

Models- 17000, 17000V, 17000VR, 17000V-VR, 17000-220V, 17000VR-220V, *"Turbo Towel"* 

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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:	

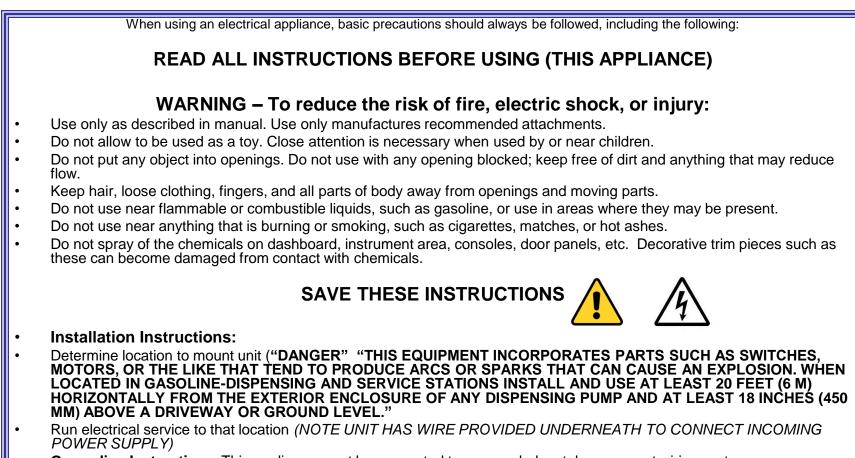
J.E. Adams Industries 1025 63rd Ave. S.W. Cedar Rapids, IA 52404 1-800-553-8861 www.jeadams.com

## **Specifications**

·	
120 Volt models	
Unit specifications:	17000, 17000V, 17000VR, 17000V-VR
Voltage:	120vac, 60hz
Amperage:	(1) 30 amp service is required for this unit
Weight:	150 lbs packaged
Blower specifications	
	ance 120vac, 60hz, includes (1) 20 amp in-line fuse.
Heater – 120vac, 60hz, He	eavy duty nichrome wire
220 Volt models*	
	17000 17000\/P
Unit specifications:	17000, 17000VR
Voltage:	220vac, 50hz
Amperage:	(1) 20 amp service is required for this unit
Weight:	150 lbs packaged
Blower specifications	
	ance 220/240vac, 50hz, includes (1) 10 amp in-line fuse.
	z, heavy duty nichrome wire
*220V units are available in	n non-bill validator models only.
	DUTY CYCLE: 6 minutes on, 4 minutes off.

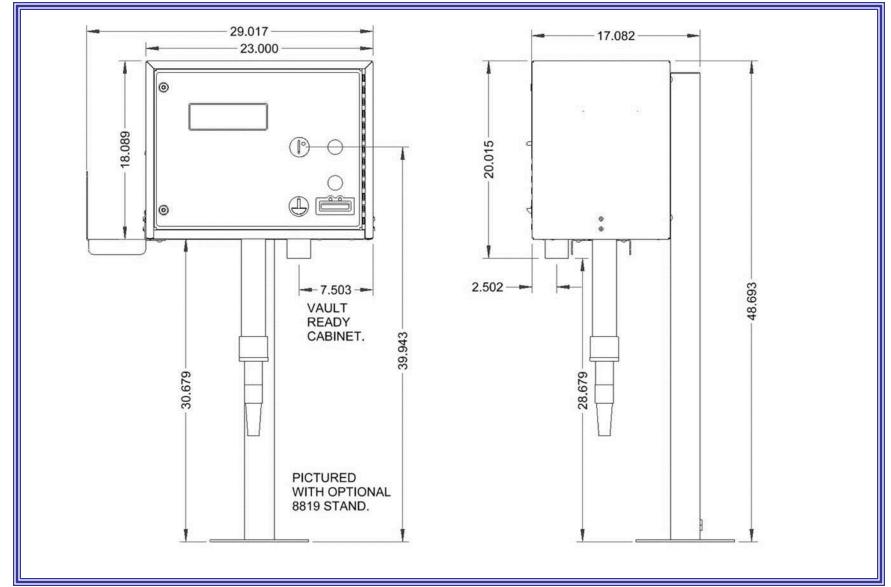
### NOTE: "UNIT INTENDED FOR COMMECIAL USE ONLY"

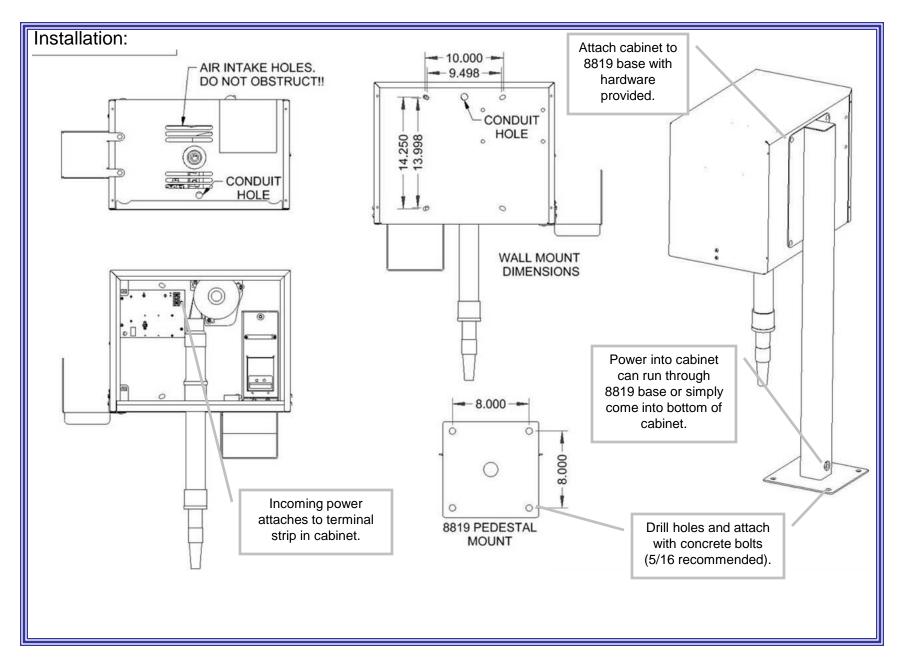
### **IMPORTANT SAFETY INSTRUCTIONS**



- **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**





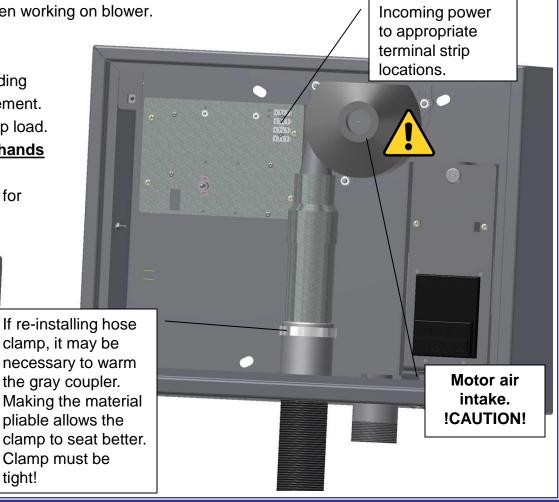
#### **INSTALLATION / SAFETY INSTRUCTIONS:**

- 1) Always use a qualified electrical and mechanical personnel for installation and maintenance of equipment.
- 2) Disconnect electrical power before working on the system.
- 3) Make sure the motor is electrically grounded, the mounting bolts are properly secured, and all guards are in place during operation.
- 4) Wear safety glasses and earplugs when working on blower.
- 5) Do not operate blower motor with the outlet open to the atmosphere. Connect system exhaust hose to prevent overloading the motor and damage to the heating element. Check the final installation for proper amp load.
  6) Keep all tools, loose clothing, and hands

#### away from motor air intake.

7) Inspect the blower at regular intervals for damage or worn parts. Replace parts immediately – never operate a unit with damaged parts.

8) Use only genuine OEM replacement parts.



- 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.

#### Set-Up and operation:

- NOTE: To open door locks, insert key and turn counter clockwise about 10-12 rotations.
- Apply desired pricing decals to door.

#### **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 be \$.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 *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.
- 6) Press the CH + button. Display will now read B. B is not used.
- 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 Turbo Towel. Use the VOL and VOL + to adjust. Once this is set continue on to the next step.
- 12) Press the **CH** + button until display reads 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 buttons on back of display:

- 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*.

### Machine Operating Instructions:

- 1) Read safety instructions on previous pages.
- 2) Hold nozzle in hand.
- 3) Insert coins or bills to start.
- 4) Machine will start and air will begin to blow.
- 5) For best results, start at the top of the car and blow water downward.
- 6) Hang hose up when finished.

#### Maintenance:

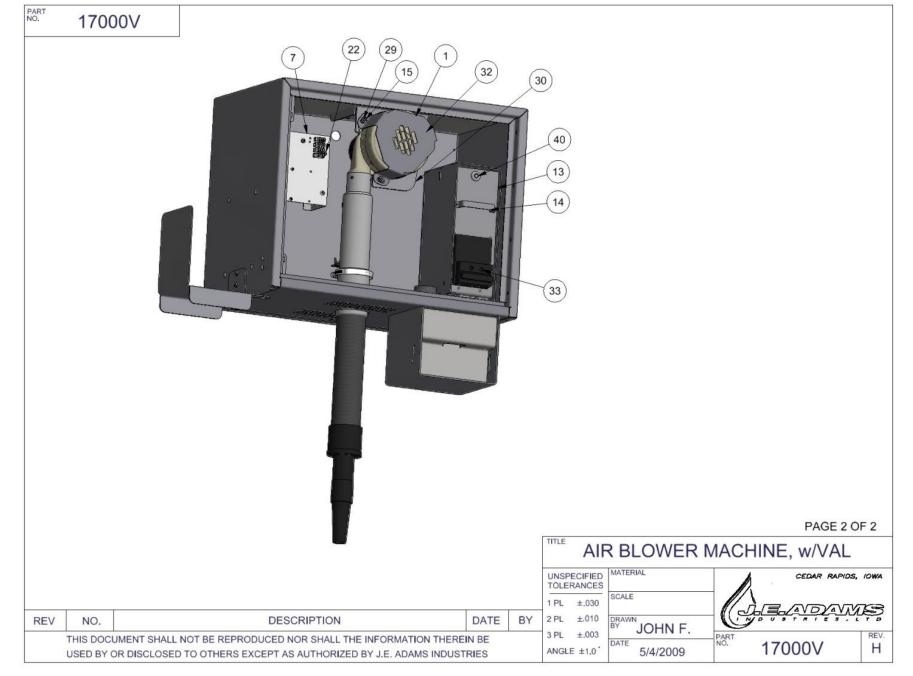
- All servicing of machine should be conducted by an authorized service representative!
- Periodically inspect electrical wires and connections for wear or fatigue.
- Clean canister with a stainless steel cleaner as needed.
- Decals can be cleaned with mild soap and water.
- Once per month or more the stainless steel cabinet should be wiped down along with the inside components. Look for any wear items or damage. Check motor brushes for wear and replace if under 3/8" in length. Parts can be ordered through JE Adams or your nearest dealer.

## WHEN PERFORMING MAINTENANCE OR TROUBLE-SHOOTING, TURN POWER OFF! QUALIFIED

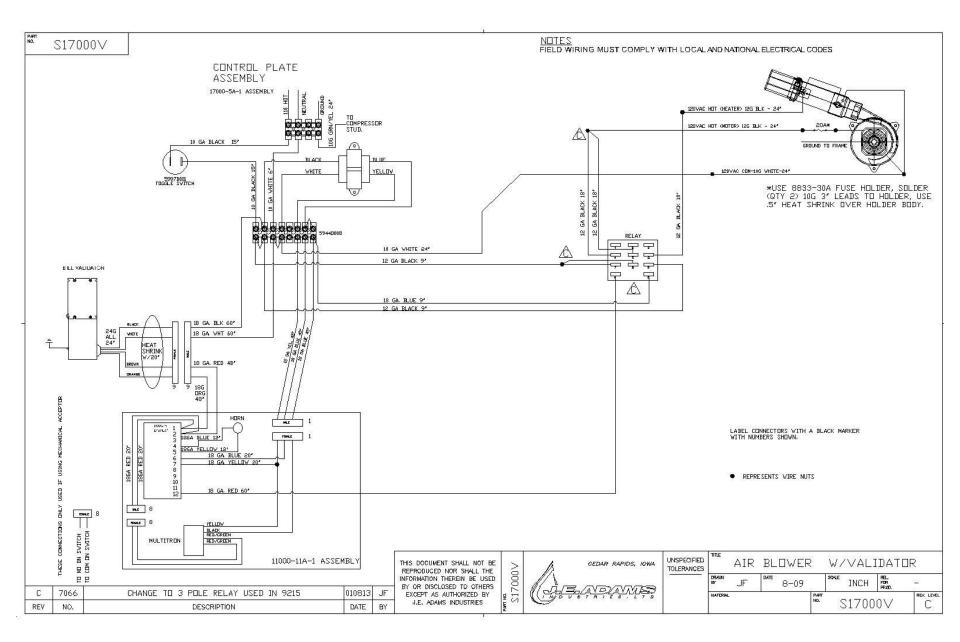


#### Troubleshooting: Possible cause Solution Problem Unit is not powered. Switch inside unit is not in the on position. Flip switch on. No power to machine. Check incoming power. 20 amp in-line fuse on motor is blown. Replace fuse. Check incoming power connection. Loose connection. Blower not running. Replace if necessary. Check in-line fuse. Confirm motor brushes are at least 3/8" long. Replace brushes if necessary. Has the proper amount of money been inserted? Deposit money to activate machine. Check manual reset button on thermostat closest to Heater is not coming Heater safety thermostat may have tripped due to overheating. motor. Unit may need to cool down before resetting on. and this condition generally indicates a problem with the blower not running. No solution, unit is running properly. When heater Heater is not needed when ambient air temperature is does not run, unit will only draw about 15 amps. When over 85 degrees F. heater is on, unit will draw around 25 amps. Display is not powering. Open unit and check 24 volts coming out of transformer. If no voltage, replace transformer. Machine is behaving Is the incoming power at 120V? Check voltage and monitor while machine runs. Low erratically. voltage can cause erratic behavior. Are any of the machines wires worn through or Inspect wiring and connections. Look for sharp bends connections not making contact? in wires and places where wire is against the metal chassis. Display reads "closed" This indicates a continuous coin pulse coming to the Disconnect coin signal wire at timer to see if problem or "coin." timer or a shorted coin signal wire. goes away. Display reads "error." This indicated the program may be lost due to a bad Reprogram timer, if problem comes back replace battery or a power spike. battery. Display reads "aux." This means continuous signal to auxiliary input. Display reads "fail." Press mode button on display. If fail does not go away Coin acceptor putting out continuous pulse. replace coin acceptor. Reprogram display. If fail goes away and then comes Program in display may be lost. back, replace battery in display. Check and replace brushes if necessary. Fuse keeps blowing. Motor brushes may be too far worn.

RT	1700			BILL OF MATERIALS				BILL OF MATERIALS	
).	1700	OV ITI	EM PART NUMBE	R DESCRIPTION	QT	Y ITEM	PART NUMBER	DESCRIPTION	QTY
		3	4 8157	NUT, #6-32 KEPP NUT STAIN	LESS 4	1	1034	WARNING LABEL, AIR BLOWER	1
		3	5 8204RW	COIN BOX, PIN LOCK WELDI	MENT 1	2	1079-3	GASKET	74"
		3	6 8437D001	ETL DECAL, VACUUM	1	3	11000-11A-1	DOOR ASSY, FRAGRANCE	1
		3	7 8638	PIN LOCK	1	4	11000-6w	BRACKET WELDMENT	2
		3	8 8732	NAMEPLATE SERIAL TAG, UL	_ 1	5	17000-1W	CABINET WELDMENT	1
		3	9 8833-30A	FUSE HOLDER - 30A	1	6	17000-3	BRACKET, HOSE HANGER, BOX	1
		4	0 8958-1	MEDECO SCREW LOCK	1			CABINETS	
		4	1 9500-56	WIRING HARNESS, VALIDAT			17000-5A-1	CONTROL PLATE ASSEMBLY	1
		4	2 S17000V	WIRING SCHEMATIC	X	8	17000DBLUE	DECAL, 17000, BLUE	1
				6	~	9	2036-2	HOSE, 2" X 30' BLACK HIGH HEAT	1
				T	T	10	2058-5	TURBO TOWEL NOZZLE, HEAVY	1
			$\cap$	0		11	29000-42W	MOUNTING BRKT, WELDMENT	1
		and the second second	(8)			12	29000-44W	VALIDATOR BOX WELDMENT	1
			$\sim$			13	29000-45W	VALIDATOR FACEPLATE WELDMENT	1
		>				14	29000-59	VALIDATOR FACEPLATE HANDLE	1
	0	0				15	5601D4	1/4-20 x 3/4 HHCS-SS	3
			1 20			16	5603D21	NUT, 1/4-20NC ZP, SERATE EDGE	4
			$\left( \begin{array}{c} 20 \\ 4 \end{array} \right)$			17	5603D9	Nut NYLOCK, #10-32	2
		State Includes	4			18	5604D1	#10-24 x 1/2 CARR BOLT	2
		8				19	5611D2	NUT, 10-24 UNC KEPP- ZINC	11
		0				20	5631d1	1/4-20 SCREW, ONE-WAY HEAD	4
-	-		L			21	5635D2	1/4-20x1" CARRIAGE BOLT	2
						22	5636D1	#10-24 PHIL. PAN HEAD SCREW	6
		1	Ĩ	(3)	-	23	5644D1	CAGE NUT 5/16-18	3
	100		G	3		24	5721D2	HEAT SHRINK TUBING	21.5
-	~ _		$\odot$			25	5901D2	WIRE NUT, RED	3
(		$\sim$			L	26	5901D5	ORANGE WIRE CONNECTOR	1
1			5)	(1	35)	27	5979D1	FUSE, 20A	1
			0			28	8000-23	FEMALE 5 POLE CONN	1
						29	8036	NUT, 1/4-20 UNC KEPS	9
						∧ 30	8061-720-6	BRACKET, VAC MOTOR	1
		(10)		_	4	/H 31	8061-WIRE-KIT	WIRE KIT, TURBO TOWEL	1
					4	/H\32	8061A-EM	TURBO TOWEL ASSY, 120V	1
						33	8130-6	MEI MARS, 110V BILL VALIDATOR	1
4	7912	REVISE BOM F	OR ELECTRO MOT		123016			PAGE	1 OF
G	7734			ADDED (4) 5603D213		CK	AIR BLOV	VER MACHINE, w/VAL	
F	7371		ADD WARNING	DECAL 1034	120814		ECIFIED MATERIAL RANCES	CEDAR RAPID	s, Iowa
Ξ	7337		ITEM 16 WAS	6 NOW 2	10/21/14 M	WS 1 PL	±.030 SCALE		VIC
	NO.		DESC	RIPTION	DATE B	Y 2 PL	±.010 DRAWN BY JOH	N.F.	
EV						3 PL	±.003		REV



17000-5A-1			BILL OF MATERIALS				BILL OF MATERIALS	
	ITEM	PART NUMBER	DESCRIPTION	QTY	ITEM	PART NUMBER	DESCRIPTION	QT
DTE 1	12	5943F3220	WIRE, 10G BLACK	30"	1	11000-5	CONTROL PLATE, SHAMPOO-SPOT	1
JT 5944D007 INTO A	13	5943F3225	WIRE, 10G GREEN	24"	2	5662D4	6-32 x 3/4 PHIL. PAN -MACHINE	4
AND 8P TERMINAL	14	5943F3229 🔥	WIRE, 10G WHITE	34"			SCREW	
RIP. ATTACH TO PLATE	15	5944D007 /D	STRIP, TERMINAL 12P	1	3	5662D5	6-32 x 3/8 PHIL. PAN -MACHINE	4
SHOWN.	16	5997D001	SWITCH, SPST, 30 AMP, SCREW	1			SCREW	
			TERM.		4	5900D1	INSULATED CONNECTOR, BLUE	1
	17	8000-24	5 POLE MALE CONNECTOR	2	5	5900D3	INSULATED CONNECTOR, YELLOW	
	18	8097	INSULATED CRIMP NUT	2	6	5901D2	WIRE NUT, RED	113
	19	8131-2	TRANSFORMER, 110/220-24 1.66A	1	7	5943B3220	WIRE, 18G BLACK	6
	20	8157	NUT, #6-32 KEPP NUT STAINLESS	8	8	5943B3224	WIRE, 18G YELLOW	4
	21	8761	RELAY, 3PDT-24VAC COIL	1	9	5943B3226	WIRE, 18G BLUE	9
	22	8828	TOGGLE SWITCH PLATE	1	10	5943B3229	WIRE, 18G WHITE	6
(2)					11	5943E3220	WIRE, 12G BLK	8
0					2			
	€ €			20				
•	•			20		•		
<ul> <li>○</li> <li>○</li> <li>●</li> <li>●</li></ul>	• •		& 5944D010. ADDED 5944D007	20	7/23/20			
© • • • • •	• •	EMOVE RELAY 8760 A	8 5944D010. ADDED 5944D007 IND USE 8761 3 POLE, ADJ BOM	20	7/23/20001081	18 CAK 3 JF UNSPEC		A.PIOS
<ul> <li>○</li> <li>○</li> <li>●</li> <li>●</li></ul>	• •	EMOVE RELAY 8760 A REVISE WIRE AND	& 5944D010. ADDED 5944D007	20	7/23/20	18 CAK 3 JF 2 JF 1 PL ±		1400S



NO 170	00 2201			E	BILL OF MATERIALS	
170	00-220V		ITE	PART NUMBER	DESCRIPTION	QTY
			1	1034	WARNING LABEL, AIR BLOWER	1
			2	1079-3	GASKET	74"
			3	11000-11A	DOOR ASSEMBLY, SHAM-SPOT	1
		$\sim$	4	11000-6w	BRACKET WELDMENT	2
		(5)	5	17000-1W	CABINET WELDMENT	1
			6	17000-3	BRACKET, HOSE HANGER, BOX	1
			Ĭ	17000-0	CABINETS	100
			7	17000-5A-220V	CONTROL PLATE ASSEMBLY	1
			8	17000DBLUE	DECAL, 17000, BLUE	1
			9	2036-2	HOSE, 2" X 30' BLACK HIGH HEAT	1
			10		TURBO TOWEL NOZZLE, HEAVY	1
			11		1/4-20 x 3/4 HHCS-SS	3
			12		#10-24 x 1/2 CARR BOLT	2
			12			_
	0				NUT, 10-24 UNC KEPP- ZINC	11
			14		1/4-20 SCREW, ONE-WAY HEAD	4
			15		1/4-20x1" CARRIAGE BOLT	2
		4	16		#10-24 PHIL. PAN HEAD SCREW	4
			17		CAGE NUT 5/16-18	2
			18	5721D2	HEAT SHRINK TUBING	21.5
			19	5901D2	WIRE NUT, RED	2
			20	5901D5	ORANGE WIRE CONNECTOR	1
			21	5943F3222	WIRE, 10G RED	24"
			22	5979D2	FUSE, 10A	1
			= 23	5901D2	WIRE NUT, RED	2
	-		24	8036	NUT, 1/4-20 UNC KEPS	9
(9)			25	8061-720-6	BRACKET, VAC MOTOR	1
		(5)	26	8061-WIRE-KIT	WIRE KIT, TURBO TOWEL	1
			27	8061A-220V-EM	TURBO TOWEL ASSY, 220V	1
			28	8204RW	COIN BOX, PIN LOCK WELDMENT	1
			29	8638	PIN LOCK	1
			30	8833-30A	FUSE HOLDER - 30A	1
		$\sim$	31	S17000-220V	WIRING SCHEMATIC	X
		10				
E	8439		5/1/1		AIR BLOWER MACHINE, 220V	
D	7912	REVISE BOM FOR ELECTRO BLOWER MOTOR, NEW WIRE KIT	01031			05. 044
C	7371	ADD WARNING DECAL 1034	12081	4 JF TOLERANCES	DRAWN	US, IOWA
В	7337	ITEM 11 WAS 6 NOW 2	10/21/	116 1000	MI SILIS_IAVDYAV	MES
A	7153	REMOVED 5644D2 AND ADDED 5644D1	8-29-1		2/9/2011	REV.
REV	NO.	DESCRIPTION	DATE	BY 3 PL ±.003 ANGLE ± 1*	1/2 17000-220V	E
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 INDUST	RIES	ANGLE IT	11000 2201	-

	000 54 0	2011		BILL OF MATERIALS				BILL OF MATERIALS	
170	000-5A-2	20V ITEM	PART NUMBER	DESCRIPTION	QTY	ITEM	PART NUMBER	DESCRIPTION	QTY
		12		WIRE, 10G RED	30"	1	11000-5	CONTROL PLATE, SHAMPOO-SPOT	1
		13	5943F3225	WIRE, 10G GREEN	24"	2	5662D4	6-32 x 3/4 PHIL. PAN -MACHINE	4
		14		STRIP, TERMINAL, 35A, 4 POLE	1			SCREW	
		15	5944D010	STRIP, TERMINAL, 35A, 8 POLE	1	3	5662D5	6-32 x 3/8 PHIL. PAN -MACHINE	4
		16	5997D001	ON-OFF SWITCH	1	1		SCREW	
		17	8000-24	5 POLE MALE CONNECTOR	1	4	5900D1	INSULATED CONNECTOR, BLUE	2
		18	8097	INSULATED CRIMP NUT	2	5	5900D3	INSULATED CONNECTOR, YELLOW	6 /
		19	8131-2	TRANSFORMER, 110/220-24 1.66A	1	6	5901D2	WIRE NUT, RED	2
		20	8157	NUT, #6-32 KEPP NUT STAINLESS	8	7	5943B3222	WIRE, 18G RED	60"
		21	8761 /A	RELAY, 3PDT-24VAC-20A@1HP	1	8	5943B3224	WIRE, 18G YELLOW	45"
	(14)	22	8828	TOGGLE SWITCH PLATE	1	9	5943B3226	WIRE, 18G BLUE	99"
	(14)		(2)	5	4	10	5943E3220	WIRE, 12G BLK	72"
		(2)				11	5943F3220	WIRE, 10G BLACK	30"
	•• ©			(21)					
	••	÷ • <u>E(</u>			20				
		• ह			20	• [	CONTRO	DL PLATE ASSEMBLY	
	•	• E					• CONTRC DIFIED MATERIAL		; 101144
A		• E				TITLE UNSPEC TOLERA	• CONTRC	DL PLATE ASSEMBLY	, 10WA
	•	• E		16 19 3 4 19 19 3 4 19 19 3 4 19 19 19 19 19 19 19 19 19 19	313 JF	TITLE UNSPEC TOLERA 1PL	CONTRC DIFIED NCES 5.030 E.010 DRAWN	DL PLATE ASSEMBLY	, 10WA
REV	• 7066 NO.	• E	Y 8760 AND USE A	16 19 3 4 19 19 3 4 19 19 3 4 19 19 19 19 19 19 19 19 19 19	813 JF TE BY	TITLE UNSPEC TOLERA 1PL = 2PL =	CONTRC DIFIED NCES E.030	DL PLATE ASSEMBLY	

