



Models- 9200, 9210, 9213 Series Vacuums  
9200-1, 9200-3, 9200-4, 9200-5 Series Vacuums\*  
9209, 9209-6 Series Vacuums  
9220, 9230, 9230-3 Series Vacuums  
9240, 9250, 9253 Series Vacuums  
*\*not pictured*

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9200



9209



9230



9250

# **PRODUCT INFORMATION**

Please take a moment to fill out the information below in order to aid us with any future sales or service inquiries. Model number and serial number information can be found on the serial tag located inside the control box and/or on the lower exterior of the can. Key number can be found on the tag that comes attached to the keys. There may be more than one key number depending on unit.

Please keep this information with your records.

**MODEL#:** \_\_\_\_\_

**SERIAL#:** \_\_\_\_\_

**KEY NUMBER(S):** \_\_\_\_\_

**DATE PURCHASED:** \_\_\_\_\_

**DISTRIBUTOR:** \_\_\_\_\_

**J.E. Adams Industries  
1025 63rd Ave. S.W.  
Cedar Rapids, IA 52404  
1-800-553-8861  
[www.jeadams.com](http://www.jeadams.com)**

# Specifications

Unit specifications: *(All 2 vacuum motor units)*

Voltage: 120VAC, 60Hz  
Amperage: (1) 20 amp service is required for this unit  
Weight: 135-155 lbs  
Motors: (2) 120VAC vacuum motor  
Fuses: (2) 10 amp inline fuses

Unit specifications: *(All 3 vacuum motor units)*

Voltage: 120VAC, 60Hz  
Amperage: (1) 30 amp service is required for this unit  
Weight: 135-155 lbs  
Motors: (3) 120VAC vacuum motor  
Fuses: (3) 10 amp inline fuses

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**220VAC units:**

Unit specifications: *(All 2 vacuum motor units)*

Voltage: 220VAC, 50Hz  
Amperage: (1) 10 amp service is required for this unit  
Weight: 135-155 lbs  
Motors: (2) 220VAC vacuum motor  
Fuses: (2) 8 amp inline fuses

Unit specifications: *(All 3 vacuum motor units)*

Voltage: 220VAC, 50Hz  
Amperage: (1) 15 amp service is required for this unit  
Weight: 135-155 lbs  
Motors: (3) 220VAC vacuum motor  
Fuses: (3) 8 amp inline fuses

Duty cycle time 4 minutes on, 4 minutes off.

**NOTE: "UNIT INTENDED FOR COMMERCIAL USE ONLY"**

# IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

## READ ALL INSTRUCTIONS BEFORE USING (THIS APPLIANCE)

### WARNING – To reduce the risk of fire, electric shock, or injury:

- Do not use on wet surfaces.
- Use only as described in manual. Use only manufactures recommended attachments.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair and anything that may reduce air flow.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not use without dust bag and/or filters in place.

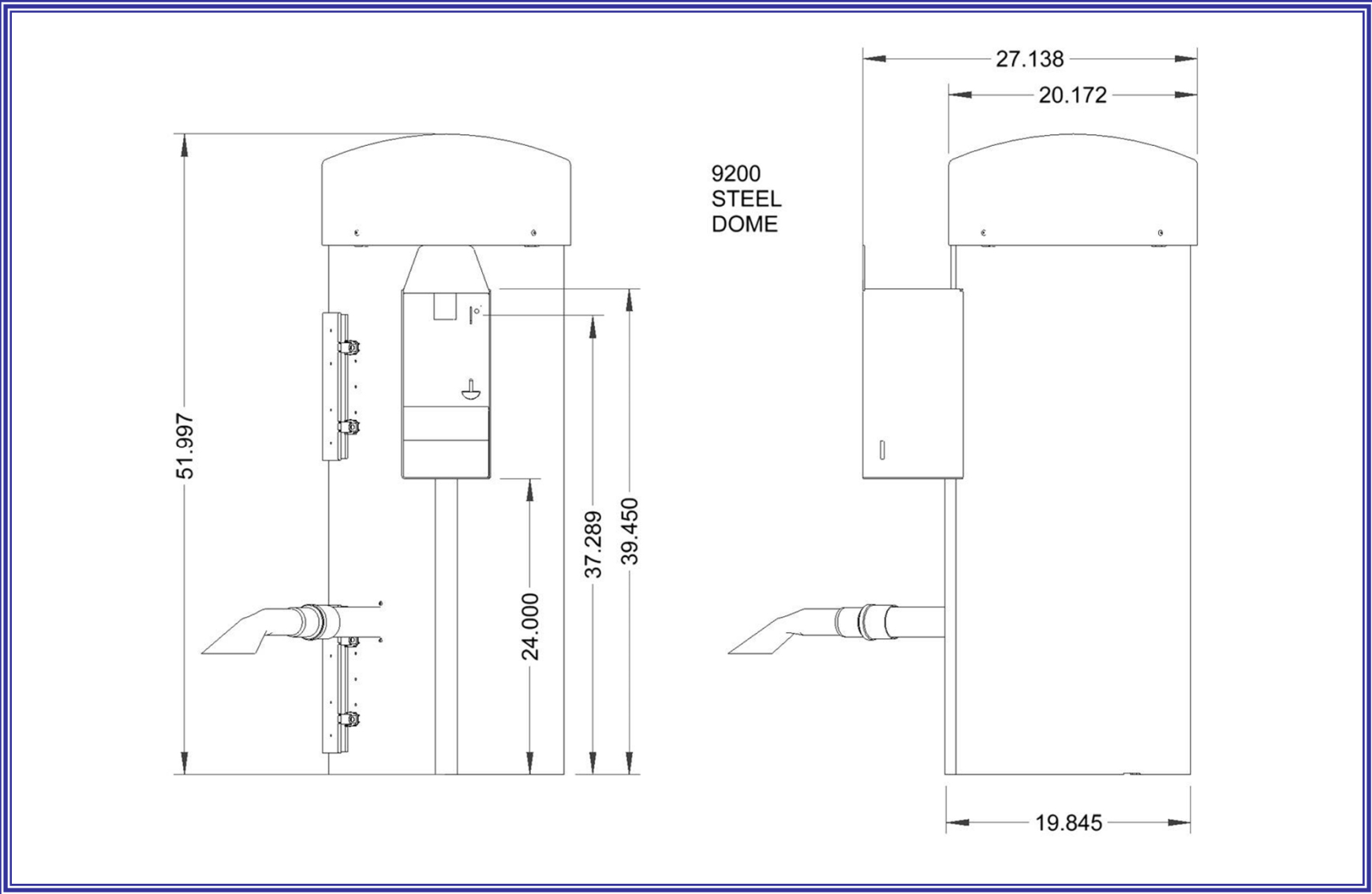


## SAVE THESE INSTRUCTIONS

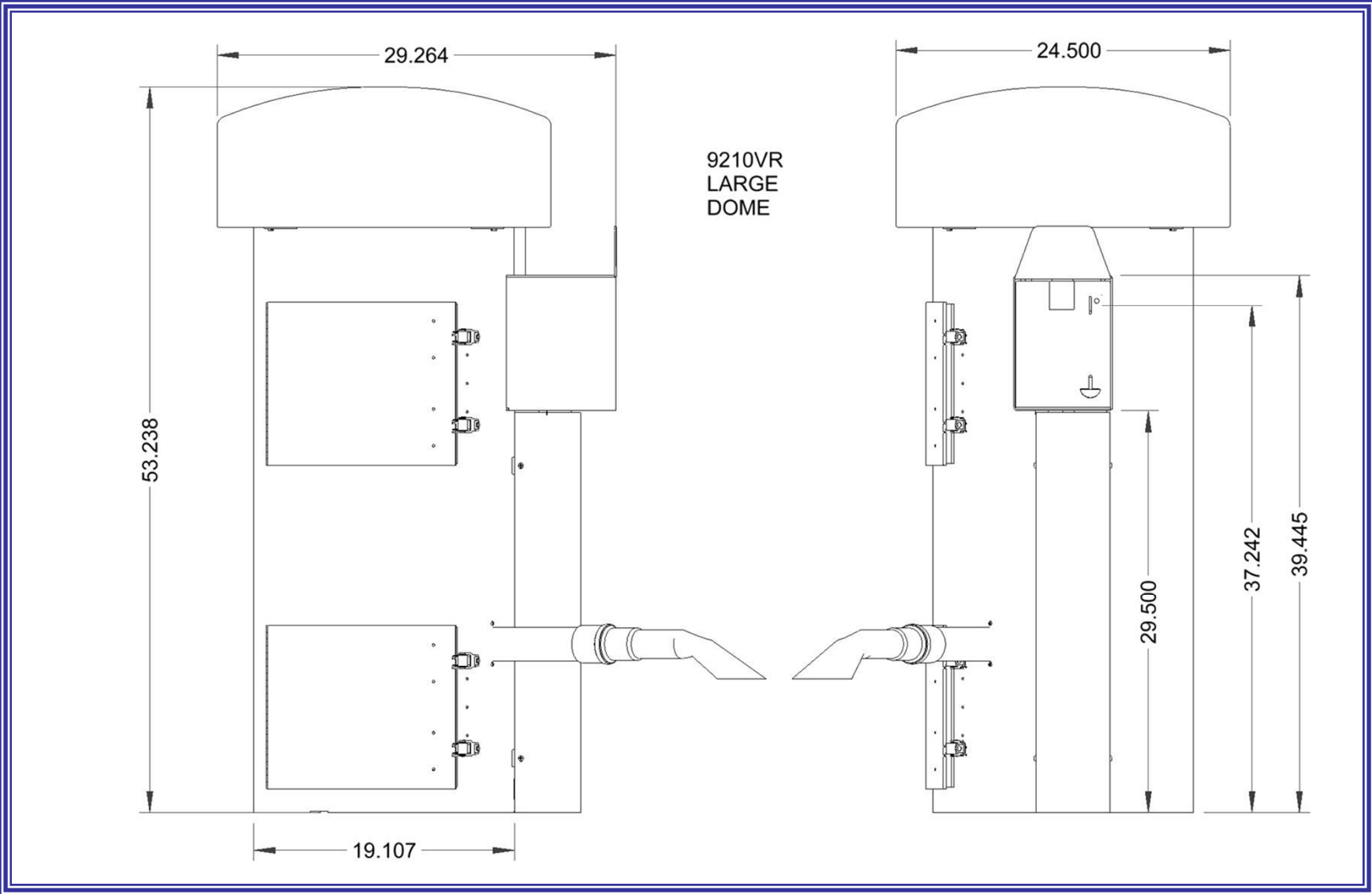
- **Installation Instructions:**
- Determine location to mount unit (“**DANGER**” “**THIS EQUIPMENT INCORPORATES PARTS SUCH AS SWITCHES, MOTORS, OR THE LIKE THAT TEND TO PRODUCE ARCS OR SPARKS THAT CAN CAUSE AN EXPLOSION. WHEN LOCATED IN GASOLINE-DISPENSING AND SERVICE STATIONS INSTALL AND USE AT LEAST 20 FEET (6 M) HORIZONTALLY FROM THE EXTERIOR ENCLOSURE OF ANY DISPENSING PUMP AND AT LEAST 18 INCHES (450 MM) ABOVE A DRIVEWAY OR GROUND LEVEL.**”
- Run service to the location
- **Grounding Instructions:** This appliance must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.
- All local and national electric codes must be followed for installation and use.
- Licensed electricians are recommended for installation.



# Product Dimensions

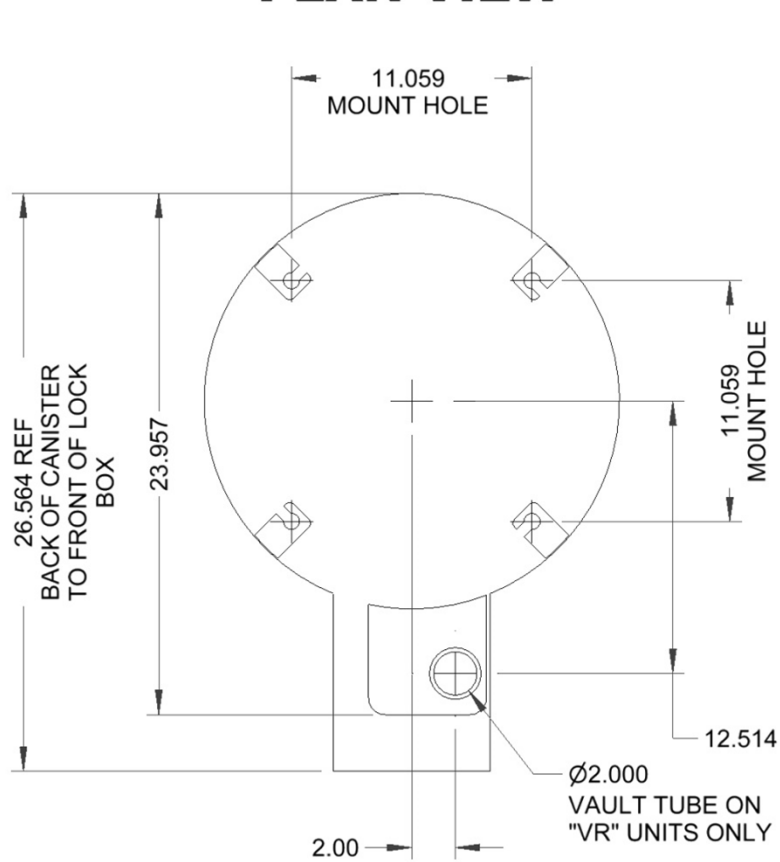


# Product Dimensions

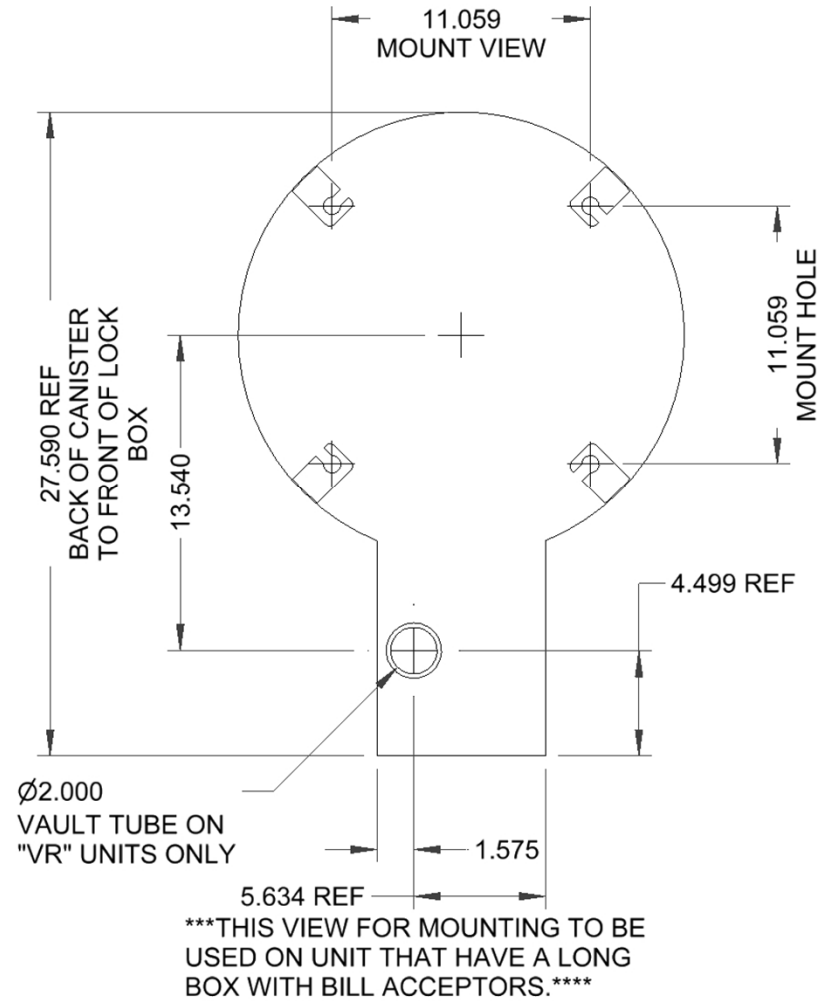


Installation:

## PLAN VIEW

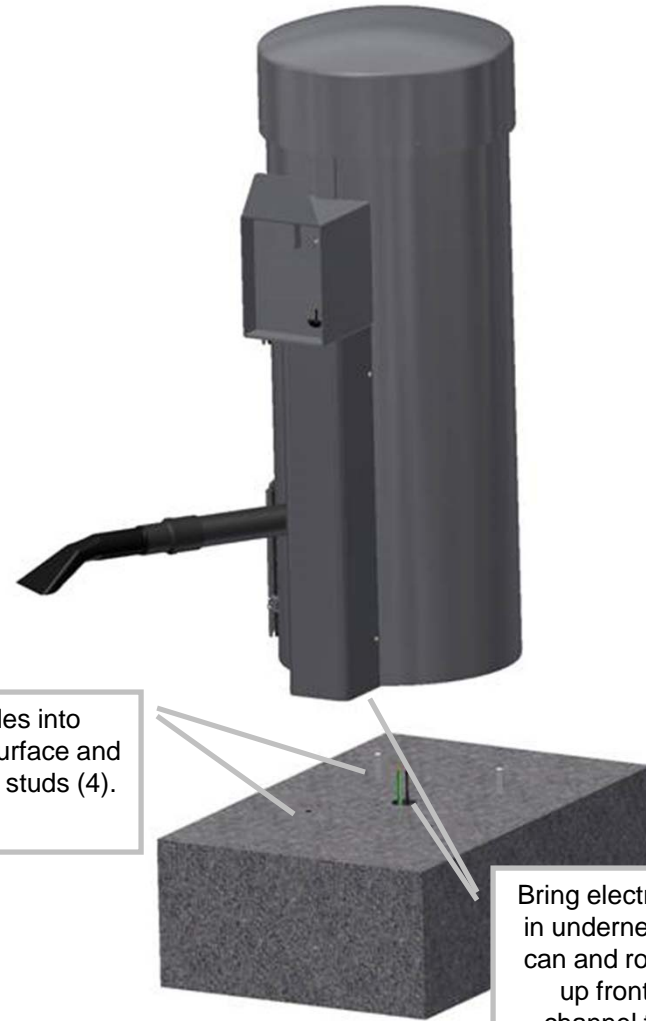


NOTE: when mounting, provide clearance so cleanout doors can open!!



Installation:

NOTE: when mounting, provide clearance so cleanout doors can open!!

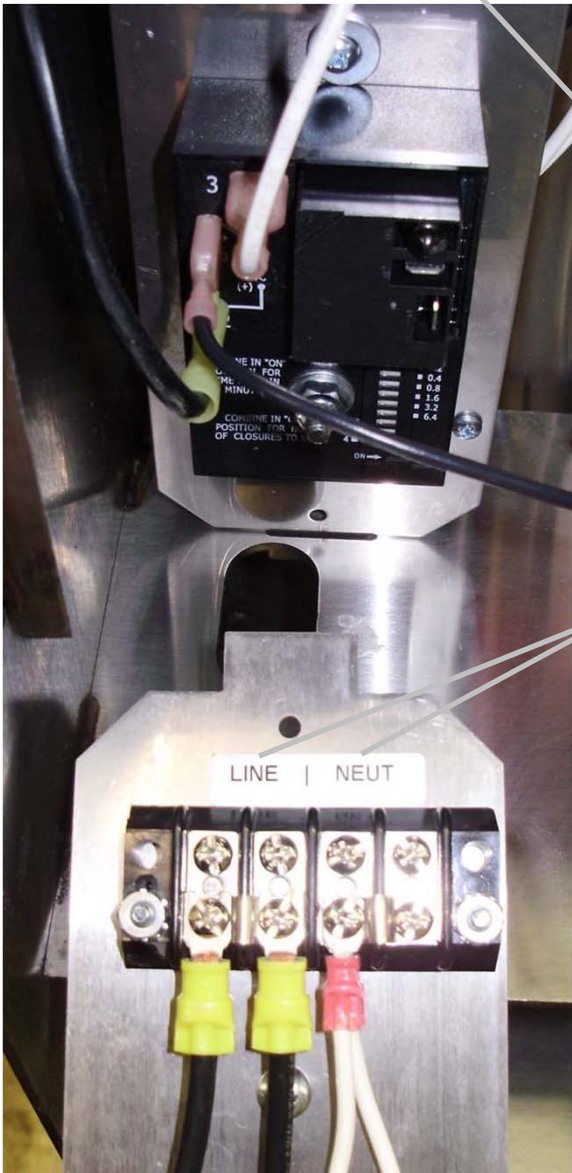


Drill holes into concrete surface and install 3/8" studs (4).

Bring electrical in underneath can and route up front channel to terminal strip.

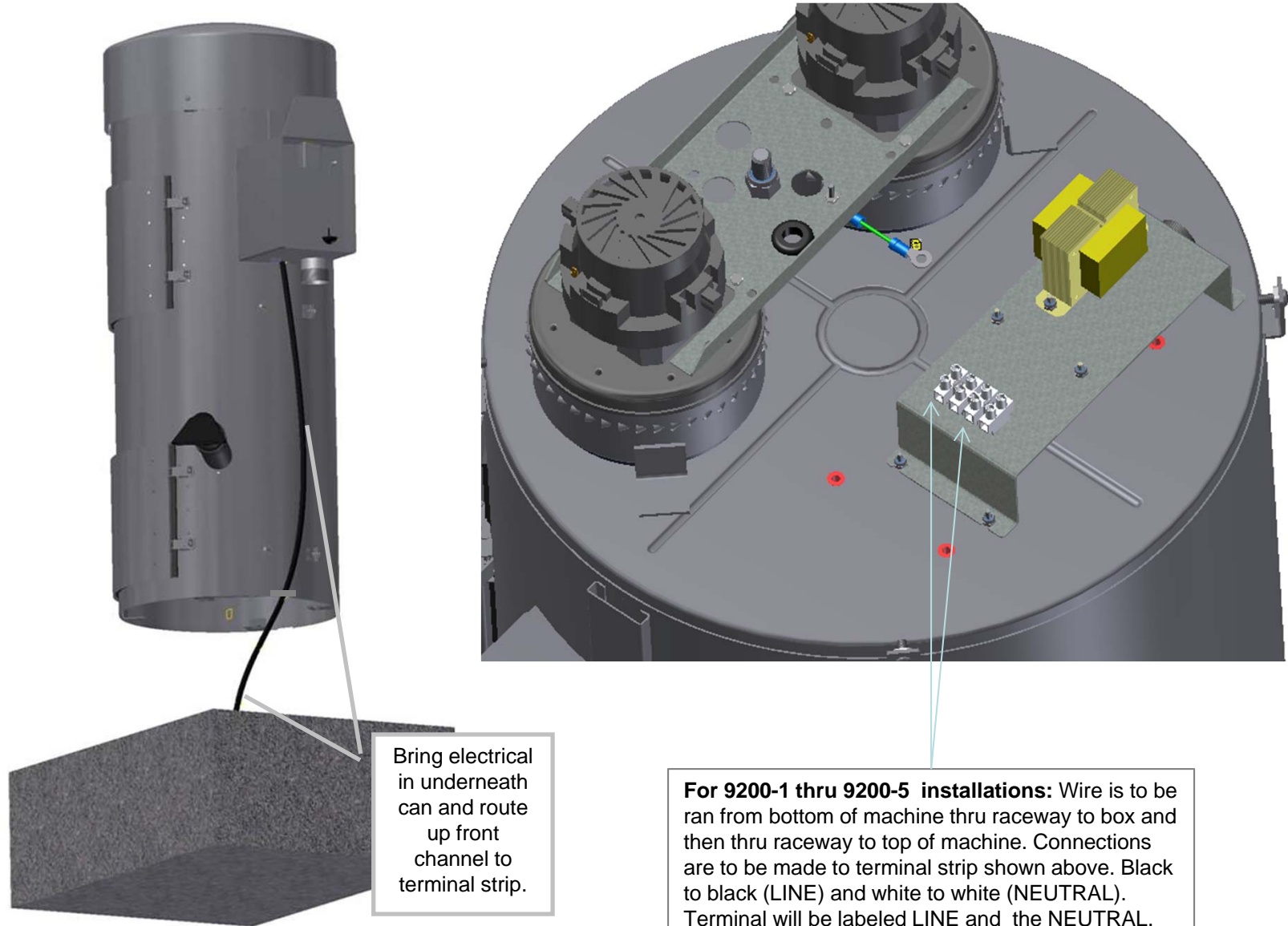


Bring electrical in underneath can and route up front channel to terminal strip.



Remove screw from uppermost point of timer plate and tilt/flip down as shown below.

With timer plate flipped down as shown, add incoming power "line and neutral" to terminal strip. (120V)

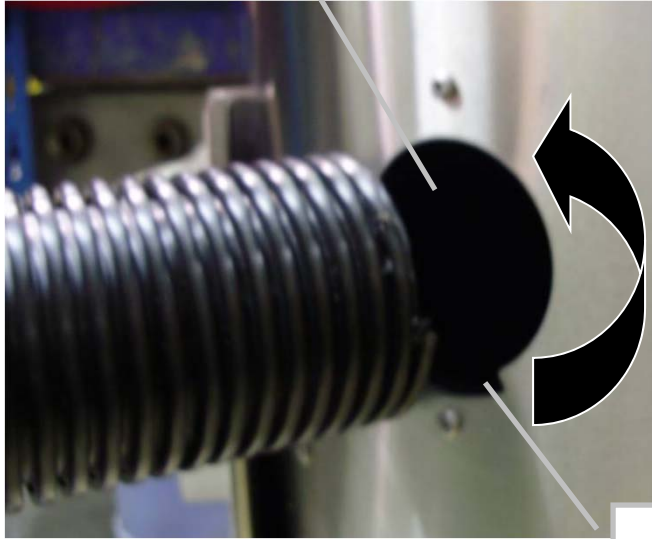


Bring electrical in underneath can and route up front channel to terminal strip.

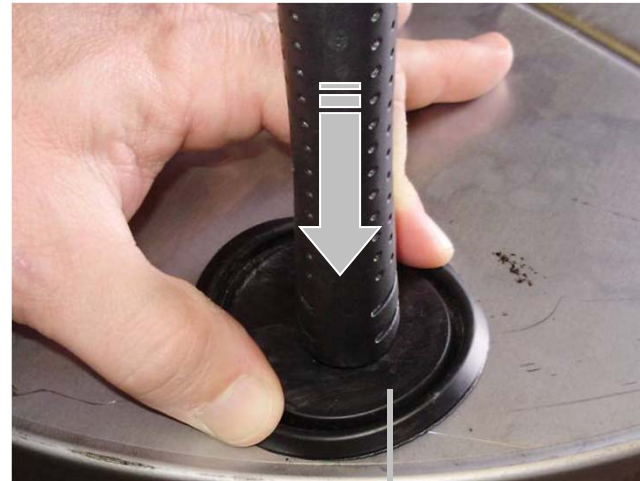
**For 9200-1 thru 9200-5 installations:** Wire is to be ran from bottom of machine thru raceway to box and then thru raceway to top of machine. Connections are to be made to terminal strip shown above. Black to black (LINE) and white to white (NEUTRAL). Terminal will be labeled LINE and the NEUTRAL.

To attach hose, thread into metal hole counter clockwise.

Once unit has been installed use 5871B8 cap plugs (supplied with unit) to seal holes in canister bottom located in lower cleanout door. Extra cap plugs are included with the unit in case plug becomes damaged during shipping removal.



Edge of hose will need to start here.



To insert 5871B8 cap plugs into bottom holes, pinch cap plug into place using index finger and thumb. With edges of plug resting against edges of hole, firmly push down on plug with end of hammer or other blunt object until plug snaps into place.

Now the unit can be turned on and programmed.

### **Programming Instructions:**

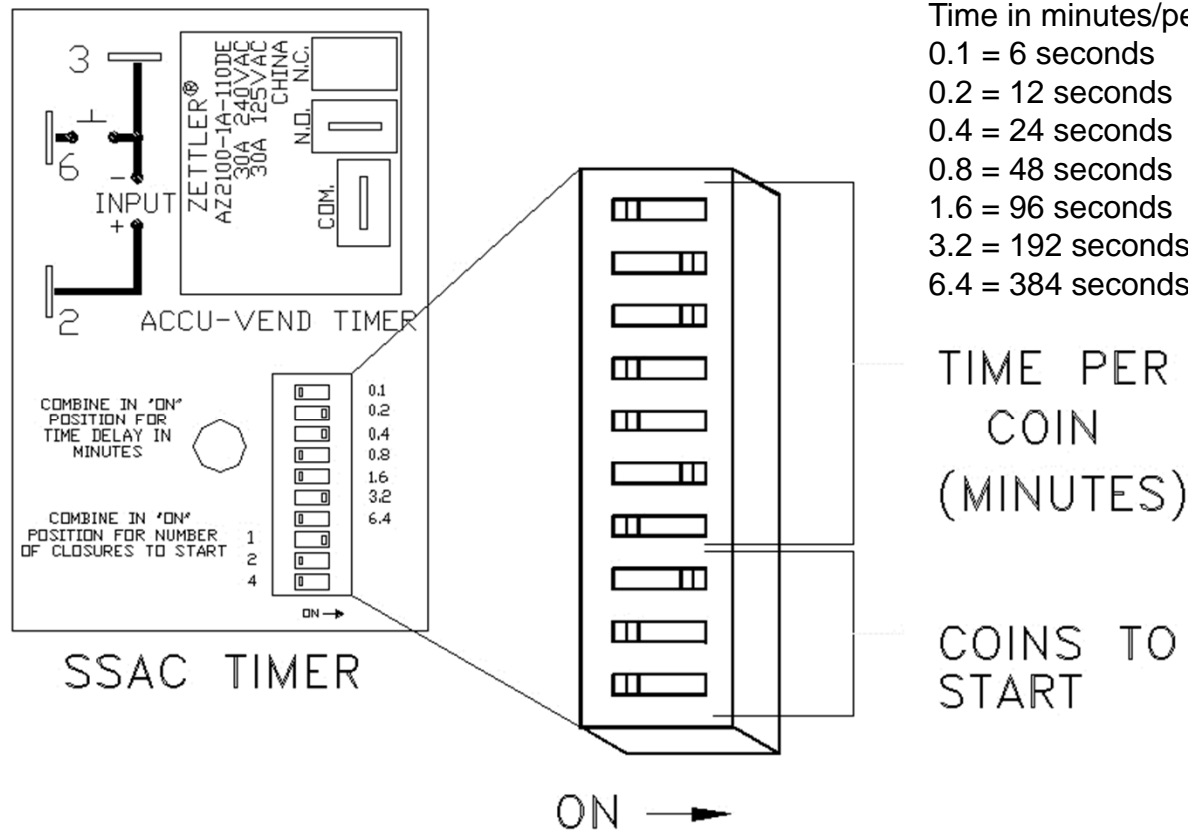
#### Coin acceptor:

No programming to acceptor needed if unit was purchased with the standard Imonex Z3 acceptor (8149 JEA part number) as it is built accept US quarters.

If different acceptor was purchased, see additional literature sent along with unit for programming info.

**Programming:**

The below timer pictured is the standard SSAC model that allows the end user to select the "coins to start" and the "time per coin" by settings series of dip switches. The number of "coins to start" dip switch is how many quarters are needed to make the machine come on. In the below example, the "one coin" dip is selected which makes the unit come on with one coin. The "time per coins" will then need to be set, but a good rule of thumb would be 4 minutes which requires dip switches 3.2 and .8 to be set to on. This scenario means 1 quarter will provide 4 minutes of vacuum time. The time per coin setting can be modified as desired by simply adding or subtracting time. If the operator would later decide to increase the cost of the unit to "2" quarters, the 2 dip switch would need to be in the on position (all other off) and the time dip switches would need to have the 1.6 and 0.4 dips selected. This would allow 2 minutes of time for each quarter for a total of 4 minutes for two quarters.



Time in minutes/per coin dip switch settings:

- 0.1 = 6 seconds
- 0.2 = 12 seconds
- 0.4 = 24 seconds
- 0.8 = 48 seconds
- 1.6 = 96 seconds
- 3.2 = 192 seconds
- 6.4 = 384 seconds

TIME PER  
COIN  
(MINUTES)

COINS TO  
START



**Bill acceptor (optional on some models):**

Bill acceptor comes pre programmed from J.E. Adams and should not require any changes. If additional programming is needed to acceptors please refer to additional literature sent along with this unit.

**Display (optional on some models):**

Unit may be programmed when received depending on information given at that the time of order. To program the optional digital display, follow the instructions below:

**Dixmor LED 7 operating and programming instructions**

Push MODE to change from item to item. Push SET to set desired value or choose option for that item. Pushing SET repeatedly causes numbers to increase. Holding SET causes numbers to decrease. The letter "X" below represents a programmable digit. Default values are shown in [ ].

<b><u>ITEM</u></b>	<b><u>DISPLAY</u></b>	<b><u>REPRESENTS</u></b>
1	COIN VALU [\$.25]	The monetary value assigned to a single coin pulse. Adj from \$.05 to \$5.00.
2	C: XX [30]	Time per coin/pulse. Adj from 0:01 to 9:59.
3	S XXX [008]	Number of coins/pulses to start. Adj from 1 to 200.
4	AUX VALU CN. XX [4]	Auxiliary coin/pulse input pulse multiplier. Adj from 1 to 80.
5	B XXX [9]	Coin/pulses to bonus. Bonus time is given when this coin/pulse is received.
6A	BONUS TIME XX:##	Amount of time added for bonus coin/pulse.
6B	XXXX [00:00]	Adj from 00:00 to 99:59.
7	[SINGLE BONUS]	Bonus time is only added one time when bonus coin pulse is received.
	[MULTIPLE BONUS]	Bonus time is added for every coin after bonus coin pulse is received.
8	[DEBIT MODE]	Money counts down as coins are inserted.
	[CREDIT MODE]	Money counts up as coins are inserted.
	[BOTH]	Money counts up as coins are inserted, plus a prompt of "ADD \$X MORE" if start price is not reached.
9	[DELAYED START]	Two second delay before timing starts after start price is reached.
	[INSTANT START]	Timing starts as soon as start price is reached.
10	HL XX [10]	Length of warning horn in seconds at one minute of time remaining.

11	[PULSED HORN] CONTINUOUS HORN	Horn output will pulse for amount of time set in HL:XX. Horn output will stay on continuously for entire last minute.
12	[RESTART OFF] RESTART ON	Restart feature turned off. Full price required after time expires. Timer may be restarted with one coin for 20 seconds after time expires.
13	[STD] USER MIX	Standard greeting message displayed. User programmed custom message is displayed. Standard and custom message are displayed.
14	M X:XX [5:00]	Length of washdown cycle using remote control. Adj from 0:00 to 9:59.
15	XXXX [1 2 3 4]	Adjustable remote access code (1234 is default).
16	CC PULSE VALUE \$X:XX [\$.25]	Monetary value assigned to credit card pulse received on pin #8 during count up.
17	[ENG] SPH E & S	Standard message and prompt is displayed in English. Standard message and prompt is displayed in Spanish. Standard message and prompt is displayed in English then Spanish.
18	EXIT	Timer returns to standby.

### **Inventory**

Timer keeps a running count of coins deposited, auxiliary pulses and manual cycles.

To show inventory press **SET**. Timer will display COINS XXXX (Number of coin pulses since last cleared), AUX XXXX (Number of pulses on auxiliary input) then MANUAL XXXX (Number of washdown cycles used since last cleared).

To clear inventory: Press **SET** to display inventory. Press and hold **MODE** until display reads "CLR?". Release **MODE**. Press and hold **MODE** again until timer reads "DONE".

### **Bonus Time Settings**

Amount of time set in bonus time is added to time remaining on timer when bonus coin/pulse is received.

Bonus is disabled by setting bonus time to 00:00.

If "SINGLE BONUS" is selected, bonus time is only added once, when bonus coin/pulse is received. Any coins deposited after that bonus coin will receive the regular time per coin.

If "MULTIPLE BONUS" is selected, every coin deposited after bonus coin/pulse is reached will receive amount of time set in "BONUS TIME".

### **Debit/Credit Mode:**

Debit Mode: As coins are deposited display shows "\$1.75 MORE, \$1.50 MORE, \$1.25 MORE" etc. until start price is reached. Once start price is reached display switches to time accumulating until no more coins have been deposited.

Credit Mode: As coins are deposited display shows money accumulating (\$ .25, \$ .50, \$ .75 etc.). If timer is also set to Delayed Start Mode timer will continue to show money accumulating until no more coins have been deposited. If timer is set to Instant Start mode, as soon as start price is reached, timer will change to time counting down.

Both Mode: As coins are deposited display shows money accumulating (\$ .25, \$ .50, \$ .75 etc). If start price is not reached, after 5 seconds timer will alternate between "ADD \$X.XX MORE" and amount of money already deposited.

### **Credit Card Input:**

Count up mode: No pre-set amount is charged to card. Timer will count up and run until terminated by credit card system. For count up: Close pin #9 (input) to 24 VAC common for more than 400ms. Timer will continue to count up until closure is released for more than 400ms.

To have timer display amount charged to card at end of cycle: Close input as above. Open input for less than 400ms and re-close at intervals determined by pulse value set in "CC PULSE VALUE" (For example: if time per coin is set at 30 sec and "CC Pulse Value" is set at \$ .25, open and close input every 30 seconds. If time per coin is set at 30 sec and "CC Pulse Value" is set at \$ .05, open and close input every 6 seconds.)

Pre-pay mode: A pre-determined amount is charged to credit card each time card is swiped and credit card system sends pulses to input.

Pulses between 16ms and 200ms will register on timer like coin pulses. A pulse between 200ms and 400ms will cause timer to display "VERIFYING CARD". Should a second pulse of 200ms to 400ms be received on input timer will display "TRY DIFFERENT CARD". Minimum time between pulses is 16ms.

***Note: Not all credit card systems can utilize all modes of operation. Contact your credit card system manufacturer for more information on what your system can do.***

## **Messages**

Standard greeting message (English): "PLEASE DEPOSIT \$2.00 TO START".

Standard greeting message (Spanish): "POR FAVOR DEPOSITO \$2.00 PARA EMPEZAR"

Standard exit message (English): "THANK YOU"

Standard exit message (Spanish): "GRACIAS"

## **Custom Message Programming:**

A custom message can be programmed up to 64 characters ( a space counts as a character).

To program a custom message: Push **MODE** until STD appears on display. Push **SET** until USER appears on display. Push and hold **MODE** until "/" appears on right side of display. Push **SET** until first letter of your custom message appears on right side of display. Push **MODE**. The first letter of your message will move over one position to the left and an "A" will appear on the far right. Push **SET** until the second letter of your message appears on the right. Continue in this fashion until you message is complete. (Push **MODE** to advance to the next space in your message, push **SET** to display the letter or character you need. The character you are programming will always be the far right digit.) At the end of your message you MUST put a "/" to indicate the end of the message. Once your message is complete, push and hold **MODE** until USER appears on the display. Push **MODE** until EXIT appears. Message programming is now complete.

## **Count Up Message:**

During count up mode an operator programmable message of up to 31 characters can be displayed every five seconds. To program message push and hold **MODE** when timer is displaying "CC PULSE VALUE" until "/" appears on display, then proceed as above, use **SET** to set letter or character required then press **MODE** to advance to next space. When message is complete, hold **MODE** until timer shows "DONE".

### **Remote Control Operation & Method of Programming:**

Remote control will hold program setup for 15 minutes without batteries to allow you to change batteries without reprogramming remote. If remote loses its program for any reason use the following instructions.

1. Hold down the set button until the red LED blinks twice, then release the button.
2. Enter **0000**

**Wash Down:** Press red power button. Display will show **0000**. Enter your four digit access Code (Default is 1 2 3 4). Timer will show **OK** if code is correct.

Press red power button on remote control. Timer will display **M0:00** and start counting up. Timer will continue to run until washdown cycle length is reached or washdown cycle is stopped by operator. Note: to stop washdown cycle press red power button .

**Inventory:** Press red power button . Display will show 0000. Enter your four digit access code (Default is 1 2 3 4). Timer will show **OK** if code is correct. Press **VOL +** on remote control.

Timer will show **COINS 0000 AUX 0000 MANUAL 0000**. Press **VOL +** again to return to standby message. Coins represents coins deposited. Manual represents the number of washdown cycles.

To clear inventory: With inventory showing, press and hold **CH +** until **CLR?** appears on timer. Press and hold **CH +** again until **DONE** appears on timer. Inventory has now been reset to zero. Clearing inventory resets both coins and manual to zero.

Press **VOL +** to return to standby.

**Timer Programming:** Press red power button. Timer will show **0000**. Enter four digit access code (Default is 1 2 3 4). Timer will show **OK** if code is correct.

Press **CH +** . Timer will display **COIN VALU \$ .25**. Use **VOL +** or **VOL -** to set monetary value of one coin pulse.

Press **CH +** to advance to next item. Use **VOL +** or **VOL -** to set value or make choice for that item.

Continue in this manner until all modes have been programmed. Use **CH +** to move to the next mode. Use **VOL +** or **VOL -** to set required value.

***NOTE: Remote control access will automatically become disabled when no buttons have been pushed for approximately one minute.***

**Operating Instructions:**

- Insert payment (coins, bills, or credit card) to start vacuum.
- Once service is used, hang up hose.

**Maintenance:**

- **All servicing of machine should be conducted by an authorized service representative!**
- Filter bags should be accessed and shaken down weekly. It is recommended to keep a new set of bags on hand so that once every few months the bags can be replaced and then laundered.
- To maintain performance, empty dirt bin from the canister on a regular basis.
- Periodically inspect wires and connections for wear or fatigue.
- Check door and motor gaskets periodically for signs of wear or damage and replace as needed.
- Check vac hose for cracks on a weekly basis.
- Clean canister with a stainless steel cleaner as needed. Decals can be cleaned with mild soap and water.
- Check motor brushes every month for excessive wear. Motor brushes should be changed immediately if they are shorter than 1/4". **Please disconnect power before doing this!**



**DISCONNECT POWER BEFORE SERVICING OR TROUBLESHOOTING!**




**Troubleshooting:**

<b>Problem</b>	<b>Possible cause</b>	<b>Solution</b>
Unit is not powered.	Breaker inside unit is not in the on position.	Flip breaker on.
	No power to machine.	Check incoming power.
	Loose connection.	Check incoming power connection.
Display is not powering.	Breaker inside unit is not in the on position.	Flip breaker on.
	Open unit and check 24 volts coming out of transformer.	If no voltage, replace transformer.
Machine is behaving erratically.	Is the incoming power at 120V?	Check voltage and monitor while machine runs. Low voltage can cause erratic behavior.
	Are any of the machines wires worn through or connections not making contact?	Inspect wiring and connections. Look for sharp bends in wires and places where wire is against the metal chassis.

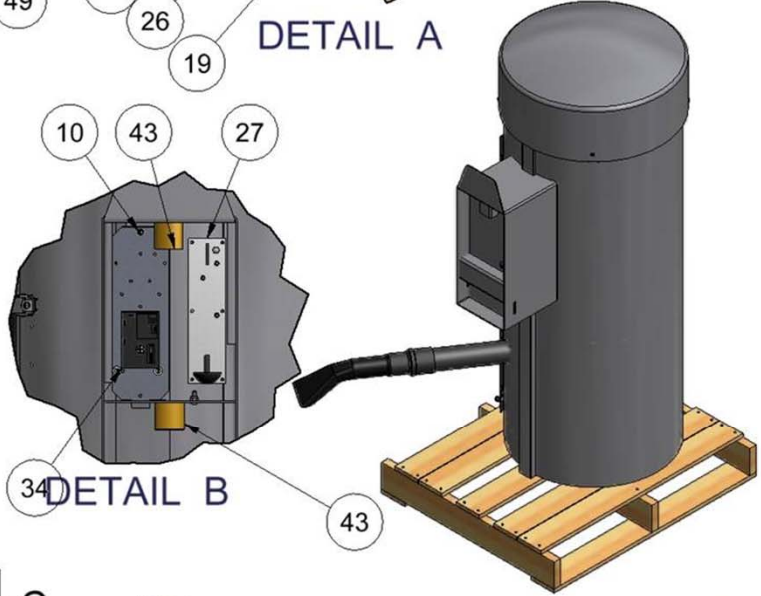
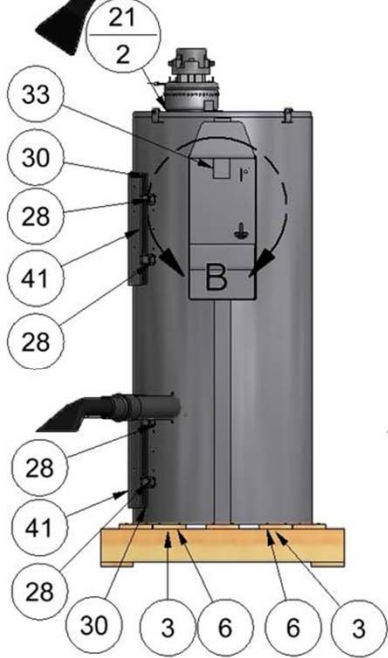
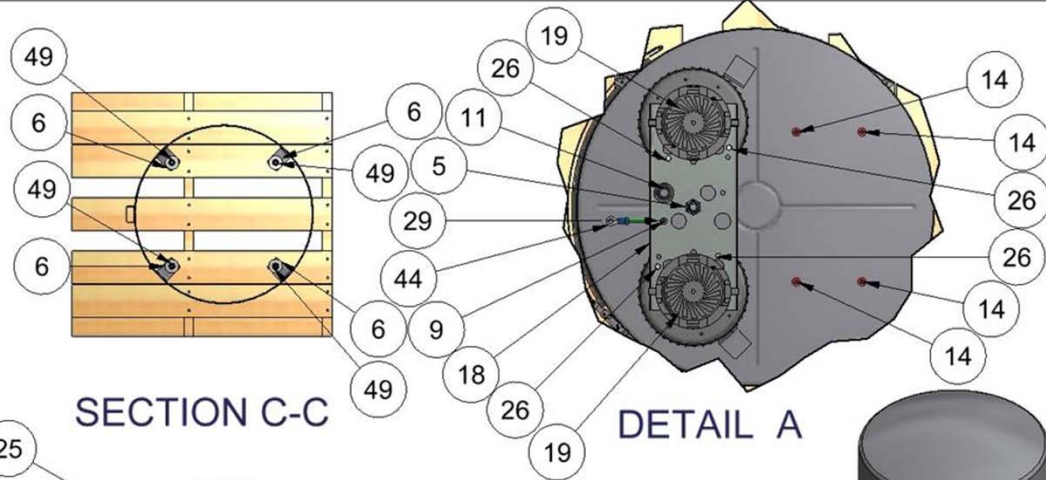
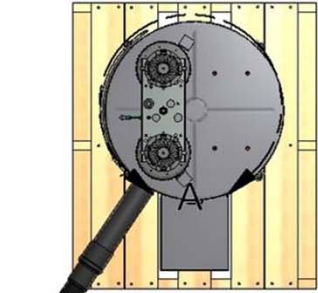
Display reads "closed" or "coin."	This indicates a continuous coin pulse coming to the timer or a shorted coin signal wire.	Disconnect coin signal wire at timer to see if problem goes away.
Display reads "error."	This indicated the program may be lost due to a bad battery or a power spike.	Reprogram timer, if problem comes back replace battery.
Display reads "aux."	This means continuous signal to auxiliary input.	
Display reads "fail."	Coin acceptor putting out continuous pulse.	Press mode button on display. If fail does not go away replace coin acceptor.
	Program in display may be lost.	Reprogram display. If fail goes away and then comes back, replace battery in display.
Unit keeps tripping breaker.	Inadequate wire size ran to machine.	Call electrician and install proper wire size for 30amp service versus length or run.
	Wrong size breaker.	Install correct breaker (only if wire size is adequate to handle 30 amp breaker).
Fuses for vac motors keep blowing.	Inadequate wire size ran to machine.	Call electrician and install proper wire size for 30amp service versus length or run.
	Motor brushes may be bad or too short.	Replace motor brushes.
Lack of vacuum suction.	Vac hose clogged?	Clean debris from vac hose.
	Filter bags need cleaned or dirt chamber needs emptied?	Shake or clean filter bags or replace and empty lower dirt chamber.
	Vac hose is split?	Replace/repair vac hose.
	Cleanout door gaskets torn or worn?	Replace gaskets.
	Vac motor gaskets are worn or motor is not tight against.	Inspect/replace gaskets and assure motor is tight against them.
	Lower chamber cap plugs/mounting hole covers have popped out?	Open lower chamber and inspect plugs, order new if needed.
	Cleanout door gaskets torn or worn?	Replace gaskets.
	One of the vac motors is not working?	Check line motor fuse and replace. Replace motor if necessary.



PART NO.		9200																																											
BILL OF MATERIALS				BILL OF MATERIALS																																									
ITEM	PART NUMBER	DESCRIPTION	QTY	ITEM	PART NUMBER	DESCRIPTION	QTY																																						
33	8211RW	FACEPLATE WELDMENT, R.H	1	1	2036	HOSE, 2" X 15' BLACK VACUUM	1																																						
34	8221SS4	TIMER ASSY, 110 SSAC	1	2	2058	CLAW/CUFF ASSEMBLY, 2"	1																																						
35	8221WH2	WIRING HARNESS, 2 MOTOR	1	3	5600D4	3/8-16 X 1.5 HHCS	4																																						
36	8423-2	DECAL, VACUUM DOME	1	4	5603D1	10 Std NC Nylock Nut	1																																						
37	8424-1	DECAL, CANISTER	1	5	5603D11	1/2 Std NC Nylock Nut	1																																						
38	8429-1	DECAL, HANG HOSE	1	6	5606D22	WASHER, 3/8 FENDER	8																																						
39	8437D001	DECAL, ETL LISTED	1	7	5606D7	FLAT WASHER, .160 ID X .500 OD	1																																						
41	8615-5W	CLEANOUT DOOR WELDMENT	2	8	5619D1	SCR, HEX SOC BUT, HD CPCW, 1	4																																						
42	8631	11 X 55 PAD FOR VACS	1	9	5627D2	Pan Head, Slotted, 6-32 x 5/8	1																																						
43	8638	PIN LOCK	2	10	5629D1	#8 x 1 SELF TAPPING SCREW	1																																						
44	8673-11	GROUND WIRE 28"	1	11	5639D4	RUBBER GROMMET	1																																						
45	8732	NAMEPLATE, PRODUCT SPEC'S	1	12	5647D2	1/8" SS POP RIVET	16																																						
46	8754	DECAL, WARNING	1	13	5647D8	3/16" SS POP RIVET	14																																						
47	9200FPD	DECAL, FACEPLATE	1	14	5871B9	PLASTIC VAC LID PLUG	4																																						
48	9201W	CAN W/C 2DRVAC ECONO/PIN	1	15	5871b8	PLUG, VAC BOTTOM 2-1/2"	8																																						
49	B5722-002	NUT, 3/8-16 UNC HEX LOCK NUT	4	16	6082	BAG 9 X 12	1																																						
35	8605	PALLET, VAC, 26" X 30.5"	1	17	8047	BAG, 60 X 72	1																																						
				18	8051G	BRACKET, MOTOR MOUNT	1																																						
				19	8055EM	MOTOR, ELECTRO 120V	2																																						
				20	8055LEAD-EM	WIRE LEAD, EM VAC MOTOR	4																																						
				21	8057	MOTOR GASKET	2																																						
				22	8076	FILTER BAG	4																																						
				23	8081	CABLE TIE MOUNT	2																																						
				24	8084	CABLE TIE	4																																						
				25	8101	20" STAINLESS STEEL DOME	1																																						
				26	8108	#10 x 1/2 TAP SCREW	4																																						
				27	8149	IMONEX COIN ACCEPTOR	1																																						
				28	8153-1	LATCH, CLEANOUT DOOR	4																																						
				29	8157	NUT, #6-32 KEPP NUT STAINLESS	5																																						
				30	8159	DOOR GASKET	2																																						
				31	8183	DISCONNECT POWER DECAL	2																																						
32	8204RW	WELDMENT, COIN BOX	1																																										
<table border="1"> <tr> <td>REV</td> <td>NO.</td> <td>DESCRIPTION</td> <td>DATE</td> <td>BY</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				REV	NO.	DESCRIPTION	DATE	BY						<table border="1"> <tr> <td colspan="2">TITLE</td> <td colspan="2">2DR VAC, ECONO DOME PIN LOCK</td> </tr> <tr> <td>UNSPECIFIED TOLERANCES</td> <td>MATERIAL</td> <td colspan="2">CEDAR RAPIDS, IOWA</td> </tr> <tr> <td>1 PL ±.030</td> <td>SCALE</td> <td colspan="2"></td> </tr> <tr> <td>2 PL ±.010</td> <td>DRAWN BY</td> <td colspan="2">CHAD K.</td> </tr> <tr> <td>3 PL ±.003</td> <td>DATE</td> <td colspan="2">3/8/2011</td> </tr> <tr> <td>ANGLE ±1.0°</td> <td>PART NO.</td> <td colspan="2">9200</td> </tr> <tr> <td></td> <td>REV.</td> <td colspan="2"></td> </tr> </table>				TITLE		2DR VAC, ECONO DOME PIN LOCK		UNSPECIFIED TOLERANCES	MATERIAL	CEDAR RAPIDS, IOWA		1 PL ±.030	SCALE			2 PL ±.010	DRAWN BY	CHAD K.		3 PL ±.003	DATE	3/8/2011		ANGLE ±1.0°	PART NO.	9200			REV.		
REV	NO.	DESCRIPTION	DATE	BY																																									
TITLE		2DR VAC, ECONO DOME PIN LOCK																																											
UNSPECIFIED TOLERANCES	MATERIAL	CEDAR RAPIDS, IOWA																																											
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3 PL ±.003	DATE	3/8/2011																																											
ANGLE ±1.0°	PART NO.	9200																																											
	REV.																																												
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PART NO. 9200




TITLE		CEDAR RAPIDS, IOWA	
2DR VAC, ECONO DOME PIN LOCK		J.E. ADAMS INDUSTRIES, LTD	
UNSPECIFIED TOLERANCES	MATERIAL	DRAWN BY CHAD K.	PART NO. 9200
1 PL ±.030	SCALE		
2 PL ±.010	DATE 3/8/2011		
3 PL ±.003		REV.	
ANGLE ±1.0°			

REV	NO.	DESCRIPTION	DATE	BY
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PART NO.		9200-1LD					
BILL OF MATERIALS				BILL OF MATERIALS			
ITEM	PART NUMBER	DESCRIPTION	QTY	ITEM	PART NUMBER	DESCRIPTION	QTY
34	8157	NUT, #6-32 KEPP NUT STAINLESS	5	1	2036	HOSE, 2" X 15' BLACK VACUUM	1
35	8159	DOOR GASKET	2	2	2058	CLAW/CUFF ASSEMBLY, 2"	1
36	8183	DECAL, WARNING	2	3	5000D5	STAND-OFF, 6-32	4
37	8204RW	WELDMENT, COIN BOX	1	4	5600D4	3/8-16 X 1.5 HHCS	4
38	8306	24" PLASTIC DOME	1	5	5603D1	10 Std NC Nylock Nut	1
39	8437D001	DECAL, ETL LISTED	1	6	5603D10	6 Std NC Nylock Nut	16
40	8543K	2 MOTOR LIGHT KIT	1	7	5603D11	1/2 Std NC Nylock Nut	1
41	8605	PALLET, VAC, 26" X 30.5"	1	8	5606D22	WASHER, 3/8 FENDER	8
42	8615-5W	CLEANOUT DOOR WELDMENT	2	9	5606D7	FLAT WASHER, .160 ID X .500 OD	1
43	8630	TUBE, 30.5 X 26 X 60	1	10	5627D1	Pan Head, Slotted, 6-32 x1	6
44	8638	PIN LOCK	1	11	5627D2	Pan Head, Slotted, 6-32 x 5/8	1
45	8673-11	GROUND WIRE 28"	1	12	5647D2	1/8" SS POP RIVET	16
46	8732	NAMEPLATE, PRODUCT SPECS	1	13	5647D8	3/16" SS POP RIVET	14
47	8754	WARNING DECAL	1	14	5662D2	6-32 x 1/2 PHIL. PAN -MACHINE SCREW	8
48	8761	RELAY, 3PDT-24VAC-20A@1HP	1	15	5871B9	PLASTIC VAC LID PLUG	4
49	8900-7VW	FACEPLATE WELDMENT, W/VALI	1	16	5871b8	PLUG, VAC BOTTOM 2-1/2"	8
50	8900-82	TERMINAL BRACKET, VAC-SCENT	1	17	5913D8	LAMP, PANEL MT-3/8, 12V,LED, GRN	1
51	8925	FLOURESCENT BULB	2	18	5944D001	TERMINAL STRIP, 12 POLES, 8AMP MAX	1
52	8953	MEDECO CAM LOCK W/2 KEYS	2	19	5944D004	TERMINAL STRIP, C-60 SERIES, 4 POLE	1
53	9200-10	BRACKET, 9200 W/VALIDATOR	1	20	6082	BAG, 9 X 12	1
54	9200-1D-1-10	DECAL, FACEPLATE	1	21	8000-10	DIXMOR DISPLAY TIMER	1
55	9200-1WKIT	WIRING KIT	1	22	8000-11	ALARM, LAST COIN ALERT	1
56	9200FPD	DECAL, FACEPLATE	1	23	8047	BAG, 60 X 72	1
57	9201W2	CANISTER WELDMENT, BILL ACCEPTOR, 2M	1	24	8055EM	MOTOR, ELECTRO 120V	2
58	B5722-002	NUT, 3/8-16 UNC HEX LOCK NUT	4	25	8057	MOTOR GASKET	2
				26	8076	FILTER BAG	4
				27	8081	CABLE TIE MOUNT	2
				28	8084	CABLE TIE	4
				29	8108	#10 x 1/2 TAP SCREW	4
				30	8130-6	MARS 110V BILL VALIDATOR	1
				31	8131-2	TRANSFORMER, 110/220-24 1.66A	1
				32	8149	IMONEX COIN ACCEPTOR	1
				33	8153-1	LATCH, CLEANOUT DOOR	4


  



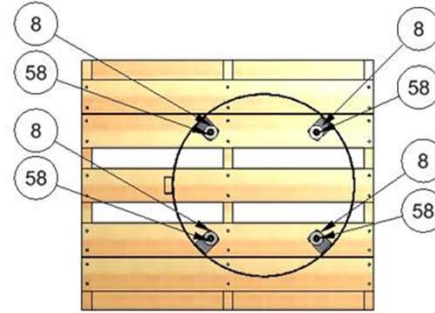
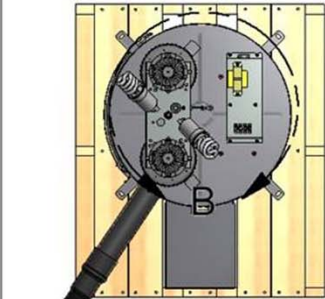
  

A					6552	REVISED AND DRAWN TO INVENTOR; NO PREVIOUS DRAWING			6-14-11	CK
REV	NO.	DESCRIPTION			DATE	BY				
THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION THEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY J.E. ADAMS INDUSTRIES										

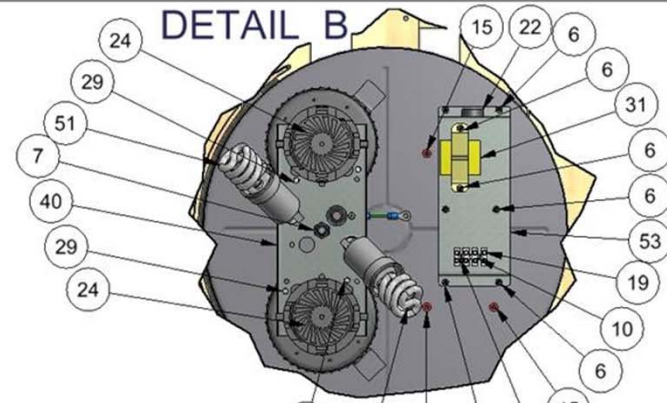
  

TITLE 2DR VAC, 2MTR, DISPLAY, BILL ACCEPTOR VAC, LD			
UNSPECIFIED TOLERANCES	MATERIAL	 CEDAR RAPIDS, IOWA	
1 PL ±.030	SCALE		
2 PL ±.010	DRAWN BY CHAD K.		
3 PL ±.003	DATE 6/13/2011		
ANGLE ±1.0°	PART NO. 9200-1LD	REV. A	

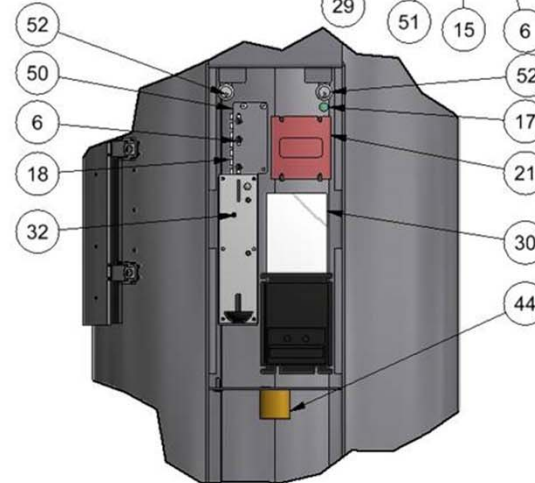
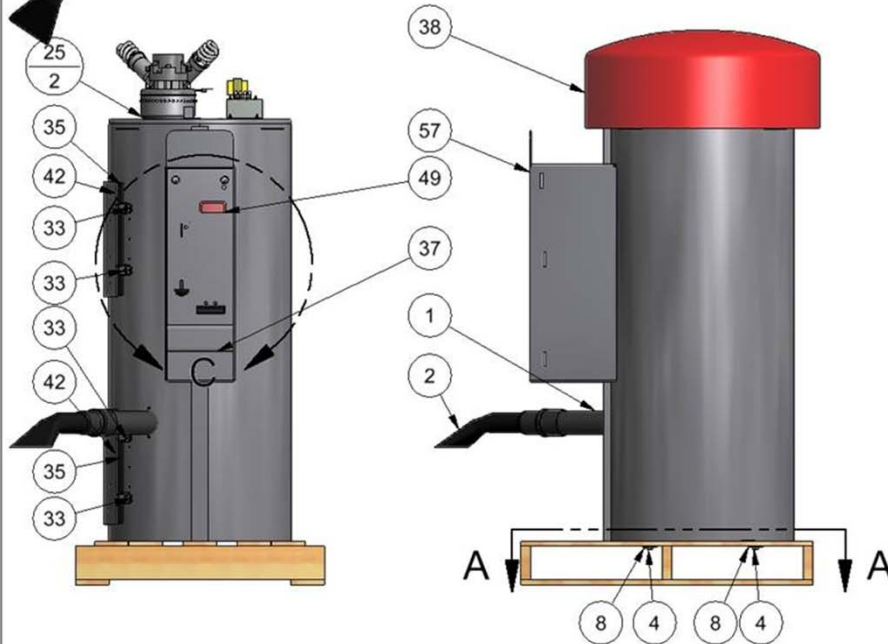
PART NO. 9200-1LD



SECTION A-A



DETAIL C



TITLE  
2DR VAC, 2MTR, DISPLAY, BILL ACCEPTOR VAC, LD

UNSPECIFIED TOLERANCES	MATERIAL
1 PL ±.030	SCALE
2 PL ±.010	DRAWN BY CHAD K.
3 PL ±.003	DATE 6/13/2011
ANGLE ±1.0°	



CEDAR RAPIDS, IOWA

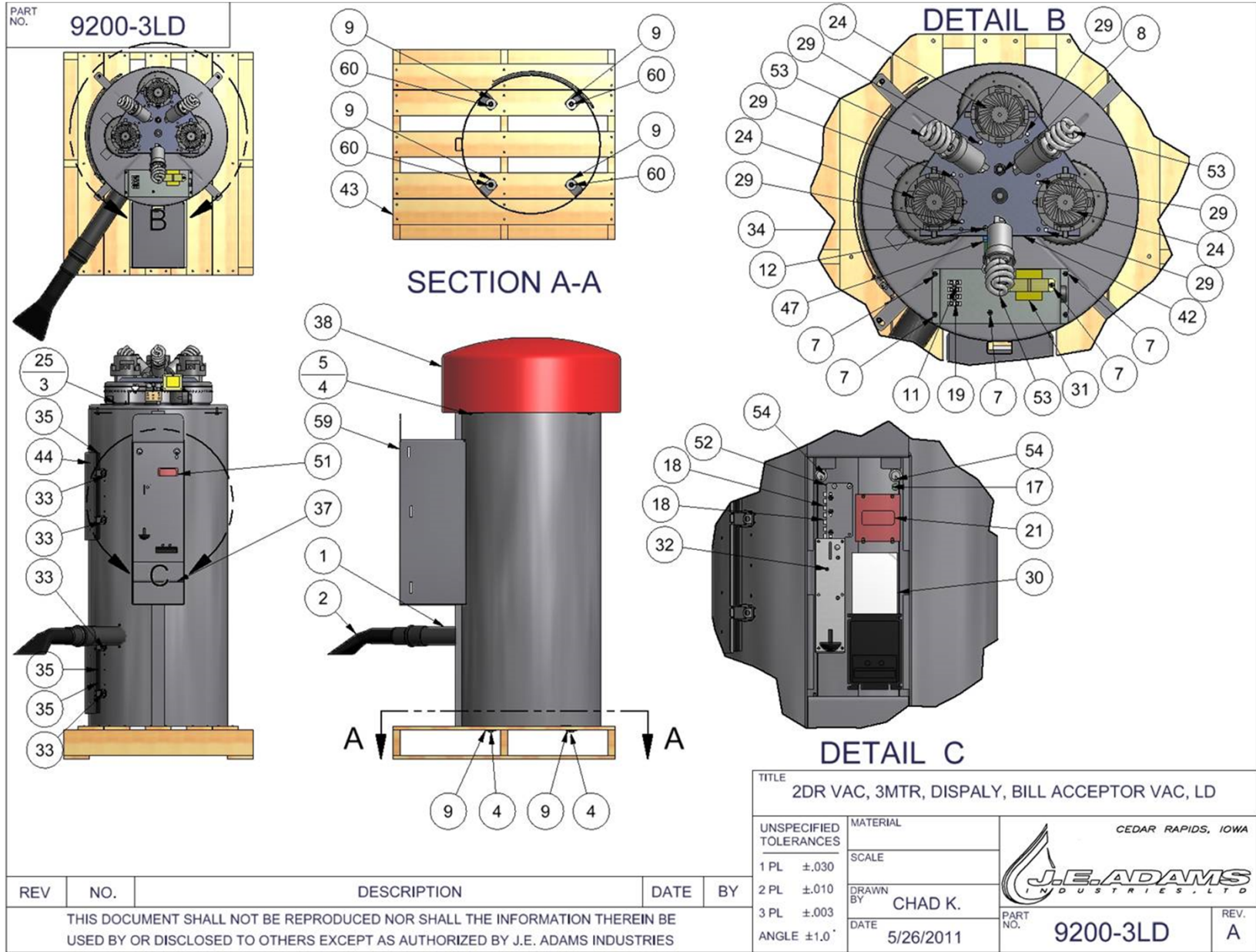


PART NO. 9200-1LD REV. A

REV	NO.	DESCRIPTION	DATE	BY
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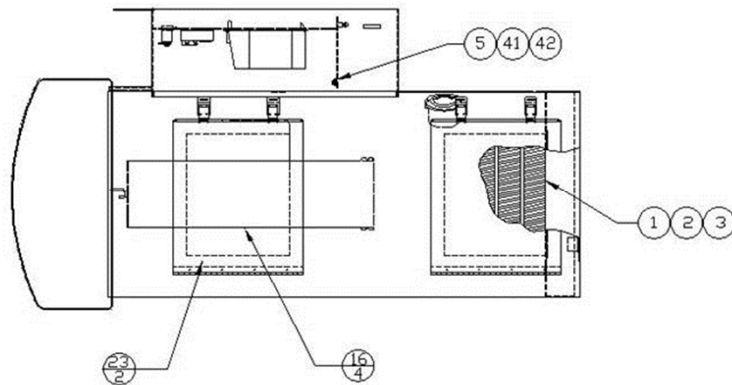
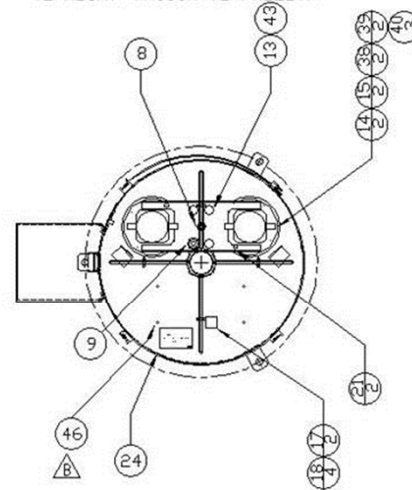
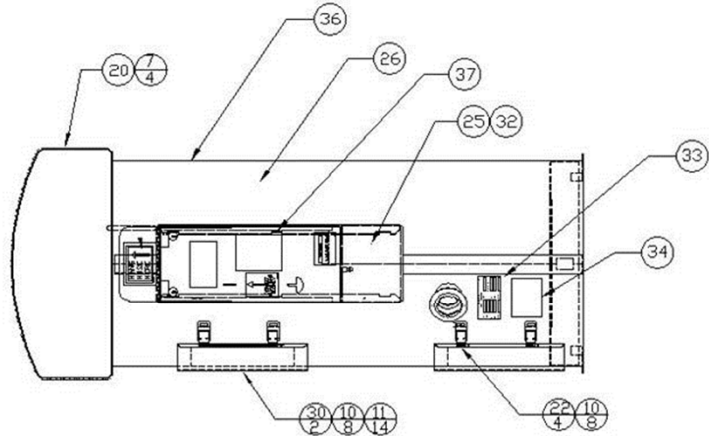


PART NO.		9200-3LD					
BILL OF MATERIALS				BILL OF MATERIALS			
ITEM	PART NUMBE	DESCRIPTION	QTY	ITEM	PART NUMBE	DESCRIPTION	QTY
34	8157	NUT, #6-32 KEPP NUT STAINLESS	5	1	2036	HOSE, 2" X 15' BLACK VACUUM	1
35	8159	DOOR GASKET	2	2	2058	CLAW/CUFF ASSEMBLY, 2"	1
36	8183	DECAL, WARNING	2	3	5000D5	STAND-OFF, 6-32	4
37	8204RW	WELDMENT, COIN BOX	1	4	5600D4	3/8-16 X 1.5 HHCS	4
38	8306	24" PLASTIC DOME	1	5	5601D13	1/4-20 x 3/4 AQ BR OSC FAN	4
39	8423-2	DECAL, VACUUM DOME	1	6	5603D1	10 Std NC Nylock Nut	1
40	8424-1	DECAL, CANISTER	1	7	5603D10	6 Std NC Nylock Nut	16
41	8437D001	DECAL, ETL LISTED	1	8	5603D11	1/2 Std NC Nylock Nut	1
42	8543K-3	3 MOTOR LIGHT KIT	1	9	5606D22	WASHER, 3/8 FENDER	8
43	8605	PALLET, VAC, 26" X 30.5"	1	10	5606D7	FLAT WASHER, .160 ID X .500 OD	1
44	8615-5W	CLEANOUT DOOR WELDMENT	2	11	5627D1	Pan Head, Slotted, 6-32 x1	6
45	8630	TUBE, 30.5 X 26 X 60	1	12	5627D2	Pan Head, Slotted, 6-32 x 5/8	1
46	8638	PIN LOCK	1	13	5647D2	1/8" SS POP RIVET	16
47	8673-11	GROUND WIRE 28"	1	14	5647D8	3/16" SS POP RIVET	14
48	8732	NAMEPLATE, PRODUCT SPEC'S	1	15	5662D2	6-32 x 1/2 PHIL. PAN -MACHINE SCREW	8
49	8754	WARNING DECAL	1	16	5871b8	PLUG, VAC BOTTOM 2-1/2"	8
50	8761	RELAY, 3PDT-24VAC-20A@1HP	1	17	5913D8	LAMP, PANEL MT-3/8, 12V,LED, GRN	1
51	8900-7VW	FACEPLATE WELDMENT, W/VALI	1	18	5944D001	TERMINAL STRIP, 12 POLES, 8AMP MAX	1
52	8900-82	TERMINAL BRACKET, VAC-SCENT	1	19	5944D004	TERMINAL STRIP, C-60 SERIES, 4 POLE	1
53	8925	FLOURESCENT BULB	3	20	6082	BAG, 9 X 12	1
54	8953	MEDECO CAM LOCK W/2 KEYS	2	21	8000-10	DIXMOR DISPLAY TIMER	1
55	9200-10	BRACKET, 9200 W/VALIDATOR	1	22	8000-11	ALARM, LAST COIN ALERT	1
56	9200-1D-1-10	DECAL, FACEPLATE	1	23	8047	BAG, 60 X 72	1
57	9200-1WKIT	WIRING KIT	1	24	8055EM	MOTOR, ELECTRO 120V	3
58	9200FPD	DECAL, FACEPLATE	1	25	8057	MOTOR GASKET	3
59	9201W6	CANISTER WELDMENT, BILL ACEPTOR, 3M	1	26	8076	FILTER BAG	4
60	B5722-002	NUT, 3/8-16 UNC HEX LOCK NUT	4	27	8081	CABLE TIE MOUNT	2
61	B5996-010	10AMP INLINE FUSE	1	28	8084	CABLE TIE	4
62	B5997-001	INLINE FUSE HOLDER	1	29	8108	#10 x 1/2 TAP SCREW	6
				30	8130-6	MARS 110V BILL VALIDATOR	1
				31	8131-2	TRANSFORMER, 110/220-24 1.66A	1
				32	8149	IMONEX COIN ACCEPTOR	1
				33	8153-1	LATCH, CLEANOUT DOOR	4
							
				TITLE 2DR VAC, 3MTR, DISPALY, BILL ACCEPTOR VAC, LD			
				UNSPECIFIED TOLERANCES 1 PL ±.030 2 PL ±.010 3 PL ±.003 ANGLE ±1.0°		MATERIAL SCALE DRAWN BY CHAD K. DATE 5/26/2011	
				CEDAR RAPIDS, IOWA 		PART NO. 9200-3LD REV. A	
A	6538	REVISED AND DRAWN TO INVENTOR; NO PREVIOUS DRAWING	5-26-11	CK			
REV	NO.	DESCRIPTION	DATE	BY			
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PART NO. 9209LD

(29) (4) (5) (12) — THESE COMPONENTS ARE USED TO MOUNT VACUUM TO PALLET.



BILL OF MATERIAL

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	2036	2X15 VAC HOSE	1
2	2056-BLACK	2' BLACK CLAW	1
3	2091	' SWIVEL CUFF	1
4	5600D4	BOLT, CARR. 5/16-18 x 1.5	3
5	5603D1	NUT, NYLOC #10-24	1
6	5606D3	WASHER, FLAT 3/8 SAE	3
7	5619D1	SCREW, HEX SOC. BUTT.	4
8	5603D11	NUT, 1/2-13	1
9	5639D4	GROMMET RUBBER	1
10	5647D2	RIVET, 1/8 SS POP RIVET	16
11	5647D8	RIVET, 3/16 SS POP RIVET	14
12	B5722-002	NUT, 5/16-18 UNC	3
13	8543K	LIGHT KIT	1
14	8055	MOTOR, AMETEK	2
15	8057	S/MOTOR GASKET	2
16	8076	FILTER BAG FOR 9200 VAC	4
17	8081	CABLE TIE MOUNT	2
18	8084	CABLE TIE, NYLON	4
19	8100N002	INSTRUCTION TAG	1
20	8306	DOME PLASTIC, NATURAL	1
21	8108	#10 X 1/2 SELF TAP SCREW	2
22	8153-1	LATCH, CLEANOUT DOOR	4
23	8159	DOOR GASKET	2
24	8182	DECAL, WARNING DISCONNECT	1

36	9209-4W	VAC CANISTER WELDMENT	1	25	8204RW	COIN BOX WELDMENT	1
37	9209-5	FACEPLATE ASSY.- 9209LD	1	26	8424-1	DECAL, SUPER VAC CANISTER	1
38	B5997-001	INLINE FUSE HOLDER	2	27	8429-5	DECAL, VACUUM \$1.00	1
39	B5996-010	FUSE, 10 AMP	2	28	8563	BAG, CLEAR PLASTIC	1
40	5901D1	YELLOW WIRE NUT	3	29	8605	PALLET, VACUUM	1
41	9209-112	GROUND WIRE ASSY. 48"	1	30	8615-5W	DOOR, CLEANOUT	2
42	9209-113	GROUND WIRE ASSY. 12"	1	31	8630	BOX, VACUUM	1
43	8925	LIGHT BULBS	2	32	8638	PIN LOCK W/ 2 KEYS	1
44	8429-3	DECAL 50 CENTS	1	33	8732	NAMEPLATE, PRODUCT SPEC	1
45	8429-4	DECAL 75 CENTS	1	34	8764	DECAL, DANGER	1
46	5871B9	PLASTIC PLUG	4	35	8630B36	BUBBLE WRAP	26'

REV	NO.	DESCRIPTION	DATE	BY
B	4725	ADD PLASTIC PLUGS TO BILL AND UPDATE TOP VIEW	8-08	JF
A	2057	REMOVE 5979D1 AND 5982D3 / ADD ITEMS 38 AND 39	2/04	RRF

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PART NO. 9209LD

CEGAR RAPIDS, IOWA

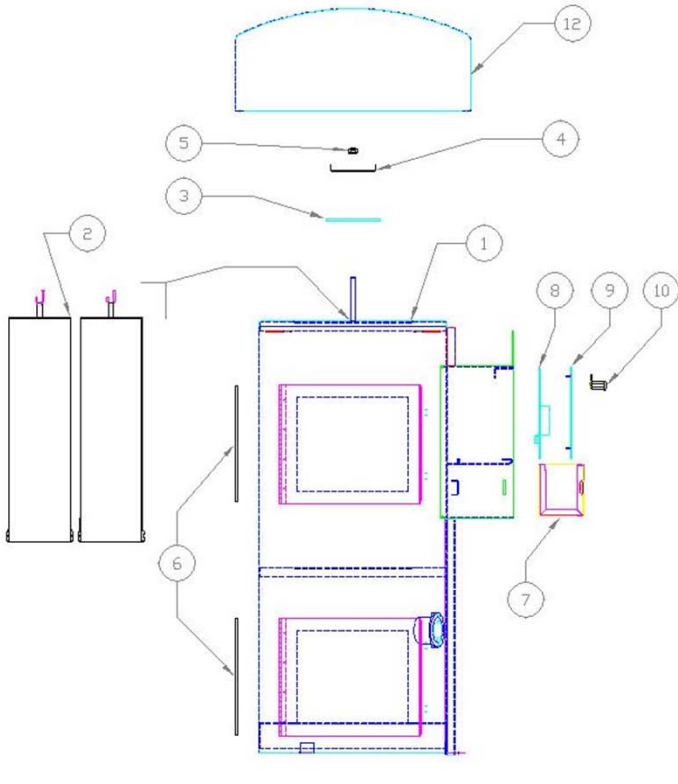
UNSPECIFIED TOLERANCES  
 FRACT. ±1/32  
 2 PL ±.020  
 3 PL ±.010  
 ANGLE ±1.0°

TITLE VACUUM ASSY., 2DR, VALI.-LIGHTED

DRWN BY	CK	DATE	9-02	SIZE	INCH	REL. FOR PROD.	-
PART NO. 9209LD						REV. LEVEL	B



PART NO. 9230



				BILL OF MATERIAL			
ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
36	8153-1	LATCH, CLEANOUT DOOR	4				
37	8157	NUT, #6-32 KEEP NUT SS	4				
38	8173	DECAL, 'DEPOSIT QUARTERS'	1	1	9231W	VAC CAN. W/C 2DR STD DOME	1
39	8182	DECAL, ENGLISH, WARNING	2	2	8076	FILTER BAG FOR 9200 VAC	4
40	8424-1	DECAL, SUPER VAC CANISTER	1	3	8057	S/MOTOR GASKET	2
41	8423-2	DECAL, VACUUM DOME	1	4	8051G	'H' BRACKET, 2-MOTOR	1
42	8429-4	DECAL, VAC \$ .75	1	5	5603D11	NUT, NYLON 1/2-13	1
43	8429-5	DECAL, VAC \$ 1.00	1	6	8159	DOOR GASKET	2
44	5871B9	PLASTIC PLUG	4	7	8954W	COIN BOX WELDMENT SCR	1

**PACKAGING**

1	5600D4	BOLT, CARR. 5/16-18UNC X 1.5	3	11	8615-5W	CLEANOUT DOOR WELDMENT	2
2	5606D3	WASHER, FLAT 3/8 SAE	3	12	8305	SS DOME 24" DIA DRILLED	1
3	B5722-002	NUT, 5/16-18UNC HEX LKNUT	3	13	2036	HOSE 2" X 15' BLACK VACU	1
4	8563	BAG, CLR PLASTIC CAN LINER	1	14	2056-BLACK	2" BLK CLAW NOZ. 'ADAMS'	1
5	8605	PALLET, VAC 23-1/2 X 29	1	15	2091	2" SWIVEL CUFF BLACK	1
6	8630	BOX, VAC 23-1/2 X 29-1/2	1	16	8732	NAMEPLATE, PRODUCT SPEC.	1
7	8630B36	BUBBLE WRAP - 250' ROLL	26	17	5048	#6 X 11/16 PHIL PAN HD	4
18	8764	DECAL-ENGLISH W/R DANGER	1				
19	5662D2	SCREW, #6-32 X 1/2 PH PAN	1				
20	8429-3	DECAL, VAC 50 CENTS	1				
21	8096	CRIMP CONNECTOR-NYLON	2				
22	5611D2	NUT,KEPP #10-24 ZINC PLT	1				
23	5704D1	CAP, VINYL	1				
24	8595	HHCS, 5/16 X 1-1/2 ZP	3				
25	8055	MOTOR, AMETEK 115V	2				
26	8081	CABLE TIE MOUNT8084	1				
27	8084	CABLE TIE NYLON 5-3/4	4				
28	8596	NUT, 5/16 - 18 HEX	3				
29	8108	#10X1/2 SELFTAP SCR HEX W	2				
30	8149	COIN ACPTN, IMONEX US QT	1				
31	8597	WASHER, 5/16 SAE FLT	3				
32	8598	WASHER, 5/16 LOCK WASHER	3				
33	5644D1	NUT, 5/16-18 CAGE ZP	1				
34	5664D2	NUT, #10 WING NUT	6				
35	8955	THREADED LOCK, MEDECO	1				

REV	NO.	DESCRIPTION	DATE	BY
B	4864	ADD PLASTIC PLUG, REVISE TOP VIEW OF CAN	10-08	JF
A	1419	ADD ITEM #42 P/N 8429-4 & ITEM #43 P/N 8429-5	20SE02	DAQ

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9230

**J.E. ADAMS INDUSTRIES, LTD.**

CEDAR RAPIDS, IOWA

UNSPECIFIED TOLERANCES:  
 FRACT. ±1/32  
 2 PL ±.020  
 3 PL ±.010  
 ANGLE ±1.0°

TITLE: 2DR VAC, STANDARD DOME CAM

DRAWN BY: JJF    DATE: 16 JL 02    SCALE: INCH    REL. FOR PROD.

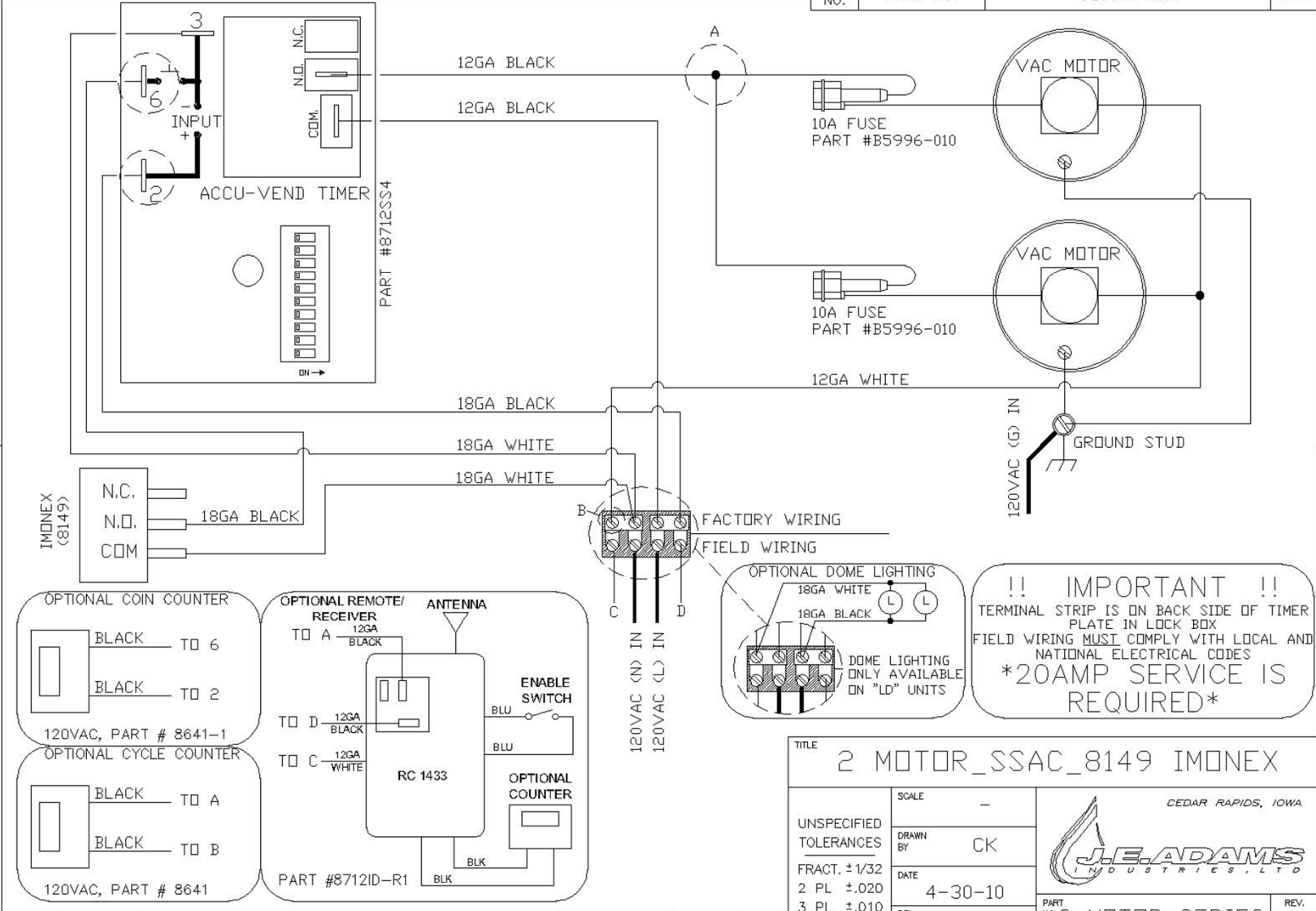
PART NO. 9230    REV. LEVEL B

PART NO. 2 MOTOR SERIES

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BILL OF MATERIAL

ITEM NO.	PART NO.	DESCRIPTION	QTY.
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TITLE 2 MOTOR_SSAC_8149 IMONEX		SCALE -		CEDAR RAPIDS, IOWA	
UNSPECIFIED TOLERANCES		DRAWN BY CK			
FRACT. ±1/32		DATE 4-30-10			
2 PL ±.020		REL. FOR PROD.		PART NO. 2 MOTOR SERIES	
3 PL ±.010				REV.	
ANGLE ±1.0°					

REV	NO.	DESCRIPTION	DATE	BY
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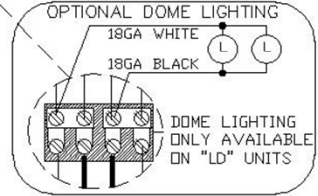
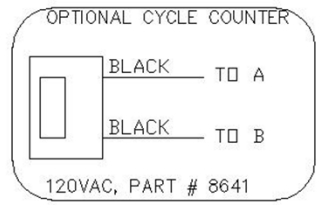
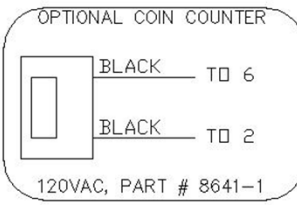
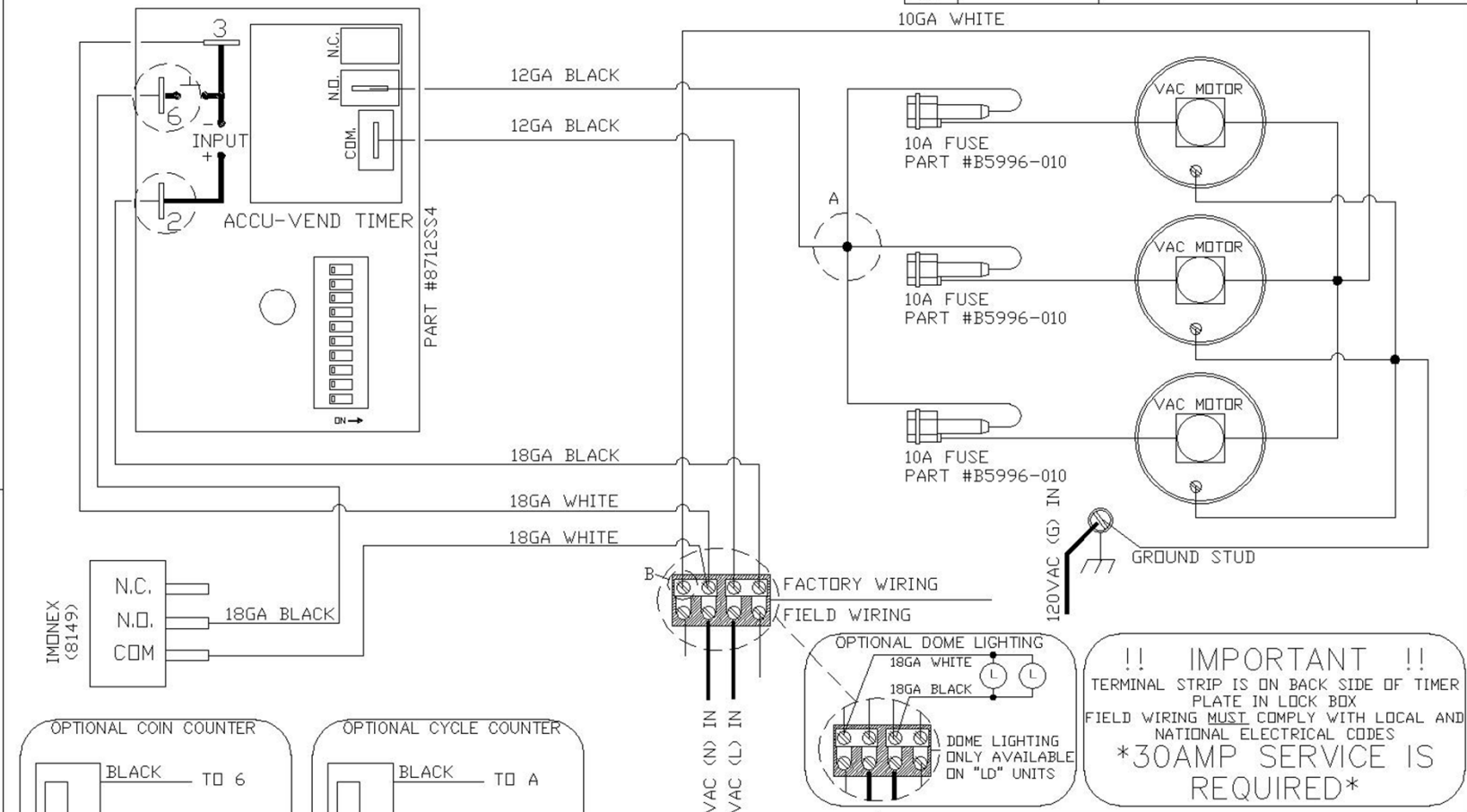


PART NO. 3 MOTOR SERIES

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BILL OF MATERIAL

ITEM NO.	PART NO.	DESCRIPTION	QTY.
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**!! IMPORTANT !!**

TERMINAL STRIP IS ON BACK SIDE OF TIMER PLATE IN LOCK BOX

FIELD WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES

**\*30AMP SERVICE IS REQUIRED\***

TITLE		3 MOTOR_SSAC_8149 IMONEX	
UNSPECIFIED TOLERANCES	SCALE	-	
FRACT. ± 1/32	DRAWN BY	CK	
2 PL ± .020	DATE	5-10-10	
3 PL ± .010	REL FOR PROC.		
ANGLE ± 1.0°			
		CEDAR RAPIDS, IOWA	
		PART NO.	3 MOTOR SERIES
		REV.	

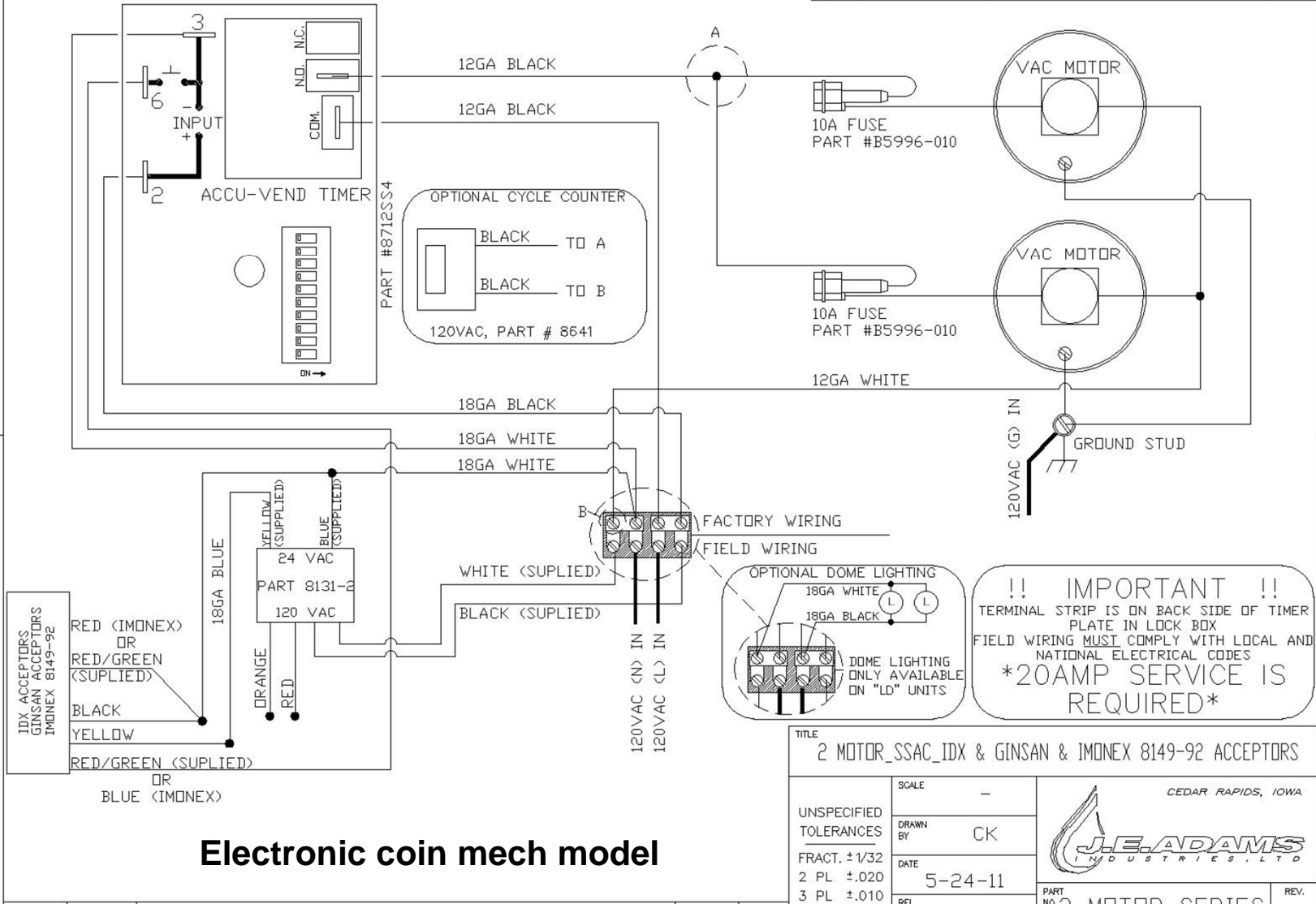
REV	NO.	DESCRIPTION	DATE	BY
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PART NO. 2 MOTOR SERIES

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BILL OF MATERIAL

ITEM NO.	PART NO.	DESCRIPTION	QTY.
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Electronic coin mech model

REV	NO.	DESCRIPTION	DATE	BY
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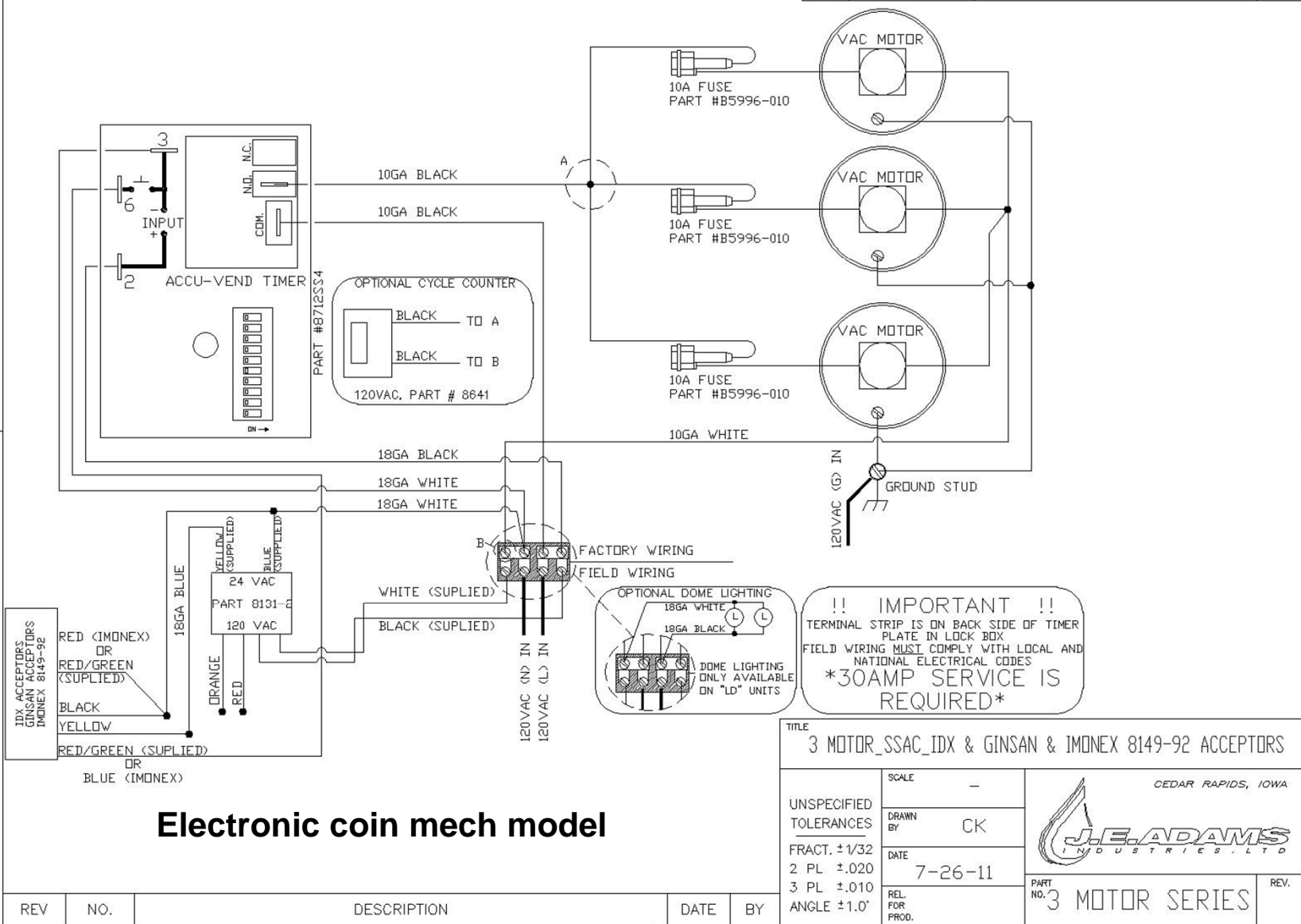
UNSPECIFIED TOLERANCES		SCALE	-	 <p>CEDAR RAPIDS, IOWA</p>
FRACT. ±1/32 2 PL ±.020 3 PL ±.010		DRAWN BY	CK	
ANGLE ±1.0°		DATE	5-24-11	<p>PART NO. 2 MOTOR SERIES</p>
		REL. FOR PROD.		

PART NO. 3 MOTOR SERIES

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BILL OF MATERIAL

ITEM NO.	PART NO.	DESCRIPTION	QTY.
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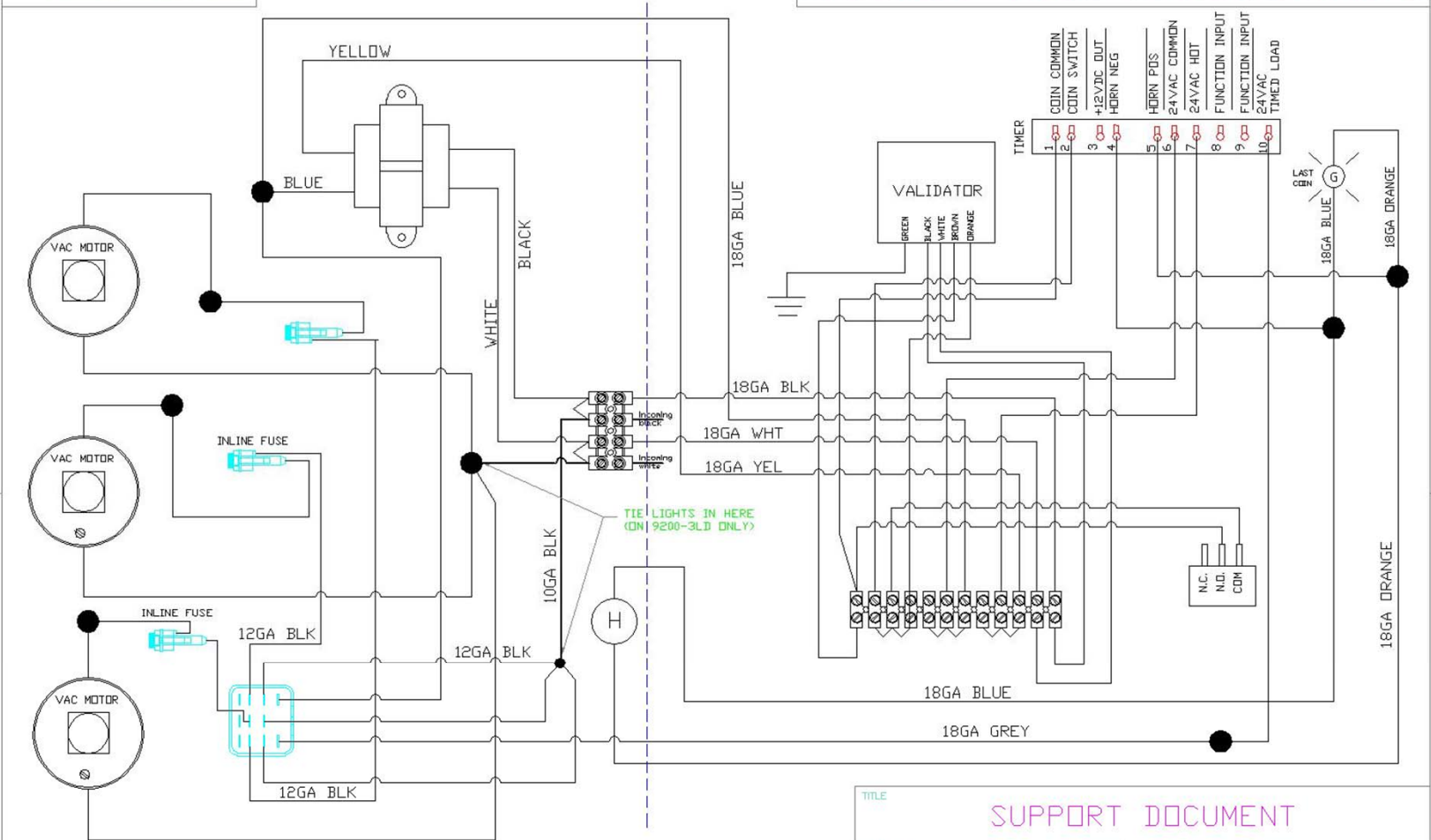
**Electronic coin mech model**

REV	NO.	DESCRIPTION	DATE	BY
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TITLE 3 MOTOR_SSAC_IDX & GINSAN & IMONEX 8149-92 ACCEPTORS		SCALE -		CEDAR RAPIDS, IOWA	
UNSPECIFIED TOLERANCES		DRAWN BY CK			
FRACT. ±1/32		DATE 7-26-11			
2 PL ±.020		REL FOR PROD.		PART NO. 3 MOTOR SERIES	
3 PL ±.010				REV.	
ANGLE ±1.0°					

PART NO. 9200-3WIRE

THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION THEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY J.E. ADAMS INDUSTRIES



● REPRESENTS WIRE NUT

## DIGITAL DISPLAY MODEL

TITLE		SUPPORT DOCUMENT	
MATERIAL		-	
UNSPECIFIED TOLERANCES	SCALE	-	
1 PL ±.030	DRAWN BY	-	
2 PL ±.010	DATE	3-02	
3 PL ±.003	REL. FOR PROD.	-	
ANGLE ±1.0°	PART NO. 9200-3WIRE		REV. A



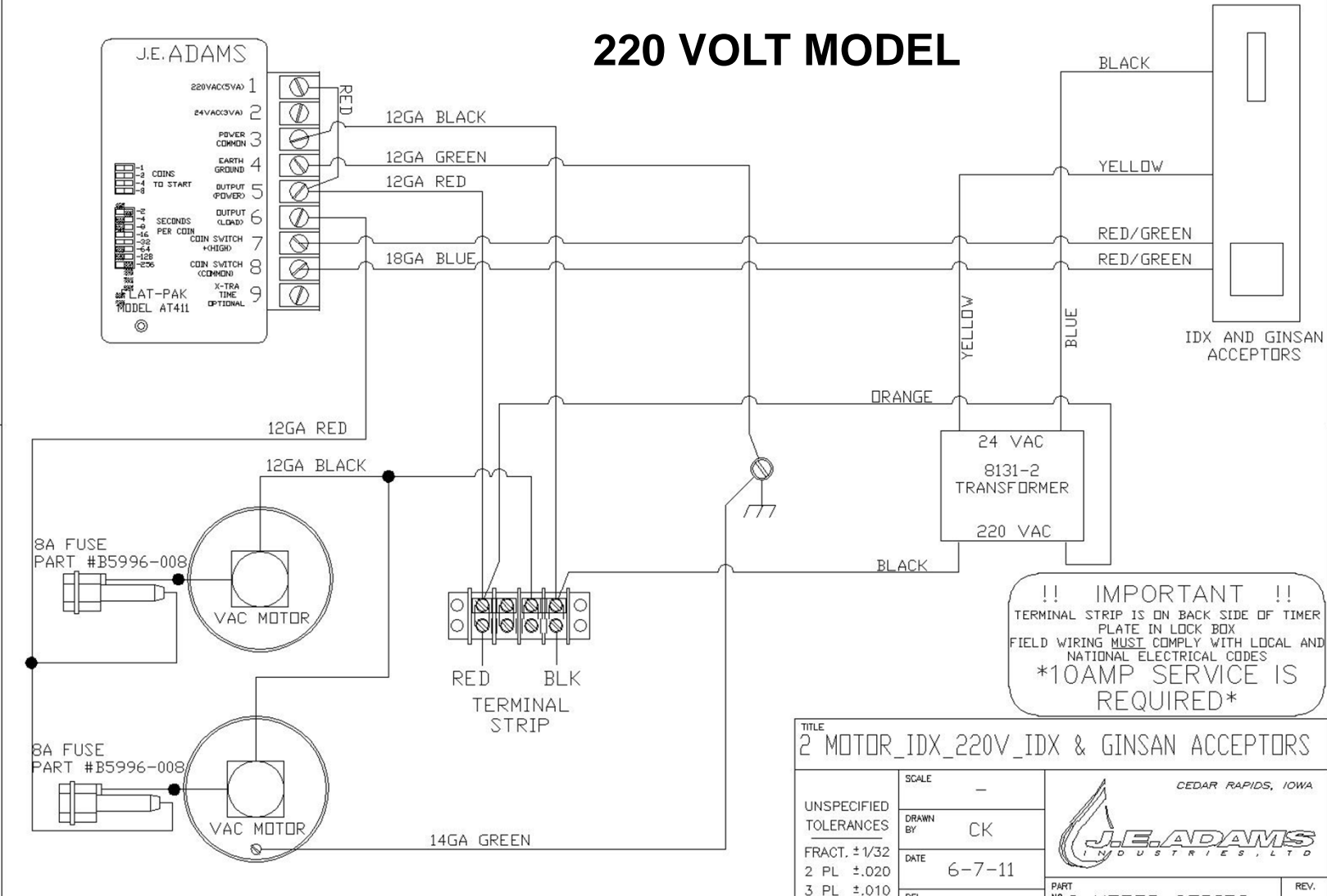
PART NO. 2 MOTOR SERIES

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BILL OF MATERIAL

ITEM NO.	PART NO.	DESCRIPTION	QTY.
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# 220 VOLT MODEL



**!! IMPORTANT !!**  
 TERMINAL STRIP IS ON BACK SIDE OF TIMER  
 PLATE IN LOCK BOX  
 FIELD WIRING MUST COMPLY WITH LOCAL AND  
 NATIONAL ELECTRICAL CODES  
**\*10AMP SERVICE IS  
 REQUIRED\***

TITLE 2 MOTOR_IDX_220V_IDX & GINSAN ACCEPTORS		SCALE -		CEDAR RAPIDS, IOWA	
UNSPECIFIED TOLERANCES		DRAWN BY CK			
FRACT. ±1/32		DATE 6-7-11			
2 PL ±.020		REL. FOR PROD.		PART NO. 2 MOTOR SERIES	
3 PL ±.010				REV. -	
ANGLE ±1.0°					

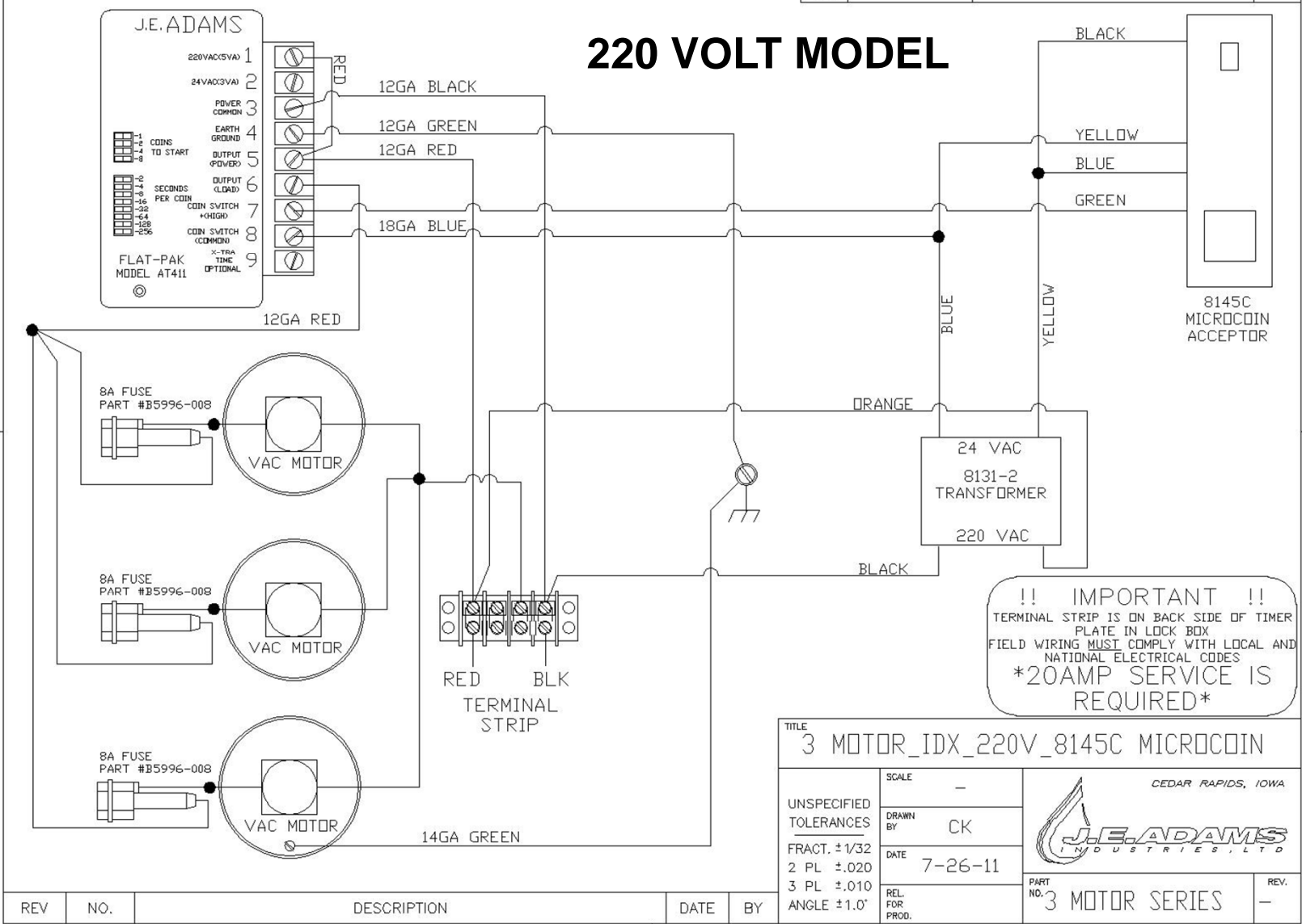
REV	NO.	DESCRIPTION	DATE	BY
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PART NO. 3 MOTOR SERIES


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BILL OF MATERIAL

ITEM NO.	PART NO.	DESCRIPTION	QTY.
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REV	NO.	DESCRIPTION	DATE	BY
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TITLE 3 MOTOR_IDX_220V_8145C MICROCOIN		SCALE -		CEDAR RAPIDS, IOWA	
UNSPECIFIED TOLERANCES		DRAWN BY CK			
FRACT. ±1/32		DATE 7-26-11			
2 PL ±.020		REL. FOR PROO.		PART NO. 3 MOTOR SERIES	
3 PL ±.010				REV. -	
ANGLE ±1.0°					