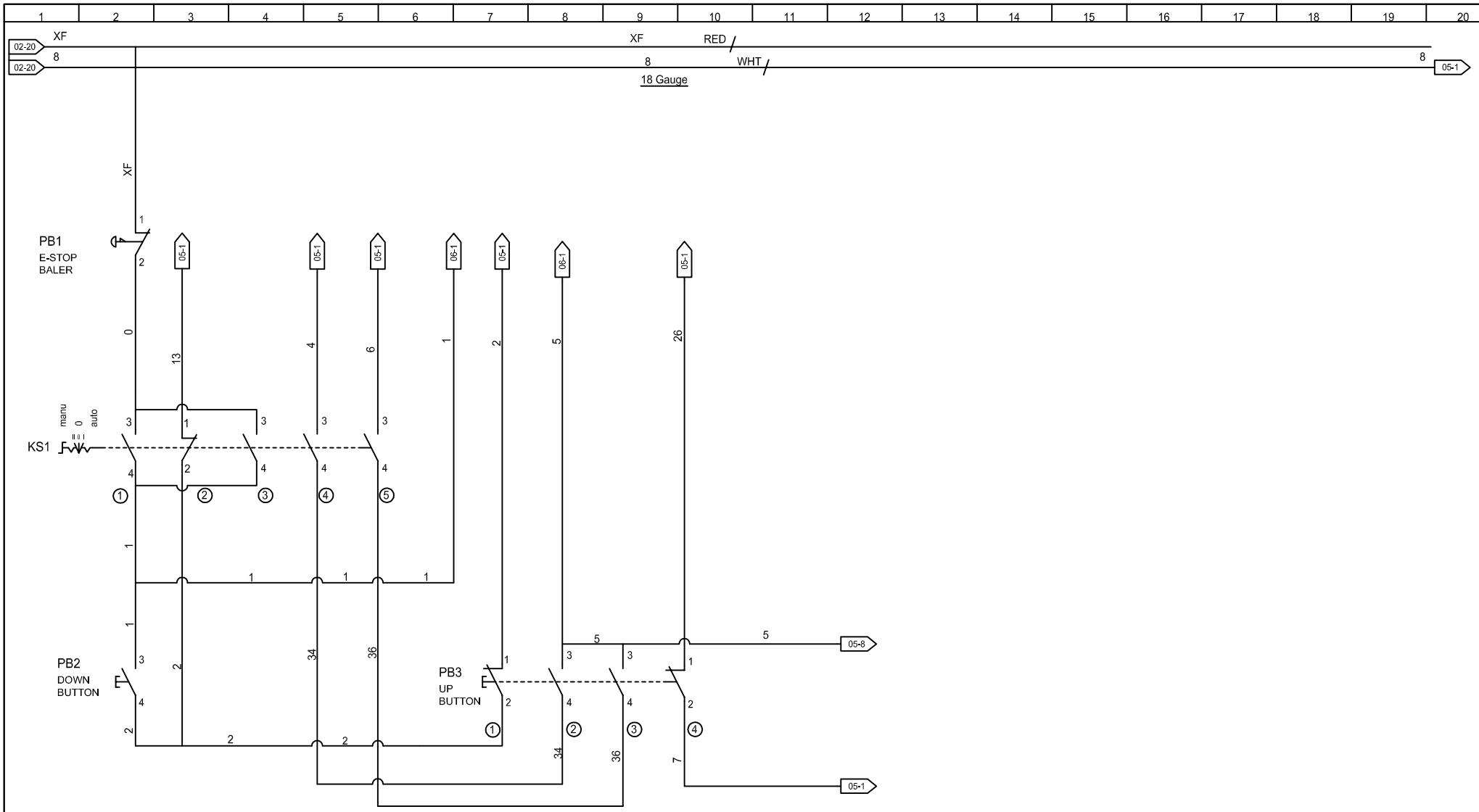
FOLIO 02

◄ 01 03 ►

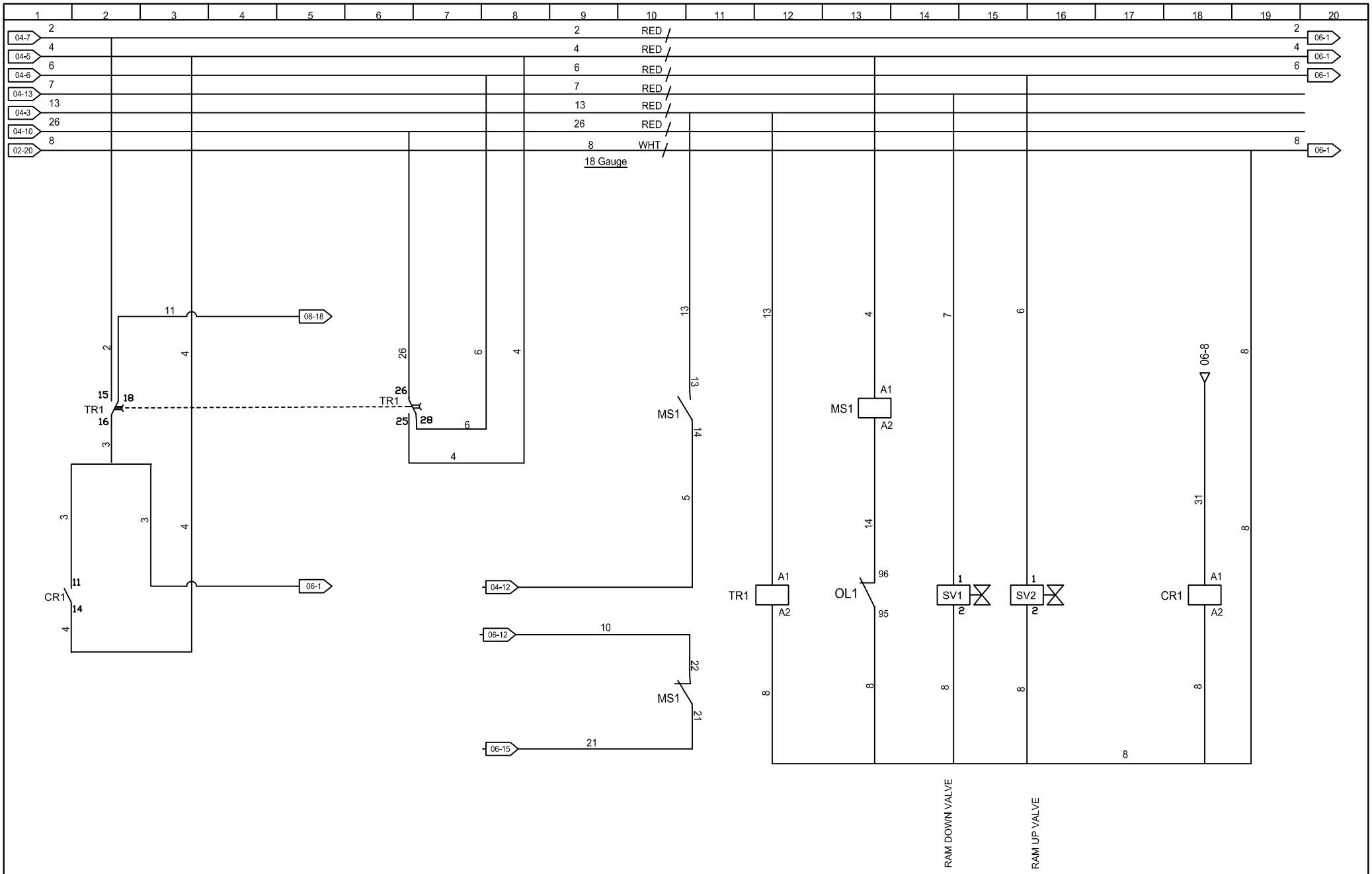
Logiciel SEE v. 3.70



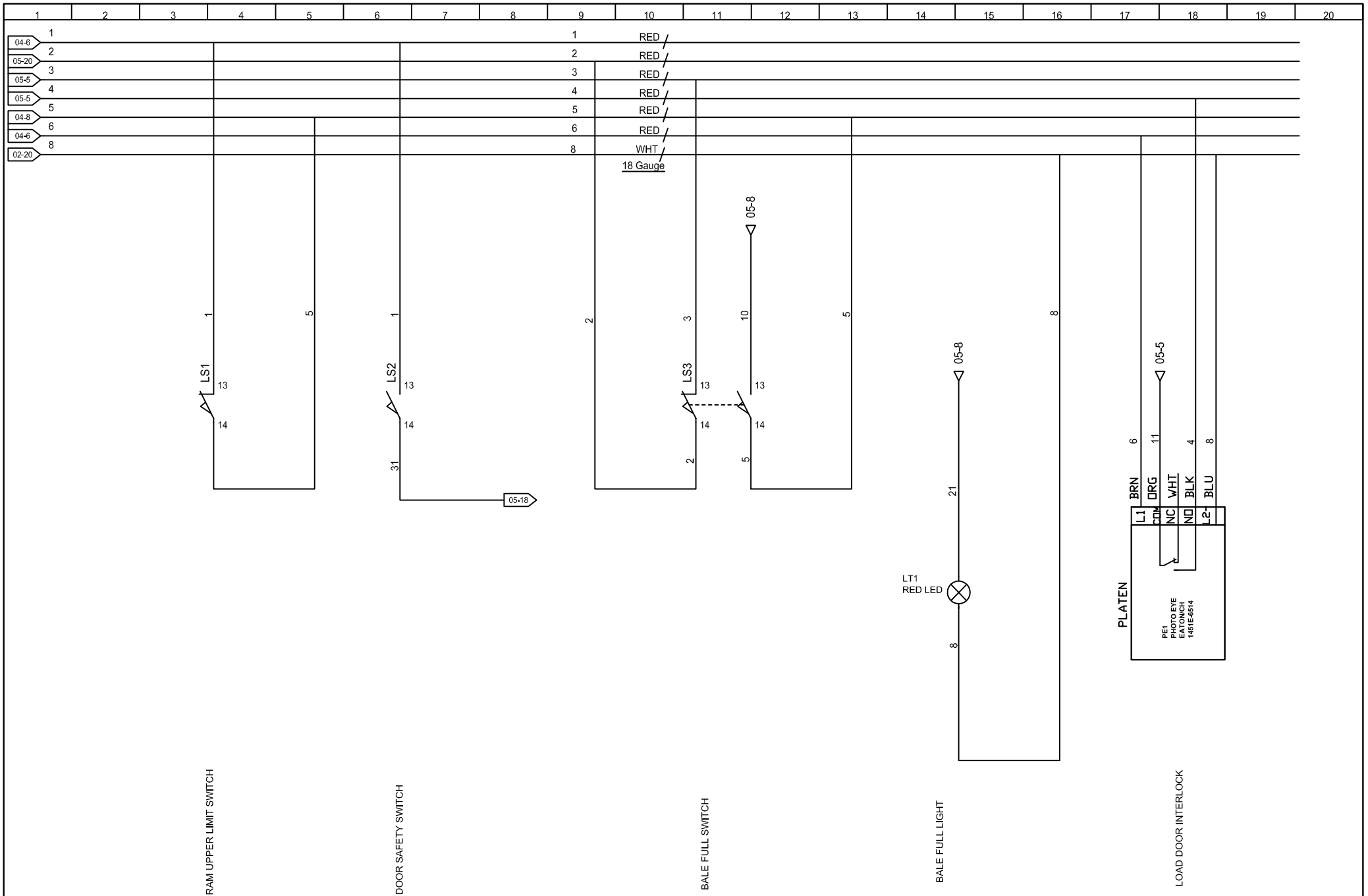
Harmony ENTERPRISES, INC.	DRAWING: CCA					M60STD	VERTICAL BALER	FOLIO 03
	VERIFIED:					Document n° :	MOTOR FEED HYDRAULIC PUMP	◄ 02 04 ►
	DATE OF CREATION: 1-20-12	INDEX	DATE	MODIFICATION	DES.			Logiciel SEE v. 3.70



Harmony ENTERPRISES, INC.	DRAWING: CCA					M60STD	VERTICAL BALER	FOLIO 04	
	VERIFIED:					Document n° :	CONTROL CIRCUIT PUSH BUTTONS	◄ 03 05 ►	
	DATE OF CREATION: 1-20-2012	INDEX	DATE	MODIFICATION	DES.			Logiciel SEE v. 3.70	



Harmony ENTERPRISES, INC.	DRAWING: CCA					M60STD	**VERTICAL BALER**	FOLIO 05
	VERIFIED:					Document n° :	CONTROL CIRCUIT RELAYS/TIMERS/VALVES	◄ 04 06 ►
	DATE OF CREATION: 1-20-2012	INDEX	DATE	MODIFICATION	DES.			Logiciel SEE v. 3.70



Harmony ENTERPRISES, INC.	DRAWING: CCA				M60STD	**VERTICAL BALER**	FOLIO 06
	VERIFIED:				Document n° :	CONTROL CIRCUIT SWITCHES/LIGHTS	◄ 05 07 ►
	DATE OF CREATION: 1-20-2012	INDEX	DATE	MODIFICATION / DES.			Logiciel SEE v. 3.70

CONTROL PANEL	NAME

INDEX	MODIFICATION	DATE	DRAWING	VERIFIED	APPROVED
A	NEW LAYOUT	1-20-12	CCA		

WASTE SOLUTIONS ON A GLOBAL SCALE
Harmony™
ENTERPRISES, INC.
704 MAIN AVENUE NORTH · HARMONY, MN 55939 USA · www.harmony1.com

DRAWING: CCA

VERIFIED:

DATE OF CREATION: 1-20-2012

1. STARTING SERIAL NUMBER: M60STD-4265

VERTICAL BALER

HARMONY M60STD

ELECTRICAL SCHEMATICS

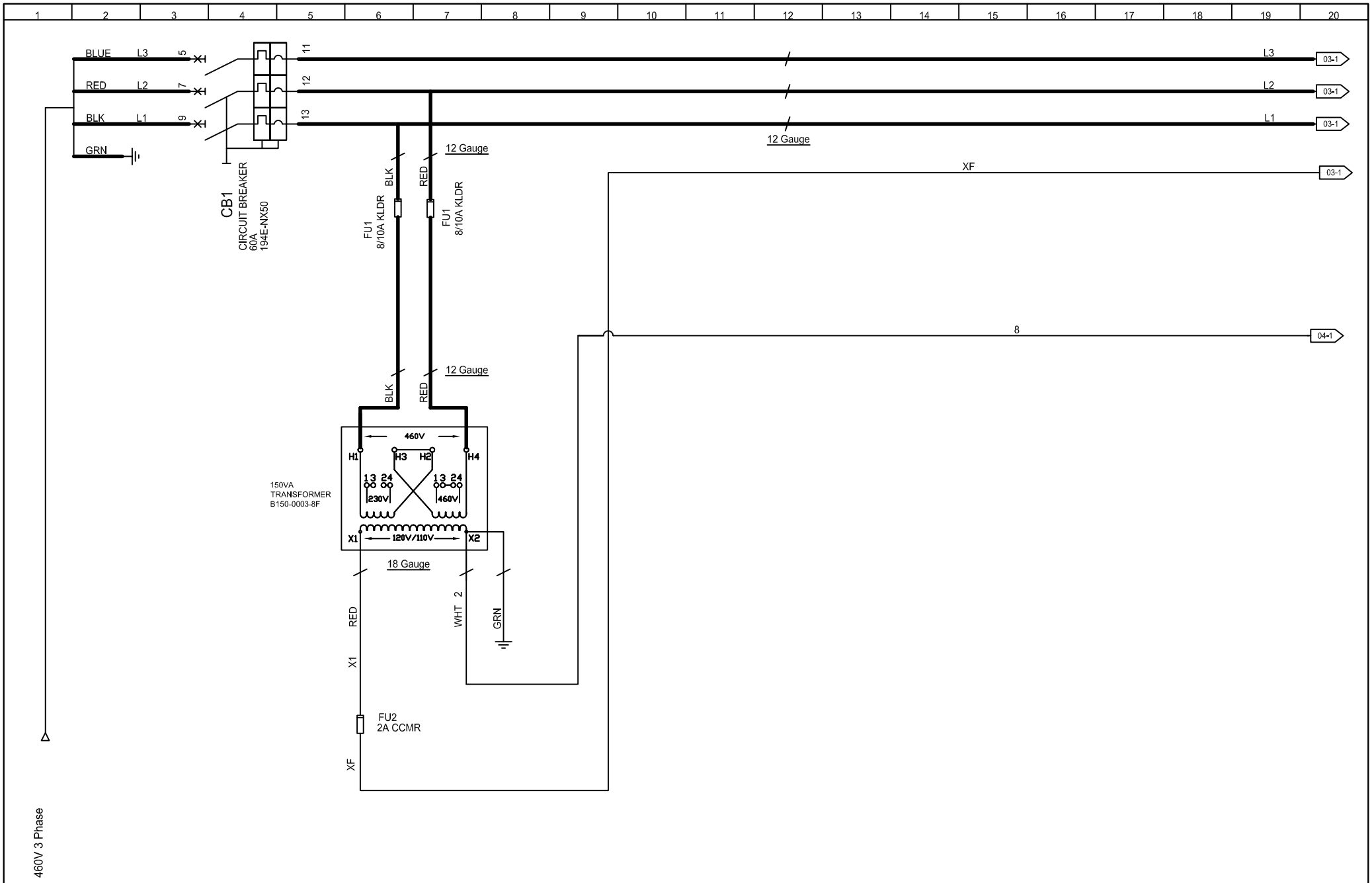
PAGE 1

DOCUMENT N° : **M60STD-S93460-0112**

01 / 06

WARNING: Any changes to the original construction, components, programs, wiring and or documents of any kind in any way related to this BALER without authorization from Harmony Enterprises Incorporated will void the warranty and any liability immediately.

Production Copy



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Harmony ENTERPRISES, INC.

DRAWING: CCA
VERIFIED:
DATE OF CREATION: 1-20-12

INDEX	DATE	MODIFICATION	DES.

M60STD

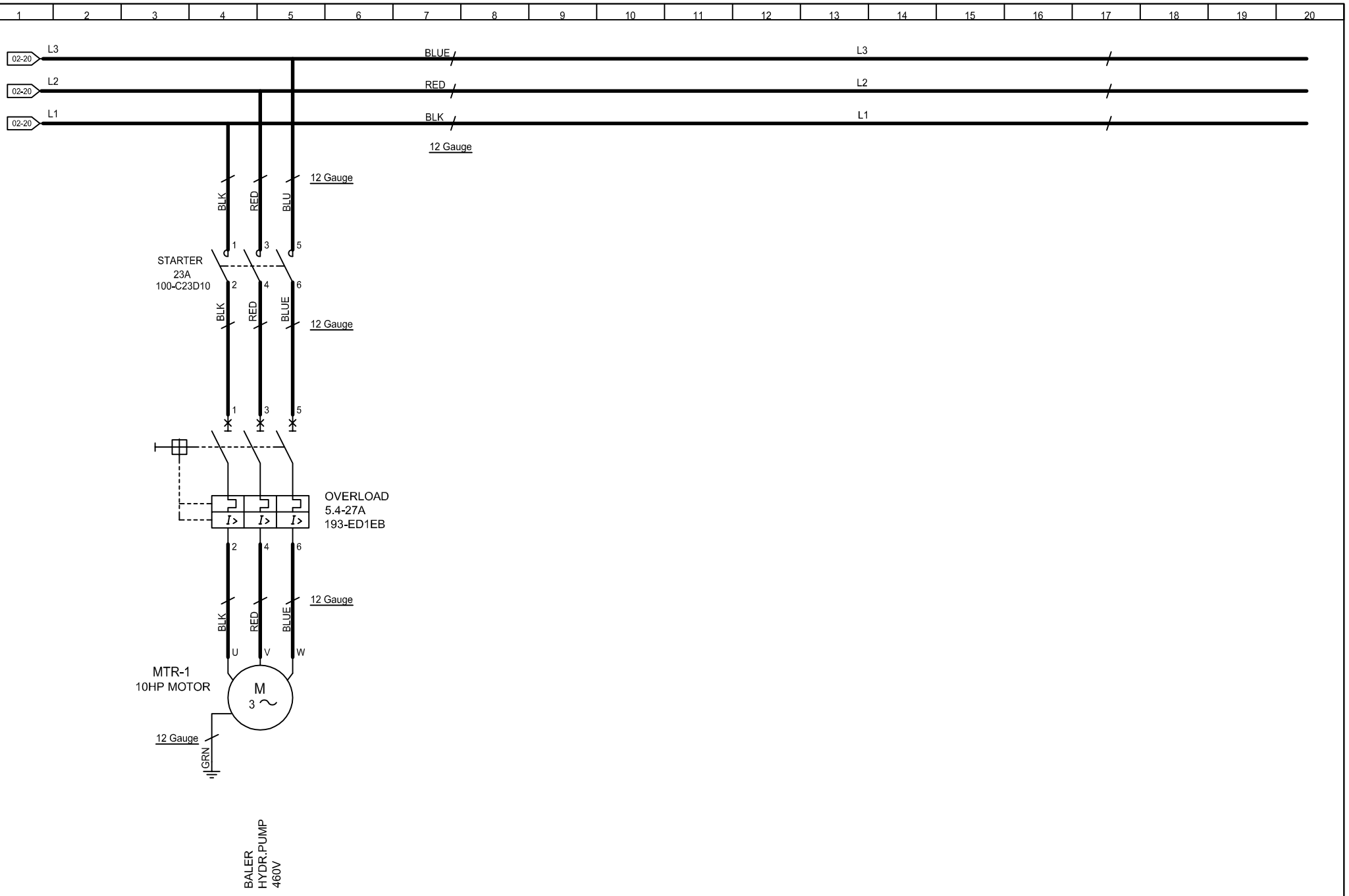
Document n° :

VERTICAL BALER

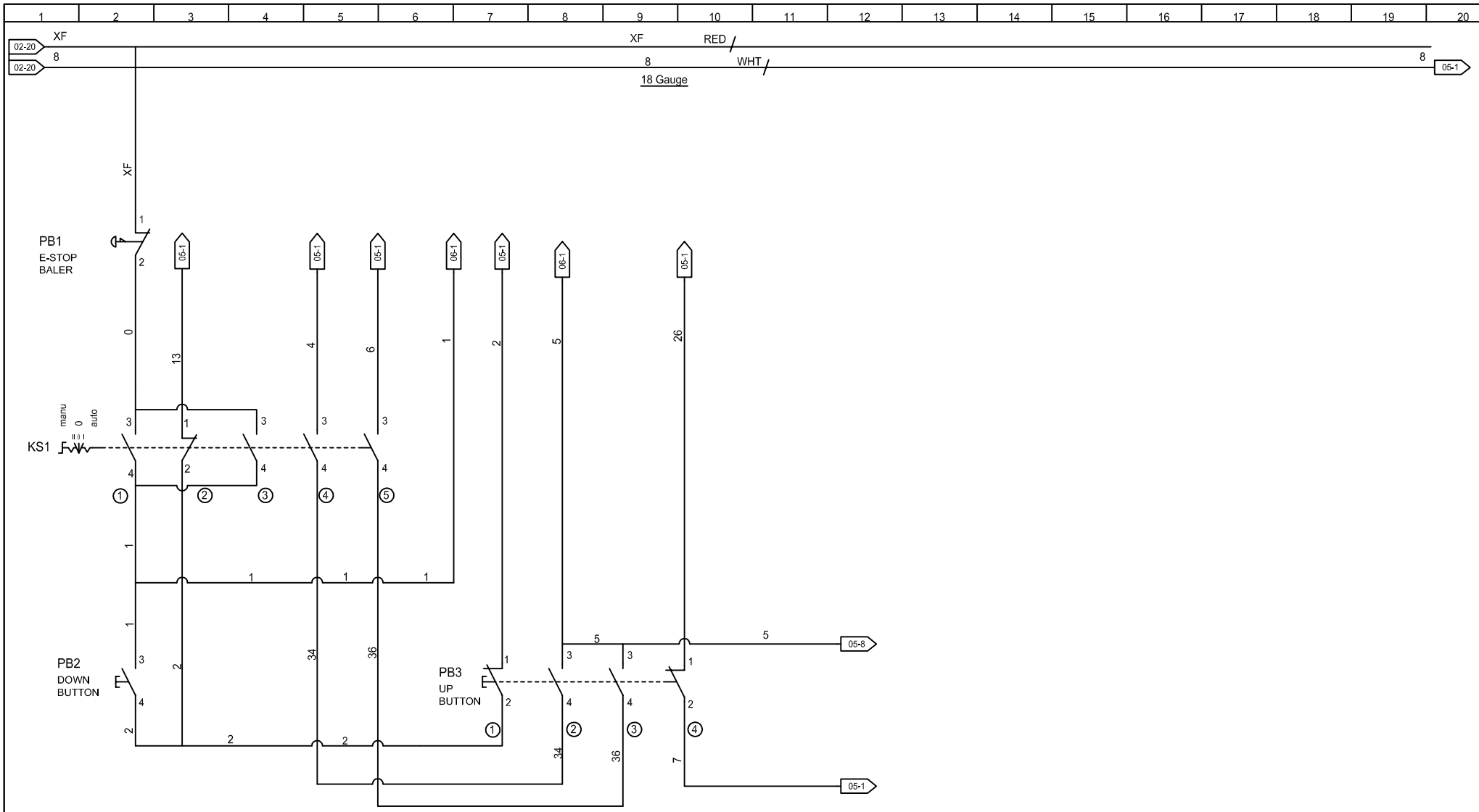
208VAC TRANSFORMER
24VDC POWER SUPPLY

FOLIO 02
◄ 01 03 ►

Logiciel SEE v. 3.70



Harmony ENTERPRISES, INC.	DRAWING: CCA					M60STD	VERTICAL BALER	FOLIO 03
	VERIFIED:					Document n° :	MOTOR FEED HYDRAULIC PUMP	◄ 02 04 ►
	DATE OF CREATION: 1-20-12	INDEX	DATE	MODIFICATION	DES.			Logiciel SEE v. 3.70



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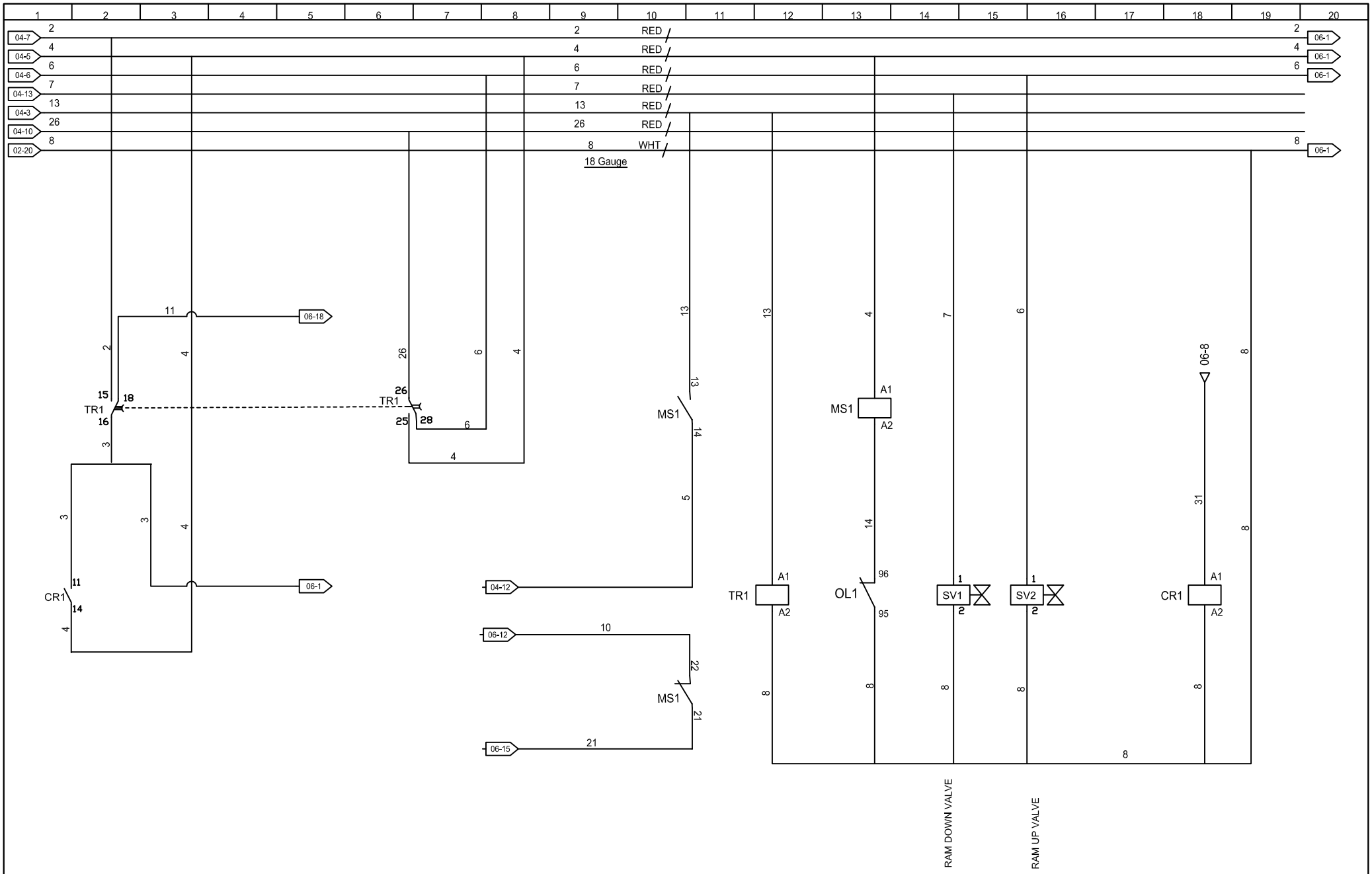
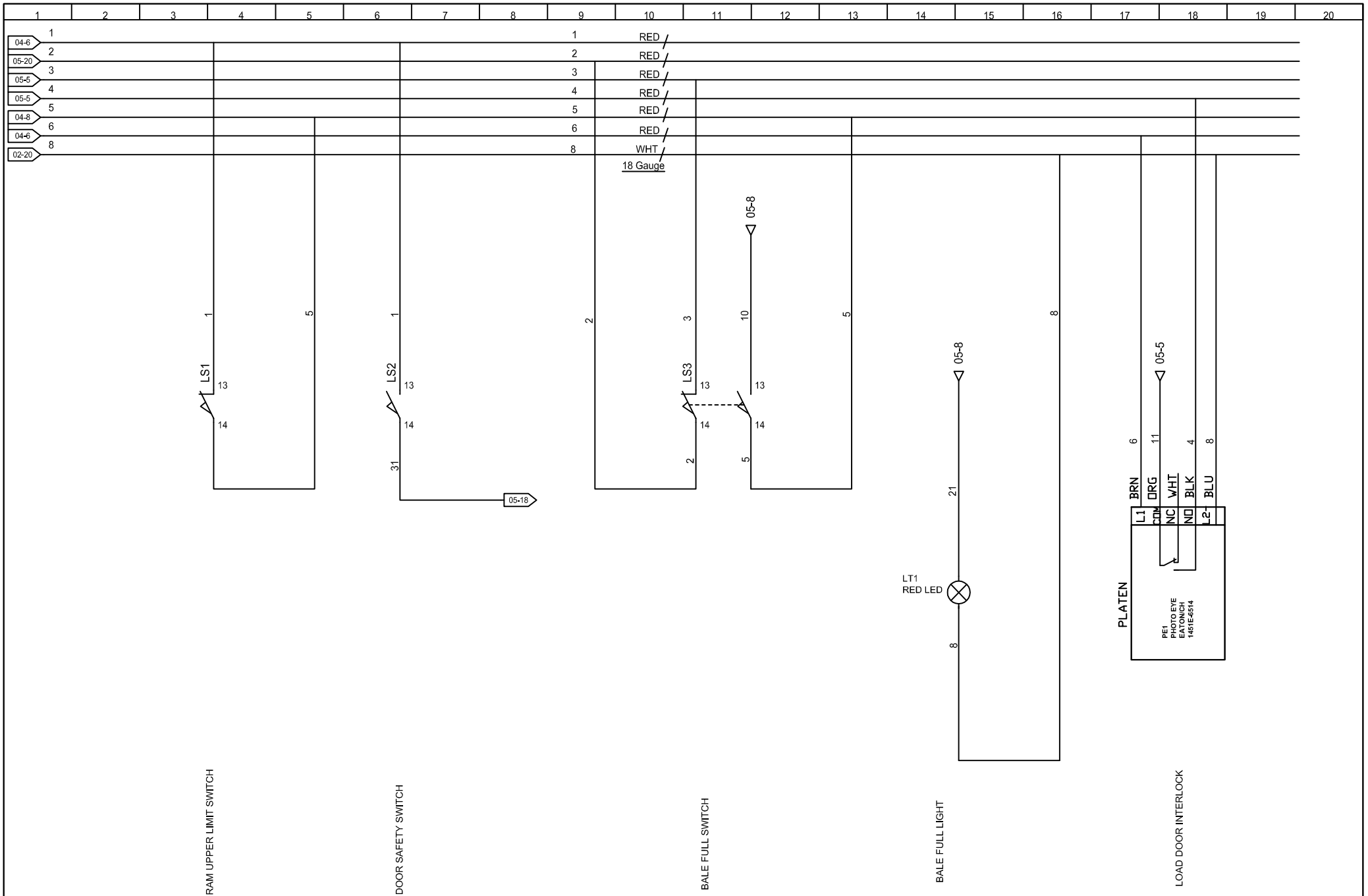
	VERIFIED:					Document n° :	CONTROL CIRCUIT PUSH BUTTONS	◄ 03 05 ►	
	DATE OF CREATION: 1-20-2012	INDEX	DATE	MODIFICATION	DES.			Logiciel SEE v. 3.70	



Harmony ENTERPRISES, INC.	DRAWING: CCA					M60STD	**VERTICAL BALER**	FOLIO 05
	VERIFIED:					Document n° :	CONTROL CIRCUIT RELAYS/TIMERS/VALVES	◄ 04 06 ►
	DATE OF CREATION: 1-20-2012	INDEX	DATE	MODIFICATION	DES.			Logiciel SEE v. 3.70



Harmony ENTERPRISES, INC.	DRAWING: CCA				M60STD	**VERTICAL BALER**	FOLIO 06
	VERIFIED:				Document n° :	CONTROL CIRCUIT SWITCHES/LIGHTS	◄ 05 07 ►
	DATE OF CREATION: 1-20-2012	INDEX	DATE	MODIFICATION / DES.			Logiciel SEE v. 3.70

NOTES