



Models- 29015 - 29018
29015UNI - 29018UNI
29015HAM - 29018HAM
29015-2M - 29018-2M
29015-18 Series W/Exacta

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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

Specifications

Unit specifications: (29015-29018, 29015UNI-29018UNI, 29015HAM-29018HAM)

Voltage: 120VAC, 60Hz

Amperage: (1) 30 amp service is required for this unit

Weight: 260 lbs with pallet attached

Vac specifications: (29015-29018, 29015UNI-29018UNI, 29015HAM-29018HAM)

Motors: (3) 120VAC Vacuum motor

Fuses: (3) 10 amp inline fuses

Shampoo specifications: (29015-29018, 29015UNI-29018UNI, 29015HAM-29018HAM)

Compressor: (1) Thomas 120VAC, 1/12th hp compressor

Peristaltic pump: (3) Thomas peristaltic pumps, 12VDC

Unit specifications: (29015-2M thru 29018-2M)

Voltage: 120v, 60Hz

Amperage: (1) 20 amp service is required for this unit

Weight: 260 lbs with pallet attached

Vac specifications: (29015-2M thru 29018-2M)

Motors: (2) 120VAC Vacuum motor

Fuses: (2) 10 amp inline fuses

Shampoo specifications: (29015-2M thru 29018-2M)

Compressor: (1) Thomas 120v, 1/12th hp compressor

Peristaltic pump: (3) Thomas peristaltic pumps, 12VDC

Duty cycle time 4 minutes on, 4 minutes off.

NOTE: "UNIT INTENDED FOR COMMECIAL 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:

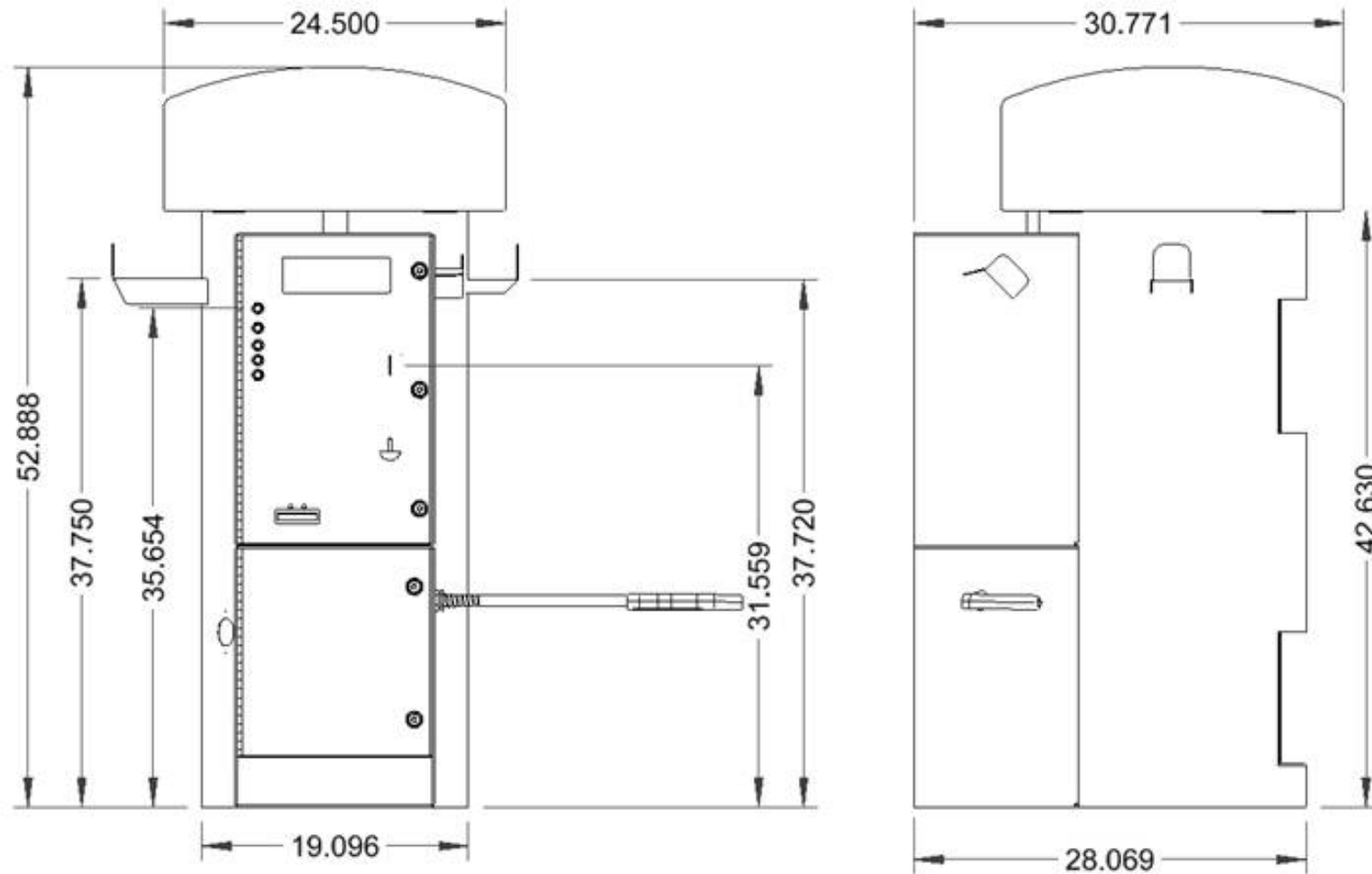


- Do not use on wet surfaces.
- Use only as described in manual. Use only manufactures recommended attachments.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, 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.”

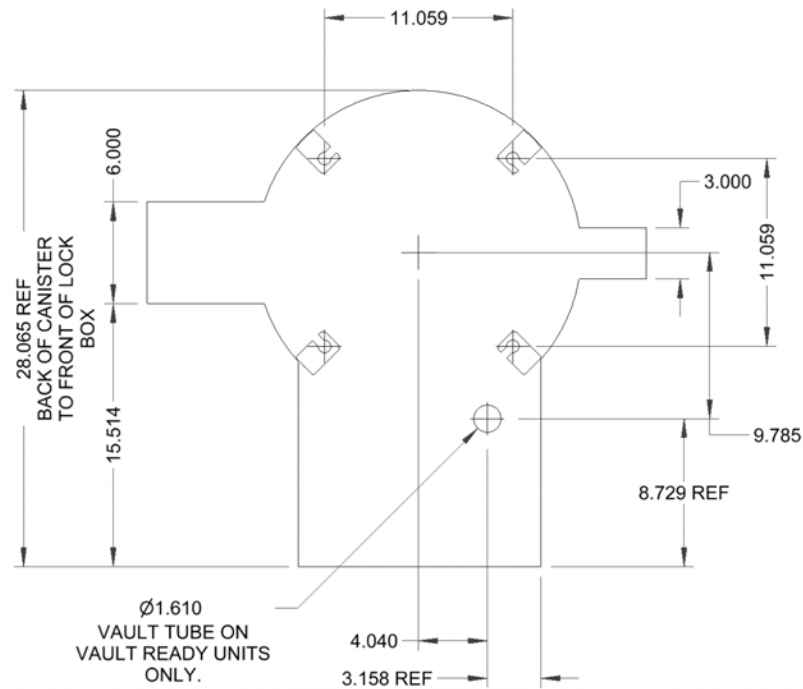
SAVE THESE INSTRUCTIONS

- **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 30 amp service to that location (*NOTE UNIT HAS WIRE PROVIDED UNDERNEATH TO CONNECT INCOMING POWER SUPPLY*)
- **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



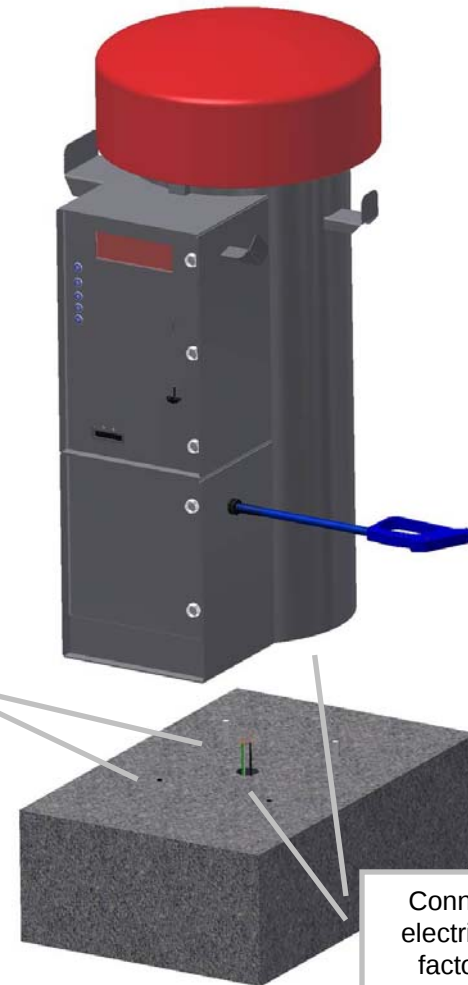
PLAN VIEW



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

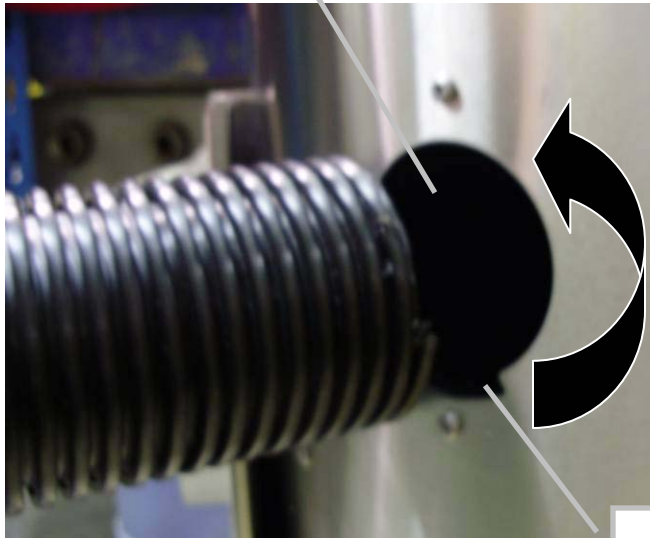
Once unit has been installed use 5871B8 cap plugs (supplied with unit) to seal holes in canister bottom located in lower cleanout door (see illustration on next page). Extra cap plugs are included with the unit in case plug becomes damaged during shipping removal. After cap plugs are installed unit can be turned on, place fragrance bottles into bottom door, and attach lids to appropriate bottles.

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

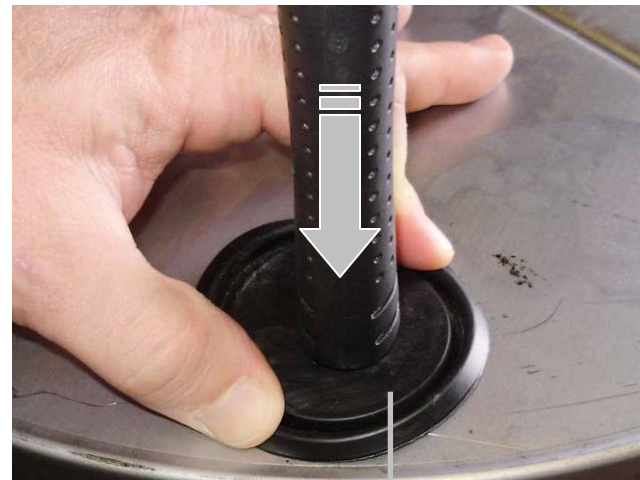


Connect electric to factory wires under vacuum can.

To attach hose,
thread into metal hole
counter clockwise.



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 Z32 electronic acceptor (8149-92 our part number) is pre-programmed to accept US quarters, .984 tokens, US \$1 coin and 1.073 token. Acceptor is pre-programmed before it is sent to J.E. Adams.

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

Bill acceptor:

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:

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

Display programming with remote:

- 1) Press the red power button.
- 2) Timer will display 0000. At this time type in 4 digit access code. Note code will be 1234 until changed by customer.
- 3) Once code has been entered display should read ok. If display does not read ok, repeat step 1 and 2.
- 4) Press **CH +** button. Timer will display coin value. This should \$.25 and should not be changed.
- 5) Press the **CH +** button. Display will now read (**A: 30**) or may be a different time. (**A**) Will be the time per coin for the **VAC**. Set desired time per coin by using the **VOL -** to decrease or the **VOL +** to increase. Once time is entered move to next step.
- 6) Press the **CH +** button. Display will now read (**B: 30**) or may be different time. (**B**) Will be the time per coin for **TURBO**. Set desired time per coin by using the **VOL -** to decrease or the **VOL +** to increase. Once time is entered move to next step.
- 7) Press the **CH +** button. Display will now read (**C: 30**) or may be different time. (**C**) Will be the time per coin for **SCENT**. Set desired time per coin by using the **VOL -** to decrease or the **VOL +** to increase. Once time is entered move to next step.
- 8) Press the **CH +** button. Display will now read **D**. **D** is not used.
- 9) Press the **CH +** button. Display will now read **E**. **E** is not used.
- 10) Press the **CH +** button. Display will now read **F**. **F** is not used.
- 11) Press the **CH +** button. Display will now read (on A). This is the number of coins to start **VAC**. Use the **VOL -** and **VOL +** to adjust. Once this is done press the **CH+** button and repeat for (B) **TURBO** and (C) **SCENT**.
- 12) Press the **CH +** button. Display will read bonus time. Set if desired. See explanation at the end programming instructions.
- 13) Press the **CH +** button. Display will debit mode. Set if desired. See explanation at the end programming instructions.
- 14) Press the **CH +** button. Display will delayed start. Set if desired. See explanation at the end programming instructions.
- 15) Press the **CH +** button. Display will read **HLxx**. Set if desired. See explanation at the end programming instructions.
- 16) Press the **CH +** button. Display will read Restart off or restart on depending on what is set. Restart off will require a person to put in full amount after unit is turned off to reactivate. Restart on allows for additional coins to be put in the machine to keep unit running. To set use **VOL -** or **VOL +** to change.

- 17) Press the **CH +** button. Display will now read **STD** or **USER** or **MIX**. To make a custom message use **VOL +** button to scroll to **USER**. At this point press and hold **CH +** button until original message appears. At this time you may change the message simply by using the **VOL -** or **VOL +** buttons to change letters. **Once message has been entered you must put the symbol / at the end of message.** This will tell display that this is the end of the message.
- 18) Press the **CH +** button now 5 more times to exit programming.
- 19) Unit should now be programmed.

Program definitions:

Bonus time settings:

- Amount of time set in bonus time is added to regular time per coin/pulse(e.g. if you want to give 45 seconds for bonus time and your regular time per coin is 30 seconds, you would set bonus time at 00:15)
- Bonus is disabled by setting bonus time to 00:00.
- If bonus time is set to less than one minute, bonus time is added when bonus coin is reached and every coin after that until time expires.
- If bonus time is set at 1:00 or more, bonus will be a “one time” bonus. Bonus time will only be added for bonus coin or multiplies of bonus coin (e.g. 16th coin, 32nd coin, etc). Any other coin will on receive regular time per coin.
- If bonus time is set to 99:00, when bonus coin is deposited, timer will show “-on-” and timer will continue to run until coin switch wire is shorted to ground by a loop detector or other switch closure for a minimum of two seconds.

Debit and credit mode:

- Debit mode: As coins are deposited display shows “\$1.75 MORE, \$1.50 MORE, \$1.25 MORE” etc. until start price is reaches. 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, 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.

Display programming with push button:

- Unit can be programmed using buttons that are located inside display. One is labeled **S2**, which is used to change from item to item. One is labeled **S1** which is used to set desired value. If you hold down **S1** this will cause numbers to decrease. If you repeatedly push **S1** numbers will increase.
- When programming with buttons use same instructions as remote except for the following. Where it says to press **CH +** use **S2** and where it says to use **VOL +** or **-** use **S1**.

Operating Instructions:

- Select desired function.
- Insert coins or bills to start desired function.
- If fragrance is selected, it is recommended that you vacuum before applying formula.
- If other function is selected other than original selected item unit will recalculate timer based on the amount of money it takes to start the specific function.
- Once service is used, hang up hose.

Operating Instructions 29015UNI-29018UNI or 29015HAM-29018HAM:

- Select desired function.
- Insert coins or bills or swipe credit card to start desired function. When credit card is selected swipe card and wait for activation.
- If fragrance is selected, it is recommended that you vacuum before applying formula.
- If other function is selected other than original selected item unit will recalculate timer based on the amount of money it takes to start the specific function.
- Once service is used, hang up hose.
- **NOTE: Unitec and Hamilton units are to be installed by qualified Unitec or Hamilton personnel. Failure to do so may result in improper installation and damage to electronics.**

Changing fluids:

Disconnect power. Unscrew cap from empty bottle. Remove empty bottle. Insert new bottle into unit. Insert line into bottle and screw cap onto bottle. Reconnect power.

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 vac hose for cracks on a weekly basis.
- Check fragrance formula bottles to assure that they are full.
- Check all fragrance and gun assembly for any signs of wear.
- Clean canister with a stainless steel cleaner as needed. Decals can be cleaned with mild soap and water.
- Check motor brushes approx. every 3 months for excessive wear. Motor brushes should be changed if they are shorter than ¼". ***Please disconnect power before doing this.***



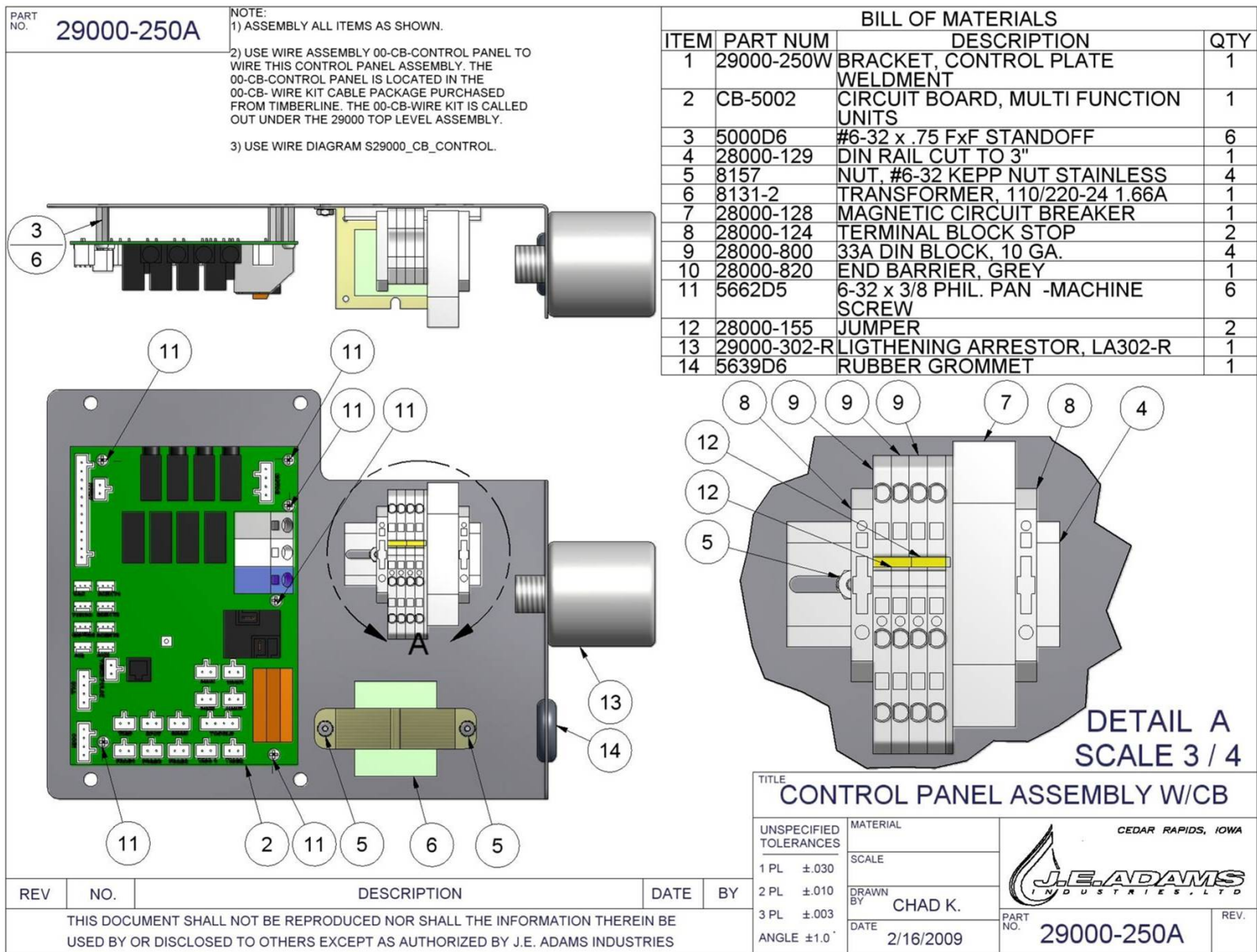
DISCONNECT POWER BEFORE SERVICING OR TROUBLESHOOTING!



Troubleshooting:

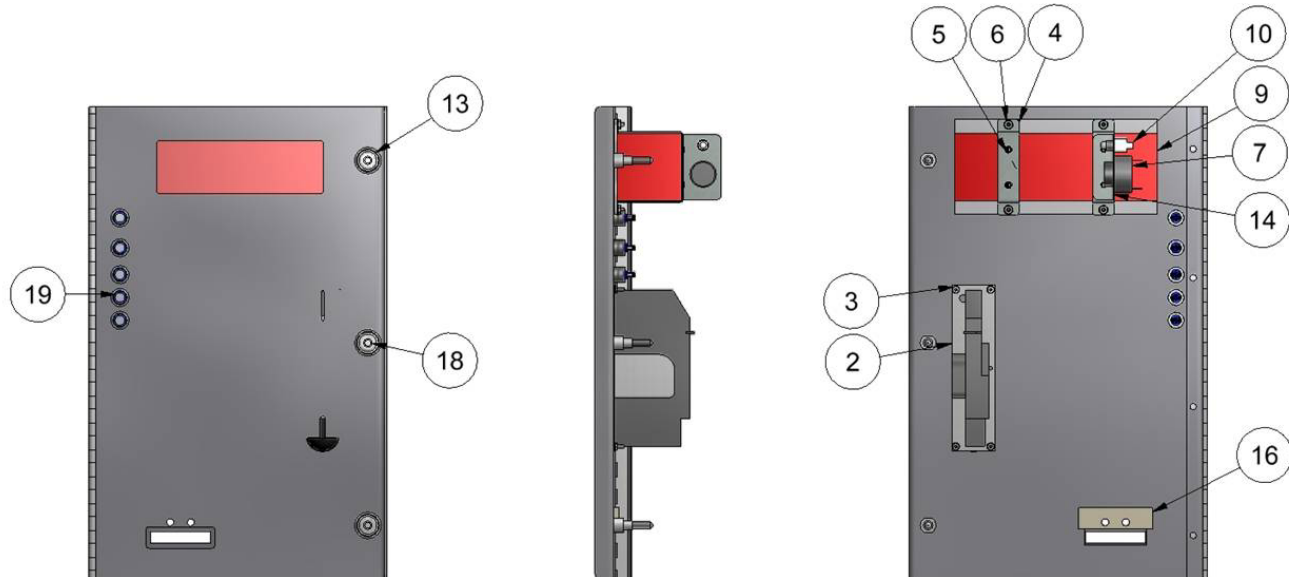
Problem	Possible cause	Solution
Unit is not powered.	Breaker inside unit is not in the on position.	Flip breaker on.
	No power to machine.	Check incoming power.
	Loose connection.	Check incoming power connection.
Display is not powering.	Breaker inside unit is not in the on position.	Flip breaker on.
	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.
Fluid will not draw through lines.	Is the pump coming on and turning?	Visually inspect pump, replace if necessary.
	Are line connections tight?	Fluids can dry out lines, clip ends and reattach, cable ties must be used for air-tight connection.
	Are lines clogged?	Try using a bottle of hot water to draw through lines.



PART NO. 29015-7CBA					BILL OF MATERIALS			
NOTE: 1) ASSEMBLY ALL ITEMS AS SHOWN. 2) USE WIRE ASSEMBLY 00-CB-DOOR TO WIRE THIS DOOR ASSEMBLY. THE 00-CB-DOOR IS LOCATED IN THE 00-CB- WIRE KIT CABLE PACKAGE PURCHASED FROM TIMBERLINE. THE 00-CB-WIRE KIT IS CALLED OUT UNDER THE 29015 TOP LEVEL ASSEMBLY. 3) USE WIRE DIAGRAM S29015_CB_DOOR. 4) DO NOT OVER TIGHTEN PUSH BUTTONS ONTO DOOR. MAKE SURE THEY ARE SNUG AND ORINGS ARE NOT PROTRUDING FROM SIDE OF PUSH BUTTON. IF SO THEY ARE TO TIGHT. 5) APPLY A GENEROUS AMOUNT OF HOT GLUE TO THE BACK OF THE NUT AND SWITCH. THIS WILL KEEP THE NUT FROM LOSENING UP. 6) WIRE ASSEMBLY 00-CB-D-06 FOR DISPLAY COMES WIRED TO PLUG DIRECTLY INTO CIRCUIT BOARD. WIRES MUST BE RAN THRU THE HOLE THAT IS DRILLED IN THE BOTTOM OF THE DISPLAY AND WIRED ACCORDING TO CONNECTOR THAT IS SUPPLIED WITH THE DISPLAY. THE YELLOW WIRE WHICH SHOULD BE LABELED D12 MUST GO INTO THE CONNECTOR LABELED 12 AND ALL OTHER WIRES WIRED IN DECENDING ORDER. FAILURE TO WIRE DISPLAY PROPERLY MAY RESULT IN MALFUNCTION OF DISPLAY OR POSSIBLE DAMEG TO THE CIRCUIT BOARD, IF IN DOUBT ASK QUESTIONS.					ITEM	PART NUMBER	DESCRIPTION	QTY
					1	29015-7CBW	CONTROL DOOR WELDMENT- SCENT	1
					2	8149-92	IMONEX COIN ACCEPTOR - ELECTRIC	1
					3	8157	NUT, #6-32 KEPP NUT STAINLESS	4
					4	29000-24	DISPLAY BRACKET	2
					5	5629D2	#8 x 1/2 SELF TAPPING SCREW	4
					6	5611D2	NUT, 10-24 UNC KEPP- ZINC	4
					7	8000-11	ALARM, LAST COIN ALERT	1
					8	29000-34	LEXAN WINDOW	1
					9	8000-15	BIG DIXMOR DISPLAY	1
					10	8726	PUSH BUTTON	1
					13	8659-24	LOCK COLLAR -SS	3
					14	29000-25	HORN BRACKET	1
					16	29000-199	GASKET, VALIDATOR MOUNT	1
					18	8958-2	MEDECO SCREW LOCK	3
					19	00-CB-D-05	BLUE PUSH BUTTON	5
								
					TITLE SCENT VAC DOOR ASSEMBLY, W/CB			
					UNSPECIFIED TOLERANCES	MATERIAL	CEDAR RAPIDS, IOWA	
					1 PL ±.030	SCALE		
					2 PL ±.010	DRAWN BY CHAD K.		
					3 PL ±.003	DATE 4/2/2009		
					ANGLE ±1.0°		PART NO. 29015-7CBA	REV.
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			

PART NO. 29015-7CBA

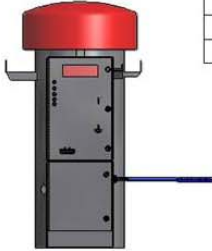


TITLE			
SCENT VAC DOOR ASSEMBLY, W/CB			
UNSPECIFIED TOLERANCES		MATERIAL	
1 PL ±.030		SCALE	
2 PL ±.010		DRAWN BY CHAD K.	
3 PL ±.003		DATE 4/2/2009	
ANGLE ±1.0°		PART NO. 29015-7CBA	
		REV.	

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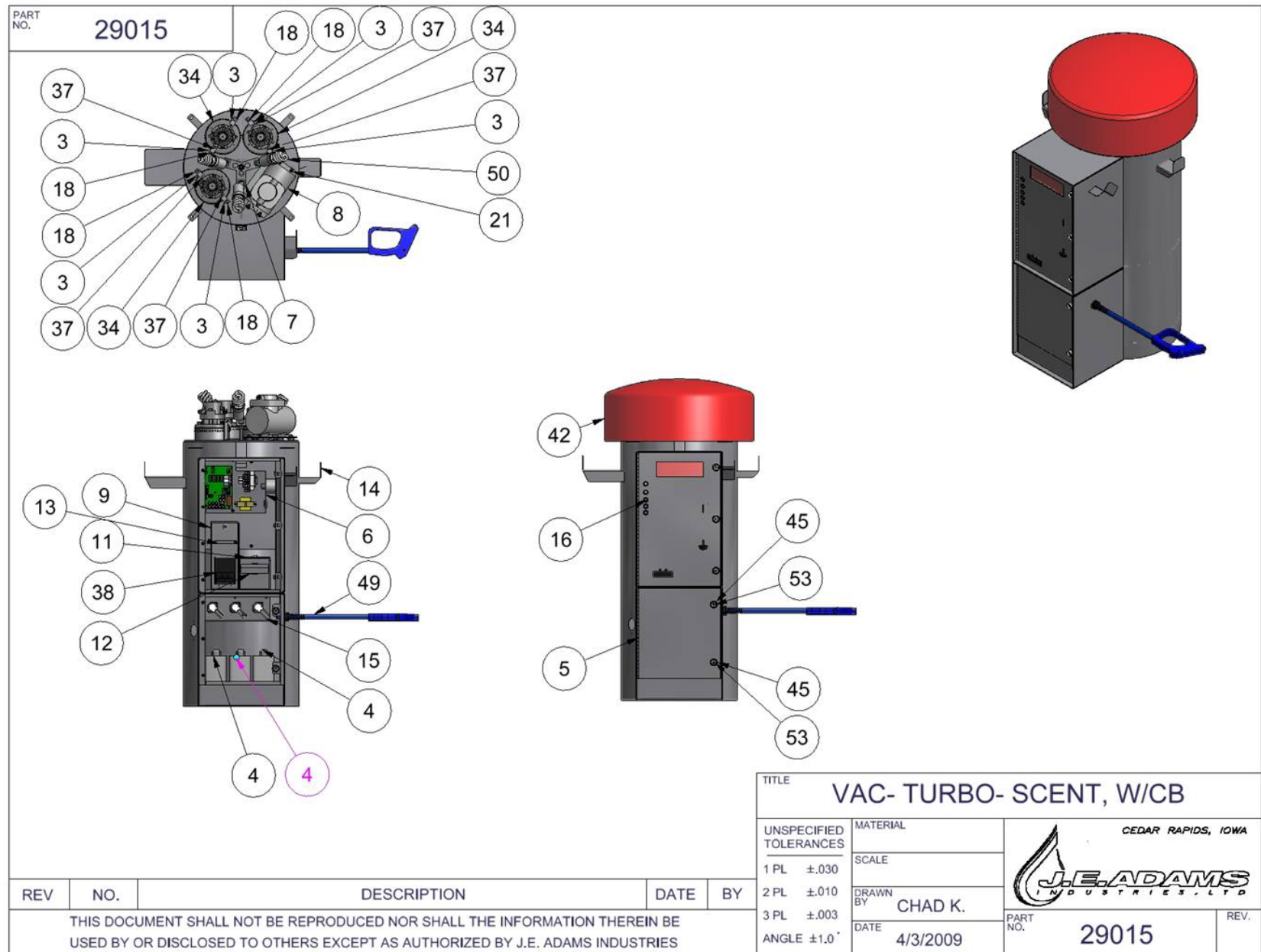


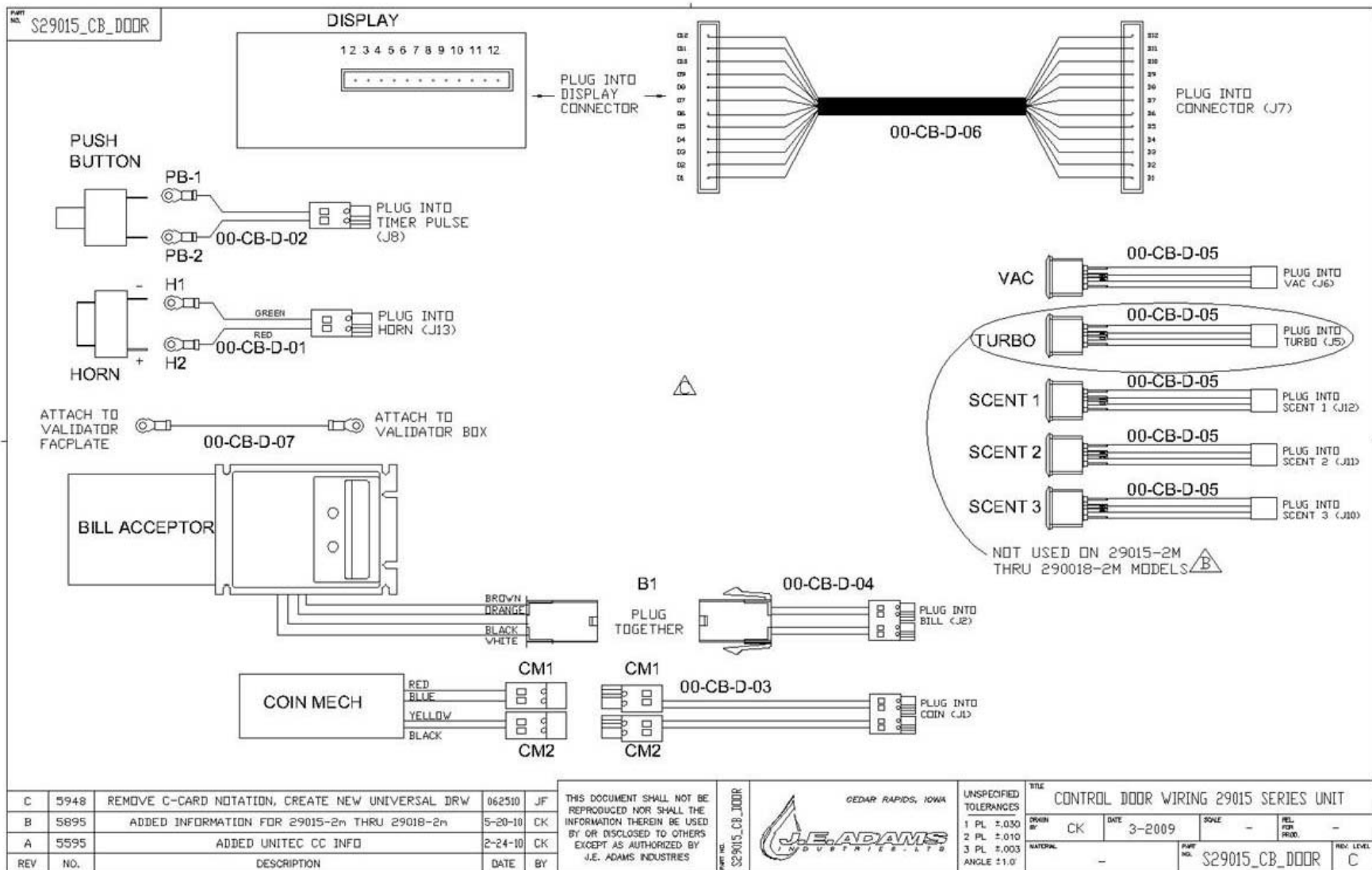
PART NO.		29015					
BILL OF MATERIALS				BILL OF MATERIALS			
ITEM	PART NUM	DESCRIPTION	QTY	ITEM	PART NUM	DESCRIPTION	QTY
31	5647D8	RIVET 3/16	14	1	2036	2" X 15' VAC HOSE	1
32	5871B8	CAP PLUG	8	2	2058	CLAW AND CUFF ASSEMBLY	1
33	6082	9 X 12 BAG	1	3	28000-36	MOTOR MOUNT	6
34	8055	MOTOR, AMETEK 115V	3	4	28000-40	PLASTIC CONTAINER	3
35	8057	MOTOR GASKET	3	5	29000-14W	BOTTOM DOOR WELDMENT	1
36	8076	FLITER BAG	4	6	29000-250A	CONTROL PANEL ASSEMBLY W/CB	1
37	8108	#10 x 1/2 TAP SCREW	6	7	29000-30A	LIGHT BRACKET ASSEMBLY	1
38	8130-6	MARS 110V BILL VALIDATOR	1	8	29000-37A	COMPRESSOR ASSEMBLY	1
39	8153-1	LATCH	4	9	29000-44W	VALIDATOR BOX WELDMENT	1
40	8159	DOOR GASKET	2	10	29000-45W	VALIDATOR FACEPLATE WELDMENT	1
41	8182	DISCONNECT POWER DECAL	4	11	29000-47W	COIN BOX ENCLOSURE WELDMENT	1
42	8306	24" PLASTIC DOME	1	12	29000-52W	COIN BOX WELDMENT	1
43	8615-5W	CLEANOUT DOOR	2	13	29000-59	VALIDATOR FACEPLATE HANDLE	1
44	8630	CARDBOARD BOX	1	14	29015-1W	CANISTER WELD COMPLETE	1
45	8659-24	LOCK COLLAR -SS	2	15	29015-29A-2	THOMAS PUMP ASSEMBLY	1
46	8857	WILD CHERRY SCENT	1	16	29015-7CBA	SCENT VAC DOOR ASSEMBLY, W/CB	1
47	8859	NEW CAR SCENT	1	17	29015-KIT-1	COMPLETE DECAL SET, BLACK	1
48	8865	VANILLA SCENT	1	18	5601D1	1/4-20 x 1/2 HHCS-ZINC PLATED	6
49	8898-1	FRAGERANCE GUN ASSY. .750 OD HOSE	1	19	5601D4	1/4-20 x 3/4 HHCS-SS	4
50	8925	FLOURESCENT BULB	3	20	5603D11	1/2 Std NC Nylock Nut	2
51	8939	PALLET	1	21	5603D2	1/4 Std NC Nylock Nut	4
52	8958-1	MEDECO SCREW LOCK	2	22	5603D5	1/4 Std NC Nylock Nut	8
53	8958-2	MEDECO SCREW LOCK	2	23	5603D9	10 Std NF Nylock Nut	2
54	B5996-010	10AMP FUSE	3	24	5606D10	WASHER, FLAT 1/2 SAE	2
55	B5997-001	FUSE HOLDER	3	25	5611D4	NUT, 5/16-18 UNC KEPP- SS	3
56	00-CB-WIRE KIT	COMPLETE WIRE HARNESS KIT	1	26	5636D1	#10-24 PHIL. PAN HEAD SCREW	2
				27	5639D4	RUBBER GROMMET	2
				28	5639D9	ISOLATION MNT, 30 DUR NEOPRENE, 1/4-20	4
				29	5644D1	CAGE NUT	5
				30	5647D2	RIVET 1/8'	16

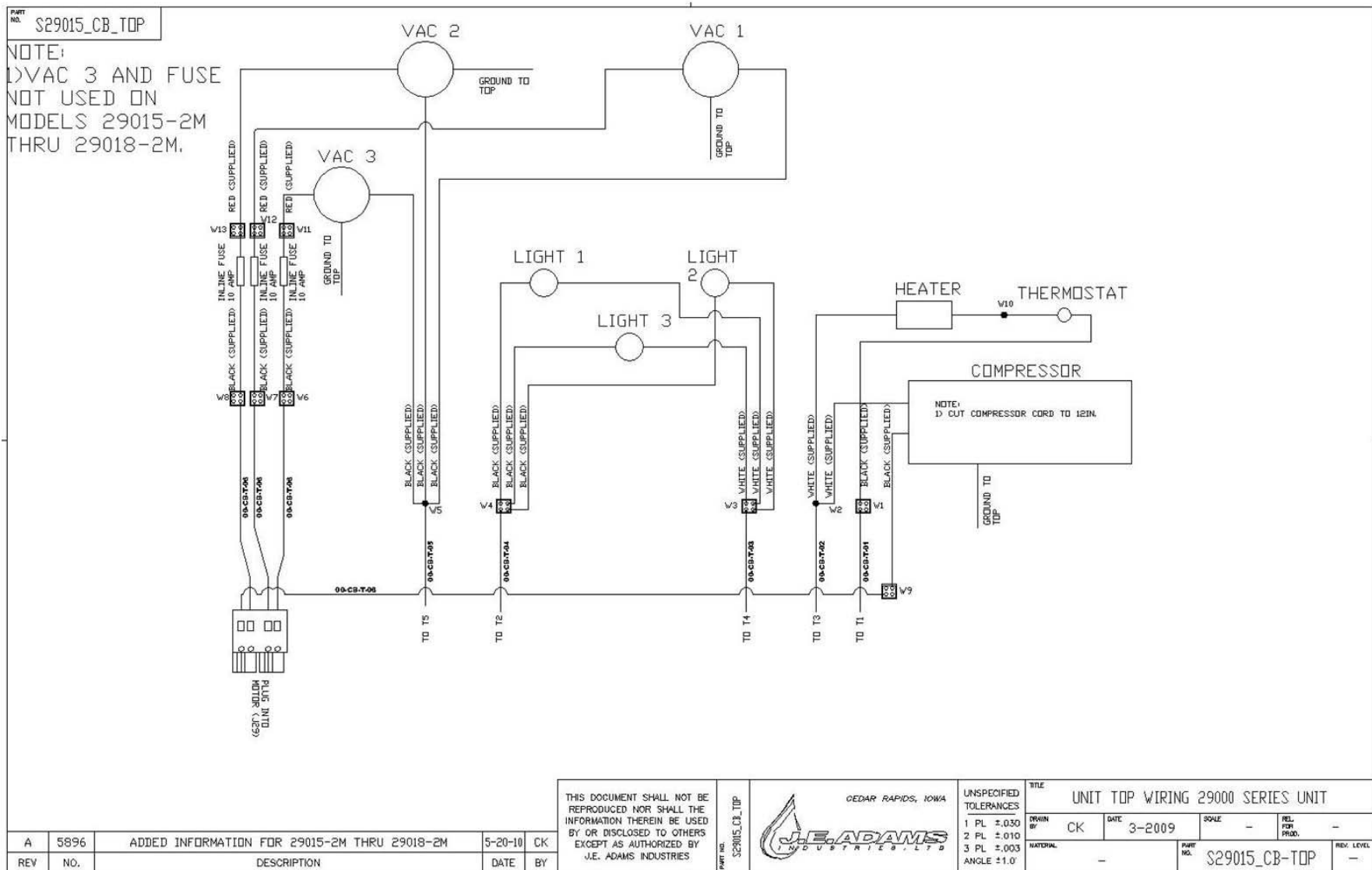


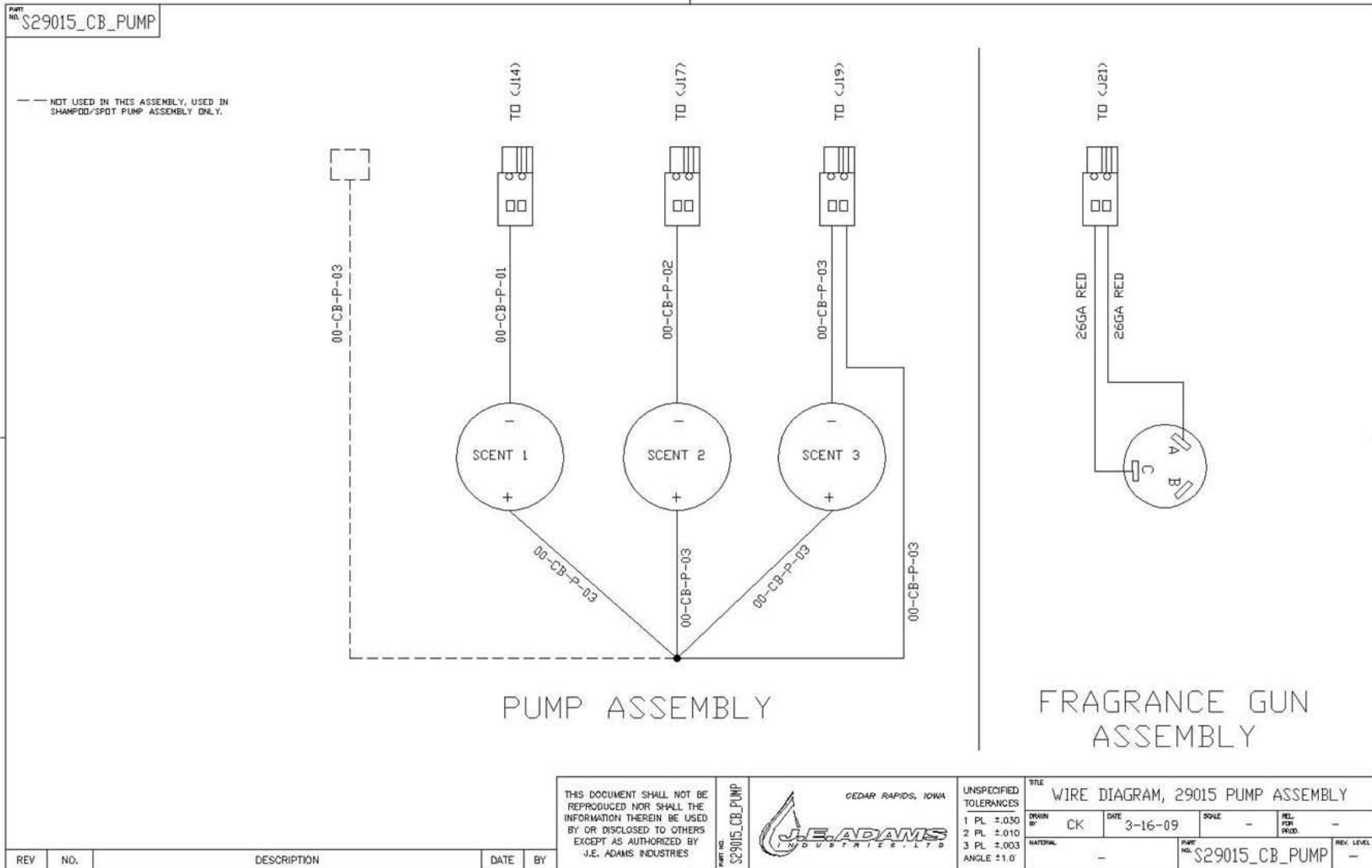
TITLE				VAC- TURBO- SCENT, W/CB	
UNSPECIFIED TOLERANCES		MATERIAL		CEDAR RAPIDS, IOWA	
1 PL ±.030		SCALE			
2 PL ±.010		DRAWN BY CHAD K.			
3 PL ±.003		DATE 4/3/2009			
ANGLE ±1.0°				PART NO.	29015
				REV.	

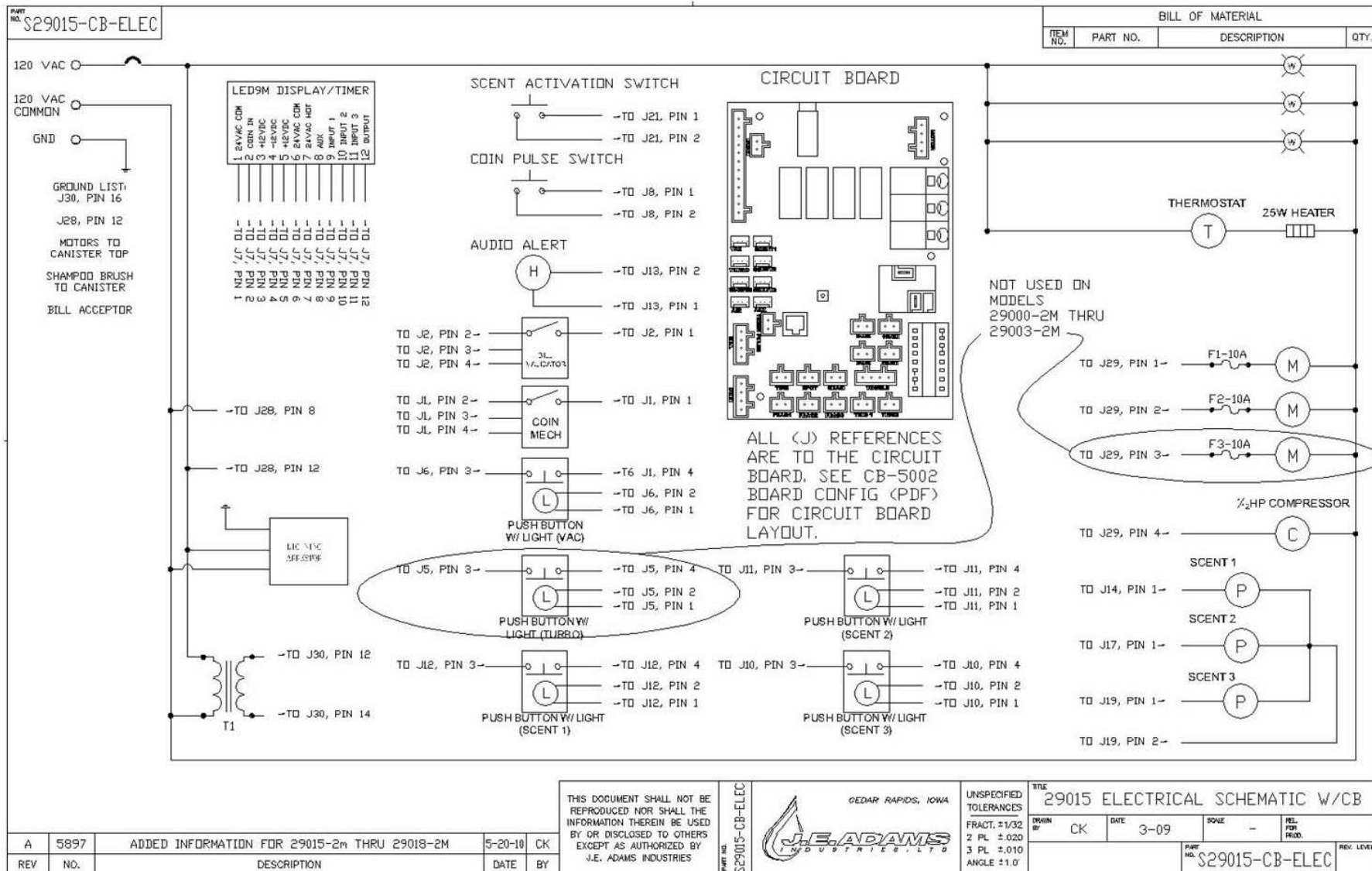
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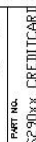
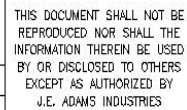








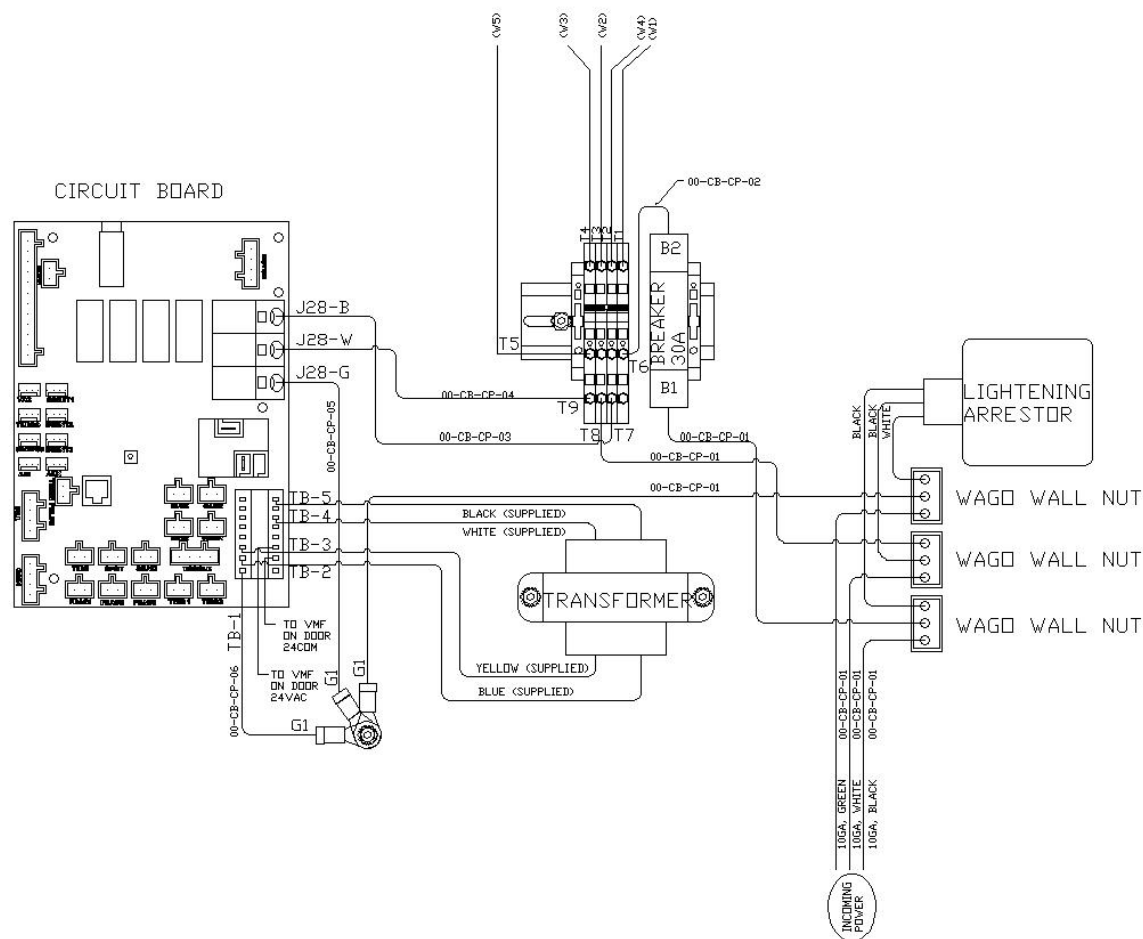




CEDAR RAPIDS, IOWA

UNSPECIFIED TOLERANCES	
1 PL	$\pm .030$
2 PL	$\pm .010$
3 PL	$\pm .003$
ANGLE	$\pm 1.0^\circ$

TITLE				
CREDIT CARD CONFIGURATIONS 29000 SERIES UNIT				
ORIGIN	DATE	SCALE	REL. FOR PROD.	
JF	062510	-	-	
MATERIAL		PART NO.	REV. LEVEL	
-		S290xx_CREDITCARD		



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J.E. ADAMS INDUSTRIES



UNSPECIFIED
TOLERANCES

1 PL	± 0.30
2 PL	± 0.10
3 PL	± 0.03
ANGLE	$\pm 1.0^\circ$

TITLE			
CONTROL PANEL WIRING 29015 SERIES UNITS-EXACTA			
DRAWN BY	DATE	SCALE	REL. FOR PROD.
CK	1-12-11	-	-
MATERIAL	PART NO.	REV. LEVEL	
-	S29015 CB CONTROL EXACTA	-	

REV	NO.	DESCRIPTION	DATE	BY
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