www.jeadams.com

J.E. ADAMS INDUSTRIES, LTD

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J.E. ADAMS INDUSTRIES
OWNERS MANUAL

MODEL 29025-29028 & 29025UNI-29028UNI

- o PAGE 2 — PRODUCT INFORMATION
- o PAGE 3 — PRODUCT SPECIFICATIONS
- o PAGE 3 — IMPORTANT SAFETY INSTRUCTIONS
- o PAGE 4-5 — INSTALLATION
- o PAGE 5-7 — PROGRAMMING
- o PAGE 8 — OPERATING
- o PAGE 8 — MAINTENANCE
- o PAGE 9 — TROUBLESHOOTING
- o PAGE 10-12 — PARTS LIST
- o PAGE 13-16 — WIRE DIAGRAMS

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:
Voltage: 120VAC, 60Hz
Amperage: (1)30 amp service is required for this unit
Weight: 260 lbs with pallet attached

Vac specifications:
Motors: (3) Ametek 120VAC motors
Fuses: (3) 10 amp inline fuses
NOTE: "UNIT INTENDED FOR COMMECIAL USE ONLY"
Installation of 29000UNI, 29001UNI, 29002UNI and 29003UNI units are to be installed only be a qualified Unitec represented distributor or installer. Failure to do so may result in improper installation and may not be configured properly.

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.
- Mount unit to location and use fig. 1 for mount pattern
- If unit is vault ready configuration see fig. 1 for mounting and fig. 2 for vault tube location.

FIG. 1

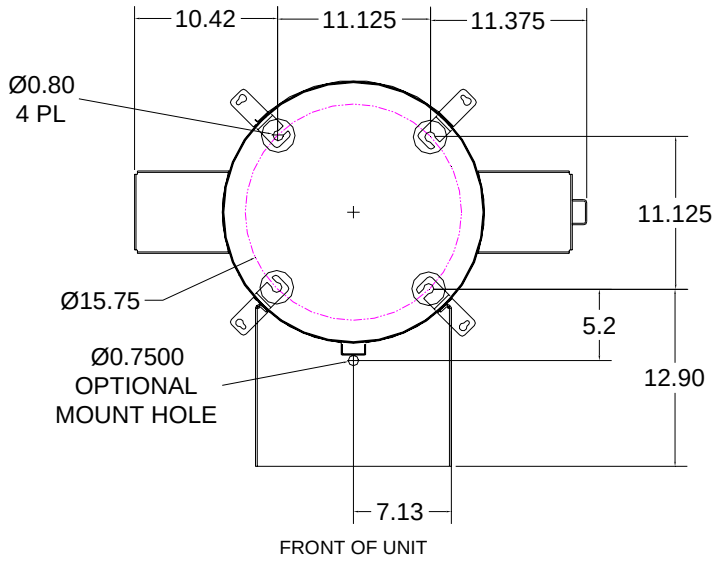
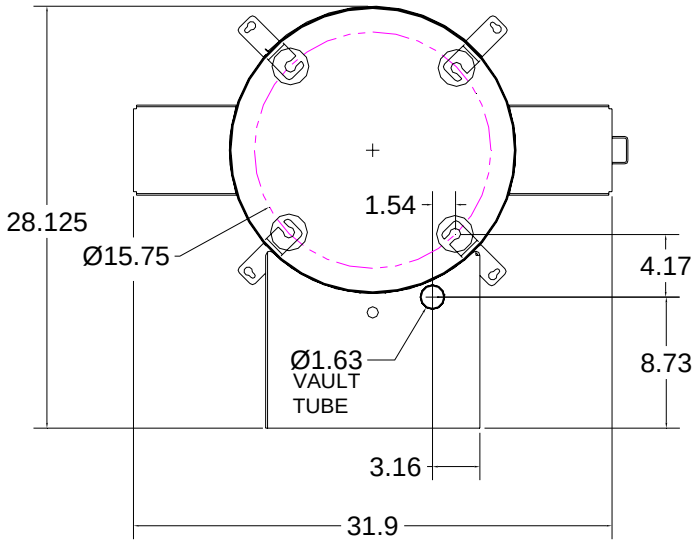


FIG. 2 (VAULT TUBE LOCATION)
TOP VIEW



- Once unit has been installed use 5871B8 cap plugs supplied with unit to seal holes in canister bottom located in lower cleanout door. Turn unit on and move to program instructions.

Programming Instructions:

Coin acceptor:

- No programming to acceptor needed if unit was purchased with the standard Imomex 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***. ***C*** is not use.
8) Press the ***CH +*** button. Display will now read ***D***. ***D*** is not use.
9) Press the ***CH +*** button. Display will now read ***E***. ***E*** is not use.
10) Press the ***CH +*** button. Display will now read ***F***. ***F*** is not use.
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***.
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 read debit mode. Set if desired. See explanation at the end programming instructions.
14) Press the ***CH +*** button. Display will read 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 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 29000UNI-29003UNI:

- 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 shampoo/spot 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.

Maintenance:

- Filter bags should be taken out weekly and shaken out. Also it might be a good idea to keep a new set of bags on hand so that once a month or longer you can take original bags out and wash them.
- Check vac hose for cracks on a weekly basis.
- Check shampoo and spot formula bottles to assure that they are full.
- Clean canister with a stainless steel cleaner as needed.
- 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.***
- All servicing of machine should be conducted by an authorized service representative.

Troubleshooting:

DISCONNECT POWER BEFORE SERVICING

Problem	Possible cause	Solution
Unit is not powered	Breaker inside unit is not in the on position	Flip breaker on
Display is not powering	Breaker inside unit is not in the on position	Flip breaker on
	Check transformer inside main power box in unit. Is there 24VAC at output terminal?	Replace transformer (8131-2)
Display reads "fail"	Coin acceptor putting out continuous pulse	Press mode button on display. If fail does not go away replace coin acceptor. (8149-92)
	Program in display may be lost	Reprogram display. If fail goes away and then comes back, replace battery in display.
Unit keeps blowing my breaker from my incoming power source	Inadequate wire size supplied to machine	Call electrician and install proper wire size for 30amp service versus length or run.
	Wrong size breaker	Install correct breaker(only use wire size that is adequate to handle 30 amp breaker)
Fuses for vac motors keep blowing.	Inadequate wire size supplied 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 (8055BR)
Vac motors will not shut off after display has timed out	Check contactors for vac and turbo located in relay control box	If contact is stuck open replace with new contactor. (5967D001)
Unit has lost suction	Vac hose clogged	Clean out debris from vac hose
	Filter bags need cleaned	Clean out filter bags or replace (8076)
	Vac hose is damaged	Replace vac hose (2036)

PART NO. 29025

BILL OF MATERIALS				BILL OF MATERIALS			
ITEM	PART NUMB	DESCRIPTION	QTY	ITEM	PART NUMB	DESCRIPTION	QTY
36	8000-25	WAGO WIRE NUT	2	1	2036	2 x 15' VAC HOSE	1
37	8076	FILTER BAG	4	2	2058	CLAW AND CUFF	1
38	8182	DISCONNECT POWER DECAL	3	3	28000-36	MOTOR MOUNT	6
39	5639D4	RUBBER GROMMET	2	7	29000-30A	LIGHT BRACKET ASSEMBLY	1
40	8939	PALLET	1	8	29000-44W	VALIDATOR BOX WELDMENT	1
41	8958-1	MEDECO SCREW LOCK	2	9	29000-45W	VALIDATOR FACEPLATE WELDMENT	1
43	B5996-010	10 AMP FUSE	3	10	29000-47W	COIN BOX ENCLOSURE WELDMENT	1
44	B5997-001	FUSE HOLDER	3	11	29000-52W	COIN BOX WELDMENT	1
45	8000-23	5 POLE FEMALE CONNECTOR	2	12	29000-59	VALIDATOR FACEPLATE HANDLE	1
46	8615-5W	CLEANOUT DOOR	2	15	29025-1W	CANISTER WELD COMPLETE	1
47	8153-1	LATCH	4	16	29025-7CBA	TURBO DOOR ASSEMBLY	1
48	8159	DOOR GASKET	2	17	8055	MOTOR, AMETEK 115V	3
49	5647D2	RIVET 1/8	16	18	8057	MOTOR GASKET	3
50	5647D8	RIVET 3/16	14	19	8108	#10 x 1/2 TAP SCREW	6
51	29025Y-KIT	DECAL SET	1	20	5601D1	1/4-20 x 1/2 HHCS-ZINC PLATED	10
52	5871B8	CAP PLUG	8	21	5636D1	#10-24 PHIL. PAN HEAD SCREW	2
53	8687-3	FINISHING PLUG	1	23	5644D1	CAGE NUT	4
35	29029-12	COVER, VAULT HOLE	1	26	5603D5	1/4 Std NC Nylock Nut	8
36	5635D1	1/4-20x1/2 CARRIAGE BOLT	11	27	5603D9	10 Std NF Nylock Nut	2
37	5603D2	1/4 Std NC Nylock Nut	11	28	5606D10	WASHER, FLAT 1/2 SAE	2
54	8630	CARDBOARD BOX	1	29	5603D11	1/2 Std NC Nylock Nut	2
38	29000-250A	CONTROL PANEL ASSEMBLY W/CB	1	30	8130-6	MARS 110V BILL VALIDATOR	1
55	00-CB-WIRE KIT	WIRING KIT	1	31	8306	24" PLASTIC DOME	1
				33	8925	FLOURESCENT BULB	3
				34	5721D1	HEAT SHRINK	60"
				35	5901D4	ORANGE WIRE NUT	6

NOTE:
1) BAG 5871B8 CAPS AND SHIP WITH UNIT.

REV	NO.	DESCRIPTION	DATE	BY
E	5114	ADDED 00-CB-WIREKIT	4-09	CK
E	5114	REMOVED 29000-22, 29025-17A, 29000-21, 29025-19A 29025-7A-1 AND 5640D1 (4). ADDED 29000-250A AND 29025-7CBA	4-09	CK
D	4433	ADD CARDBOARD BOX TO BOM	4-08	JF
C	4323	REMOVED (1) 29000-14W, (2) 8958-2, (2) 8659-24, (3) 5611D4 AND (8) 5601D4; ADDED (1) 29029-12, (11) 5635D1 AND (11) 5603D2	3-08	CK

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: TURBO VAC

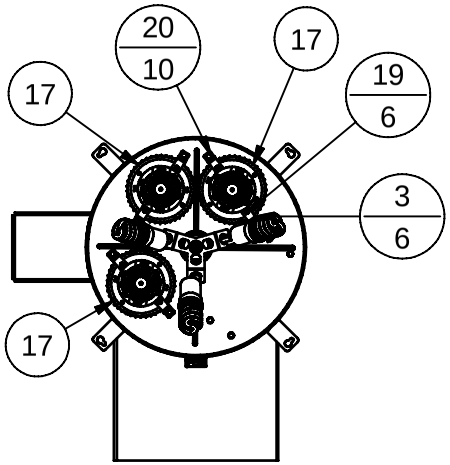
UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°

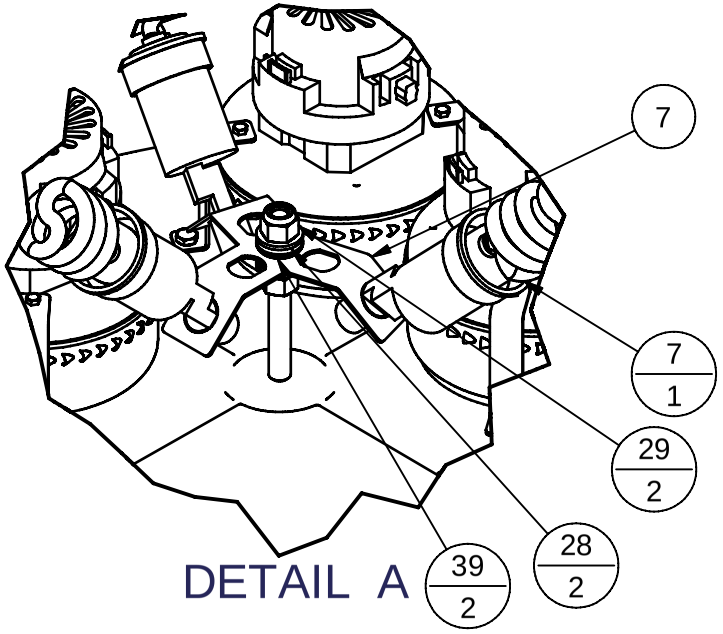
MATERIAL
SCALE
DRAWN BY: CHAD K.
DATE: 11/15/2005

CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD

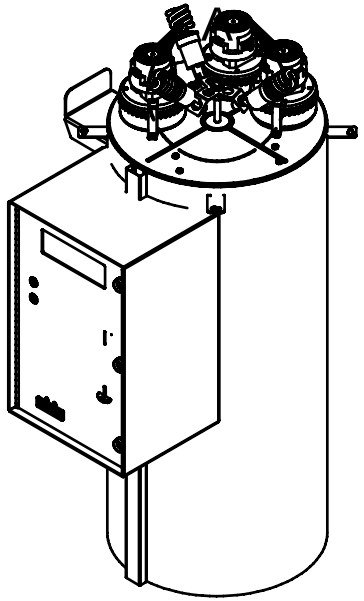
PART NO. 29025
REV. E

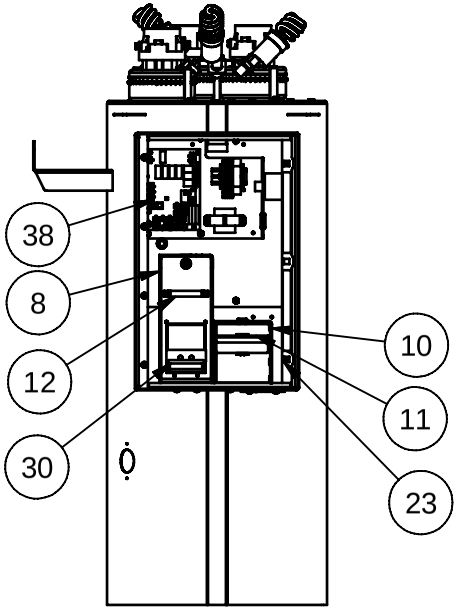
PART NO. 29025

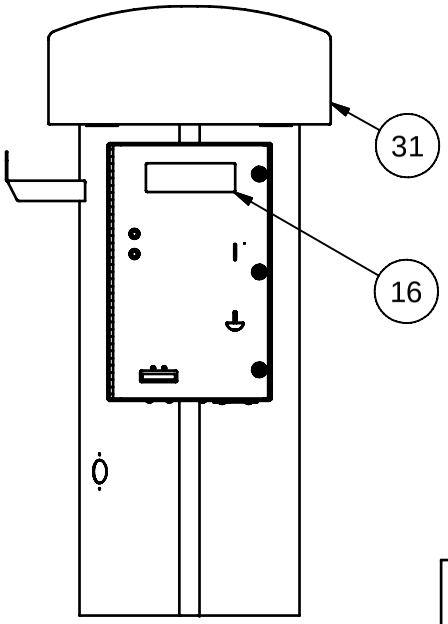




DETAIL A







REV	NO.	DESCRIPTION	DATE	BY

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TITLE: TURBO VAC

UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°

MATERIAL

SCALE

DRAWN BY: CHAD K.

DATE: 11/15/2005

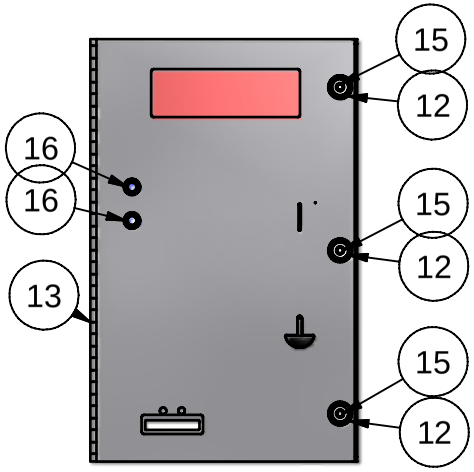
CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD

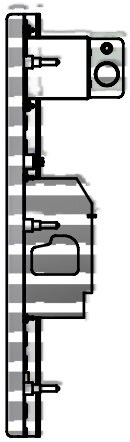
PART NO. 29025

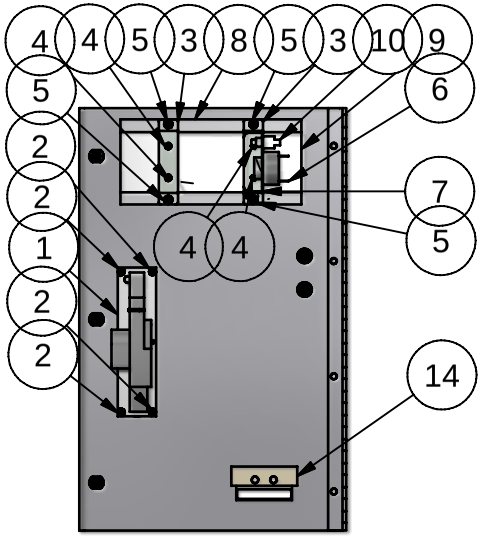
REV. E

PART NO. 29025-7CBA

BILL OF MATERIALS			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	8149-92	IMONEX COIN ACCEPTOR - ELECTRIC	1
2	8157	NUT, #6-32 KEPP NUT STAINLESS	4
3	29000-24	DISPLAY BRACKET	2
4	5629D2	#8 x 1/2 SELF TAPPING SCREW	4
5	5611D2	NUT, 10-24 UNC KEPP- ZINC	4
6	8000-11	ALARM, LAST COIN ALERT	1
7	29000-25	HORN BRACKET	1
8	29000-34	LEXAN WINDOW	1
9	8000-15	BIG DIXMOR DISPLAY	1
10	8726	PUSH BUTTON	1
12	8659-24	LOCK COLLAR -SS	3
13	29025-7CBW	CONTROL DOOR WELDMENT	1
14	29000-199	GASKET, VALIDATOR MOUNT	1
15	8958-2	MEDECO SCREW LOCK	3
16	00-CB-D-05	BLUE PUSH BUTTON	2







REV	NO.	DESCRIPTION	DATE	BY

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TITLE: TURBO DOOR ASSEMBLY

UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°

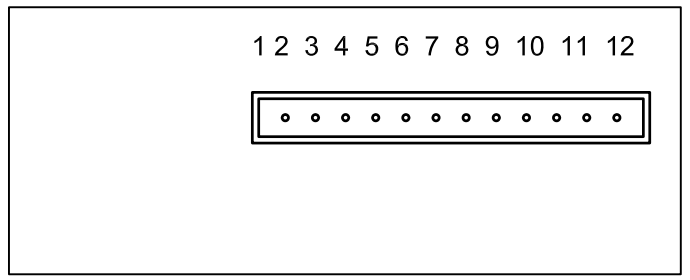
MATERIAL
SCALE
DRAWN BY CHAD K.
DATE 4/20/2009

CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD

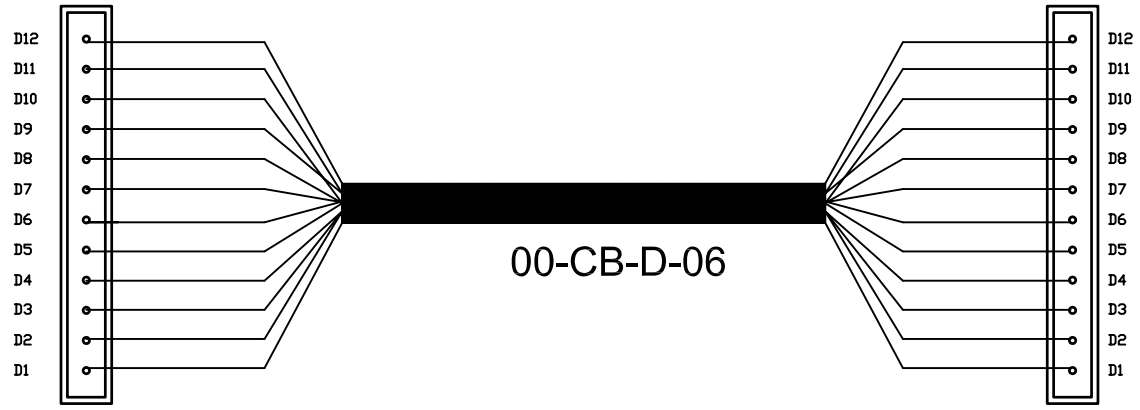
PART NO. 29025-7CBA
REV.

PART NO. S29025_CB_DOOR

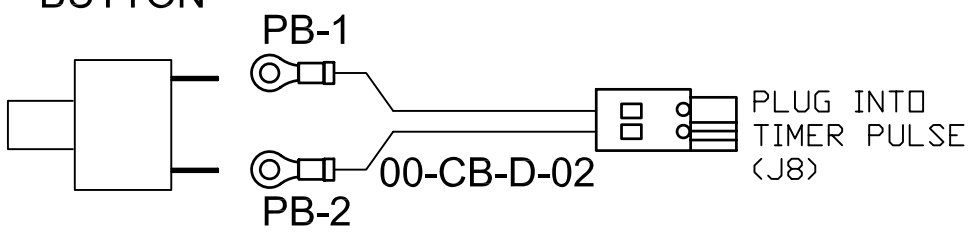
DISPLAY LED 7

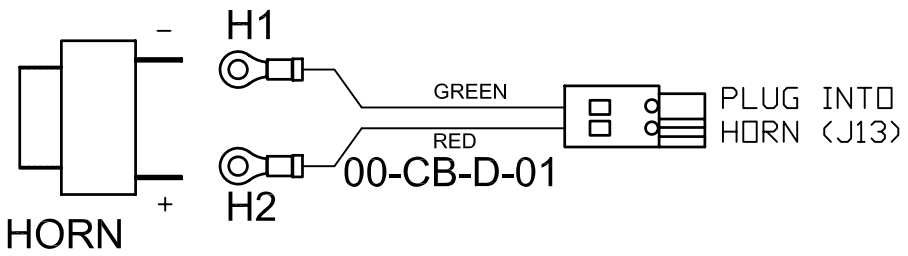


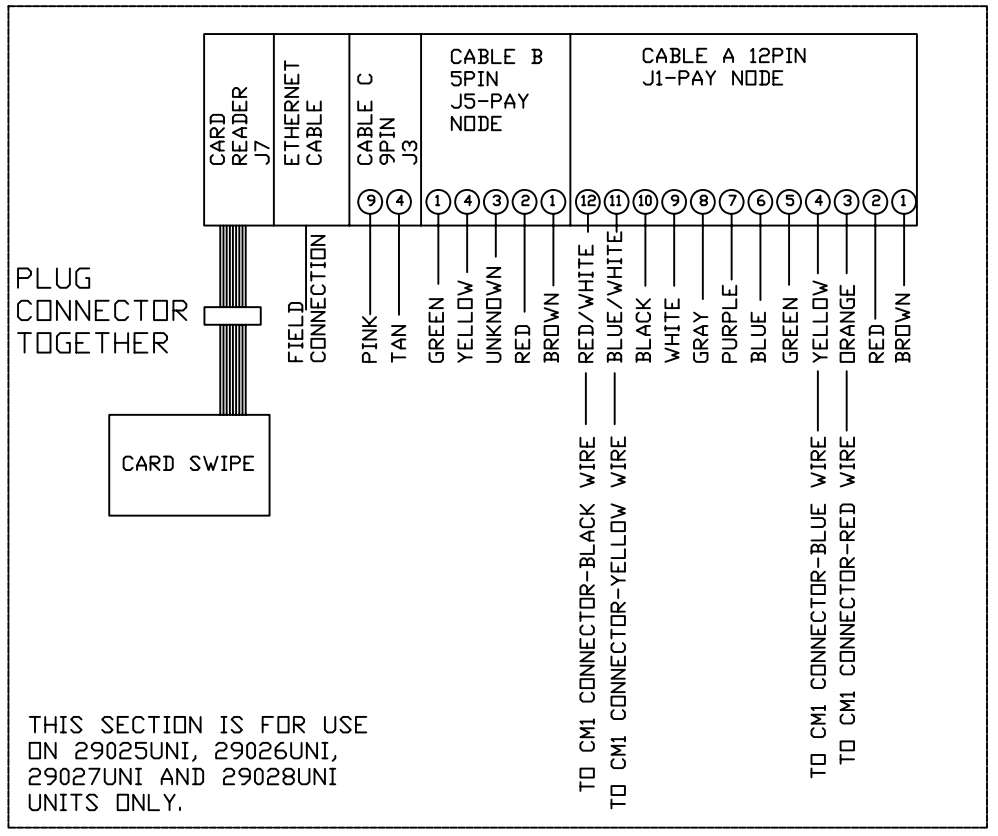
PLUG INTO DISPLAY CONNECTOR

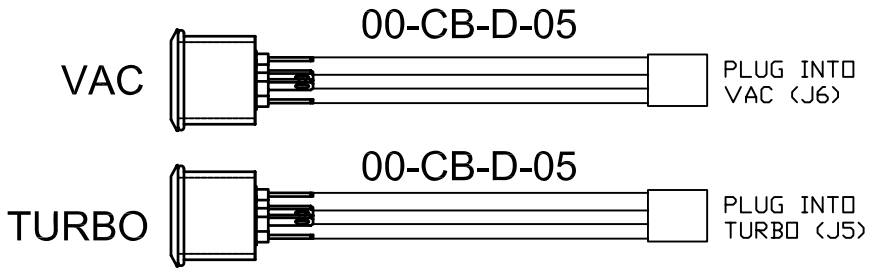


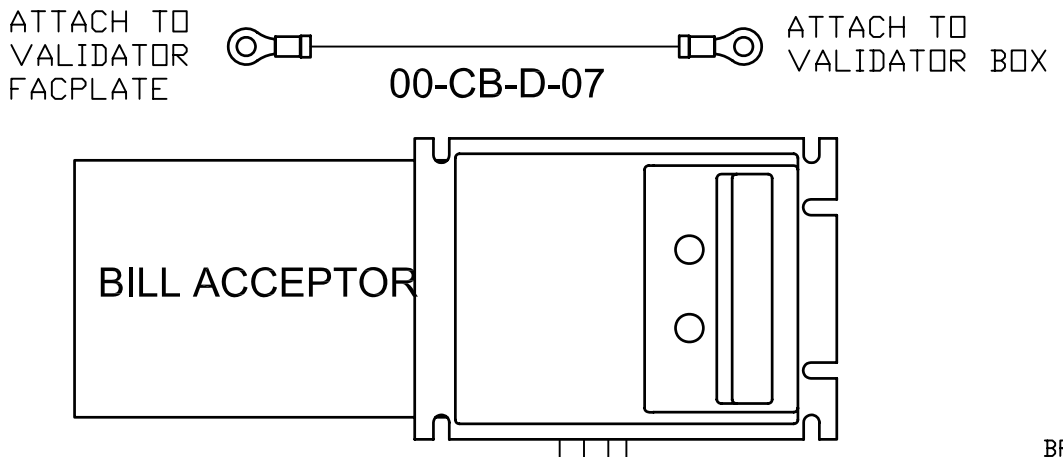
PUSH BUTTON

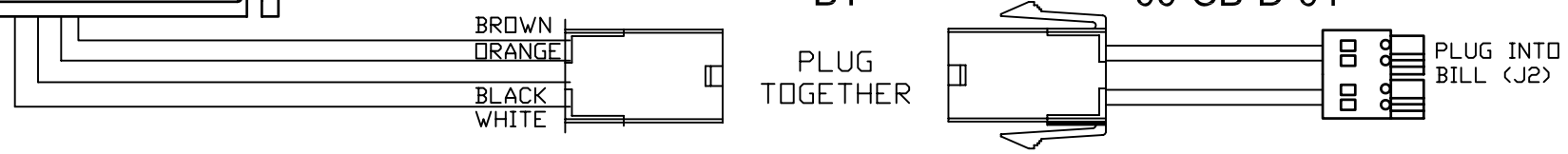


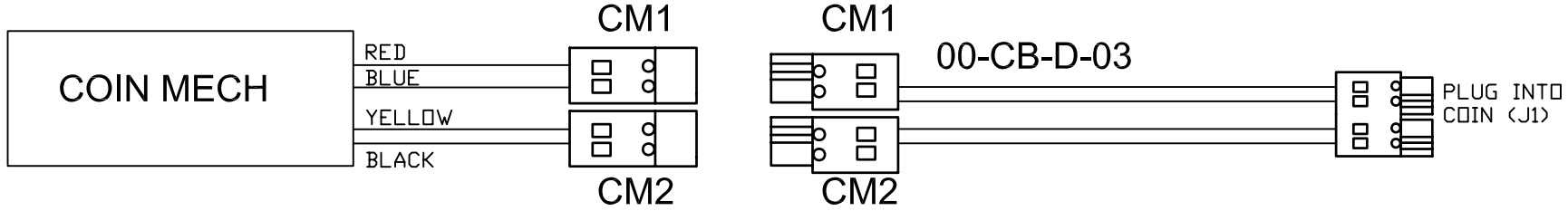












REV	NO.	DESCRIPTION	DATE	BY
A	5683	ADDED UNITEC SYSTEM INFO	3-9-10	CK

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. S29025_CB_DOOR

CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

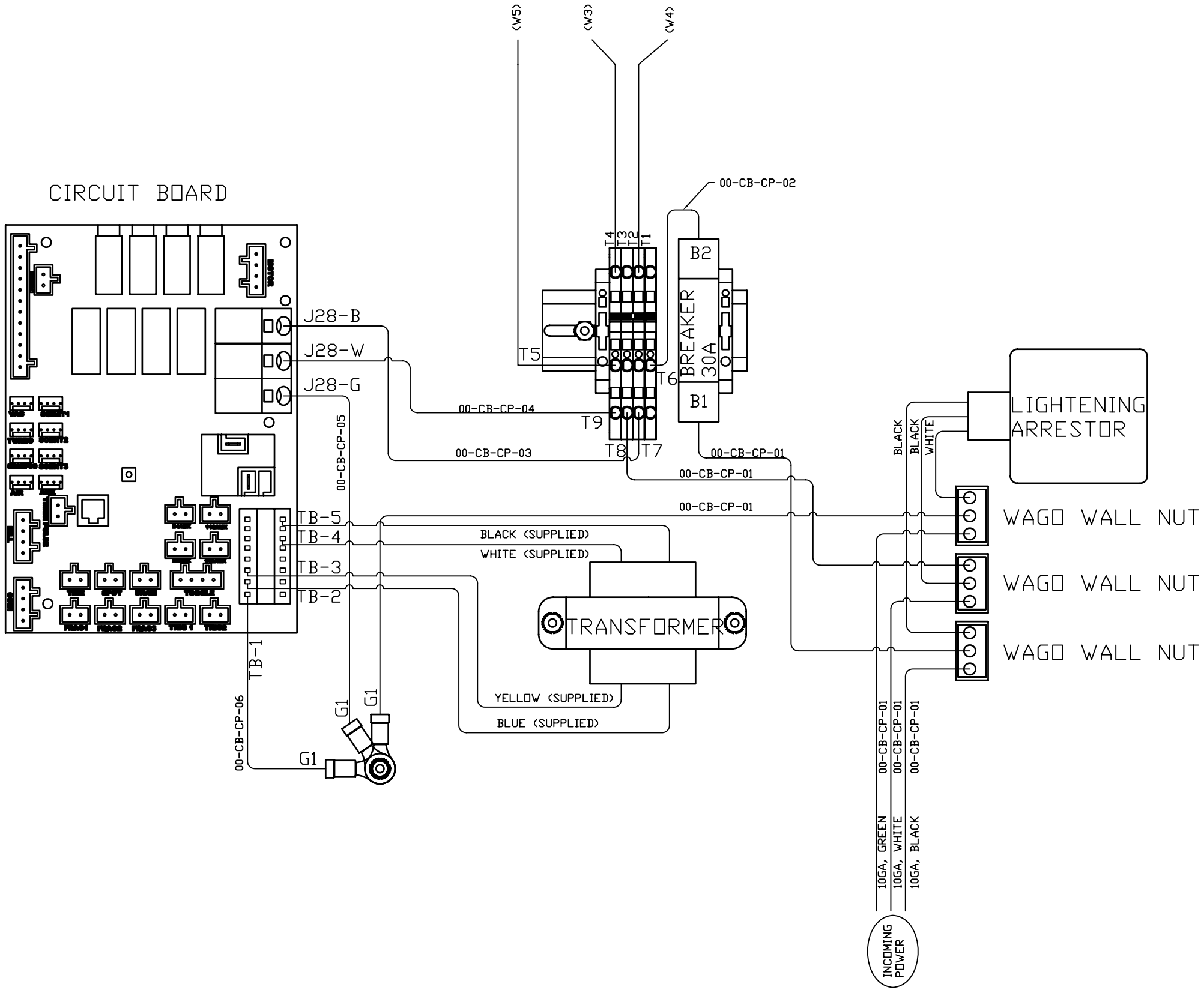
UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°

TITLE: CONTROL DOOR WIRING 29025 SERIES UNIT

DRAWN BY	DATE	SCALE	REL. FOR PROD.
CK	4-09	–	–

MATERIAL	PART NO.	REV. LEVEL
–	S29025_CB_DOOR	A

PART NO. S29025_CB_CONTROL



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. S29025_CB_CONTROL

CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

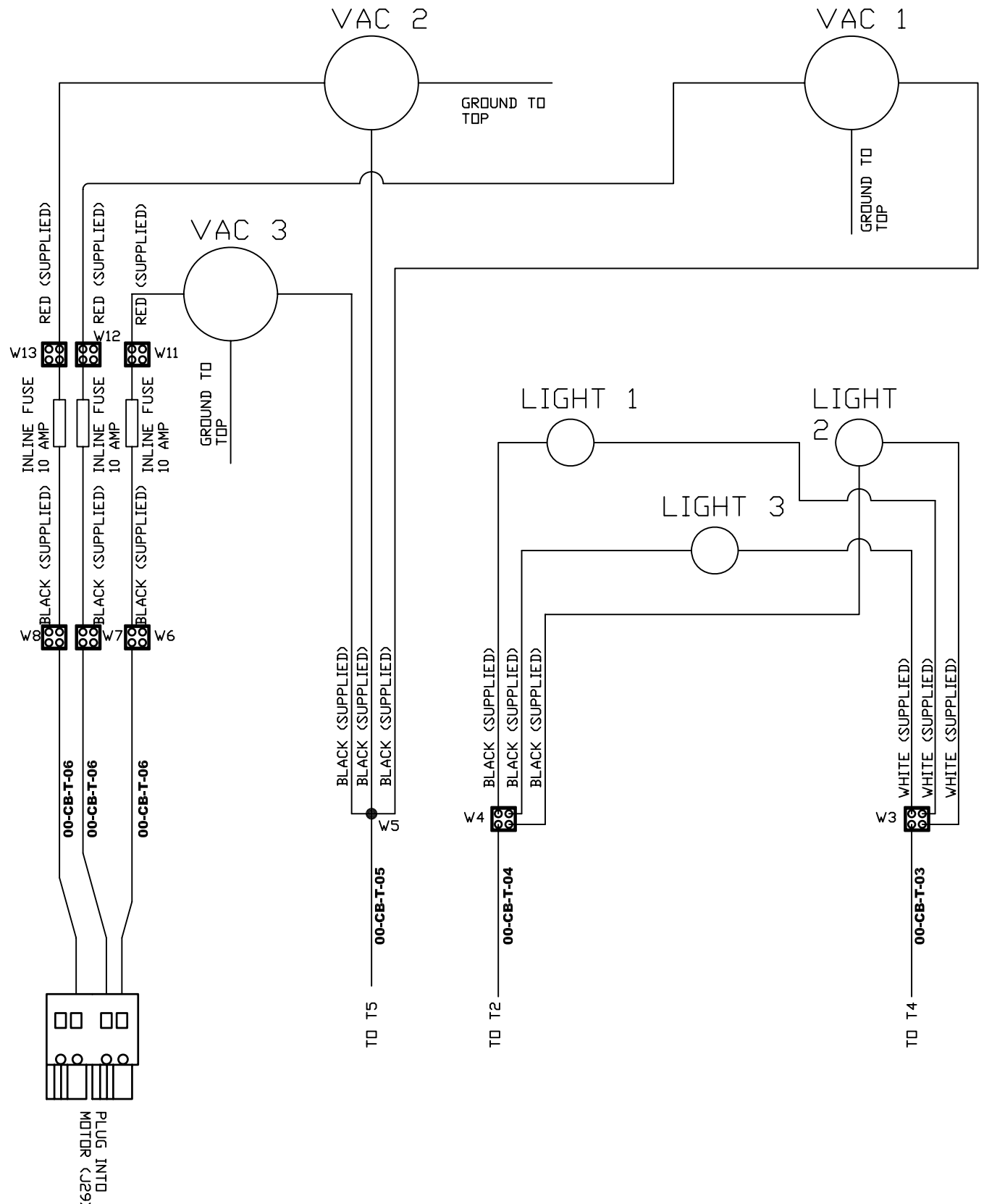
UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°

TITLE: CONTROL PANEL WIRING 29025 SERIES UNITS

DRAWN BY	DATE	SCALE	REL. FOR PROD.
CK	4-09	–	–

MATERIAL	PART NO.	REV. LEVEL
–	S29025_CB_CONTROL	–

PART NO. S29025_CB_TOP



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. S29025_CB_TOP

CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°

TITLE: UNIT TOP WIRING 29025 SERIES UNIT

DRAWN BY	DATE	SCALE	REL. FOR PROD.
CK	4-09	–	–

MATERIAL	PART NO.	REV. LEVEL
–	S29025_CB-TOP	–

PART NO. S29025-CB-ELEC

BILL OF MATERIAL			
ITEM NO.	PART NO.	DESCRIPTION	QTY.

120 VAC

120 VAC COMMON

GND

GROUND LIST:
J30, PIN 16

J28, PIN 12

MOTORS TO CANISTER TOP

SHAMPOO BRUSH TO CANISTER

BILL ACCEPTOR

LED9M DISPLAY/TIMER

1	2	3	4	5	6	7	8	9	10	11	12	
24VAC COM	COIN IN	+12VDC	-12VDC	+12VDC	24VAC COM	24VAC HOT	AUX	INPUT 1	INPUT 2	INPUT 3	OUTPUT	
→TO J7, PIN 1	→TO J7, PIN 2	→TO J7, PIN 3	→TO J7, PIN 4	→TO J7, PIN 5	→TO J7, PIN 6	→TO J7, PIN 7	→TO J7, PIN 8	→TO J7, PIN 9	→TO J7, PIN 10	→TO J7, PIN 11	→TO J7, PIN 12	

COIN PULSE SWITCH

→TO J8, PIN 1

→TO J8, PIN 2

AUDIO ALERT

H

→TO J13, PIN 2

→TO J13, PIN 1

TO J2, PIN 2→
TO J2, PIN 3→
TO J2, PIN 4→

BILL VALIDATOR

→TO J2, PIN 1

TO J1, PIN 2→
TO J1, PIN 3→
TO J1, PIN 4→

COIN MECH

→TO J1, PIN 1

TO J6, PIN 3→

L

→T6 J1, PIN 4
→TO J6, PIN 2
→TO J6, PIN 1

PUSH BUTTON W/ LIGHT (VAC)

TO J5, PIN 3→

L

→TO J5, PIN 4
→TO J5, PIN 2
→TO J5, PIN 1

PUSH BUTTON W/ LIGHT (TURBO)

→TO J28, PIN 8

→TO J28, PIN 12

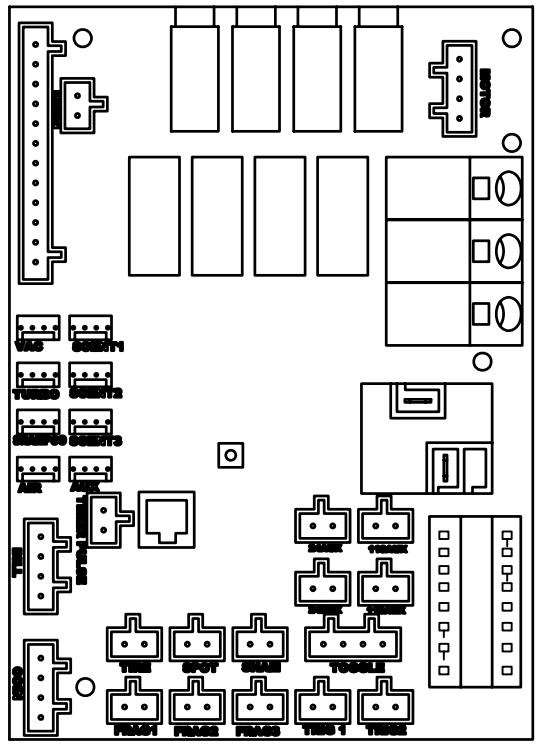
LIGHNING ARRESTOR

→TO J30, PIN 12

→TO J30, PIN 14

T1

CIRCUIT BOARD



ALL (J) REFERENCES ARE TO THE CIRCUIT BOARD. SEE CB-5002 BOARD CONFIG (PDF) FOR CIRCUIT BOARD LAYOUT.

W

W

W

TO J29, PIN 1→ F1-10A M

TO J29, PIN 2→ F2-10A M

TO J29, PIN 3→ F3-10A M

REV	NO.	DESCRIPTION	DATE	BY

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PART NO. S29025-CB-ELEC

CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

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

TITLE: 29025 ELECTRICAL SCHEMATIC W/CB

DRAWN BY	DATE	SCALE	REL. FOR PROD.
CK	3-09	–	

PART NO. S29025-CB-ELEC

REV. LEVEL