Models-   29050, 29050VR, 29051, 29051VR

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: *(29050-29051)*
Voltage: 120VAC, 60Hz
Amperage: (1) 30 amp dedicated service is required for this unit
Weight: 300 lbs with pallet attached

Vac specifications: *(29050-29051)*
Motors: (3) 120VAC Vacuum motor
Fuses: (3) 10 amp inline fuses

Blower specifications: *(29050-29051)*
Motor: (1) Tangential bypass 120VAC
Fuse: (1) 20 amp inline fuse
Heater: (1) 1200 watt

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:
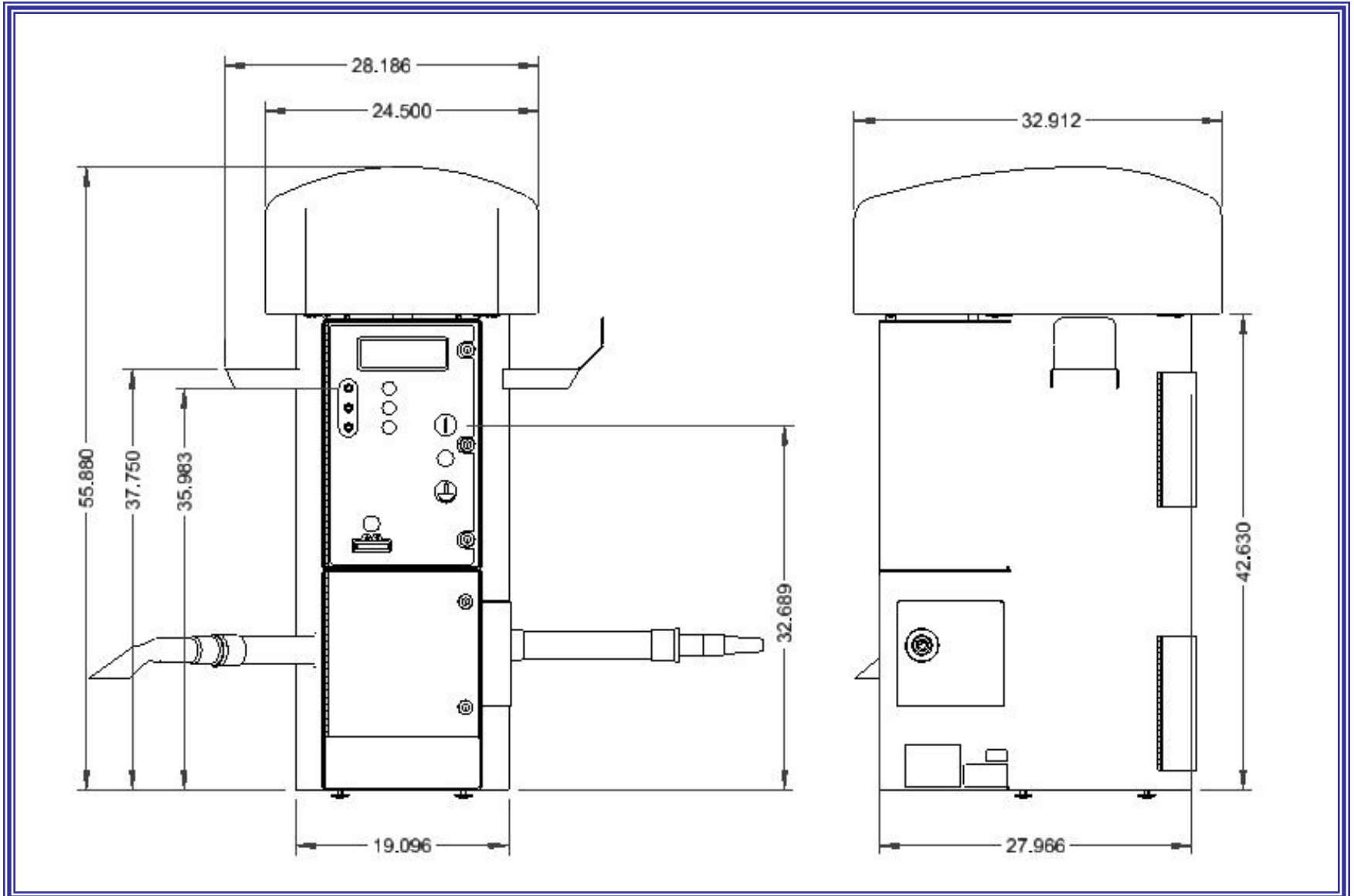
- Do not use on wet surfaces.
- Use only as described in manual. Use only manufactures recommended attachments.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair and anything that may reduce air flow.
- Keep hair, loose clothing, fingers, and all parts of body away from motor air intake, openings, and all 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.
- Use caution when touching the blower motor assembly after use – heater tube can become hot!
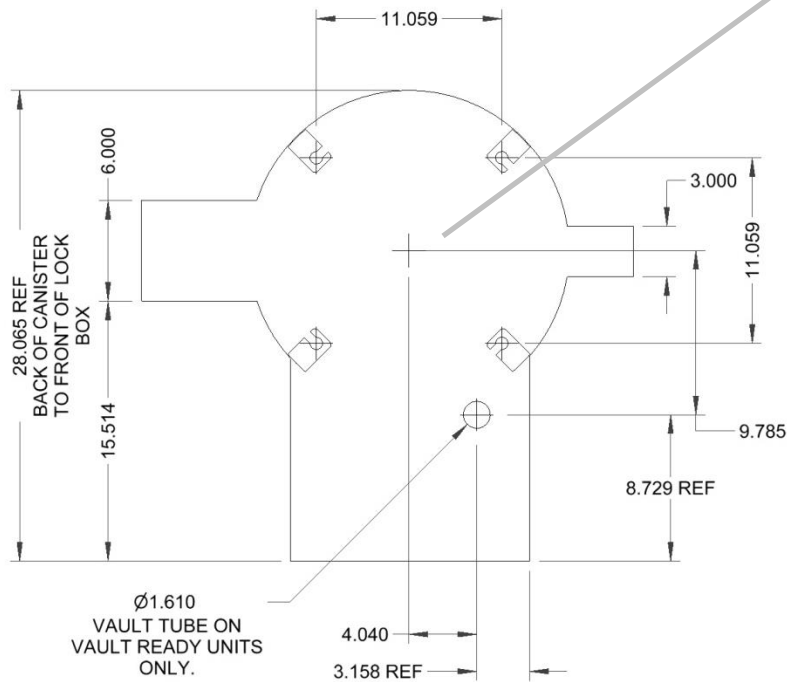
SAVE THESE INSTRUCTIONS

- **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.
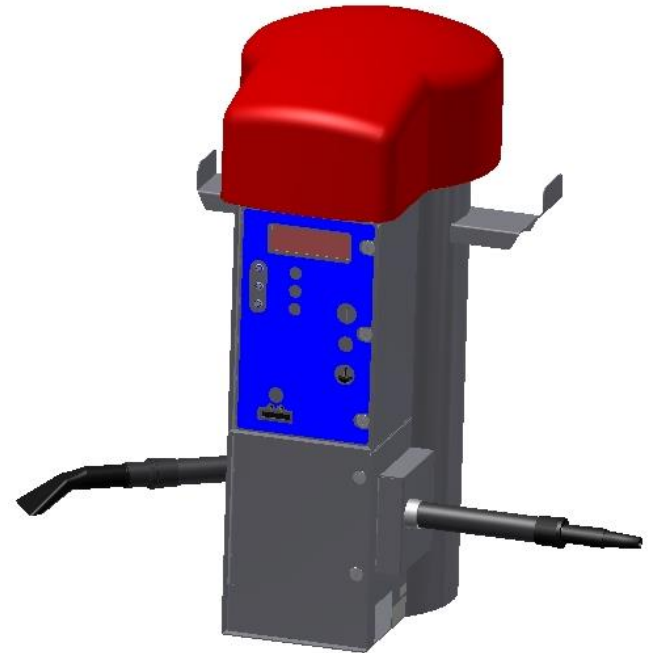- Licensed electricians are recommended for installation.

Product Dimensions

PLAN VIEW

Make electrical connection in this area.

11.059

6.000

3.000

28.065 REF
BACK OF CANISTER
TO FRONT OF LOCK
BOX

11.059

15.514

9.785

8.729 REF

Ø1.610
VAULT TUBE ON
VAULT READY UNITS
ONLY.

4.040

3.158 REF

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

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.

Connect
electric to
factory wires
under
vacuum can.

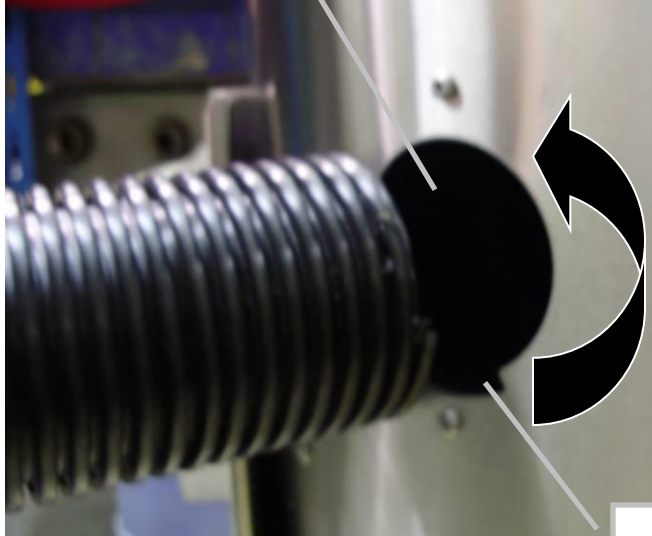To attach hose, thread into metal hole counter clockwise.

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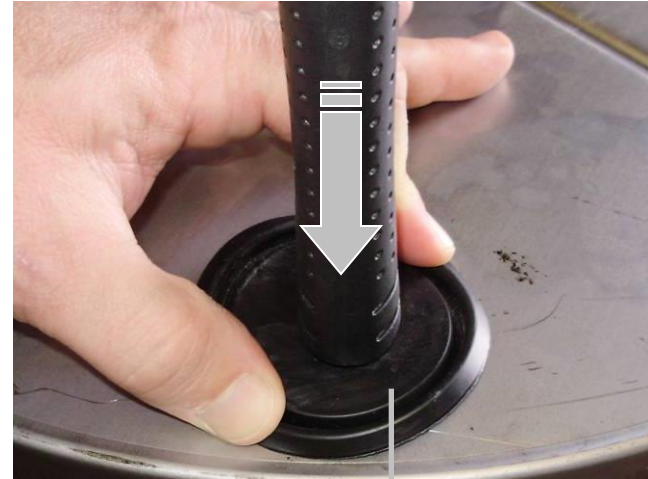
To insert 5871B8 cap plugs into bottom holes, pinch cap plug into place using index finger and thumb. With edges of plug resting against edges of hole, firmly push down on plug with end of hammer or other blunt object until plug snaps into place.

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.

<u>Bill acceptor:</u>

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.

<u>Display:</u>

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

<u>Display programming with remote:</u>

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 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.
7) Press the *CH +* button. Display will now read *C*. *C* is not used.
8) Press the *CH +* button. Display will now read (*D: 30*) or may be different time. (*D*) Will be the time per coin for **TURBO TOWEL**. Set desired time per coin by using the *VOL –* to decrease or the *VOL +* to increase. Once time is entered move to next step.
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 VAC* and (D) **TURBO TOWEL*.*
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.

REV 9-5-19

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.

End user operating instructions:

1) Use only for vehicle detailing.
2) Do not permit children to operate this unit.
3) Close supervision is necessary when using near children or those who need assistance.
4) Always hold onto nozzle tightly while in use.
5) Never leave unattended while in use.
6) Do not allow nozzle to come in contact with skin.
7) Never point air stream at others or self.
6) Allow a six inch minimum between nozzle and object to dry.
7) Use caution when directing air stream into tight crevices such as headlight assemblies, mirrors, dashboard, carpeting, etc.
 8) Never blow debris in the direction of others.

Servicing and maintenance
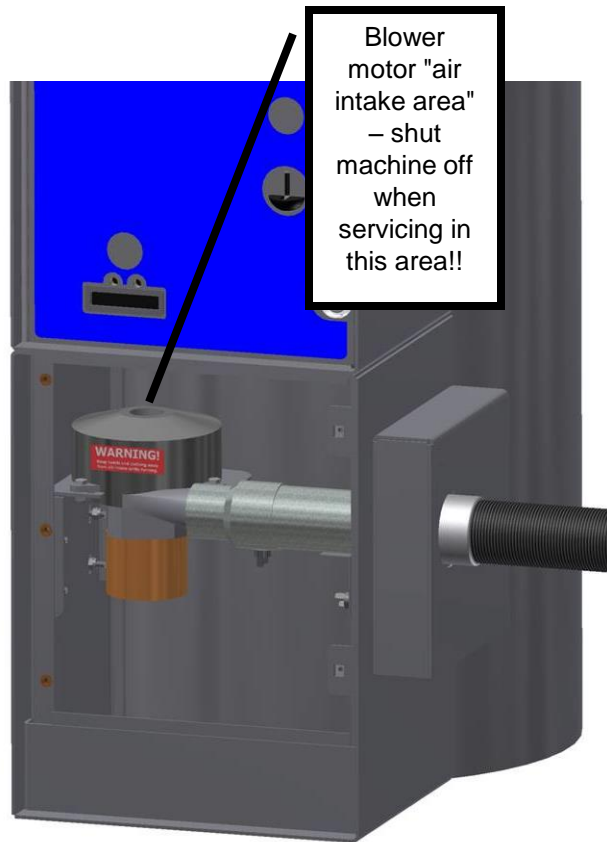
Blower motor "air intake area" – shut machine off when servicing in this area!!

WARNING!

WARNING!

External air intake area – make sure this area does not become obstructed – check internal vents periodically to make sure debris has not built up.

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 & blower hose for cracks on a weekly basis.
- If blower hose needs repair, threaded joints must be fastened using JB Weld epoxy. Hose clamp will need retightened after hose couplers get to full operating temperature (more pliable couplers allow clamp to seat).
- Clean canister with a stainless steel cleaner as needed. Decals can be cleaned with mild soap and water.
- Check motor brushes approx. every 2-3 months for excessive wear. Motor brushes should be changed if they are shorter than ¼". Failure to do this can cause damage to the motor. !*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.
Blower motor will not come on.	Motor brushes may be bad or too short.	Replace brushes with matching brushes - (Domel for Domel, Electro for Electro).
Blower heater will not come on.	Heater is controlled by 85 degree ambient air temperature thermostat. Heater will not come on if temperature is near this point or if unit has been ran and is warmed up.	No action required unless ambient air temperature is below 70 degrees and unit hasn't ran for a while. If so, unit may need serviced.

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

B
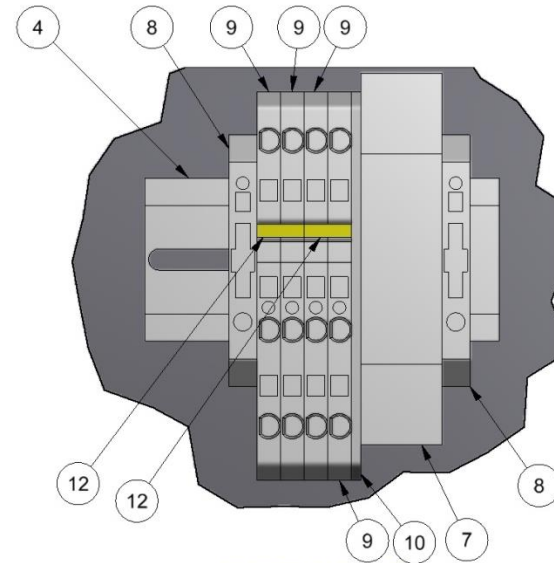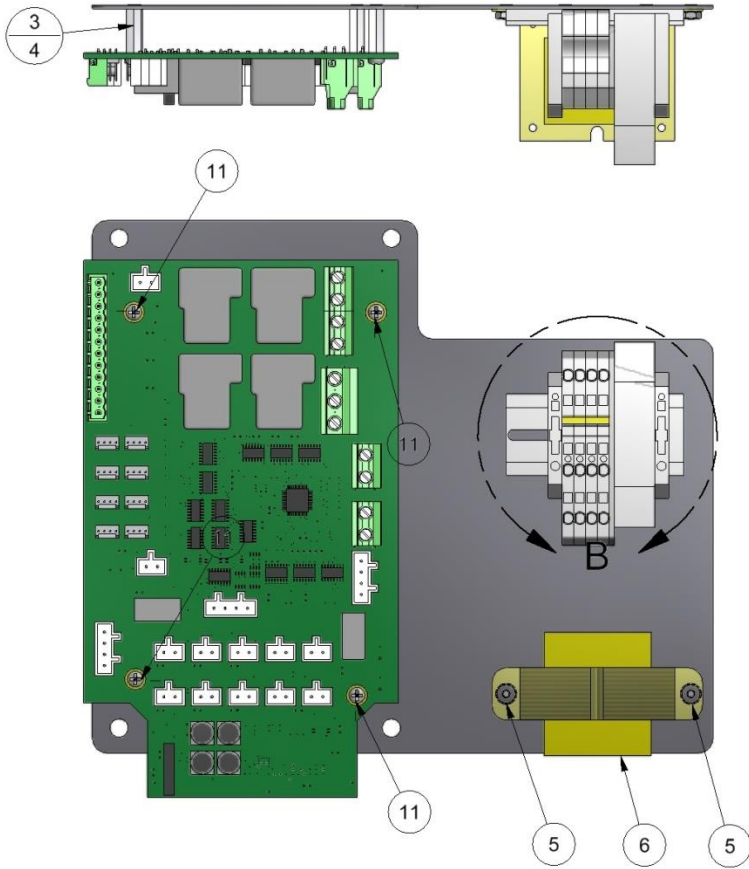
DETAIL B
SCALE 3 / 4

TITLE	CONTROL PANEL ASSEMBLY, CB-5003	

UNSPECIFIED TOLERANCES		MATERIAL	
1 PL	±.030	DRAWN BY	CHAD K.
2 PL	±.020	DATE	8/10/2015
3 PL	±.003	SCALE	SHEET 1 / 1
ANGLE	± 1°		

J.E. ADAMS INDUSTRIES, LTD.

PART NO 29000-5003A REV.

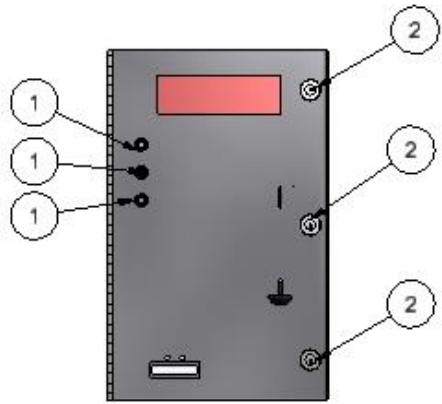| REV	NO.	DESCRIPTION	DATE	BY

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PART NO 29000-7CBA-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 S29000_CB_DOOR FOR 29000 UNIT OR S29035_CB_DOOR FOR A 29035 UNIT.

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.
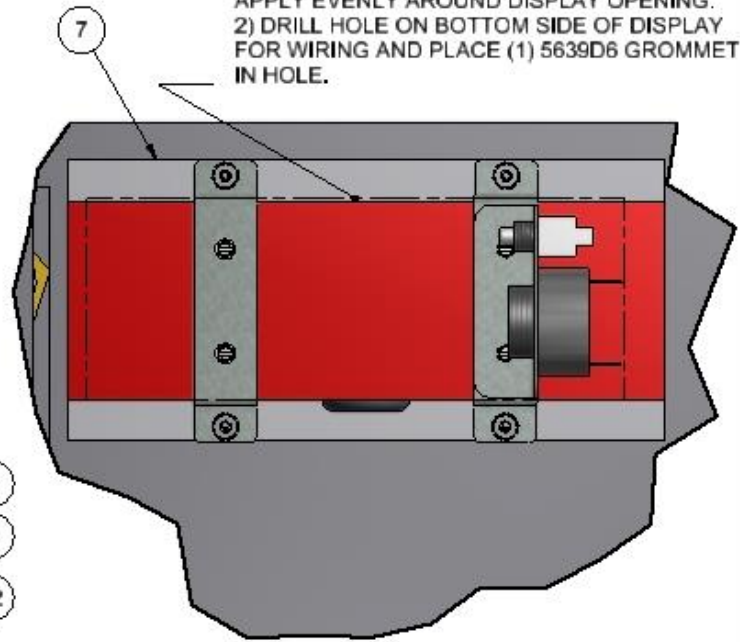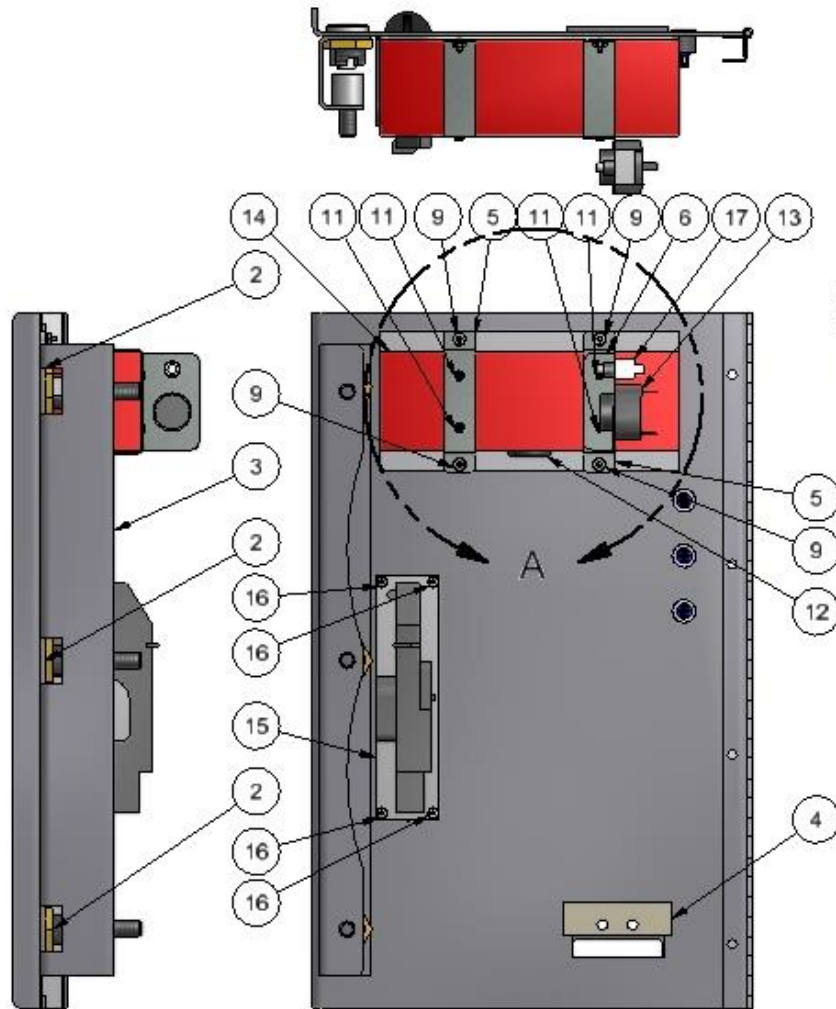
ITEM	PART NUMBER	DESCRIPTION	QTY
		BILL OF MATERIALS	
1	00-CB-D-05	BLUE PUSH BUTTON	3
2	22001-6A	PLUG LOCK, LARGE, WITH LOCK CORE	3
3	29000-100W	LOCK BRACKET WELDMENT	1
4	29000-199	GASKET, VALIDATOR MOUNT	1
5	29000-24	DISPLAY BRACKET	2
6	29000-25	HORN BRACKET	1
7	29000-34	LEXAN WINDOW	1
8	29000-7CBW-1	CONTROL DOOR WELDMENT, PLUG LOCKS	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

TITLE SHAMPOO DOOR ASSEMBLY-W/CB, PLUG LOCKS

UNSPECIFIED TOLERANCES		
1 PL ±.030	MATERIAL	CEDAR RAPIDS, IOWA
2 PL ±.010	SCALE	J.E. ADAMS INDUSTRIES, LTD
3 PL ±.003	DRAWN BY CHAD K.	
ANGLE ±1.0	DATE 11/9/2012	PART NO. 29000-7CBA-1 REV.

REV	NO.	DESCRIPTION	DATE	BY

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PART NO 29000-7CBA-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

TITLE	SHAMPOO DOOR ASSEMBLY-W/CB, PLUG LOCKS		

| UNSPECIFIED TOLERANCES		MATERIAL	CEDAR RAPIDS, IOWA
1 PL	±.030	SCALE	J.E. ADAMS INDUSTRIES, LTD
2 PL	±.010	DRAWN BY CHAD K.	
3 PL	±.003	DATE 11/9/2012	PART NO. 29000-7CBA-1 REV.
ANGLE ±1.0°			

REV	NO.	DESCRIPTION	DATE	BY

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BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
40	8055LEAD-EM	MOTOR LEAD	6
41	8057	MOTOR GASKET	3
42	8061-720-6	BRACKET, VAC MOTOR	1
43	8061-720-7W	HOSE COVER/GUARD WELDMENT	1
44	8061-WIRE-KIT	WIRE KIT, TURBO TOWEL	1
45	8061A-EM	TURBO TOWEL ASSY, 120V	1
46	8076	FILTER BAG	4
47	8108	#10 x 1/2 TAP SCREW	6
48	8153-1	LATCH, CLEANOUT DOOR	4
49	8157	NUT, #6-32 KEPP NUT STAINLESS	2
50	8159	DOOR GASKET	2
51	8183	DECAL, "DISCONNECT POWER"	2
52	8308R	PENINSULA DOME	1
53	8437D001	ETL DECAL, VACUUM	1
54	8615-5W	CLEANOUT DOOR WELDMENT	2
55	8630	CARDBOARD BOX	1
56	8732	NAMEPLATE SERIAL TAG, UL	1
57	8754	DECAL, DANGER, TRI-LING	1
58	8761-110	RELAY, 3PDT-120VAC-20A@1HP	1
59	8833-30A	FUSE HOLDER 30AMP	1
60	8925	FLOURESCENT BULB	3
61	8939	PALLET, DUAL, OVAL, SPECIALITY, 30" X 40"	1
62	B5722-002	NUT, 3/8-16 UNC HEX LOCK NUT	4
63	CB-03-WIREKIT	COMPLETE WIRE CABLE PACKAGE	1

BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	1034	WARNING LABEL, AIR BLOWER	1
2	1079-4	.062 X .75 FOAM TAPE, ADHESIVE 1 SIDE	25"
3	2036	HOSE, 2" X 15' BLACK VACUUM	1
4	2036-2	HOSE, 2" X 30' BLACK HIGH HEAT	1
5	2058	CLAW/CUFF ASSEMBLY, 2"	1
6	2058-5	TURBO TOWEL NOZZLE, HEAVY	1
7	28000-36	MOTOR MOUNT	6
8	29000-14A-1	DOOR ASSEMBLY, BOTTOM, PLUG LOCK	1
9	29000-30A	LIGHT BRACKET ASSEMBLY	1
10	29000-44A	BILL ACCEPTOR ASSEMBLY, PLUG LOCK	1
11	29000-47A	COIN BOX ASSEMBLY, PLUG LOCK	1
12	29000-5003A	CONTROL PANEL ASSEMBLY, CB-5003	1
13	29000-7CBA-1	SHAMPOO DOOR ASSEMBLY-W/CB, PLUG LOCKS	1
14	29000-ALLEN	3/8 ALLEN, 29000 PLUG LOCK SCREW	1
15	29050-1W	CANISTER WELD COMPLETE, PLUG LOCK	1
16	29050B-KIT	DECAL KIT, BLUE	1
17	5600D4	3/8-16 X 1.5 HHCS	4
18	5601D13	SCR,1/4-20x1/2 PPHSqConeStepZP	14
19	5601D4	1/4-20 x 3/4 HHCS-SS	3
20	5603D11	1/2 Std NF Nylock Nut	2
21	5603D2	1/4 Std NC Nylock Nut	7
22	5603D5	1/4 Std NC Nylock Nut	4
23	5606D10	WASHER, FLAT 1/2 SAE	2
24	5606D22	WASHER, 3/8 FENDER	8
25	5621D1	3/8 LOCK WASHER	4
26	5622D3	3/8-16 x .75 HEX HEAD	4
27	5635D1	1/4-20x1/2 CARRIAGE BOLT	8
28	5647D2	RIVET 1/8"	16
29	5647D8	RIVET 3/16	14
30	5871b8	PLUG, VAC BOTTOM 2-1/2"	8
31	5900D1	TERMINAL, INSUL BLU, PUSH ON	4
32	5900D3	TERMINAL, INSUL YEL, PUSH ON	4
33	5901D2	WIRE NUT, RED	1
34	5901D4	WIRE NUT, ORANGE	1
35	5943B3220	WIRE, 18G BLK	24"
36	5943B3229	WIRE, 18G WHT	17"
37	5943D3220	WIRE, 14G BLK	43"
38	5979D1	FUSE, 20AMP	1
39	8055EM	MOTOR, ELECTRO 115V	3
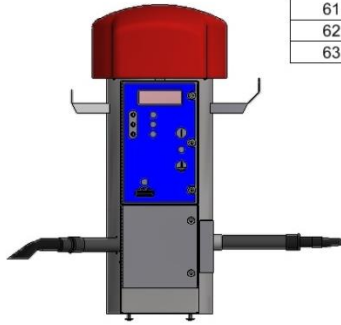
REV	NO.	DESCRIPTION	DATE	BY
G	7912	REVISE BOM FOR ELECTRO BLOWER MOTOR, ADD WIRE KIT	01-16-17	JRF
F	7761	REMOVED 5639D4 AND ADDED 29000-ALLEN	5-12-16	CK
E	7540	REMOVED 5900D3 (2), 29000-250A, 00-CB-WIREKIT / ADDED 29000-5003A, CB-03-WIREKIT	9-10-15	CK
D	7106	CHANGE DECAL KIT TO SHOW BLUE AS DEFAULT	041913	JF
C	7051	CHANGED UNIT FROM SCREW LOCKS TO PLUG LOCKS	11-26-12	CK
B	6906	ADD ETL, NAMEPLATE, AND WARNING DECAL	031912	JF
A	6691	ADD RELAY FOR TURBO TOWEL LOAD	111511	JF

TITLE: TURBO VAC, W/AIR BLOWER

CEDAR RAPIDS, IOWA

UNSPECIFIED TOLERANCES
1 PL ± .040
2 PL ± .020
3 PL ± .003
ANGLE ± 1°
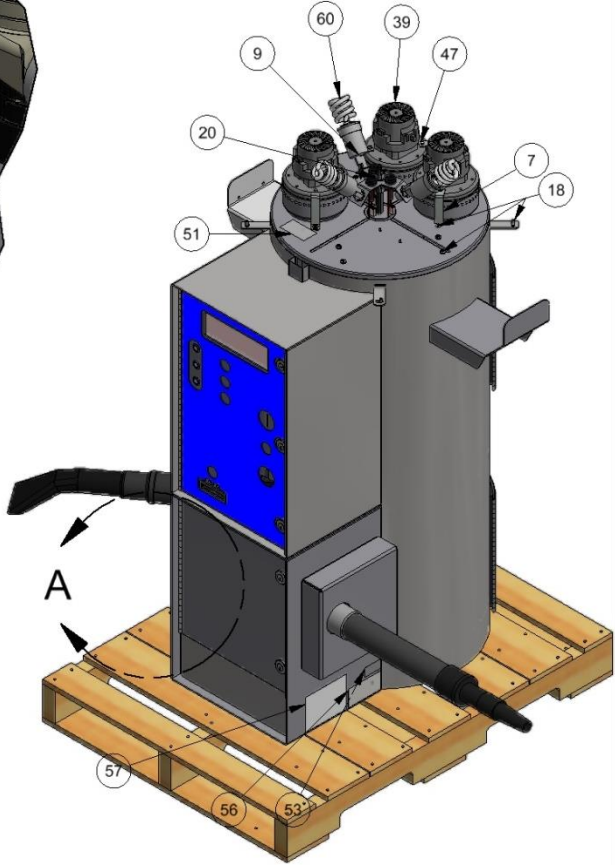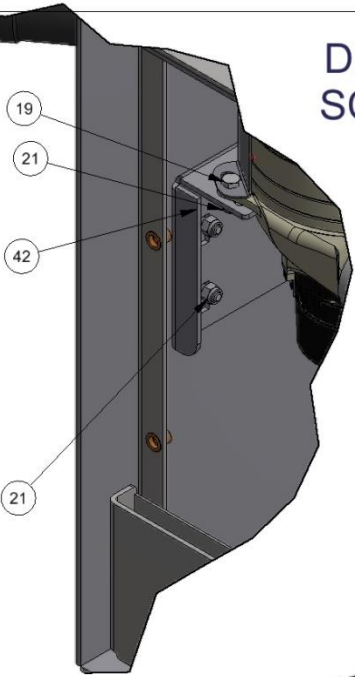
DRAWN BY: JOHN F
DATE: 7/20/2009

J.E. ADAMS INDUSTRIES, LTD

PART NO: 29050 REV: G SHEET 1 / 3
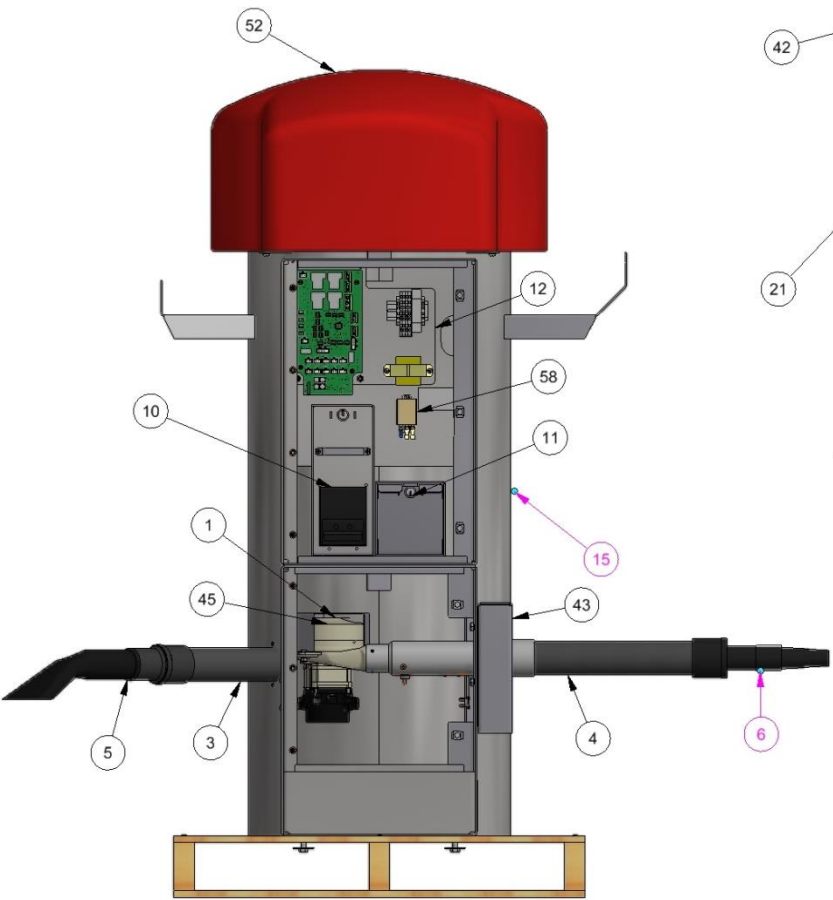
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PART NO: 29050

DETAIL A
SCALE 1/4

REV	NO.	DESCRIPTION	DATE	BY

TITLE: TURBO VAC, W/AIR BLOWER

CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

UNSPECIFIED TOLERANCES
1 PL ± .040
2 PL ± .020
3 PL ± .003
ANGLE ± 1°

MATERIAL

DRAWN BY: JOHN F
DATE: 7/20/2009

SCALE | SHEET 2 / 3 | PART NO 29050 | REV. G

18

CONTROL DOOR WIRING 29050 SERIES UNIT

ADDITIONAL WIRE NEEDED (RELAY/BLOWER):
10G BLACK - 27" (2) (RELAY 8/9 TO BLOWER BLK)
10G BLACK - 16" (2) (RELAY "6" TO T-8)
10G WHITE - 45" (T-6 TO BLOWER NEUTRAL)
18G WHITE - 17" (RELAY "B" TO J40)
18G BLACK - 15" (RELAY "A" TO J40)
14G BLACK - 16" (RELAY "4" TO T-7)
14G BLACK - 27" (RELAY "7" TO HEAT BLK)

REV	NO.	DESCRIPTION	DATE	BY
B	7540	UPDATED TO SWITCH FROM CB-5002 TO CB-5003	8-7-15	CK
A	6690	ADD RELAY FOR TT BLOWER/HEATER	111411	JF

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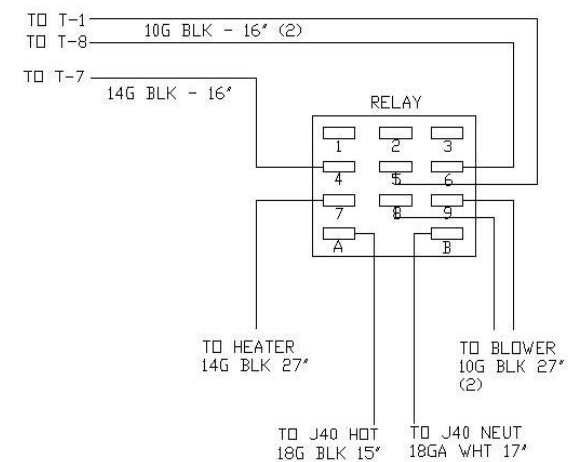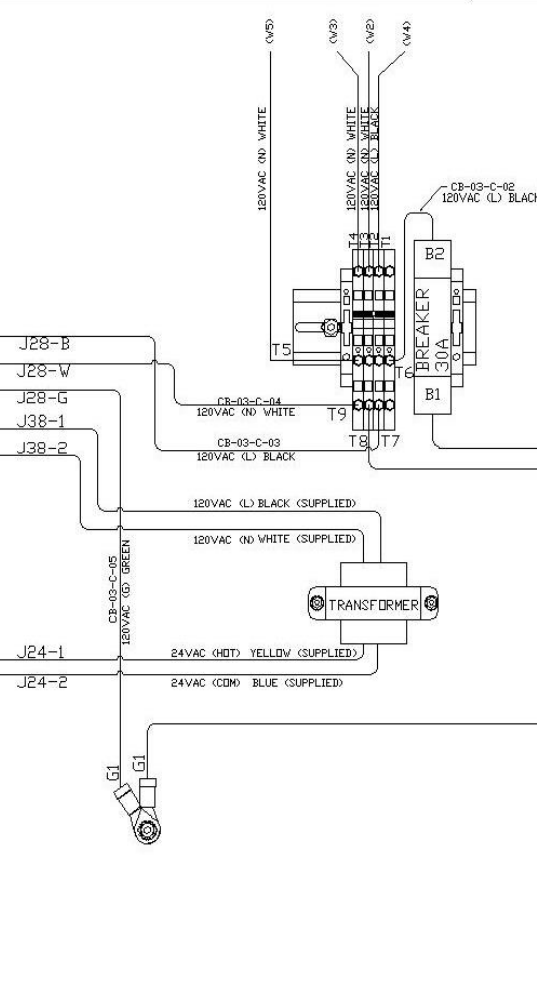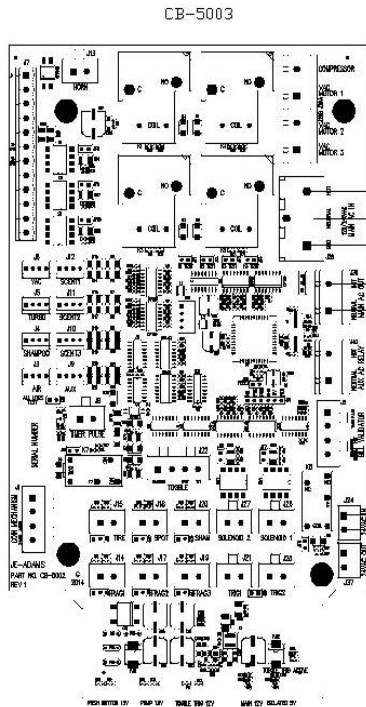
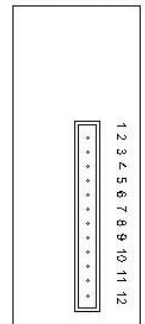CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

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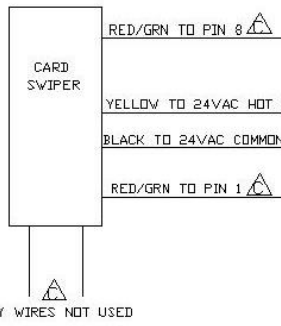3 PL ±.003
ANGLE ±1.0°

TITLE: CONTROL PANEL WIRING 29050 SERIES UNITS

DRAWN BY: JF   DATE: 7-09   SCALE: —   REL FOR PROD: —

MATERIAL: —

PART NO.: S29050_CB_CONTROL   REV. LEVEL: B

VAC 2

VAC 1

GROUND TO
TOP

GROUND TO
TOP

VAC 3

RED (SUPPLIED)
RED (SUPPLIED)
RED (SUPPLIED)

W13   W12   W11

INLINE FUSE 10 AMP
INLINE FUSE 10 AMP
INLINE FUSE 10 AMP

GROUND TO TOP

120VAC (N)
120VAC (N)
120VAC (N)

LIGHT 1

LIGHT 2

BLACK (SUPPLIED)
BLACK (SUPPLIED)
BLACK (SUPPLIED)

W8   W7   W6

BLACK (SUPPLIED)

LIGHT 3

BLACK (SUPPLIED)

120VAC (L)
120VAC (L)
120VAC (L)

CB-03-T-06
CB-03-T-06
CB-03-T-06

BLACK (SUPPLIED)
BLACK (SUPPLIED)
BLACK (SUPPLIED)

120VAC (L)
120VAC (L)

120VAC (N)
120VAC (N)
120VAC (N)

WHITE (SUPPLIED)
WHITE (SUPPLIED)
WHITE (SUPPLIED)

W5   W4   W3

CB-03-T-05

CB-03-T-04

CB-03-T-03

TO T5

TO T2

TO T4

PLUG INTO MOTOR (J29)

PART NO.   S29050_CB_TOP

CEDAR RAPIDS, IOWA

J.E. ADAMS
INDUSTRIES, LTD

UNSPECIFIED TOLERANCES		TITLE	UNIT TOP WIRING 29050 SERIES UNIT			
1 PL ±.030		DRAWN BY JF	DATE 7-09	SCALE –	REL. FOR PROD. –	
2 PL ±.010		MATERIAL				
3 PL ±.003			–		PART NO. S29050_CB-TOP	REV. LEVEL
ANGLE ±1.0°						A

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

LED9 DISPLAY

1 2 3 4 5 6 7 8 9 10 11 12

PLUG INTO
DISPLAY
CONNECTOR

00-CB-D-06

CIRCUIT BOARD

CB-5003

PIN 1

PLUG INTO
CIRCUIT BOARD
CONNECTOR (J7)

PIN 12

CARD
SWIPER

RED/GRN TO PIN 8

YELLOW TO 24VAC HOT PIN 7

BLACK TO 24VAC COMMON PIN 6

RED/GRN TO PIN 1

GRAY WIRES NOT USED
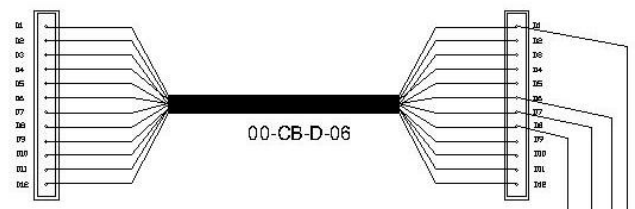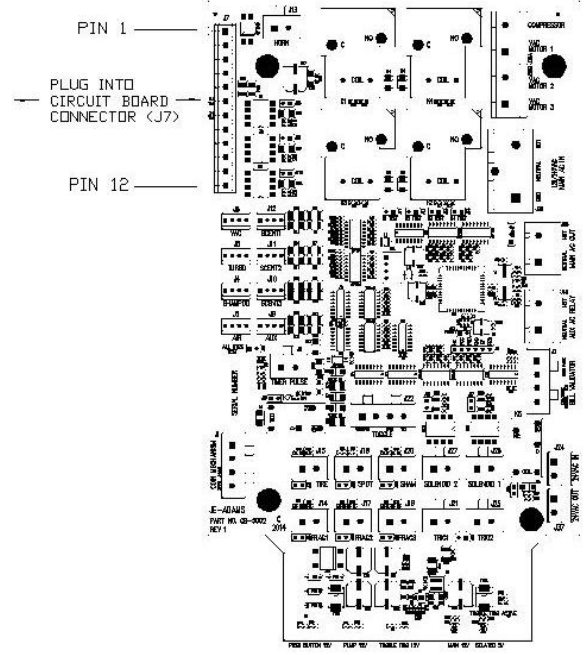
C	7996	NEW WIRES COMING OUT OF CP SWIPE	050917	JRF
B	7327	ADDED THE LABEL "PIN 1" AND "PIN 12" ON CIRCUIT BOARD	092414	CK
A	7148	REVISE TO SHOW RED WIRE FROM CARD READER	081913	JF
REV	NO.	DESCRIPTION	DATE	BY

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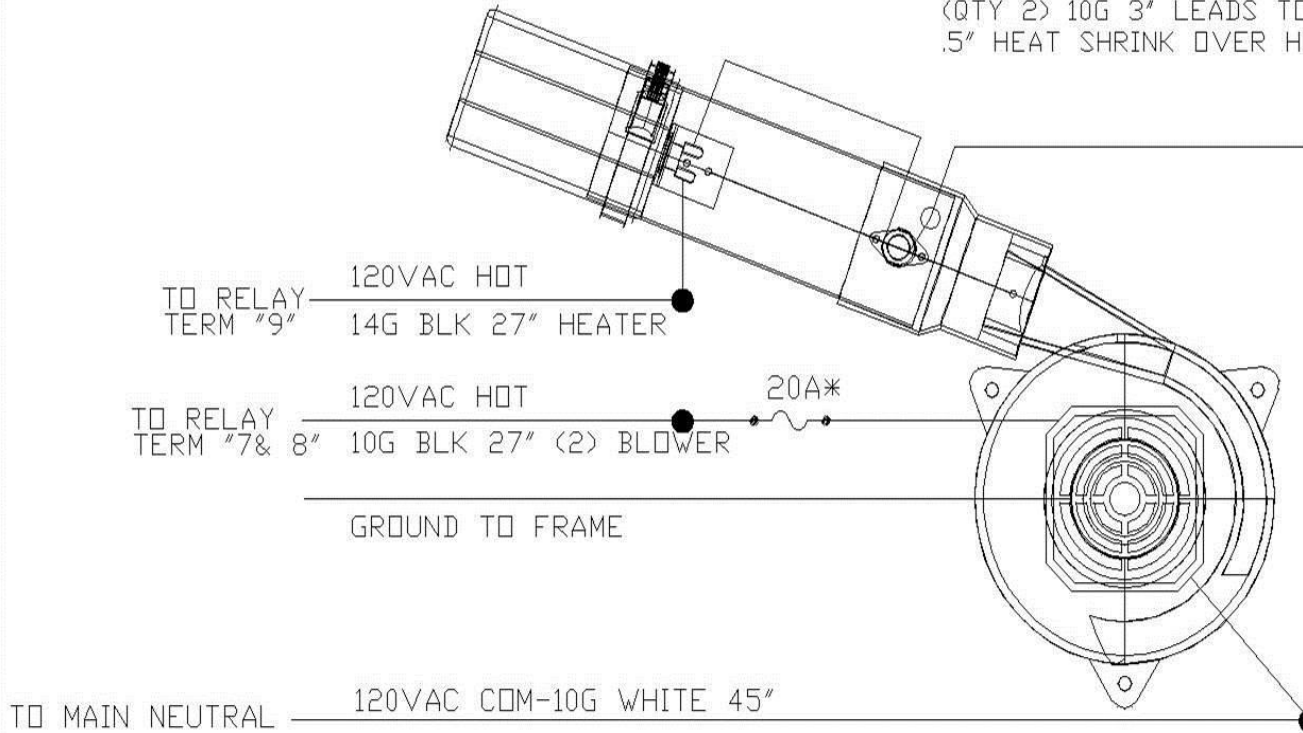EXCEPT AS AUTHORIZED BY
J.E. ADAMS INDUSTRIES

CP SWIPE TO LED9

J.E. ADAMS
INDUSTRIES, LTD

CEDAR RAPIDS, IOWA

UNSPECIFIED TOLERANCES		TITLE	CRYPTOPAY SWIPER TO DIXMOR LED 9			
1 PL ±.030	DRAWN BY	JF	DATE	050212	SCALE	–	REL. FOR PROD.	–
2 PL ±.010						
3 PL ±.003	MATERIAL			PART NO.	CP SWIPE TO LED9	REV. LEVEL
ANGLE ±1.0°		–				C

*USE 8833-30A FUSE HOLDER, SOLDER
(QTY 2) 10G 3" LEADS TO HOLDER, USE
.5" HEAT SHRINK OVER HOLDER BODY.

TO RELAY
TERM "9"   120VAC HOT
             14G BLK 27" HEATER

TO RELAY
TERM "7& 8" 120VAC HOT
             10G BLK 27" (2) BLOWER   20A*

GROUND TO FRAME

TO MAIN NEUTRAL 120VAC COM-10G WHITE 45"

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J.E. ADAMS INDUSTRIES

PART NO. S29050_CB_DRYER

CEDAR RAPIDS, IOWA

J.E. ADAMS
INDUSTRIES, LTD

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

TITLE WIRE DIAGRAM, 29050 DRYER ASSEMBLY

DRAWN BY	DATE	SCALE	REL. FOR PROD.
JF	7-09	—	—

MATERIAL —

PART NO. S29050_CB_DRYER   REV. LEVEL A

A	6690	ADD RELAY TO CIRCUITRY FOR TT LOAD	111411	JF
REV	NO.	DESCRIPTION	DATE	BY