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J.E. ADAMS INDUSTRIES OWNERS MANUAL

#### MODEL 28000-28003

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REV-A

# **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 canister. 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#:	
<b>KEY NUMBER(S):</b>	
DATE PURCHASED:	
DISTRIBUTOR:	

J.E. Adams Industries 1025 63<sup>rd</sup> Ave. S.W. Cedar Rapids, IA 52404 1-800-553-8861 <u>www.jeadams.com</u>

# SPECIFICATIONS:

<u>Unit specifications:</u> Voltage: Amperage: Weight:	120V, 60Hz (1) 30 amp service is required for this unit 368 lbs with pallet attached
<u>Vac specifications:</u> Motors: Fuses:	<ul><li>(3) Ametek 120V motors</li><li>(3) 10 amp inline fuses</li></ul>
<u>Shampoo specifications:</u> Compressor: Peristaltic pump:	<ul> <li>(1) Thomas 120V, 1/12<sup>th</sup> HP compressor</li> <li>(2) Thomas peristaltic pumps, 12VDC</li> </ul>
<u>Fragrance specifications:</u> Compressor: Peristaltic pump:	<ul> <li>(1) Thomas 120V, 1/12<sup>th</sup> HP compressor</li> <li>(3) Thomas Peristaltic pumps, 12VDC</li> </ul>
<u>Air:</u> Compressor:	(1) 3/4HP Twin head Thomas compressor

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.
- 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.

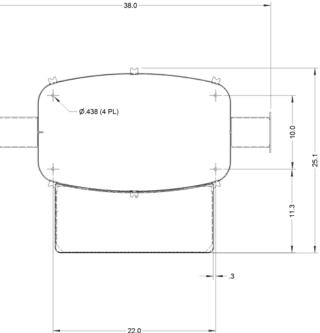
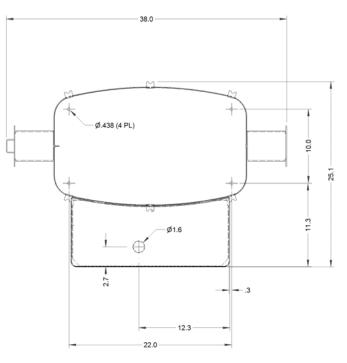


FIG 1





#### **Operating Instructions:**

- Once unit is installed and power is applied, open top door of unit and flip breaker switch to the on position.
- Program display either by hand held remote (Sold Separately) or by buttons located on the back of the display. It is recommended that a hand held programmer be purchased. Programmer is much faster than push button method. See section in manual called **Programming** instructions for proper set-up.
- Attach vacuum hose to unit.
- Fill scent bottles in lower compartment and insert the appropriate line into each bottle and screw on lid tightly. (Not applicable on all models)
- Insert the appropriate line into the shampoo and spot formula bottles and screw caps onto bottles tightly. (Not applicable on all models)
- Activate unit and make sure the vacuum works properly.
- Activate the air function and make sure it works properly. (Not applicable on all models)
- Activate the scent. When activated the scent it is best to run one fragrance until it starts to spray. Then repeat for each additional fragrance. This will ensure each line is primed and ready for use.
- Activate the shampoo/spot function. It is recommended that you run the shampoo function until the solution starts to exit the gun assembly. Repeat the same process for the spot remover as well. This will ensure that both lines are primed and ready for use.
- Attach any decals such as fragrance labels and price decals at this time.
- Unit should be ready for use.

### **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). It 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:

<u>Note 1:</u>

28000 unit	28001 UNIT	28002 UNIT	28003 UNIT
A= VAC	A = VAC	A = VAC	A = VAC
B= TURBO	B= TURBO	B= TURBO	B= SHAMP/SPOT
C= SHAMP/SPOT	C = SHAMP/SPOT	C= SHAMP/SPOT	C = SCENT
D= AIR	D=SCENT		
E= SCENT			

- 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 read \$.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 *A*. 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) Repeat step 5 for additional B thru F functions. (Not all functions applicable see NOTE 1 above.
- Press the *CH* + button. Display will now read (on A). This is the number of coins to start *A*. Use the *VOL* and *VOL* + to adjust. Once this is done press the *CH*+ button and repeat for B thru F if applicable, see NOTE 1.

- 8) Press the **CH** + button. Display will read bonus time. Set if desired. See explanation at the end programming instructions.
- Press the *CH* + button. Display will read debit mode. Set if desired. See explanation at the end programming instructions.
- 10)Press the *CH* + button. Display will read delayed start. Set if desired. See explanation at the end programming instructions.
- 11)Press the *CH* + button. Display will read *HLxx*. Set if desired. See explanation at the end programming instructions.
- 12)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.
- 13)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.

14)Press the CH + button now 5 more times to exit programming.

15) 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. 16<sup>th</sup> coin, 32<sup>nd</sup> coin, etc). Any other coin will 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 reached. Once start price is reached display switches to time accumulating until no more coins have been deposited.
  - Credit mode: As coins are deposited display shows money accumulating (\$.25, \$.50, \$.75 etc). If timer is also set to delayed start mode timer will continue to show money accumulating until no more coins have been deposited. If timer is set to instant start, 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*.

# 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:

- 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". *Disconnect power before doing this.*
- Check all shampoo lines and assembly for any signs of wear.
- 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)		
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)		
	Cleanout door gaskets torn or worn	Replace gaskets (8159)		
Unit has shut down For no apparent reason	This unit has a reset thermal limiter in the compressor. Unit may have shut down due to excessive heat	Turn off power to the machine and wait for a period of 5 minutes. Reapply power and activate machine.		

PART NÖ.	200	200			BILL OF MATERIALS			BILL OF MATERIALS	
	280	000	- P		PART NUMB DESCRIPTION 3915B DOME, OVAL, BLUE	QTY 1	1 1079-3	DESCRIPTION DOOR GASKET	QTY 179"
NOTE:			H	61	3920-4 OVAL DIRT BIN	$\pm \frac{1}{1}$		FLEX TRIM DOOR SEAL	6FT
		ME USING (6) OF PART SHOWN ON PRINT.	E	62	3925 FLOURESCENT BULB	4	3 11000-15	SHAMPOO BRUSH ASSEMBLY	1
0921-74	V. NOT S	SHOWN ON PRINT.		63	3939 VAC PALLET	1		UNION FITTING 1/8"	1
			-		MEDECO CAM LOCK W/2 KEYS	4		UNION FITTING 3/16"	$+\frac{1}{1}$
			-	65 66	3958-1 MEDECO SCREW LOCK 9500WIN WINTER SHAMPOO FORMULA	$+\frac{1}{1}$	6 11000SPOT 7 2036	SPOT REMOVER FORMULA BLACK HOSE 2 x 15	+
			F	68	35996-010 10 AMP FUSE	3	8 2056-BLACK	BLACK CLAW	$\pm 1$
				69	35997-001 FUSE BASE	3	9 28000-153	WAGO TERMINAL JUMPER	9
		(358) 1 1		70	8859 NEW CAR SCENT 8865 VANILLA SCENT	1	10 28000-158	DECAL SET- CANISTER COMPLETE MULTIUNIT WELDMENT	1
			-	71 72	3865 VANILLA SCENT 3857 WILD CHERRY SCENT	+1	11 28000-1W 12 28000-22W	BOTTOM DOOR WELDMENT	
			H		1009 COIN FUNNEL	+ +	13 28000-22W	COIN BOX ENTRY DOOR WELDMENT	
			E	74	3549-1 FLEX RELIEF	1	14 28000-24W	COIN BOX WELDMENT	1
				76	5636D1 #10-24 PHIL. PAN HEAD SCREW	8	15 28000-36	MOTOR MOUNT	6
			L	77	3921-11 CLAMP, WELD COMPLETE	6	16 28000-37A	COMPRESSOR ASSEMBLY	1
			-	78 79	28000-50A-1 PUMP ASSEMBLY 5639D9 ISOLATION MNT, 30 DUR NEOPRENE,	1	17 28000-39W	LIGHT BRACKET WELDMENT	4
				19	5639D9 ISOLATION MNT, 30 DUR NEOPRENE, 1/4-20	4	18 28000-40 20 28000-51	PLASTIC CONTAINER FLEX TUBING	42.5"
			F	81	3597 5/16 WASHER	4	21 28000-53	NONMETALLIC TUBE FITTING	42.5" 3
			E	82	5603D2 1/4 Std NC Nylock Nut	4	22 28000-53B	SWIVEL CONNECTOR	Ĩ
			Г	83	9859 3/4 HP TWIN HEAD THOMAS	1	24 28000-85A	TOP TEMINAL STRIP ASSEMBLY	1
			-	0.4	COMPRESSOR 5800D6 90 DEG. NPT STREET ELBOW	1	25 28000-90A 26 28000-91	RELAY CONTROL ASSEMBLY COVER-RELAY CONTROL	+1
			L	64	5800D6 90 DEG. NPT STREET ELBOW			MAIN CONTROL ASSEMBLY	$+\frac{1}{1}$
								COVER- MAIN CONTROL	+++
							29 28000-96A	AIR SOLENOID ASSEMBLY	2
							30 28000-99A	MAIN DOOR ASSEMBLY	1
		0 0					32 5601D6	1/4-20 x 1/2 HHCS-SS	12
								1/4 WASHER	6
								1/4-20 x 1/2 PHIL PAN HEAD SCREW HHCS	4
		0 0 U						ORANGE WIRE NUT	
							41 5917D1	LAMP BASE	11 4
								16GA BLACK WIRE	172"
							43 5943C3225	16GA GREEN WIRE	73"
								12GA BLACK WIRE 12GA WHITE WIRE	4 172" 73" 43" 24"
							46 7122-RV1	NORGREN VALVE	24
							47 8000-24	5 PIN MALE CONNECTOR	3
							48 8055	MOTOR, AMETEK 115V	3
							49 8057	MOTOR GASKET	3
1	5225	REMOVED 9857, (4) 8036 AND 958-1A; ADD 9859 AND 5800D6	6-09	СК			49 8057 50 8076 51 8084	FILTER BAG WIRE TIE	4 30
н	4749	REMOVED 8915 AND ADDED 8915B	8-08	ск			52 8108	#10 x 1/2 TAP SCREW	6
G	4029	REMOVED (4) 5632D5, (4) 5603D3 AND (4) 5639D3	12-07	ск			53 8532-25 54 8533-10	AIR HOSE 25FT WHIP ASSEMBLY	1
		ADDED (4) 5639D9, (4) 5603D2, (4) 8597 AND (4) 8036		511			55 8596	NUT	4
F	3815	RECONSTRAINED COMPONNETS IN PART MODEL, TOP OF UNIT	6-07	СК			56 8597	WASHER 5/16 LOCK WASHER	4
A	3644	REMOVED 28000-50A AND ADDED 28000-50A-1	4-07	СК			59 8898-1	SCENT HOSE ASSEMBLY	
D	3109	REMOVED (16) 5647D8 RIVETS; ADDED (8) 5636D1 #10-24 SCREWS	8-06	СК			TITLE		
с	2955	ADDED PURGE SOLENOID TO AIR LINE	6/06	CAI				MULTI UNIT ASSEMBLY	
В	2829	REMOVED 8898 AND ADDED 8898-1 AND 8549-1	5-06	СК			UNSPEC	vces	NDS, KOWA
A	2483	ADDED 1009 TO BILL OF MATERIAL	10-05	ск					MB STA
REV	NO.	DESCRIPTION	DATE	BY			2 PL ± 3 PL ±	BY Chadk	REV.
		UMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION THERE OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY J.E. ADAMS INDUST			SHEET 1 OF 6		3 PL ± ANGLE ±	DATE NO. 20000	I
L									

