J.E. ADAMS INDUSTRIES, LTD

Models- 29025 - 29028
29025UNI - 29028UNI
29025HAM - 29028HAM
29025-2M - 29028-2M
29025-29028 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: *(29025-29028, 29025UNI-29028UNI, 29025HAM-29028HAM)*
Voltage: 120VAC, 60Hz
Amperage: (1) 30 amp dedicated service is required for this unit
Weight: 250 lbs with pallet attached

Vac specifications: *(29025-29028, 29025UNI-29028UNI, 29025HAM-29028HAM)*
Motors: (3) 120VAC Vacuum motor
Fuses: (3) 10 amp inline fuses

Unit specifications: *(29025-2M thru 29028-2M)*
Voltage: 120v, 60Hz
Amperage: (1) 20 amp dedicated service is required for this unit
Weight: 250 lbs with pallet attached

Vac specifications: *(29025-2M thru 29028-2M)*
Motors: (2) 120VAC Vacuum motor
Fuses: (2) 10 amp inline fuses

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)

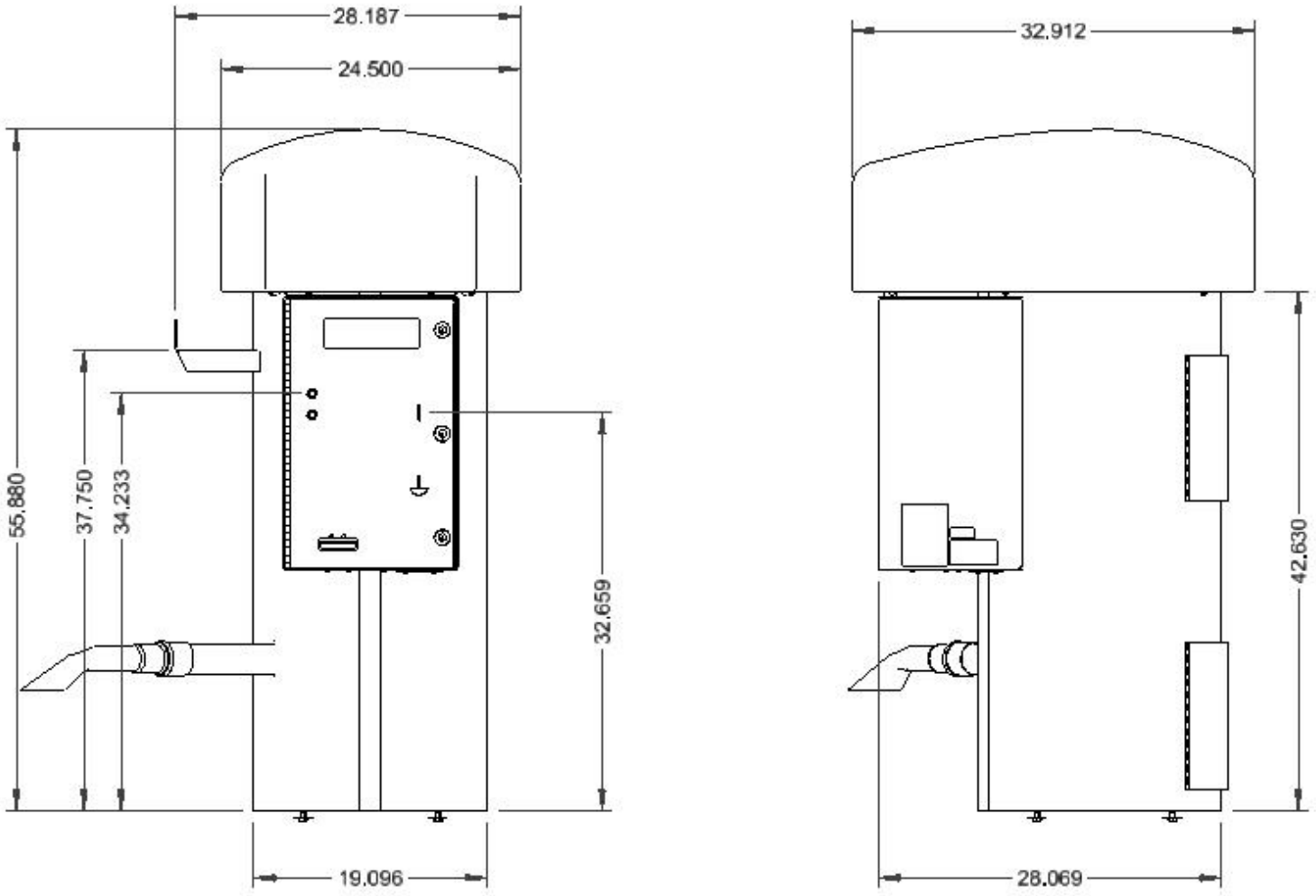
WARNING – To reduce the risk of fire, electric shock, or injury:

- 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.

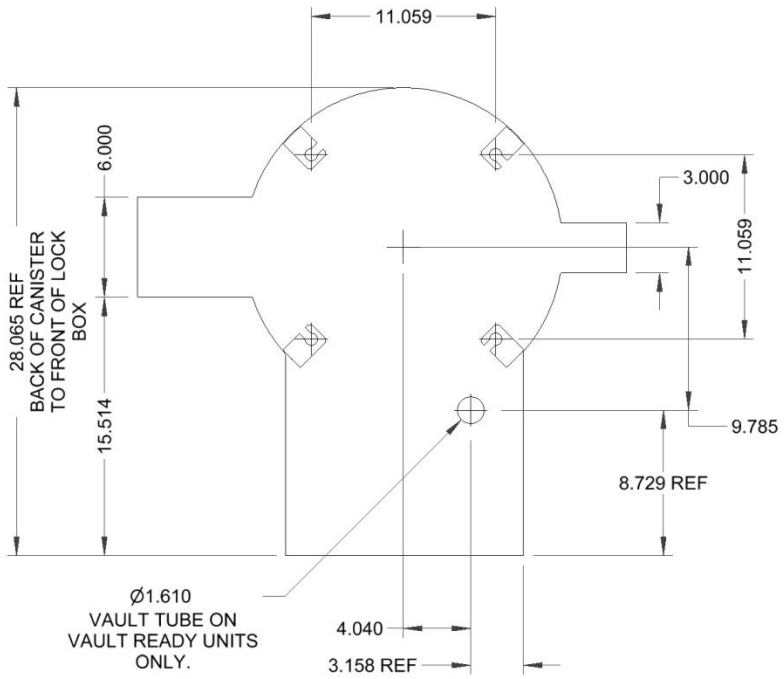
SAVE THESE INSTRUCTIONS

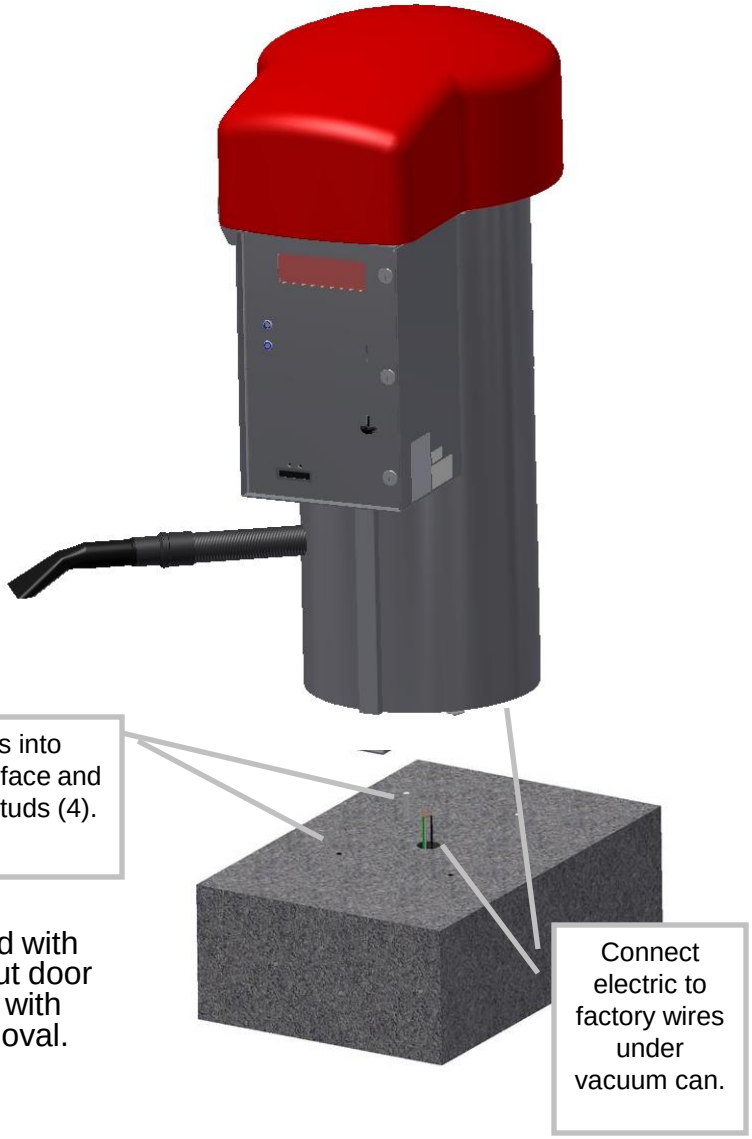
- **Installation Instructions:**
- Determine location to mount unit (**“DANGER” “THIS EQUIPMENT INCORPORATES PARTS SUCH AS SWITCHES, MOTORS, OR THE LIKE THAT TEND TO PRODUCE ARCS OR SPARKS THAT CAN CAUSE AN EXPLOSION. WHEN LOCATED IN GASOLINE-DISPENSING AND SERVICE STATIONS INSTALL AND USE AT LEAST 20 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.
- **Circuit must be protected by GFCI device.**
- All local and national electric codes must be followed for installation and use.
- Licensed electricians are recommended for installation.

Product Dimensions



PLAN VIEW

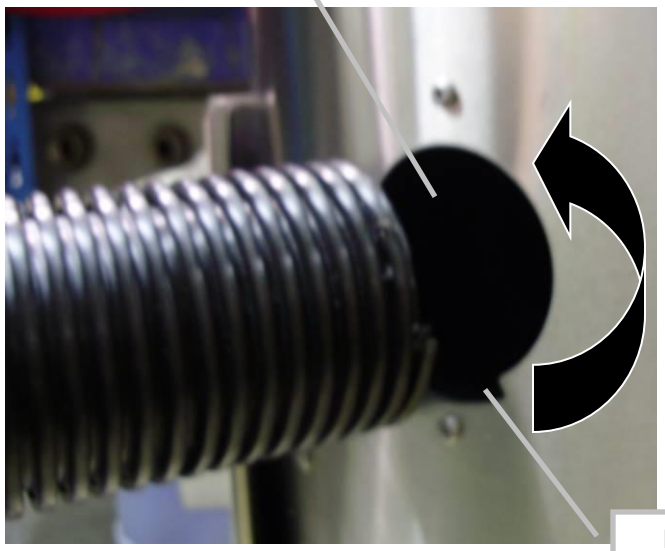




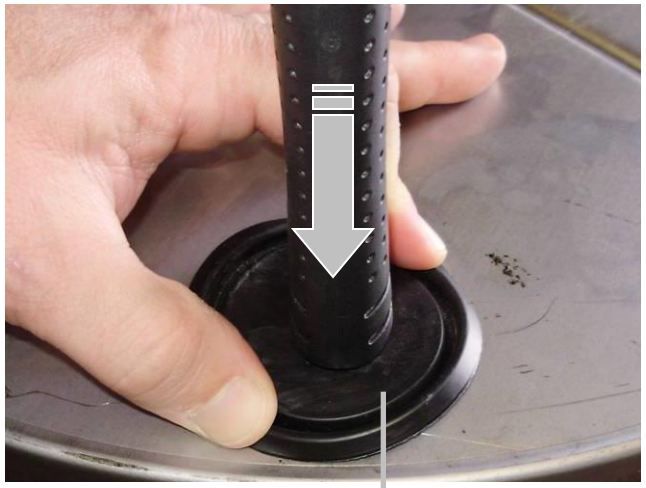
NOTE: when mounting, provide clearance so cleanout doors can open!!

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, then connect unit to power.

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***. ***C*** is not used.
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****.*
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 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 29025UNI-29028UNI or 29025HAM-29028HAM:

- 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 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.**

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.
- 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 29000-5003A

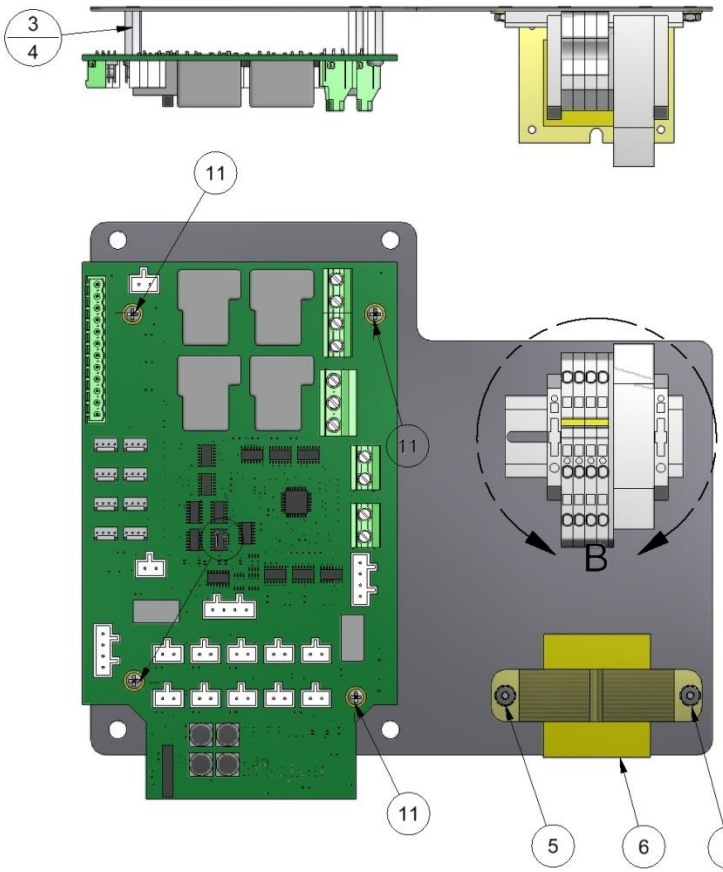
NOTE 1:
ASSEMBLE ALL ITEMS AS SHOWN.

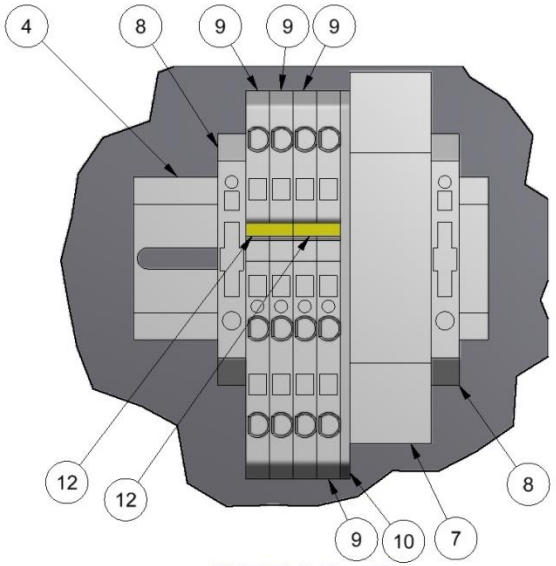
NOTE 2:
USE WIRE ASSEMBLY CB-03-CONTROL TO WIRE THIS CONTROL PANEL ASSEMBLY.
THE CB-03CONTROL IS LOCATED IN THE CB-03 WIREKIT PACKAGE.
THE CB-03-WIREKIT IS CALLED OUT UNDER THE 29000 TOP LEVEL ASSEMBLY.

NOTE 3:
USE WIRE DIAGRAM S29000_CB_CONTROL REV A

BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	29000-5003W	BRACKET, CONTROL PLATE WELDMENT, CB-5003	1
3	5000D6	#6-32 x .75 FxF STANDOFF	4
4	28000-129	DIN RAIL CUT TO 3"	1
5	8157	NUT, #6-32 KEPP NUT STAINLESS	4
6	8131-2	TRANSFORMER, 110/220-24 1.66A	1
7	28000-128	MAGNETIC CIRCUIT BREAKER, 30AMP	1
8	28000-124	TERMINAL BLOCK STOP	2
9	28000-800	33A DIN BLOCK, 10 GA.	4
10	28000-820	END BARRIER, GREY	1
11	5662D5	6-32 x 3/8 PHIL. PAN -MACHINE SCREW	4
12	28000-155	JUMPER - CUT TO 2 POLE	2
15	8097	INSULATED CRIMP NUT	2
15	CB-5003	CIRCUIT BOARD, 29K SERIES UNIT	1





DETAIL B
SCALE 3 / 4

REV	NO.	DESCRIPTION	DATE	BY

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TITLE: CONTROL PANEL ASSEMBLY, CB-5003

UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.020
3 PL ±.003
ANGLE ±1°

MATERIAL
DRAWN BY CHAD K.
DATE 8/10/2015
SCALE
SHEET 1 / 1
PART NO 29000-5003A
REV.

J.E. ADAMS INDUSTRIES, LTD

PART NO. 29025-7CBA-1

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 29000 TOP LEVEL ASSEMBLY.

3) USE WIRE DIAGRAM S29025_CB_DOOR. ***(IF BUILDING 29000-2M THRU 29001-2M USE WIRE DIAGRAM S29000_CB_DOOR.)***

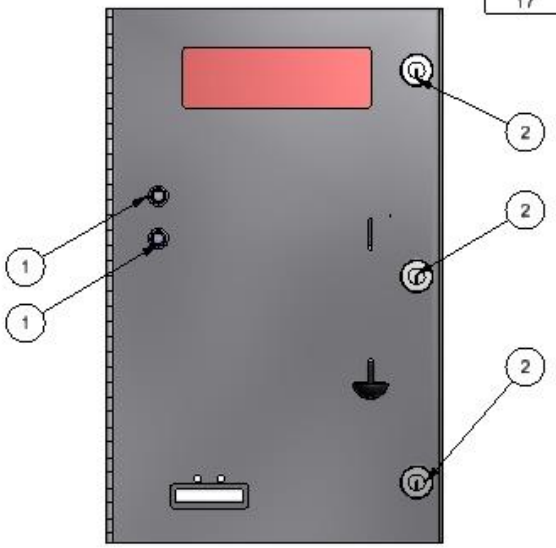
4) DO NOT OVER TIGHTEN PUSH BUTTONS ONTO DOOR. MAKE SURE THEY ARE SNUG AND ORINGS ARE NOT PROTRUDING FROM SIDE OF PUSH BUTTON. IF SO THEY ARE TO TIGHT.

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 PROPERELY MAY RESULT IN MALFUNCTION OF DISPLAY OR POSSIBLE DAMGE TO THE CIRCUIT BOARD. IF IN DOUBT ASK QUESTIONS.

BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	00-CB-D-05	BLUE PUSH BUTTON	2
2	22001-6A	PLUG LOCK, LARGE, WITH LOCK CORE	3
3	29000-100W	LOCK BRACKET WELDMENT	1
4	29000-199	GASKET, VALIDATOR MOUNT	1
5	29000-24	DISPLAY BRACKET	2
6	29000-25	HORN BRACKET	1
7	29000-34	LEXAN WINDOW	1
8	29025-7CBW-1	CONTROL DOOR WELDMENT	1
9	5611D2	NUT, 10-24 UNC KEPP- ZINC	4
10	5619D3	1/2" - 13 HEX SOC HEAD SCREW	3
11	5629D2	#8 x 1/2 SELF TAPPING SCREW	4
12	5639D6	RUBBER GROMMET	1
13	8000-11	ALARM, LAST COIN ALERT	1
14	8000-15	BIG DIXMOR DISPLAY	1
15	8149-92	IMONEX COIN ACCEPTOR - ELECTRIC	1
16	8157	NUT, #6-32 KEPP NUT STAINLESS	4
17	8726	PUSH BUTTON	1



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.

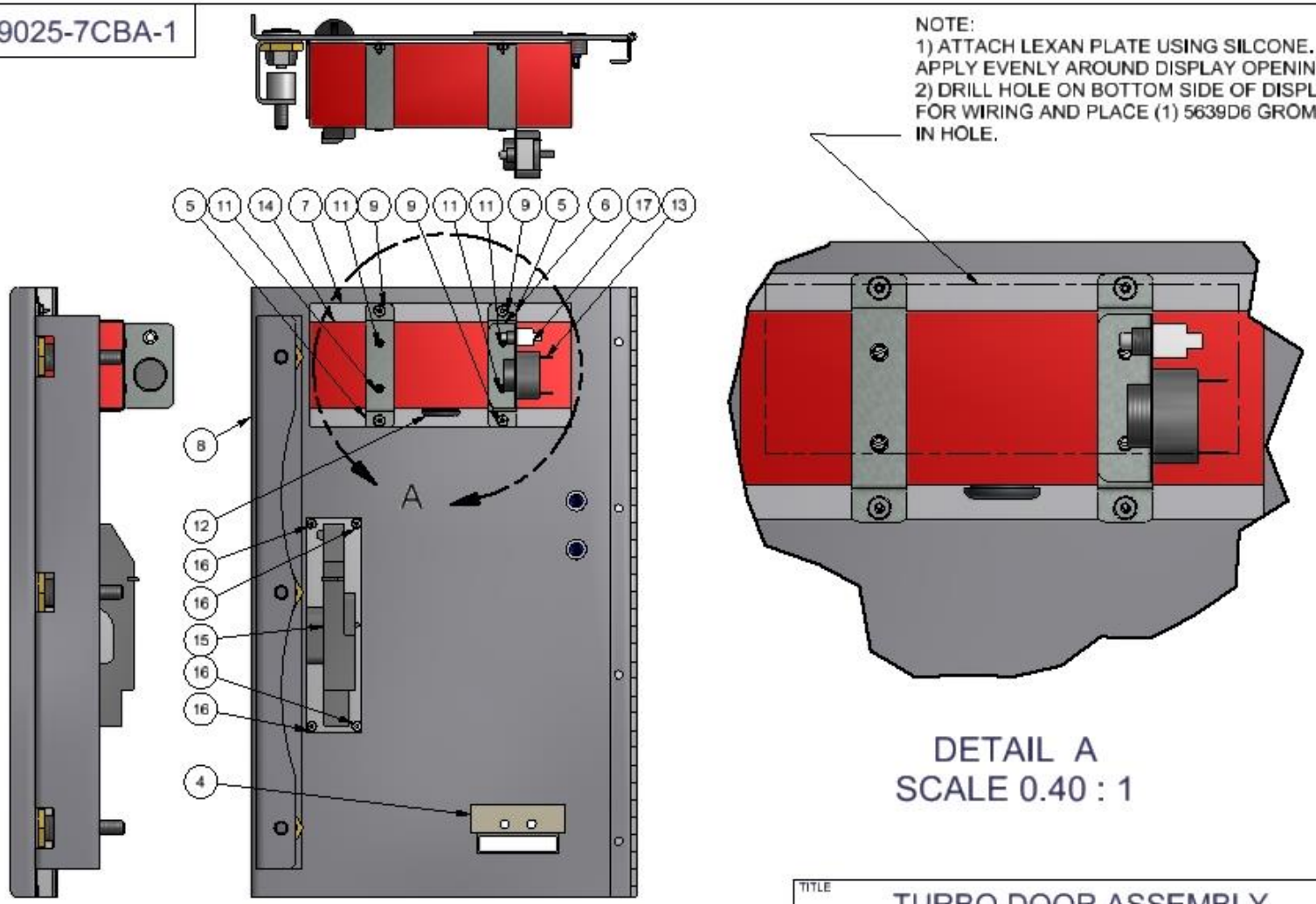
DATE: 11/12/2012

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

PART NO. 29025-7CBA-1

REV.

PART NO. 29025-7CBA-1



NOTE:
1) ATTACH LEXAN PLATE USING SILCONE. APPLY EVENLY AROUND DISPLAY OPENING.
2) DRILL HOLE ON BOTTOM SIDE OF DISPLAY FOR WIRING AND PLACE (1) 5639D6 GROMMET IN HOLE.

DETAIL A
SCALE 0.40 : 1

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 11/12/2012

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

PART NO. 29025-7CBA-1
REV.

PART NO. 29025

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

BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	2036	HOSE, 2" X 15' BLACK VACUUM	1
2	2058	CLAW/CUFF ASSEMBLY, 2"	1
3	28000-36	MOTOR MOUNT	6
4	29000-30A	LIGHT BRACKET ASSEMBLY	1
5	29000-44A	BILL ACCEPTOR ASSEMBLY, PLUG LOCK	1
6	29000-47A	COIN BOX ASSEMBLY, PLUG LOCK	1
7	29000-5003A	CONTROL PANEL ASSEMBLY, CB-5003	1
8	29025-1W-2	CANISTER WELD COMPLETE, PLUG LOCK	1
9	29025-7CBA-1	TURBO DOOR ASSEMBLY	1
10	29025KIT	DECAL SET	1
11	29029-12	COVER, VAULT HOLE	1
12	5600D4	3/8-16 X 1.5 HHCS	4
13	5601D13	SCR,1/4-20x1/2 PPHSqConeStepZP	14
14	5603D11	1/2 Std NF Nylock Nut	2
15	5603D2	1/4 Std NC Nylock Nut	3
16	5603D5	1/4 Std NC Nylock Nut	4
17	5606D10	WASHER, FLAT 1/2 SAE	2
18	5606D22	WASHER, 3/8 FENDER	8
19	5635D1	1/4-20x1/2 CARRIAGE BOLT	13
20	5639D4	RUBBER GROMMET	2
21	5647D2	RIVET 1/8	16
22	5647D8	RIVET 3/16	14
23	5871b8	PLUG, VAC BOTTOM 2-1/2"	8
24	8055EM	MOTOR, ELECTRO 120V	3
25	8055LEAD-EM	MOTOR LEAD	6
26	8057	MOTOR GASKET	3
27	8076	FILTER BAG	4
28	8108	#10 x 1/2 TAP SCREW	6
29	8153-1	LATCH, CLEANOUT DOOR	4
30	8159	DOOR GASKET	2
31	8183	DECAL, "DISCONNECT POWER"	2
32	8308R	PENINSULA DOME	1
33	8437D001	ETL DECAL, VACUUM	1
34	8615-5W	CLEANOUT DOOR WELDMENT	2
35	8630	CARDBOARD BOX	1
36	8732	NAMEPLATE SERIAL TAG, UL	1
37	8754	DECAL, DANGER, TRI-LING	1
38	8925	FLOURESCENT BULB	3
39	8939	PALLET, DUAL, OVAL, SPECIALITY, 30" X 40"	1
40	B5722-002	NUT, 3/8-16 UNC HEX LOCK NUT	4
41	CB-03-WIRE KIT	WIRING KIT	1

REV	NO.	DESCRIPTION	DATE	BY
H	7540	REMOVED 29000-250A, 00-CB-WIREKIT ADDED 29000-5003A, CB-03-WIREKIT	9-4-15	CK
G	7051	CHANGED UNIT FROM SCREW LOCKS TO PLUG LOCKS	11-19-12	CK
F	6537	CHANGE DEFAULT DECAL KIT TO BLACK, ADD PALL. HARDWARE	052611	JF
E	5114	ADDED 00-CB-WIREKIT	4-09	CK

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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.

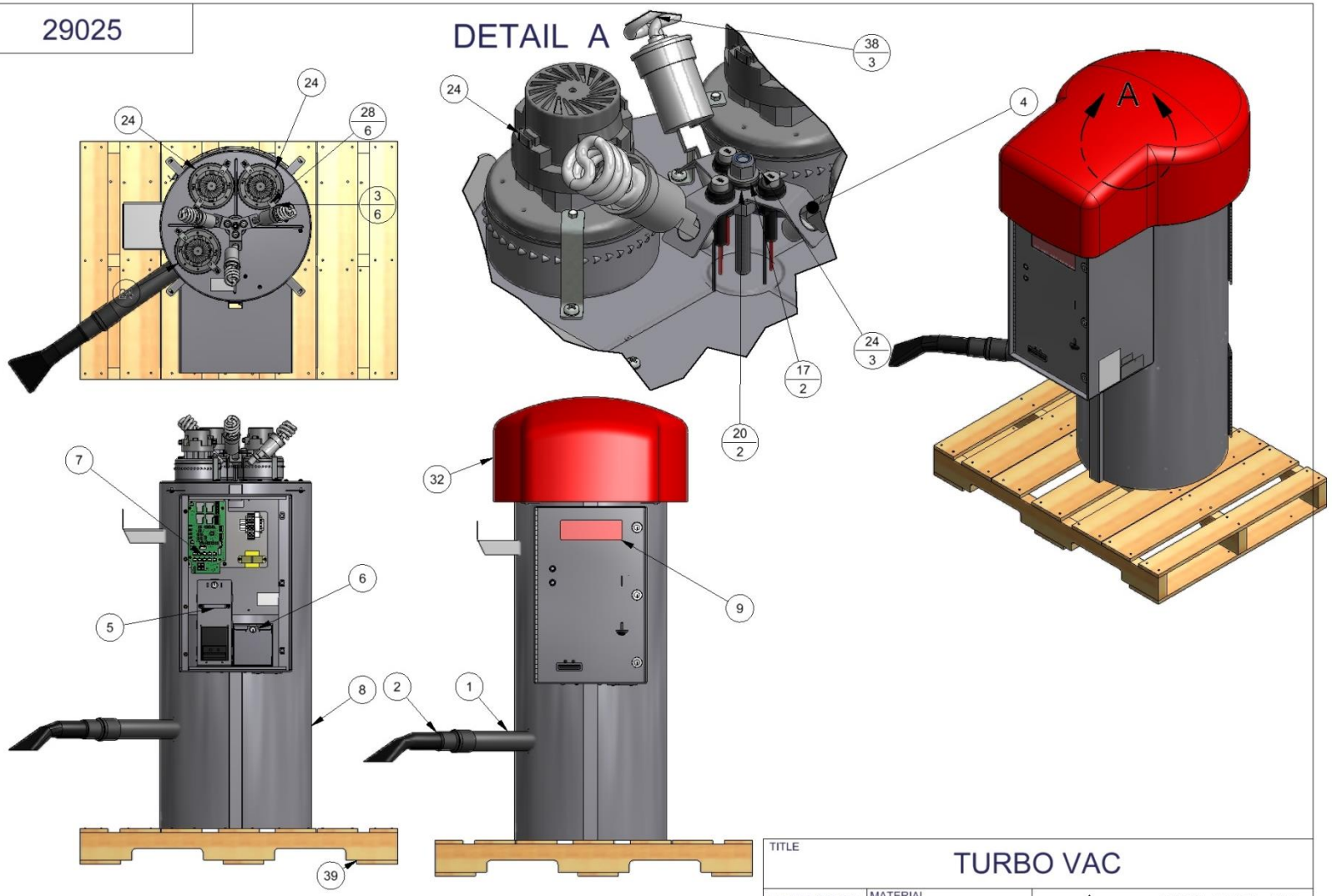
DATE: 11/15/2005

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

PART NO. 29025

REV. H

PART NO. 29025



REV	NO.	DESCRIPTION	DATE	BY
F	6537	CHANGE DEFAULT DECAL KIT TO BLACK, ADD PALL. HARDWARE	052611	JF

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TITLE: TURBO VAC

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

MATERIAL

SCALE

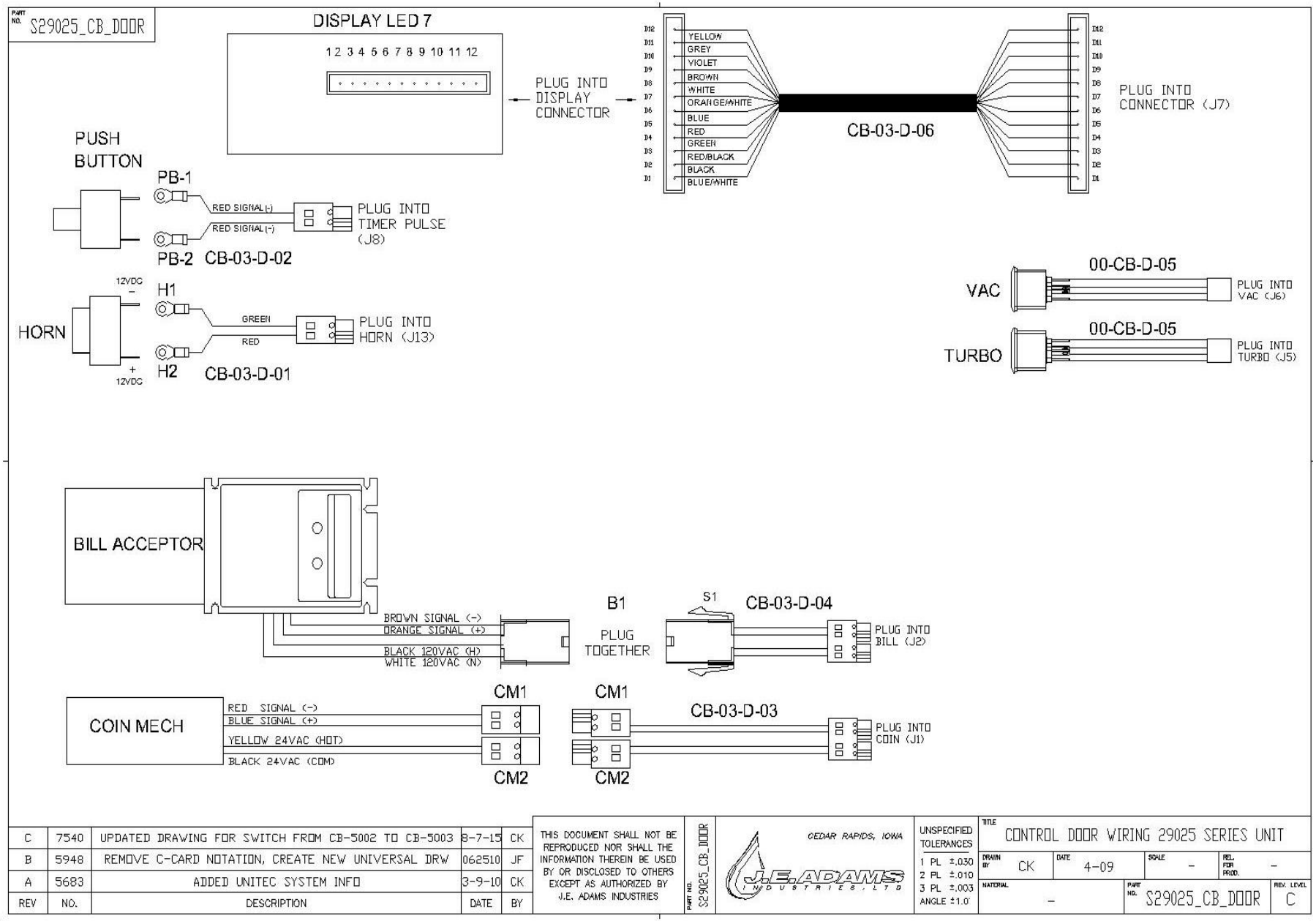
DRAWN BY: CHAD K.

DATE: 11/15/2005

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

PART NO. 29025

REV. H



REV	NO.	DESCRIPTION	DATE	BY
C	7540	UPDATED DRAWING FOR SWITCH FROM CB-5002 TO CB-5003	8-7-15	CK
B	5948	REMOVE C-CARD NOTATION, CREATE NEW UNIVERSAL DRW	062510	JF
A	5683	ADDED UNITEC SYSTEM INFO	3-9-10	CK

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PART NO. S29025_CB_DOOR

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

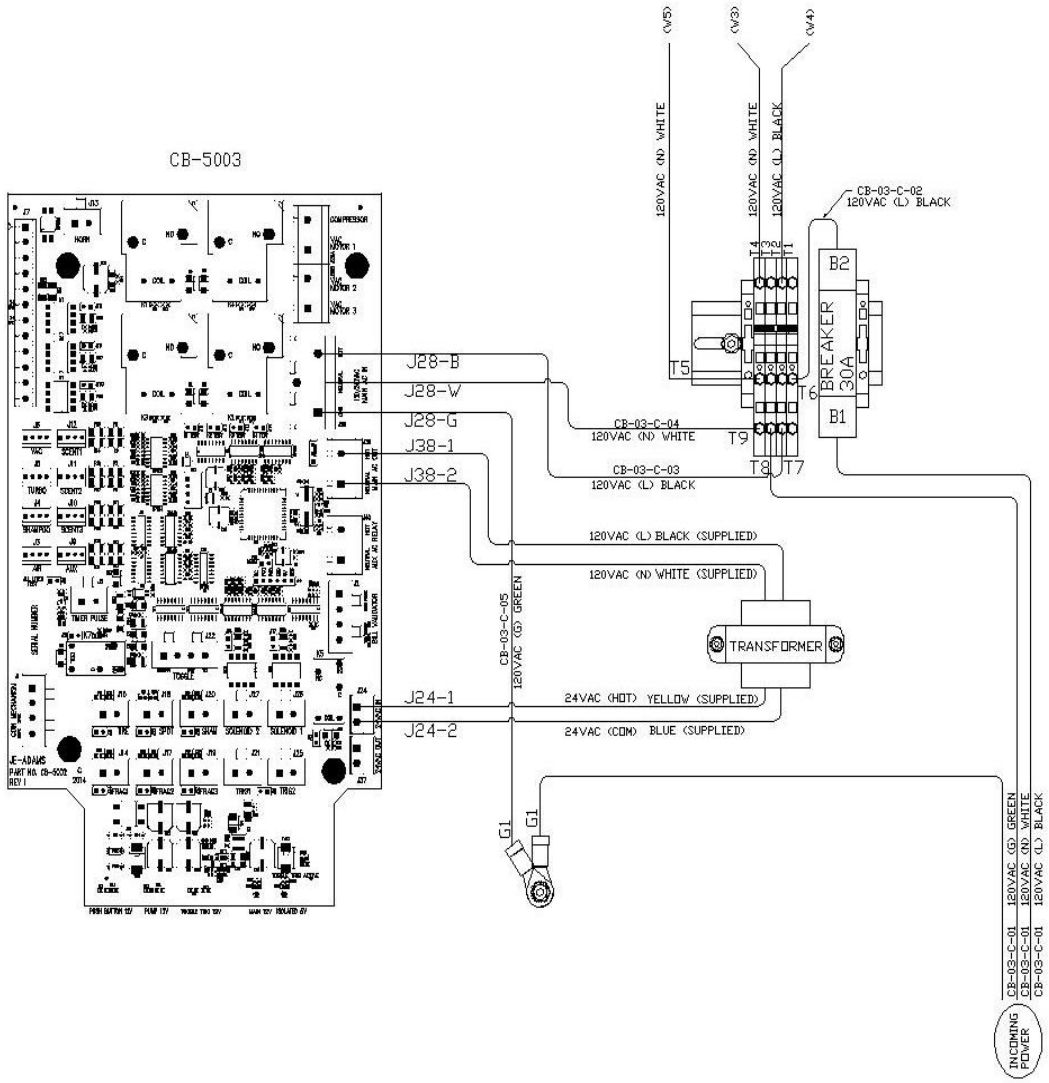
UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°

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	C

PART NO. S29025_CB_CONTROL



REV	NO.	DESCRIPTION	DATE	BY
A	7540	UPDATED WIRING FOR SWITCH FROM CB-5002 TO CB-5003	8-6-15	CK

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PART NO. S29025_CB_CONTROL

CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

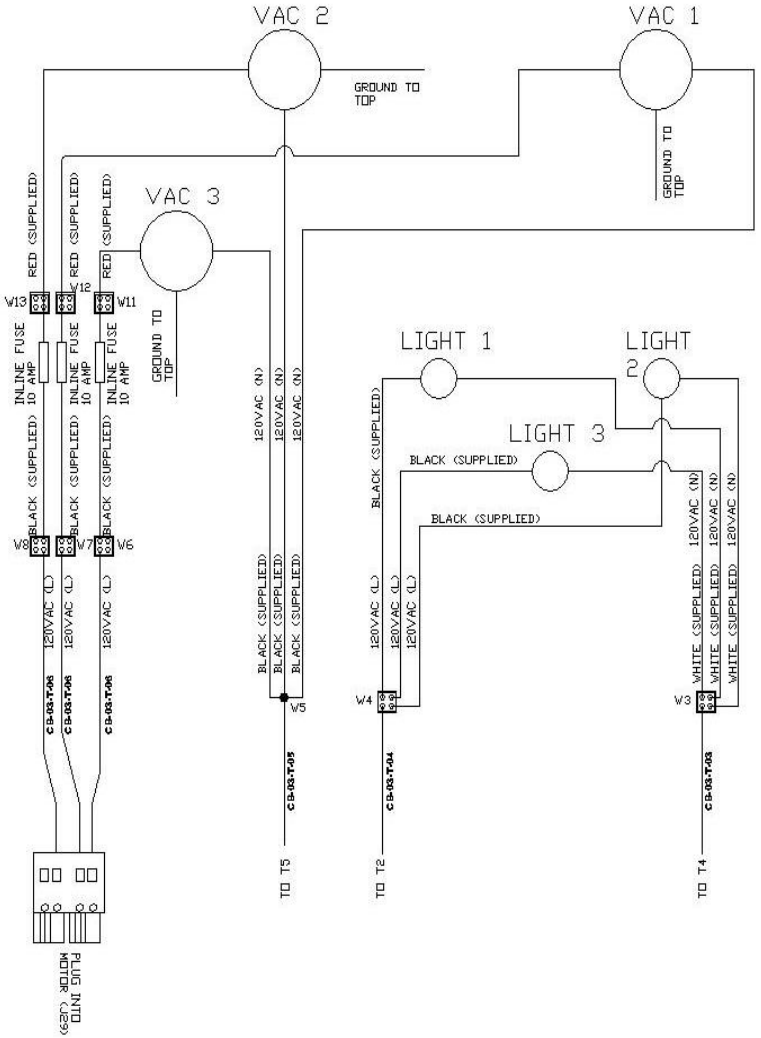
UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°

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	A

PART NO. S29025_CB_TOP



REV	NO.	DESCRIPTION	DATE	BY
A	7540	UPDATED TO SWITCH FROM CB-5002 TO CB-5003	8-7-15	CK

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PART NO. S29025_CB_TOP

CEDAR RAPIDS, IOWA

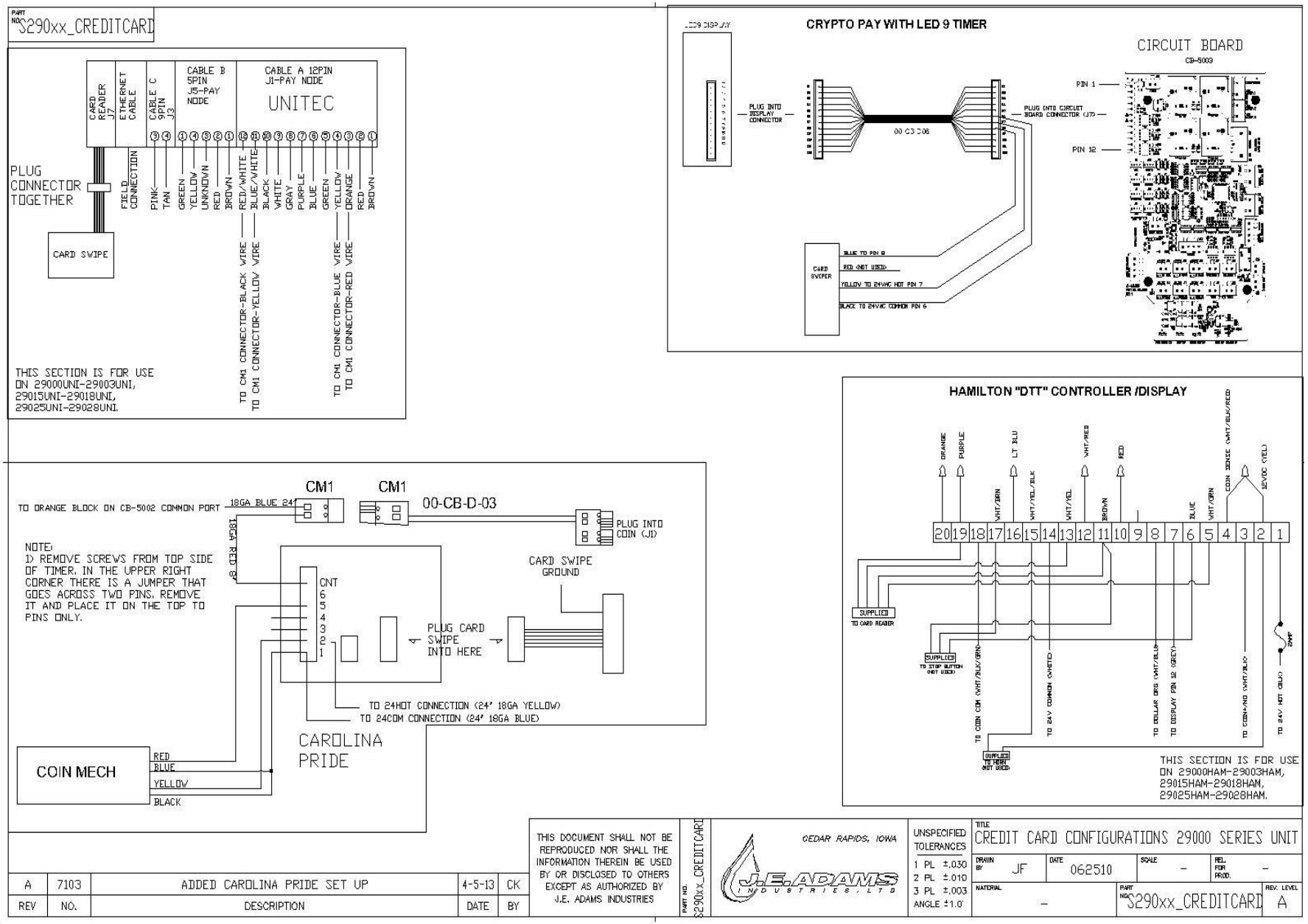
J.E. ADAMS INDUSTRIES, LTD

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

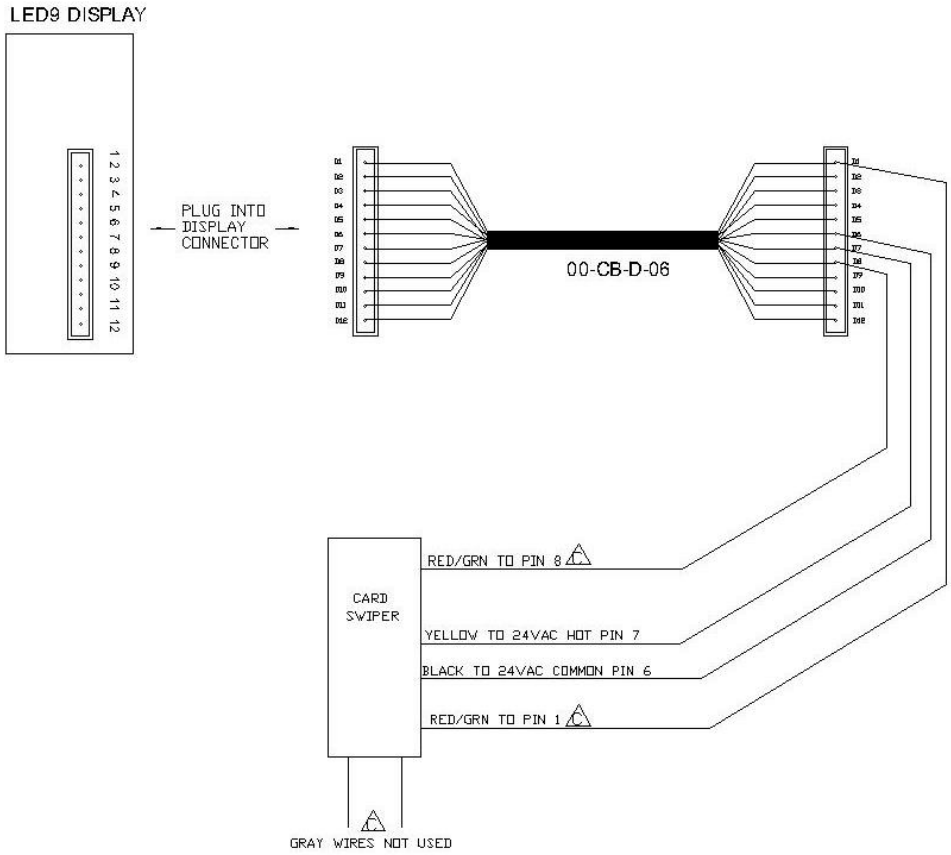
TITLE: UNIT TOP WIRING 29025 SERIES UNIT

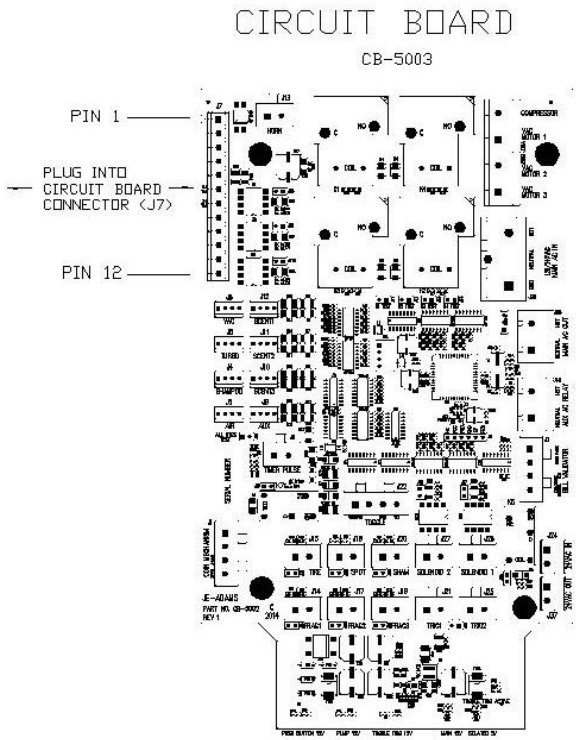
DRAWN BY	DATE	SCALE	REL. FOR PROD.
CK	4-09	–	–

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


PART NO. S290xx_CREDITCARD
CARD READER J7
ETHERNET CABLE
CABLE B 5PIN J5-PAY NODE
CABLE C 9PIN J3
CABLE A 12PIN J1-PAY NODE
UNITEC
FIELD CONNECTION
PLUG CONNECTOR TOGETHER
CARD SWIPE
PINK
TAN
GREEN
YELLOW
UNKNOWN
RED
BROWN
RED/WHITE
BLUE/WHITE
BLACK
WHITE
GRAY
PURPLE
BLUE
GREEN
YELLOW
ORANGE
RED
BROWN
TO CM1 CONNECTOR-BLACK WIRE
TO CM1 CONNECTOR-YELLOW WIRE
TO CM1 CONNECTOR-BLUE WIRE
TO CM1 CONNECTOR-RED WIRE
THIS SECTION IS FOR USE ON 29000UNI-29003UNI, 29015UNI-29018UNI, 29025UNI-29028UNI.
CRYPTO PAY WITH LED 9 TIMER
LED9 DISPLAY
PLUG INTO DISPLAY CONNECTOR
00-03-006
PLUG INTO CIRCUIT BOARD CONNECTOR (J7)
CIRCUIT BOARD
CB-5009
PIN 1
PIN 12
CARD SWIPER
BLUE TO PIN 8
RED (NOT USED)
YELLOW TO 24VAC HOT PIN 7
BLACK TO 24VAC COMMON PIN 6
TO ORANGE BLOCK ON CB-5002 COMMON PORT
18GA BLUE 24"
CM1
CM1
00-CB-D-03
PLUG INTO COIN (J1)
18GA RED 8"
NOTE:
1) REMOVE SCREWS FROM TOP SIDE OF TIMER. IN THE UPPER RIGHT CORNER THERE IS A JUMPER THAT GOES ACROSS TWO PINS. REMOVE IT AND PLACE IT ON THE TOP TO PINS ONLY.
CNT
6
5
4
3
2
1
CARD SWIPE GROUND
PLUG CARD SWIPE INTO HERE
TO 24HOT CONNECTION (24" 18GA YELLOW)
TO 24COM CONNECTION (24" 18GA BLUE)
CAROLINA PRIDE
COIN MECH
RED
BLUE
YELLOW
BLACK
HAMILTON "DTT" CONTROLLER /DISPLAY
ORANGE
PURPLE
LT BLU
WHT/RED
RED
WHT/BRN
WHT/YEL/BLK
WHT/YEL
BROWN
BLUE
WHT/ORN
COIN SENSE (WHT/BLK/RED)
REVOC (YEL)
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
SUPPLIED TO CARD READER
SUPPLIED TO STOP BUTTON (NOT USED)
SUPPLIED TO HOPR (NOT USED)
TO COIN COM (WHT/BLK/GRN)
TO 24V COMMON (WHITE)
TO DOLLAR SNS (WHT/BLU)
TO DISPLAY PIN 12 (GREY)
TO COIN+NO (WHT/BLK)
TO 24V HOT (BLK)
GND
THIS SECTION IS FOR USE ON 29000HAM-29003HAM, 29015HAM-29018HAM, 29025HAM-29028HAM.
A | 7103 | ADDED CAROLINA PRIDE SET UP | 4-5-13 | 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
PART NO. S290xx_CREDITCARD
CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD
UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°
TITLE
CREDIT CARD CONFIGURATIONS 29000 SERIES UNIT
DRAWN BY JF
DATE 062510
SCALE –
REL. FOR PROD. –
MATERIAL –
PART NO. S290xx_CREDITCARD
REV. LEVEL A

PART NO. CP SWIPE TO LED9





REV	NO.	DESCRIPTION	DATE	BY
C	7996	NEW WIRES COMING OUT OF CP SWIPE	050917	JRF
B	7327	ADDED THE LABEL "PIN 1" AND "PIN 12" ON CIRCUIT BOARD	092414	CK
A	7148	REVISE TO SHOW RED WIRE FROM CARD READER	081913	JF

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PART NO. CP SWIPE TO LED9

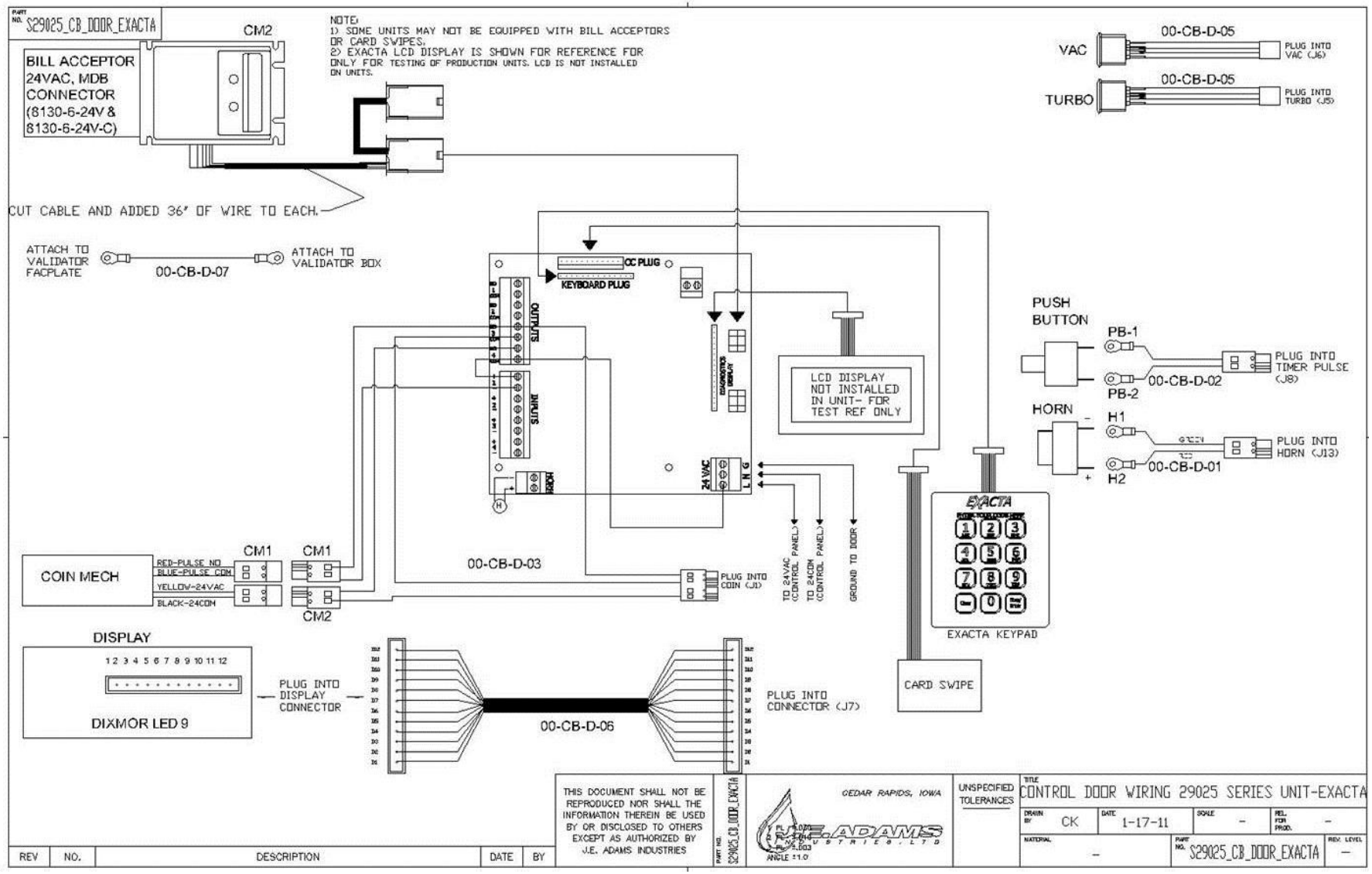
J.E. ADAMS INDUSTRIES, LTD — CEDAR RAPIDS, IOWA

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

TITLE: CRYPTOPAY SWIPER TO DIXMOR LED 9

DRAWN BY	DATE	SCALE	REL. FOR PROD.
JF	050212	–	–

MATERIAL	PART NO.	REV. LEVEL
–	CP SWIPE TO LED9	C


PART NO. S29025_CB_DOOR_EXACTA
CM2
BILL ACCEPTOR
24VAC, MDB
CONNECTOR
(8130-6-24V &
8130-6-24V-C)
NOTE:
1) SOME UNITS MAY NOT BE EQUIPPED WITH BILL ACCEPTORS OR CARD SWIPES.
2) EXACTA LCD DISPLAY IS SHOWN FOR REFERENCE FOR ONLY FOR TESTING OF PRODUCTION UNITS. LCD IS NOT INSTALLED ON UNITS.
CUT CABLE AND ADDED 36" OF WIRE TO EACH.
VAC
00-CB-D-05
PLUG INTO VAC (J6)
TURBO
00-CB-D-05
PLUG INTO TURBO (J5)
ATTACH TO VALIDATOR FACPLATE
00-CB-D-07
ATTACH TO VALIDATOR BOX
CC PLUG
KEYBOARD PLUG
OUTPUTS
INPUTS
DIAGNOSTICS DISPLAY
24 VAC
L N G
DOOR
LCD DISPLAY NOT INSTALLED IN UNIT- FOR TEST REF ONLY
PUSH BUTTON
PB-1
PB-2
00-CB-D-02
PLUG INTO TIMER PULSE (J8)
HORN
H1
H2
00-CB-D-01
PLUG INTO HORN (J13)
EXACTA
EXACTA KEYPAD
CARD SWIPE
COIN MECH
CM1
CM2
RED-PULSE NO
BLUE-PULSE COM
YELLOW-24VAC
BLACK-24COM
00-CB-D-03
PLUG INTO COIN (J1)
TO 24VAC (CONTROL PANEL)
TO 24COM (CONTROL PANEL)
GROUND TO DOOR
DISPLAY
1 2 3 4 5 6 7 8 9 10 11 12
DIXMOR LED 9
PLUG INTO DISPLAY CONNECTOR
00-CB-D-06
PLUG INTO CONNECTOR (J7)
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CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD
UNSPECIFIED TOLERANCES
TITLE
CONTROL DOOR WIRING 29025 SERIES UNIT-EXACTA
DRAWN BY CK
DATE 1-17-11
SCALE -
REL. FOR PROD. -
MATERIAL -
PART NO. S29025_CB_DOOR_EXACTA
REV. LEVEL -
REV NO. DESCRIPTION DATE BY