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

SCENT MACHINE
MODEL 8800/8800-220
OWNERS MANUAL

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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 cabinet. Key numbers can be found on the tag that comes attached to the keys.

Please keep this information with your records.

MODEL#:_____

SERIAL#:_____

KEY NUMBERS:_____

DATE PURCHASED:_____

DISTRIBUTOR:_____

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

110V SPECIFICATIONS		220V SPECIFICATIONS	
HEIGHT:	W/ STAND: 53-7/16" W/O STAND: 24"	HEIGHT:	W/ STAND: 53-7/16" W/O STAND: 24"
WIDTH:	23"	WIDTH:	23"
DEPTH:	W/ STAND: 13-9/16" W/O STAND: 10"	DEPTH:	W/ STAND: 13-9/16" W/O STAND: 10"
WEIGHT:	W/ STAND: 170 Lbs. W/O STAND: 130 Lbs.	WEIGHT:	W/ STAND: 170 Lbs. W/O STAND: 130 Lbs.
SCENT MACHINE:	110/120 VAC, 50/60HZ 10 AMP DEDICATED SERVICE REQUIRED 24 VOLT TIMING SYSTEM DISPENSES 1.5 OZ FRAGRANCE PER MINUTE	SCENT MACHINE:	220 VAC, 50/60HZ 10 AMP DEDICATED SERVICE REQUIRED 24 VOLT TIMING SYSTEM DISPENSES 1.5 OZ FRAGRANCE PER MINUTE
COMPRESSOR:	THOMAS 1/12 HP OILESS W/ HEATER 110V, 2.5 A, 60HZ 1 CFM	COMPRESSOR:	THOMAS 1/12 HP OILESS W/ HEATER 110V, 2.5 A, 60HZ 1 CFM

Table 1: 110V and 220V specifications

INSTALLATION REQUIREMENTS

!IMPORTANT!

TO ENSURE PROPER FUNCTIONALITY AND ADHERANCE TO BOTH LOCAL AND NATIONAL ELECTRIC CODES, IT IS RECOMMENDED THAT SERVICE BE INSTALLED BY A LICENSED ELECTRICIAN EXPERIENCED IN COMMERCIAL APPLICATIONS. INADEQUATE POWER AND WIRING MAY CAUSE THE UNIT TO PERFORM ERRATICALLY, BLOW FUSES AND TIME INCORRECTLY.

GENERAL MECHANICAL:

- ALL DIMENSIONS IN DRAWINGS ARE IN INCHES.
- MOUNTING STUD SIZE 3/8" X 16 UNC X 1".
- 4" MINIMUM CONCRETE REQUIRED AROUND MOUNTING STUD.

FOR GASOLINE DISPENSING LOCATIONS:

- A **MINIMUM 18"** HIGH PAD ABOVE THE DRIVEWAY.
- **20 FOOT HORIZONTAL CLEARANCE** FROM THE EXTERIOR ENCLOSURE OF ANY GASOLINE DISPENSING PUMP.

ELECTRICAL SERVICE:

- **120V SCENT MACHINES**
  - **10 AMP** DEDICATED SERVICE REQUIRED. **16 AWG MINIMUM** WIRE SIZE REQUIRED (50FT RUN OR LESS). WIRE SIZE WILL VARY WITH DISTANCE FROM THE SERVICE PANEL TO THE UNIT.
- **220V SCENT MACHINES**
  - **10 AMP** DEDICATED SERVICE REQUIRED. **16 AWG MINIMUM** WIRE SIZE REQUIRED (50FT RUN OR LESS). . WIRE SIZE WILL VARY WITH DISTANCE FROM THE SERVICE PANEL TO THE UNIT.

INSTALLATION

IT IS HIGHLY RECOMMENDED THAT THIS UNIT BE INSTALLED BY A LICENSED ELECTRICIAN to ensure all local and national electrical codes are adhered to.

1. Using the dimensions shown in Figure 2 (page 8), install the mounting studs.
2. Mount the unit securely and install electrical service as shown in Figure 1 (page 7).
3. Remove brass plugs from bubbler assembly and fill columns to desired height with BUBBLER FLUID ONLY. Fragrances should never be used in bubbler. DO NOT put snout of bottle tightly into filling hole. Doing so may result in damage to pumps. Replace brass plugs when finished.
4. Fill fragrance bottles located inside machine. Scent bottle on the right side of machine corresponds to the "UP" position of the switch. Scent bottle on the left side of machine corresponds to the "DOWN" position of the switch. Scent bottle in the middle of machine corresponds to the "MIDDLE" position of the switch.
5. Label selector switch accordingly.
6. Set timer to desired time and coin settings (pages 9-12).
7. Apply power to the unit and prime each fragrance using the following procedure:
    - Set switch to fragrance 1.
    - Holding your finger over the spray nozzle, activate the unit and push the red button on the scent gun to start back flow. Continue for approximately 30 seconds or until the fragrance bottle begins to bubble.
    - Release your finger from the nozzle and continue holding down the red button on the scent gun until the fragrance begins to spray from the nozzle. It may take 30-60 seconds for spray to appear.
    - Repeat for remaining fragrances.
8. Once all fragrances are primed, activate unit and verify proper operation. NEVER POINT OR SPRAY IN THE DIRECTION OF ANY PERSON.
9. After use, coil hose and place on the hose hanger provided.

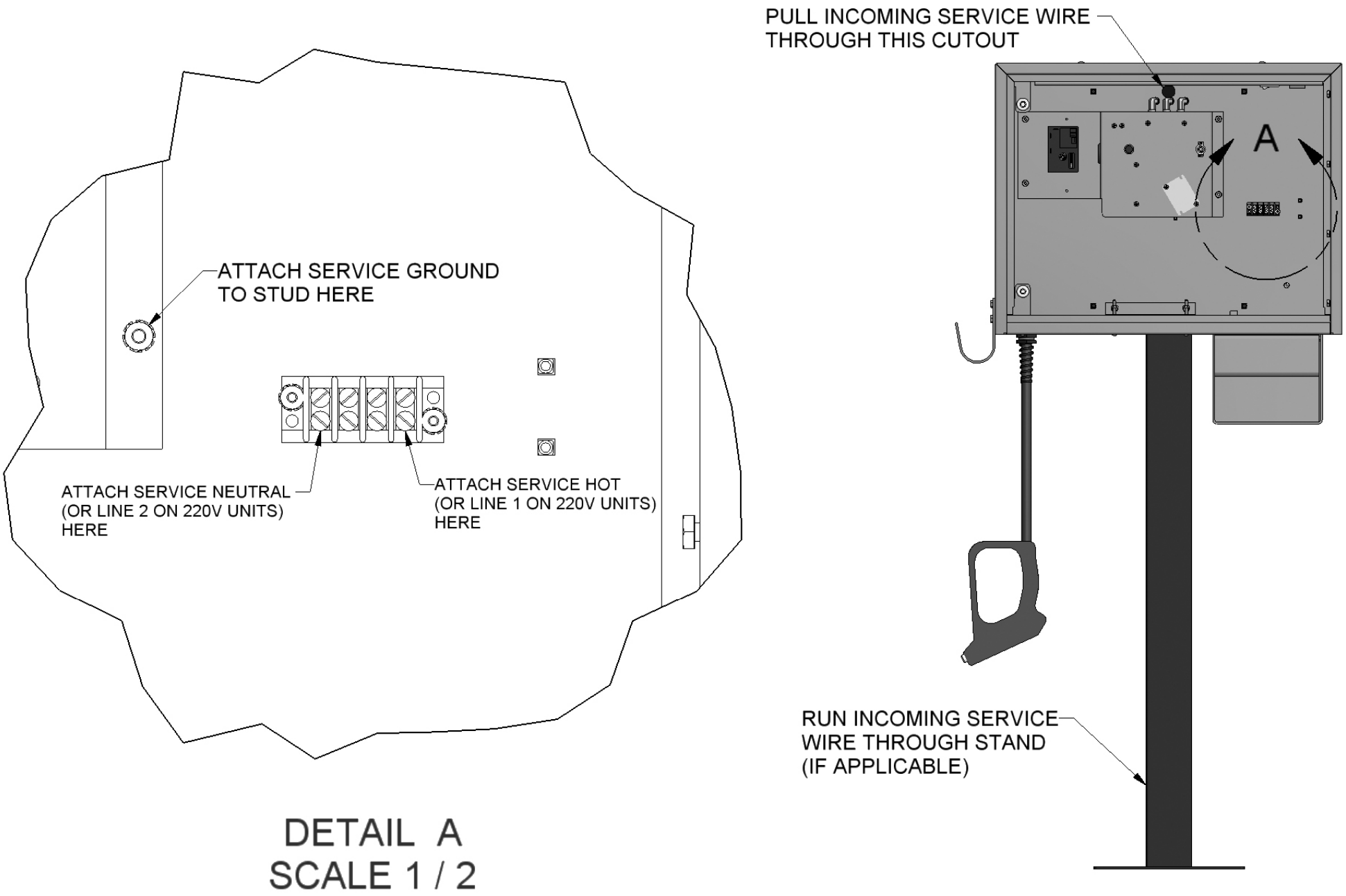


Figure 1: Standard scent machine electrical installation (shown with optional stand)

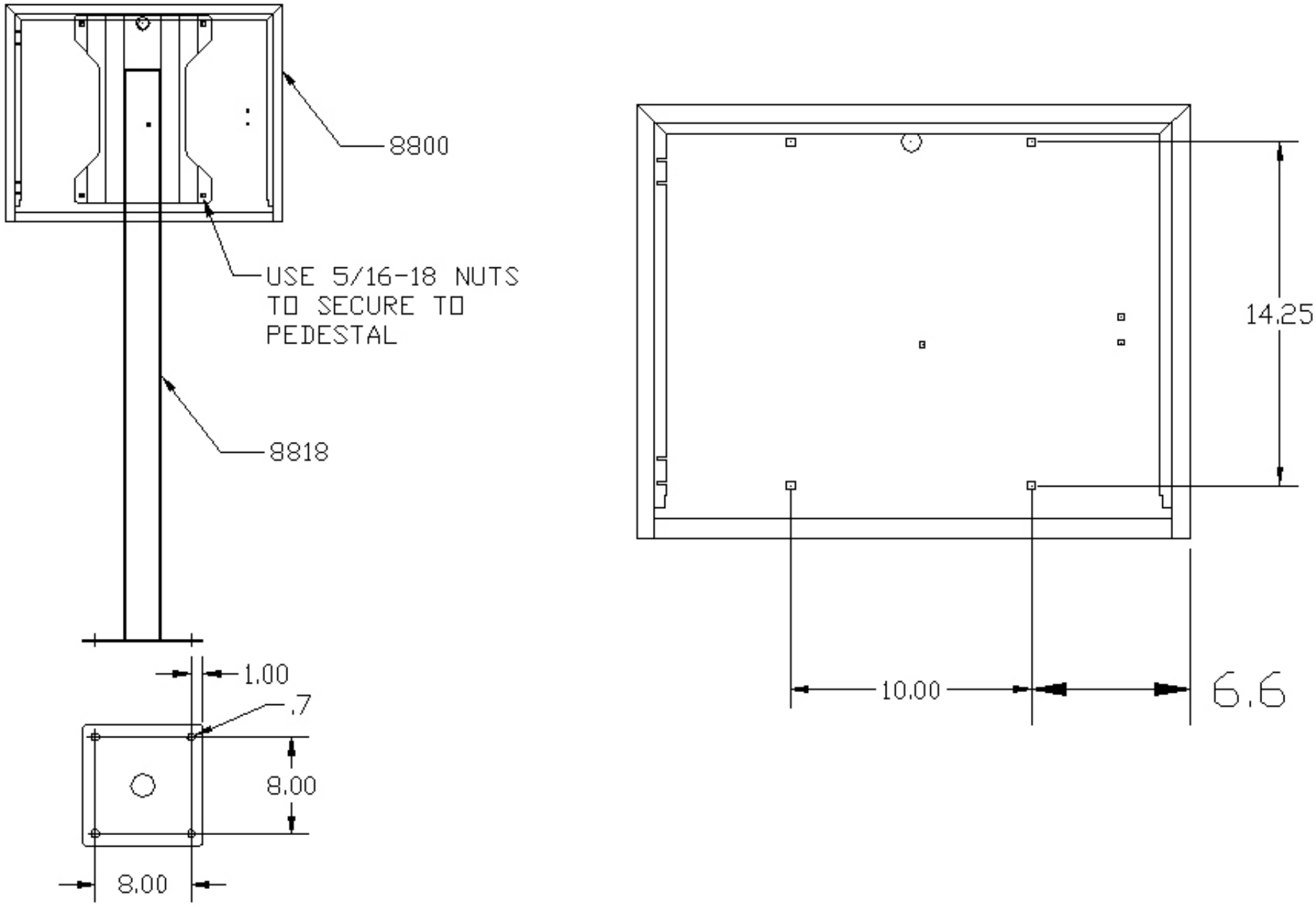


Figure 2: Installation footprint and dimensions

Note: All dimensions in inches

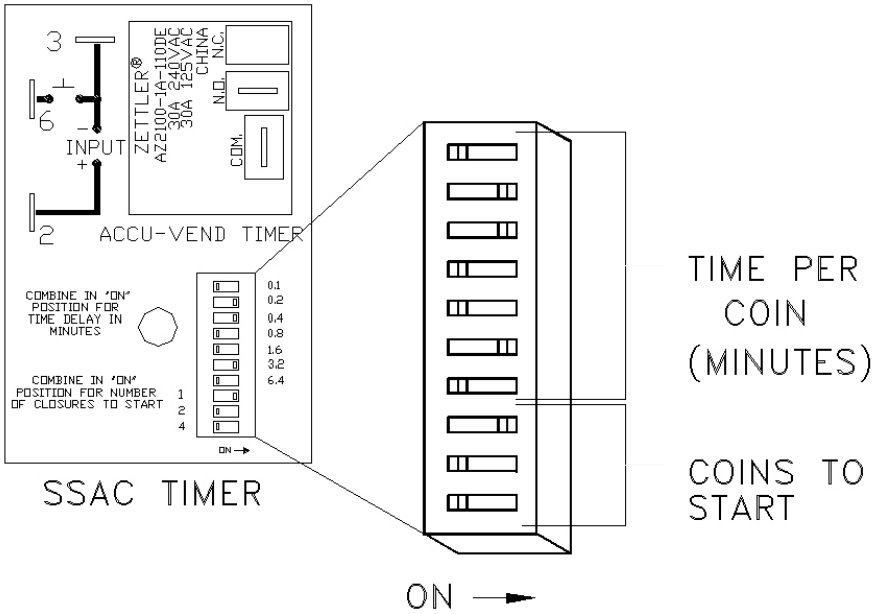


Figure 3: SSAC timer setup

Figure 3 shows an SSAC timer set for 1 ***coin to start*** *and 3.8* ***minutes per coin*** *for a total run time of 3.8 minutes (3 minutes and 48 seconds).*

TIMER SETUP – SSAC TIMERS

Note: "AE" and "AN" model SSAC timers are accumulating timers. During use, timing can be extended proportionately by adding more coins.

The SSAC timer has two adjustable settings: Time per coin (in minutes) and number of coins to start.

Time per coin:

Time per coin is the amount of time the unit will run **per coin inserted** and can be set from *0.1 minutes (6 seconds)* to *12.7 minutes (12 minutes and 42 seconds)* in increments of 6 seconds by turning on the correct switches until their values equal the desired time. Refer to Tables 2 and 3 (pages 11-12) for standard timer and coin settings. For custom settings, follow the steps below:

1. Figure the total time your vac will run (in minutes) and divide that number by the number of **coins to start**. This is your **time per coin**. Round up or down to the nearest tenth of a minute.
2. Subtract the largest value switch (initially 6.4) from your **time per coin**.
    a. **If the resulting number is zero**, move the switch to the **"on"** position and set all remaining un-set switches in the **"off"** position. Your timer is now set.
    b. **If the resulting number is positive**, move the switch into the **"on"** position. Using the resulting number as your new **time per coin**, repeat step 2 with the next largest switch value.
    c. **If the resulting number is negative**, set the switch in the **"off"** position and repeat step 2 using the next largest switch value.

Coins to start:

Coins to start is the amount of coins needed to activate the timer and can be set from one to seven coins in increments of one coin. Refer to Table 2 (page 10) for switch settings.

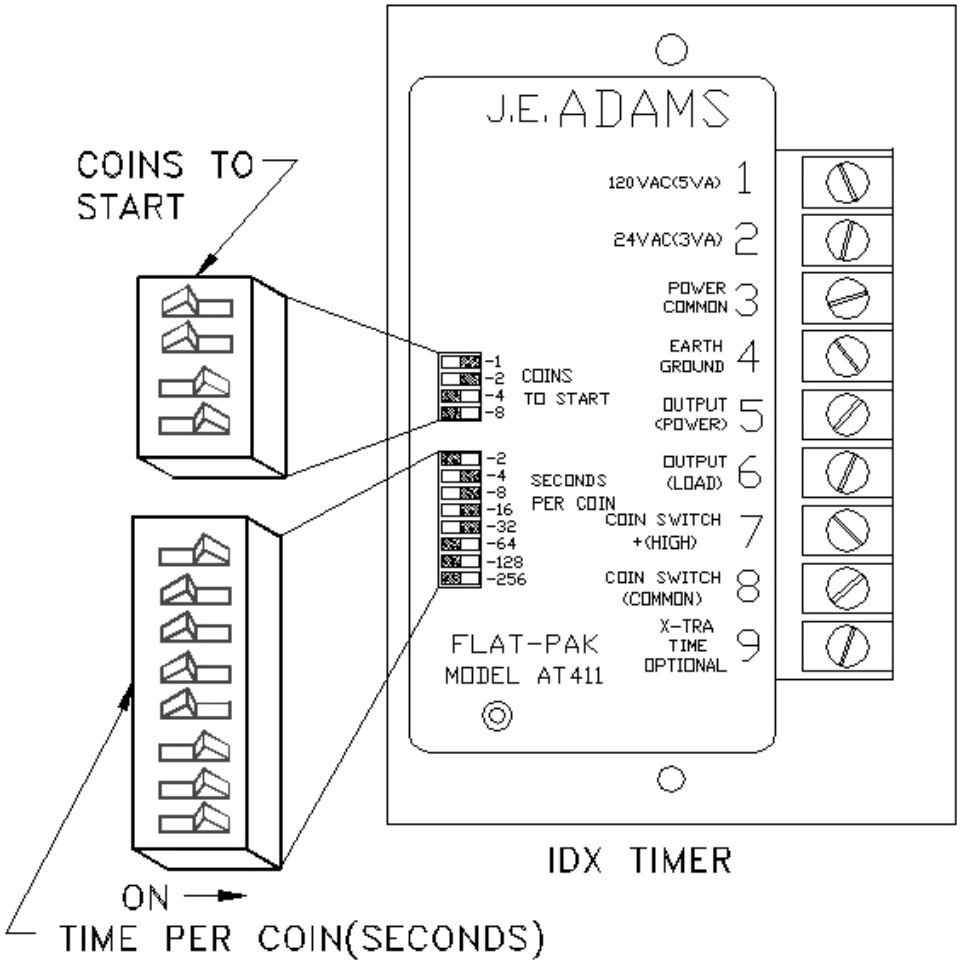


Figure 4: IDX timer setup

Figure 4 shows an IDX timer set for 3 coins to start and 60 seconds per coin for a total run time of 3 minutes.

TIMER SETUP – IDX TIMERS

Note: IDX timers are accumulating timers. During use, timing can be extended proportionately by adding more coins.

The IDX timer has two adjustable settings: Time per coin (in seconds) and number of coins to start.

Time per coin:

Time per coin is the amount of time the unit will run **per coin inserted** and can be set from *2 seconds* to *510 seconds (8.5 minutes)* in increments of 2 seconds by turning on the correct switches until their values equal the desired time. Refer to Tables 2 and 3 (pages 11-12) for standard timer and coin settings. For custom settings, follow the steps below:

1. Figure the total time your vac will run (in seconds) and divide that number by the number of **coins to start**. This is your **time per coin**. Round up or down to the nearest even number.
2. Subtract the largest value switch (initially 256) from your **time per coin**.
    a. **If the resulting number is zero**, move the switch to the **"on"** position and set all remaining un-set switches in the **"off"** position. Your timer is now set.
    b. **If the resulting number is positive**, move the switch into the **"on"** position. Using the resulting number as your new **time per coin**, repeat step 2 with the next largest switch value.
    c. **If the resulting number is negative**, set the switch in the **"off"** position and repeat step 2 using the next largest switch value.

Coins to start:

Coins to start is the amount of coins needed to activate the timer and can be set from one to seven coins in increments of one coin. Refer to Table 2 (page 10) for switch settings.

IDX Timers	IDX Timers: Time Per Coin (In Seconds)																													
Timer Switches	10	20	**30**	40	50	**60 (1 min)**	70	80	90	100	110	**120 (2 min)**	130	140	150	160	170	**180 (3 min)**	190	200	210	220	230	**240 (4 min)**	250	260	270	280	290	**300 (5 min)**
2	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x	
4		x	x			x	x			x	x			x	x			x	x			x	x			x	x			x
8	x		x	x		x			x		x	x		x			x		x	x		x			x		x	x		x
16		x	x		x	x		x	x			x			x			x	x		x	x		x	x			x		
32				x	x	x				x	x	x				x	x	x	x				x	x	x				x	x
64							x	x	x	x	x	x								x	x	x	x	x	x					
128													x	x	x	x	x	x	x	x	x	x	x	x	x					
256																										x	x	x	x	x

SSAC Timers	Time Per Coin (In minutes)																													
Timer Switches	0.1 (6sec)	0.2 (12 sec)	0.3 (18 sec)	0.4 (24 sec)	0.5 (30 sec)	0.6 (36 sec)	0.7 (42 sec)	0.8 (48 sec)	0.9 (54 sec)	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
0.1	x		x		x		x		x		x		x		x		x		x		x		x		x		x		x	
0.2		x	x			x	x			x	x			x	x			x	x			x	x			x	x			x
0.4				x	x	x	x					x	x	x	x					x		x			x		x	x		x
0.8								x	x	x	x	x	x	x	x						x	x		x	x			x		
1.6																x	x	x	x	x	x	x				x	x	x		
3.2																							x	x	x	x	x	x		
6.4																													x	x

All Timers	Coins to Start															
Coin Switches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	x		x		x		x		x		x		x		x
2		x	x			x	x			x	x			x	x
4				x	x	x	x					x	x	x	x
8								x	x	x	x	x	x	x	x

Table 2: Timer Settings Chart

Note: "X" indicates a switch in the "on" position

IDX TIMER SETTINGS		
Amount to Start	Total Run Time	Switches in "On" Position
25¢	2 MIN	8, 16, 32, 64
25¢	2-1/2 MIN	2, 4, 16, 128
25¢	3 MIN	4, 16, 32, 128
25¢	3-1/2 MIN	2, 16, 64, 128
25¢	4 MIN	16, 32, 64, 128
25¢	4-1/2 MIN	2, 4, 8 , 256
25¢	5 MIN	4, 8, 32, 256
25¢	5-1/2 MIN	2, 8, 64, 256
50¢	2 MIN	4, 8, 16, 32
50¢	2-1/2 MIN	4, 8, 64
50¢	3 MIN	2, 8, 16, 64
50¢	3-1/2 MIN	2, 8, 32, 64
50¢	4 MIN	8, 16, 32, 64
50¢	4-1/2 MIN	8, 128
50¢	5 MIN	2, 4, 16, 128
50¢	5-1/2 MIN	2, 4, 32, 128
75¢	2 MIN	8, 32
75¢	2-1/2 MIN	2, 16, 32
75¢	3 MIN	4, 8, 16, 32
75¢	3-1/2 MIN	2, 4, 64
75¢	4 MIN	16, 64
75¢	4-1/2 MIN	2, 8, 16, 64
75¢	5 MIN	4, 32, 64
75¢	5-1/2 MIN	2, 4, 8, 32, 64
$1.00	2 MIN	2, 4, 8, 16
$1.00	2-1/2 MIN	2, 4, 32
$1.00	3 MIN	4, 8, 32
$1.00	3-1/2 MIN	2, 4, 16, 32
$1.00	4 MIN	4, 8, 16, 32
$1.00	4-1/2 MIN	4, 64
$1.00	5 MIN	4, 8, 64
$1.00	5-1/2 MIN	4, 16, 64

SSAC TIMER SETTINGS		
Amount to Start	Total Run Time	Switches in "On" Position
25¢	2 MIN	0.4, 1.6
25¢	2-1/2 MIN	0.1, 0.8, 1.6
25¢	3 MIN	0.2, 0.4, 0.8, 1.6
25¢	3-1/2 MIN	0.1, 0.2, 3.2
25¢	4 MIN	0.8, 3.2
25¢	4-1/2 MIN	0.1, 0.4, 0.8, 3.2
25¢	5 MIN	0.2, 1.6, 3.2
25¢	5-1/2 MIN	0.1, 0.2, 0.4, 1.6, 3.2
50¢	2 MIN	0.2, 0.8
50¢	2-1/2 MIN	*
50¢	3 MIN	0.1, 0.2, 0.4, 0.8
50¢	3-1/2 MIN	*
50¢	4 MIN	0.4, 1.6
50¢	4-1/2 MIN	*
50¢	5 MIN	0.1, 0.8, 1.6
50¢	5-1/2 MIN	*
75¢	2 MIN	*
75¢	2-1/2 MIN	*
75¢	3 MIN	0.2, 0.8
75¢	3-1/2 MIN	*
75¢	4 MIN	*
75¢	4-1/2 MIN	*
75¢	5 MIN	*
75¢	5-1/2 MIN	*
$1.00	2 MIN	0.1, 0.4
$1.00	2-1/2 MIN	*
$1.00	3 MIN	*
$1.00	3-1/2 MIN	*
$1.00	4 MIN	0.2, 0.8
$1.00	4-1/2 MIN	*
$1.00	5 MIN	*
$1.00	5-1/2 MIN	*

Table 3: Typical Timer Settings

Note: "" denotes a configuration that is not possible with this timer. See Table 2 for the closest approximation to this time.*

MAINTENANCE

- Periodically inspect scent hose and tubes for signs of wear or damage.

- Periodically check fragrance bottle fluid levels. Refill as needed. DO NOT place scent fluid in bubblers. Bubblers are for cosmetic purposes only and have no effect on standard operation of the machine.

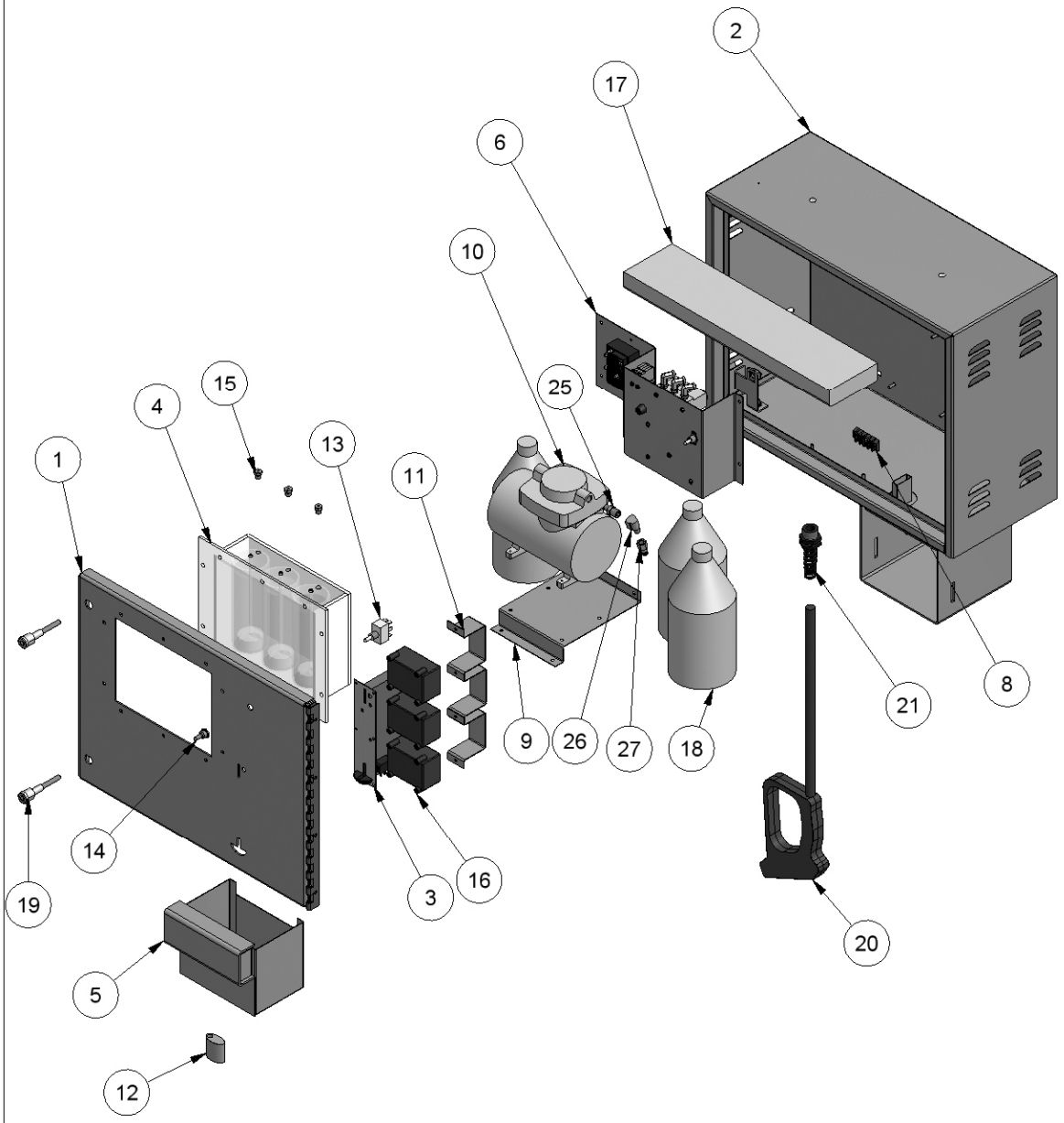
- Check door gasket periodically for signs of wear or damage and replace as needed.

- Clean the outside portion of the cabinet with a stainless steel polish. DO NOT use any abrasive cleaners, steel wool or any kind of brush to clean the exterior. Doing so could possibly scratch or damage the finish of the canister.

- Mild soap and water may be used to clean the decals. DO NOT use any harsh or abrasive cleaners or the decal surface may be damaged.

- Only replace internal light with a 15W, 18" fluorescent lamp. !WARNING! Fluorescent lamps contain mercury. Please dispose of used lamps in accordance with local waste and recycling laws.

EXPLODED VIEW - 8800 STANDARD CONFIGURATION



BILL OF MATERIALS			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	8800-2W	DOOR WELDMENT, SCENT MACHINE	1
2	8810W	CABINET WELDMENT SCENT MACHINE	1
3	8149	IMONEX COIN ACCEPTOR	1
4	8877	BUBBLER ASSEMBLY	1
5	8204RW	WELDMENT, COIN BOX	1
6	8860	CONTROL PLATE SUB ASSEMBLY	1
7	8678	HOSE HANGER	1
8	5903D1	4 POS TERMINAL STRIP	1
9	8821	MOUNTING BRACKET, COMPRESSOR	1
10	8824	1/12 H.P. AIR COMPRESSOR	1
11	8800-7	BRACKET, PUMP	3
12	8638	PIN LOCK	1
13	8849D001	SWITCH,SP3T	1
14	5920	BOOT, TOGGLE SWITCH	1
15	5049	ACTUATOR NUT	3
16	8842	BUBBLER PUMP	3
17	8825	FLOURESCENT LIGHT FIXTURE	1
18	8838	1 GALLON JUG	3
19	8897	FORT SCREW LOCK W/2 KEYS	2
20	8898	FRAGRANCE GUN ASSY.	1
21	8549	FLEX STRAIN RELIEF	1
22	8892O	ORANGE BUBBLER FLUID	1
23	8892R	RED BUBBLER FLUID	1
24	8892Y	YELLOW BUBBLER FLUID	1
25	5825D1	1/4" - 1/8" NPT REDUCING NIPPLE	1
26	8839	STREET ELBOW, 1/4 X 1/8 90°	1
27	5805D2	1/8 FNPT X 3/16 PUSH LOCK	1

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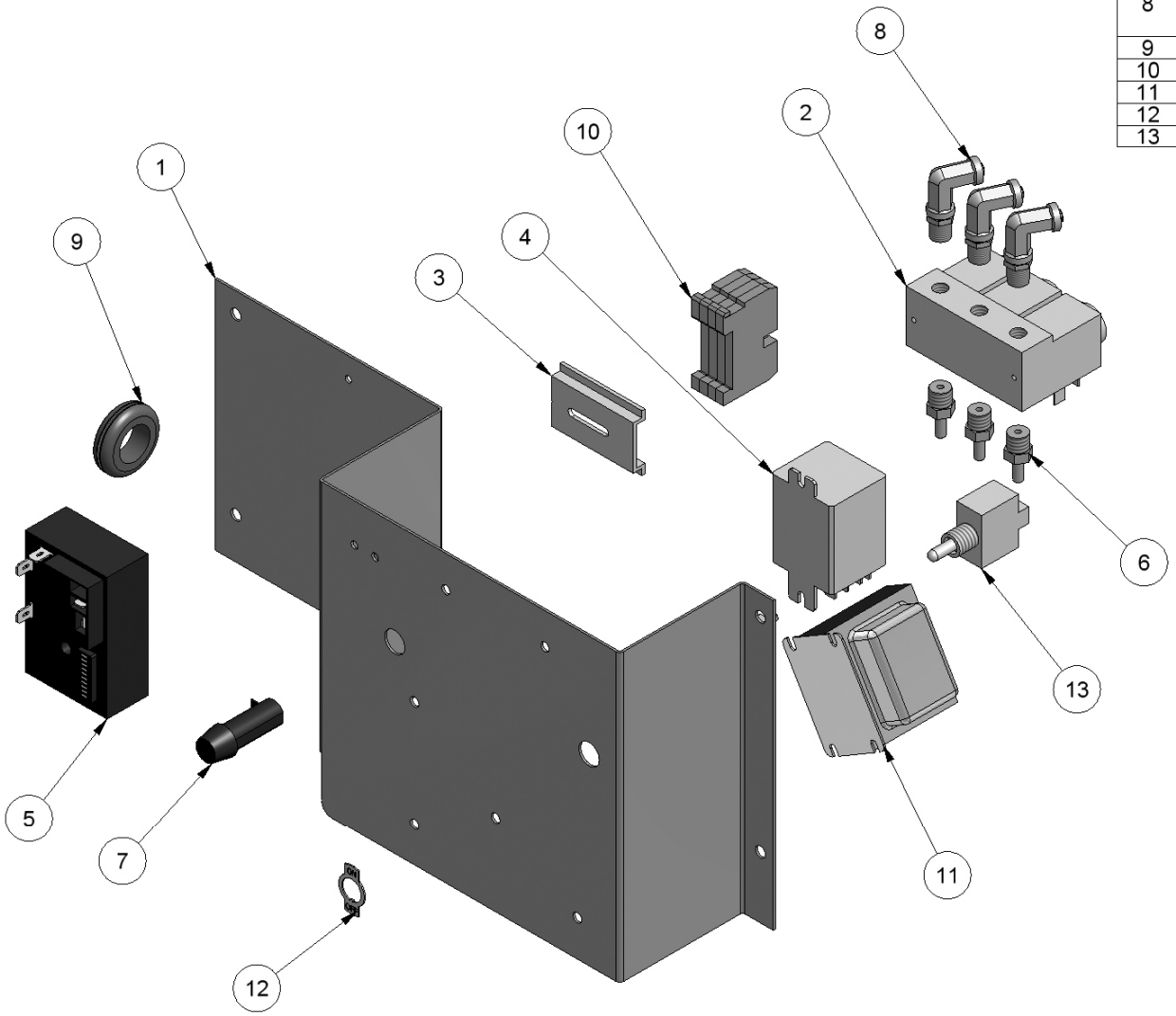
J.E. ADAMS INDUSTRIES, LTD

PART NO. 8800

EXPLODED VIEW - 8860 STANDARD CONFIGURATION



BILL OF MATERIALS			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	8836	CONTROL PLATE	1
2	5859D001	SOLENOID BLOCK, 24V/60HZ	1
3	8800-25	DIN RAIL, 2"	1
4	8760	RELAY, DPDT-24VAC-20A@1HP	1
5	8712SS4	SSAC TIMER	1
6	8840	1/8 NPT HOSE BARB FIT	3
7	8833	FUSE HOLDER	1
8	5806D1	1/8 x 18 PUSH LOCK SWIVEL FITTING	3
9	5639D6	RUBBER GROMMET	1
10	28000-80	3 CONDUCTOR TERMINAL BLOCK	4
11	8744	TRANSFORMER, 120V-24V	1
12	8828	TOGGLE SWITCH PLATE	1
13	8918	ON-OFF SWITCH	1

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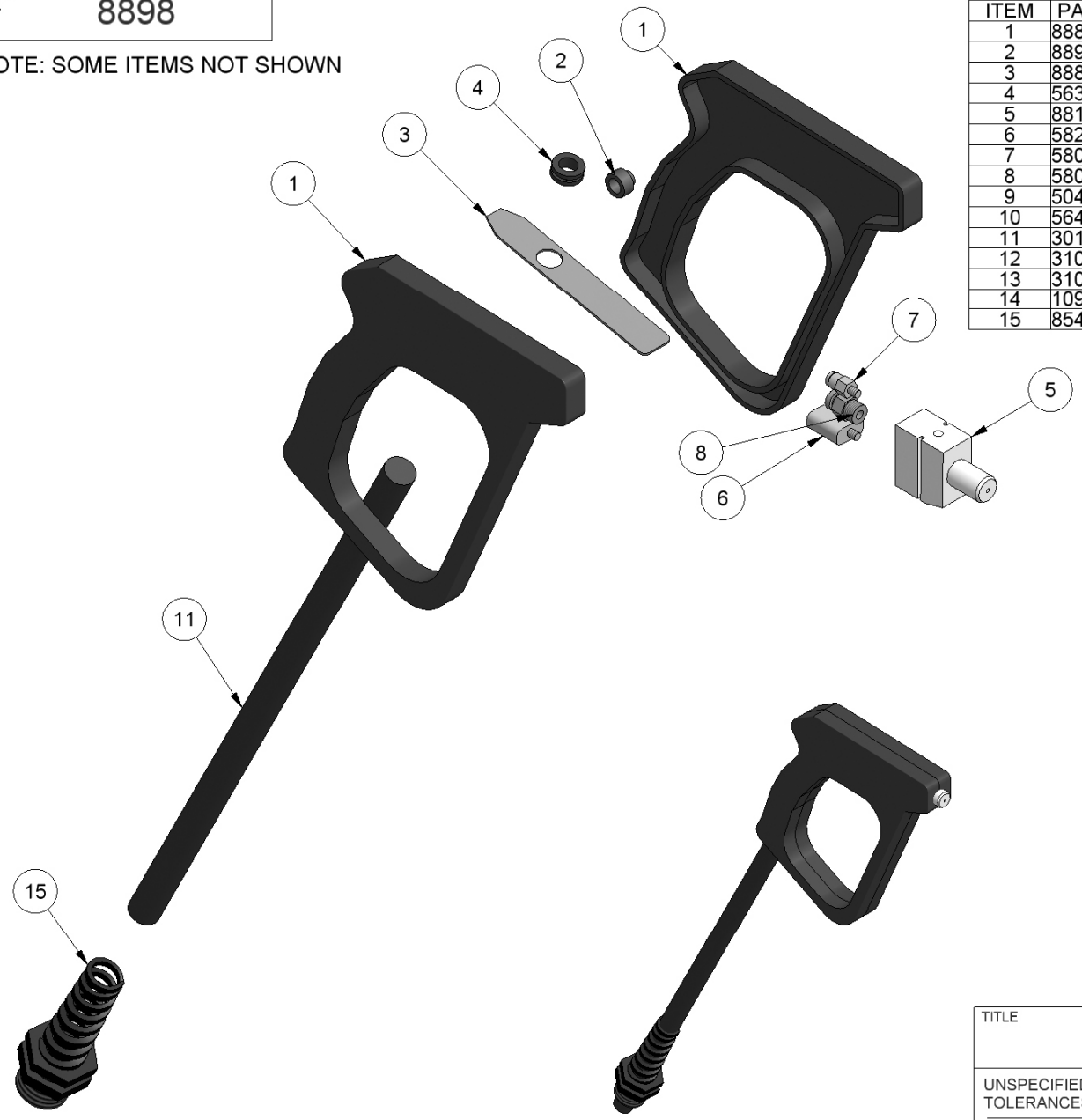
PART NO. 8860

PART NO. 8898

NOTE: SOME ITEMS NOT SHOWN



BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	8889	GUN HANDLE	2
2	8893	PUSH BUTTON SWITCH	1
3	8887	GUARD	1
4	5639D2	GROMMET	1
5	8813	SPRAY NOZZLE ASSEMBLY	1
6	5823D1	1/8" Y PUSH-LOK FITTING	1
7	5803D1	1/8" PUSH-LOK FITTING	1
8	5803D3	3/16" PUSH-LOK FITTING	1
9	5048	#6 X 11/16 TAP SCREW	8
10	5643D1	HOSE CLAMP	1
11	3018	3/8" WIRE HOSE	1
12	3101	1/8" POLY TUBE	3
13	3105	3/16" NYLON TUBE	1
14	1091	26GA RED WIRE	2
15	8549	FLEX STRAIN RELIEF	1

REV	NO.	DESCRIPTION	DATE	BY

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TITLE: FRAGRANCE GUN ASSY.

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

MATERIAL

SCALE

DRAWN BY

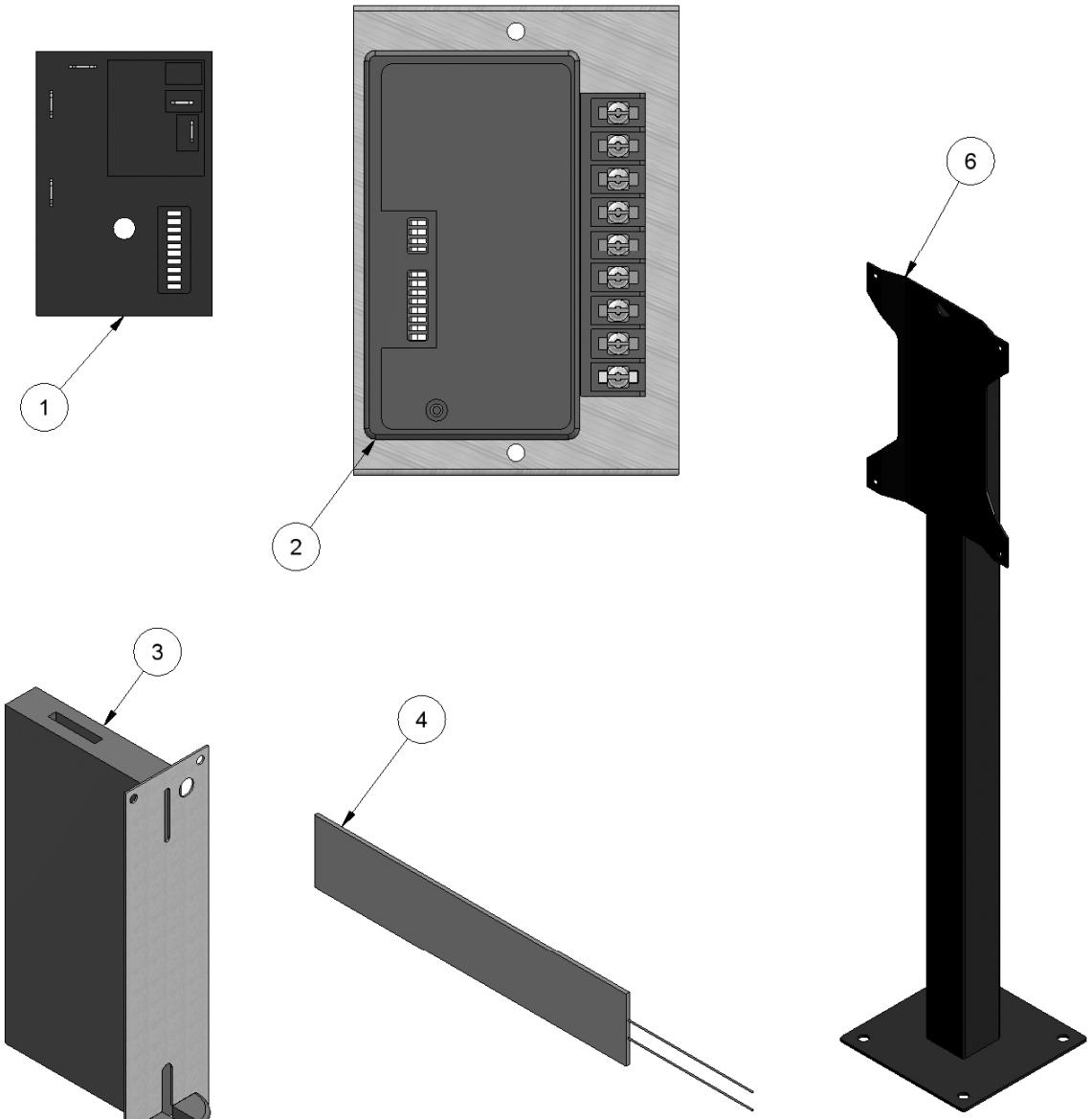
DATE 3/9/2006

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

PART NO. 8898

REV.

TIMERS AND ACCESSORIES - SOME ITEMS NOT SHOWN



BILL OF MATERIALS		
ITEM	PART NUMBER	DESCRIPTION
1	8712SS4	SSAC ACCUMULATING TIMER
1	8712SS5	SSAC NON-ACCUMULATING TIMER
2	8712X	IDX AT411 TIMER
3	8120	COIN ACCEPTOR - GINSAN 41 SENSOTRON
3	8120-2	COIN ACCEPTOR - GINSAN MULTITRON
3	8131-5	COIN ACCEPTOR - IDX X-10
3	8131-11	COIN ACCEPTOR - IDX MA-800
3	8140-2	COIN ACCEPTOR - SLUGBUSTER P5511
3	8140-3	COIN ACCEPTOR - SLUGBUSTER P-35
3	8149	COIN ACCEPTOR - IMONEX
4	8847	25W FLEX HEATER
5	8848	THERMOSTAT
6	8818	PEDESTAL STAND
7	3100	1/4" VINYL TUBING
8	8855	STRAWBERRY FRAGRANCE
9	8856	PINA COLADA FRAGRANCE
10	8859	NEW CAR FRAGRANCE
11	8864	SPICE FOREST FRAGRANCE
12	8865	FRENCH VANILLA FRAGRANCE
13	8870	LEMON FRARANCE
14	8857	WILD CHERRY FRAGRANCE
15	5949D10	240-480/120v TRANSFORMER (220V MODELS ONLY)

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CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

TIMERS AND ACCESSORIES

PART NO. 8800

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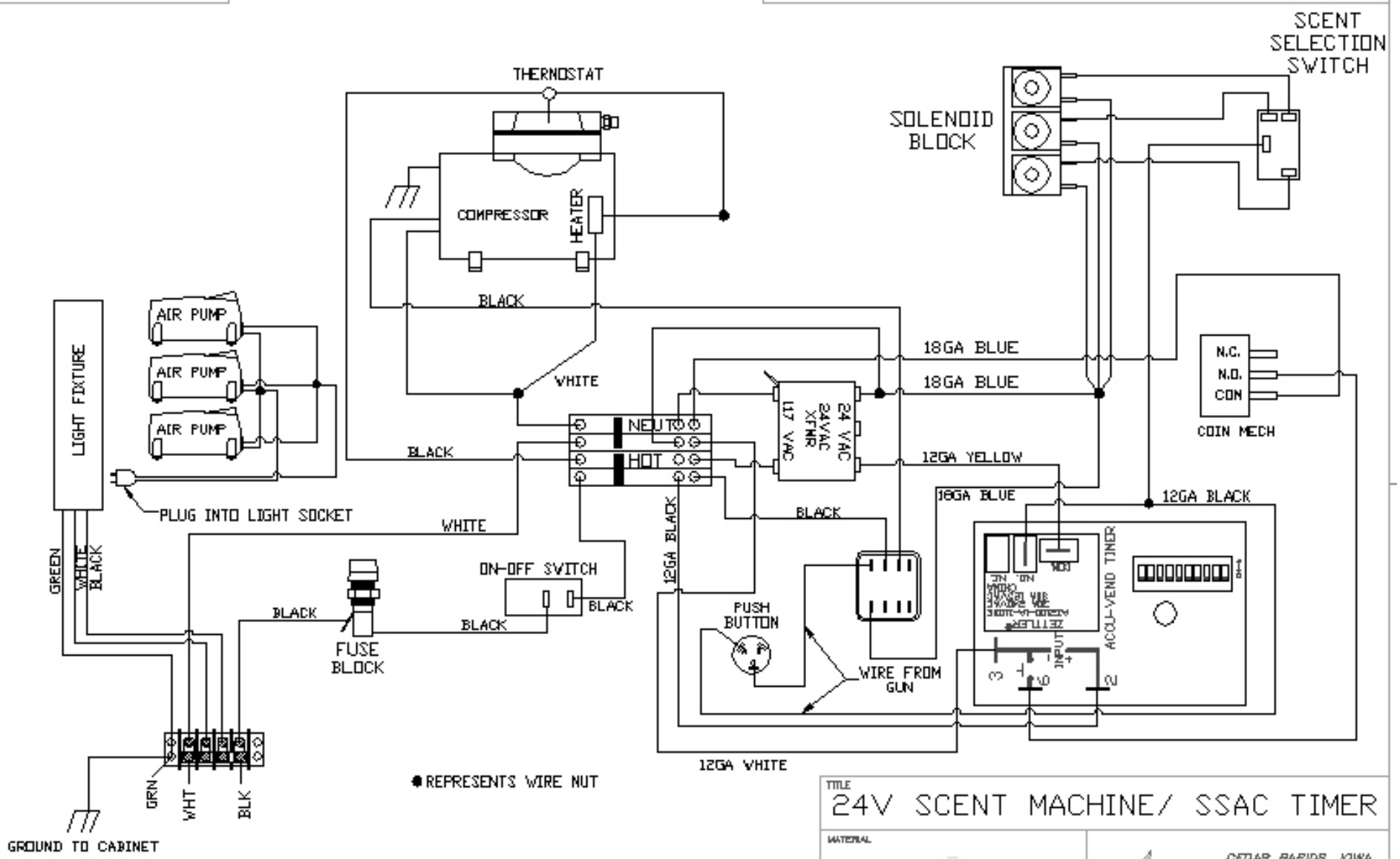

TITLE: 24V SCENT MACHINE/ SSAC TIMER

MATERIAL: —

UNSPECIFIED TOLERANCES

SCALE:

DRAWN BY:

DATE:

APPD. FOR PROD.: —

CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

PART NO. 8800

REV: —

REV	NO.	DESCRIPTION	DATE	BY

PART NO. 8800

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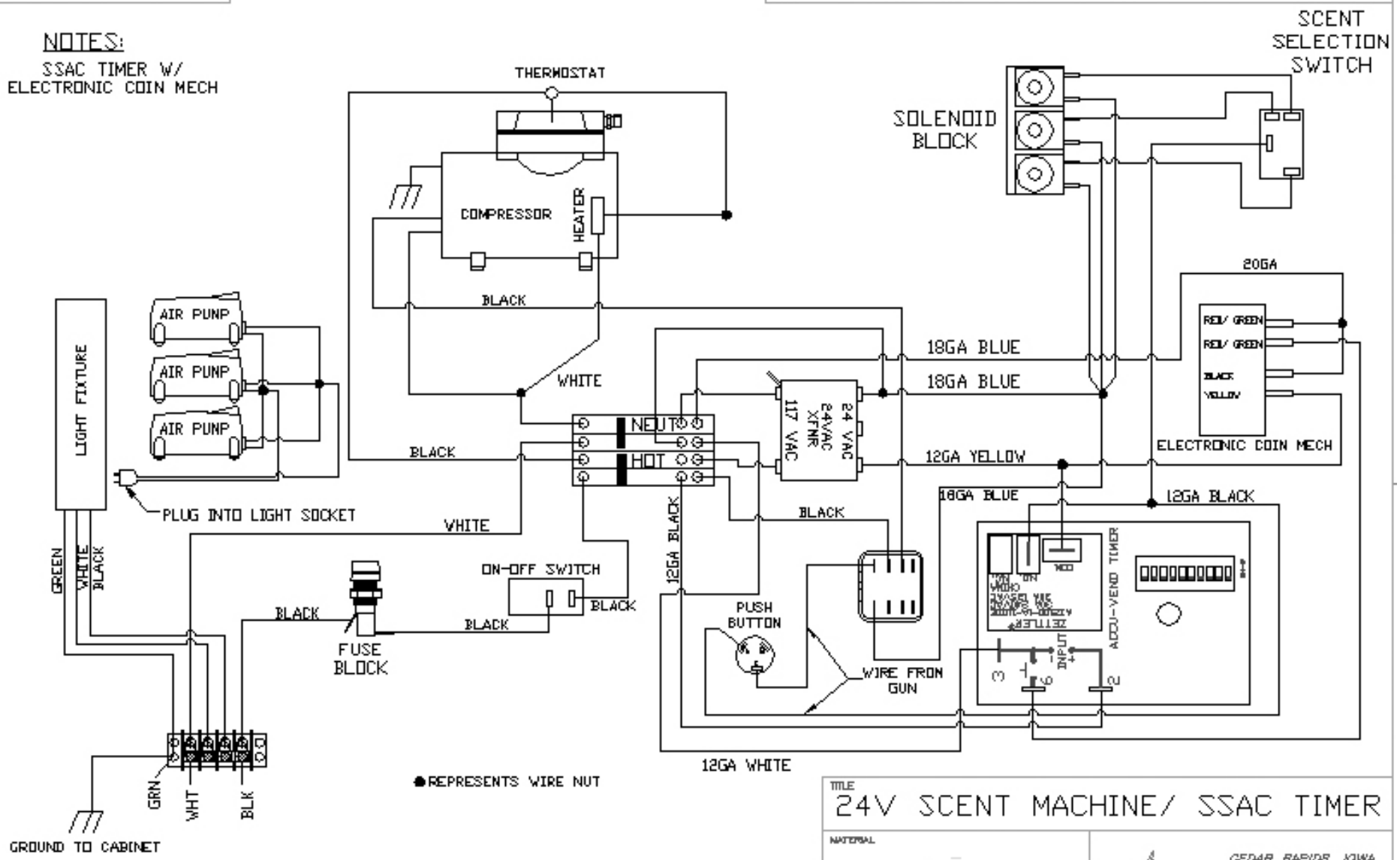


TITLE: 24V SCENT MACHINE/ SSAC TIMER

MATERIAL —

UNSPECIFIED TOLERANCES

SCALE

DRAWN BY

DATE

REL. FOR PROD. —

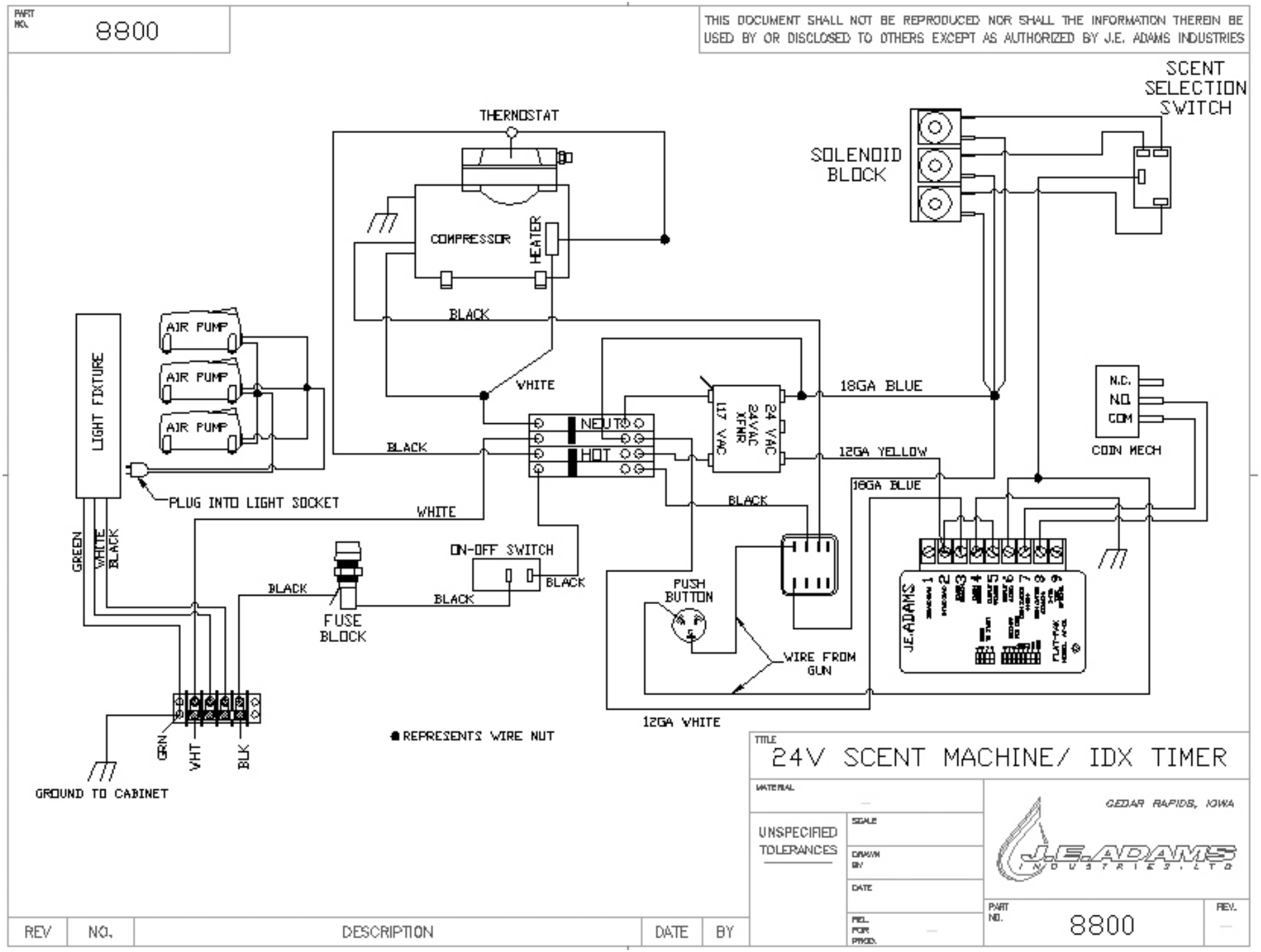
CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

PART NO. 8800

REV. —

REV	NO.	DESCRIPTION	DATE	BY


PART NO. 8800
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SCENT SELECTION SWITCH
SOLENOID BLOCK
THERMOSTAT
COMPRESSOR
HEATER
BLACK
WHITE
AIR PUMP
AIR PUMP
AIR PUMP
LIGHT FIXTURE
PLUG INTO LIGHT SOCKET
NEUT
HOT
24 VAC XFMR
117 VAC
24 VAC
18GA BLUE
12GA YELLOW
18GA BLUE
N.C.
N.O.
COM
COIN MECH
GREEN
WHITE
BLACK
ON-OFF SWITCH
FUSE BLOCK
PUSH BUTTON
WIRE FROM GUN
JE.ADAMS
12GA WHITE
GRN
WHT
BLK
GROUND TO CABINET
● REPRESENTS WIRE NUT
TITLE
24V SCENT MACHINE/ IDX TIMER
MATERIAL
UNSPECIFIED TOLERANCES
SCALE
DRAWN BY
DATE
PRELIM. FOR PROD.
CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD
PART NO. 8800
REV.
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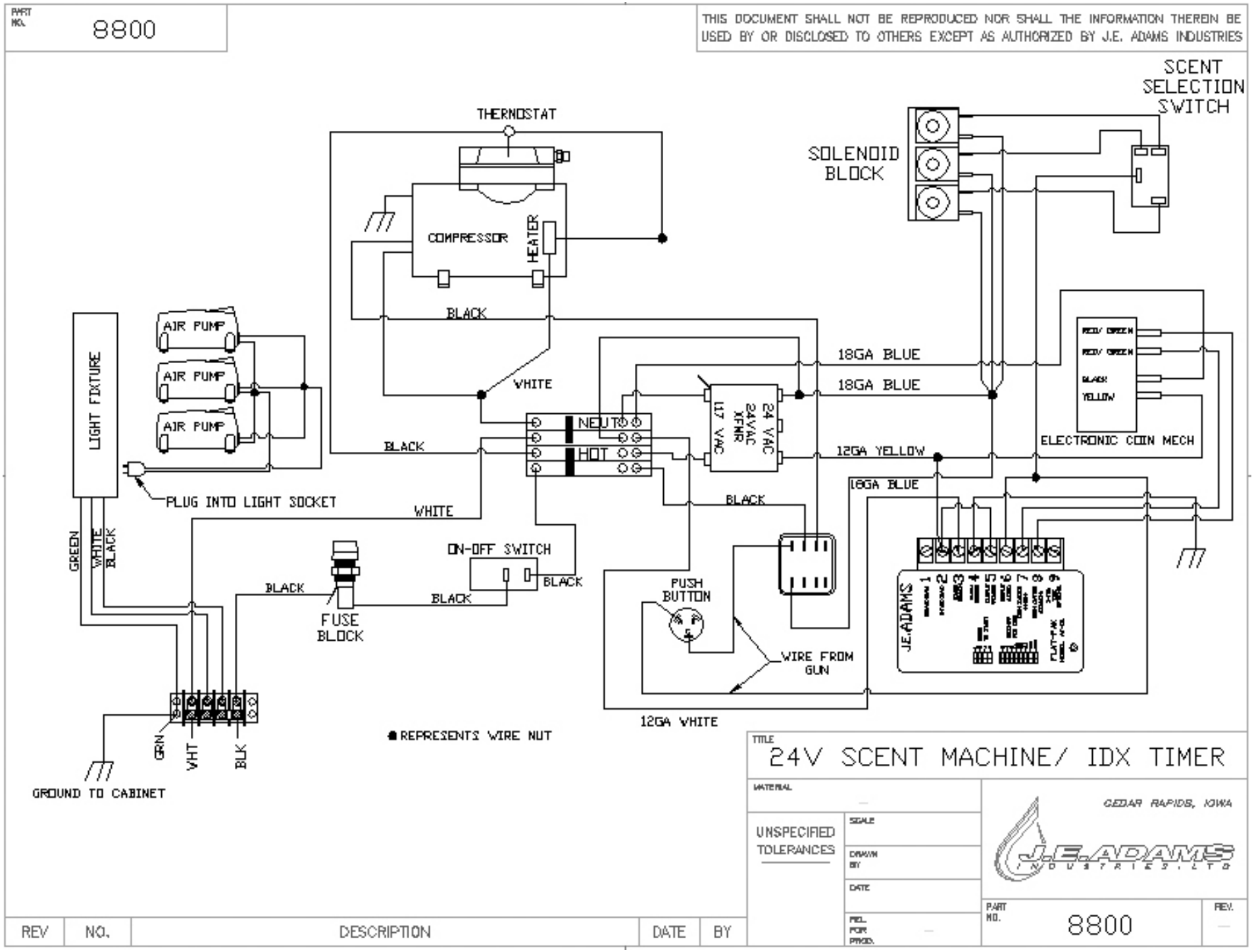
DESCRIPTION
DATE
BY


PART NO. 8800
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SOLENOID BLOCK
THERMOSTAT
COMPRESSOR
HEATER
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WHITE
AIR PUMP
AIR PUMP
AIR PUMP
LIGHT FIXTURE
PLUG INTO LIGHT SOCKET
NEUT
HOT
24 VAC 24VAC XFMR 117 VAC
18GA BLUE
18GA BLUE
12GA YELLOW
16GA BLUE
ELECTRONIC COIN MECH
RED/ GREEN
RED/ GREEN
BLACK
YELLOW
GREEN
WHITE
BLACK
ON-OFF SWITCH
FUSE BLOCK
PUSH BUTTON
WIRE FROM GUN
JE.ADAMS
12GA WHITE
GRN
WHT
BLK
GROUND TO CABINET
● REPRESENTS WIRE NUT
TITLE
24V SCENT MACHINE/ IDX TIMER
MATERIAL
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SCALE
DRAWN BY
DATE
APPL. FOR PROD.
CEDAR RAPIDS, IOWA
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PART NO. 8800

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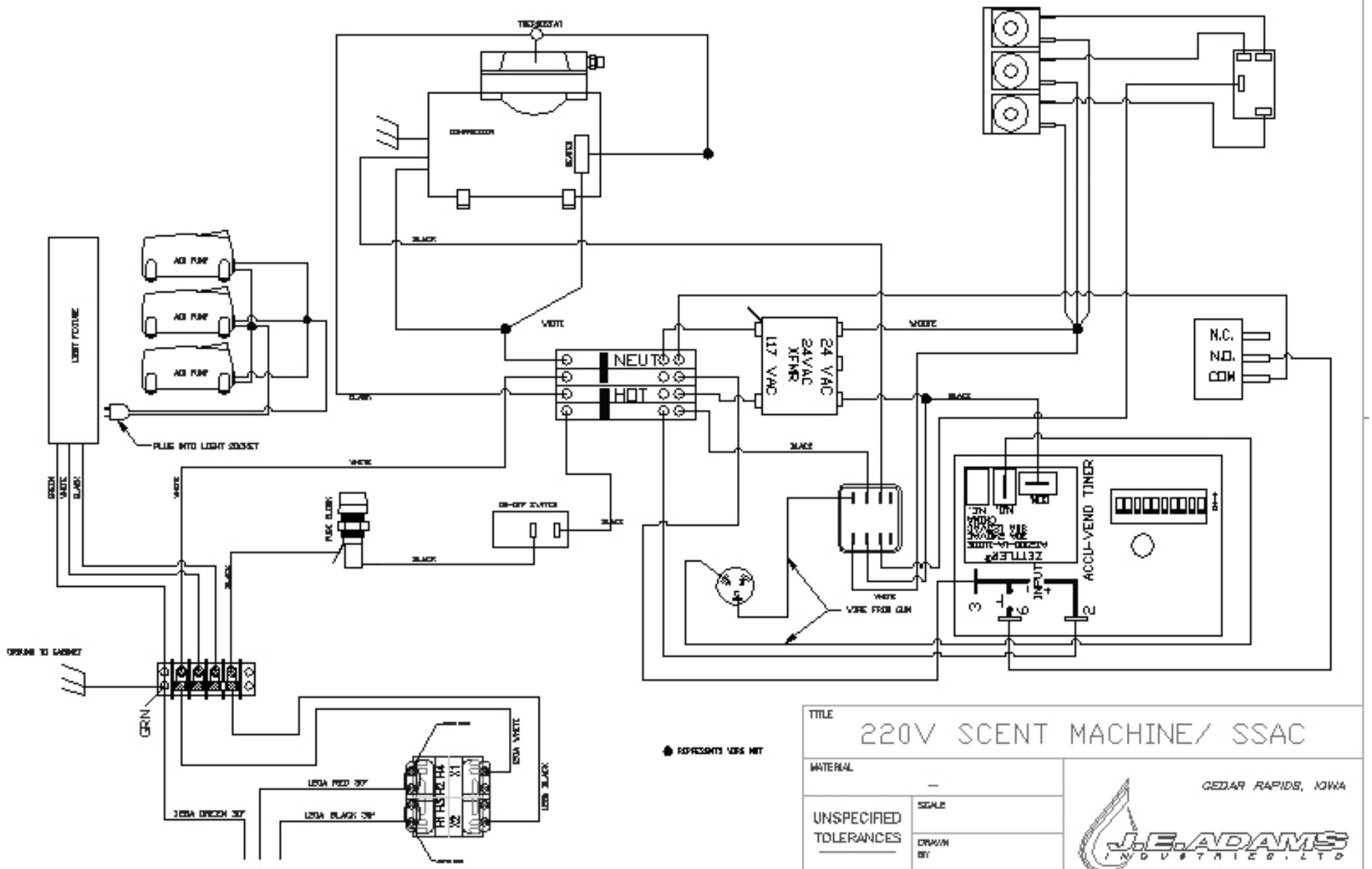
NOTES:



TITLE: 220V SCENT MACHINE/ SSAC

MATERIAL: –

UNSPECIFIED TOLERANCES

SCALE

DRAWN BY

DATE

REL FOR PROD. –

CEDAR RAPIDS, IOWA

J.E. ADAMS INDUSTRIES, LTD

PART NO. 8800

REV.

REV	NO.	DESCRIPTION	DATE	BY

TROUBLESHOOTING

! IMPORTANT!

TROUBLESHOOTING SHOULD BE DONE BY A QUALIFIED ELECTRICIAN OR TECHNICIAN WITH POWER DISCONNECTED WHENEVER POSSIBLE. PROCEDURES MARKED !CAUTION! REQUIRE THAT THE POWER BE ON AND MAY INVOLVE DANGEROUS VOLTAGES.

Problem	Possible Cause	Solution
Unit will not start	No power to machine	Check circuit breaker for machine. Reset if needed.
	Blown fuse	Check for short circuits and wire damage, repairing if necessary. Check for excessive current draw on compressor (normal amperage approximately 3A). Replace with 10A fuse.
	Loose/Missing/Damaged wire	Verify integrity of wires. If possible, trace continuity between key components compressor, solenoids, timer, coin mech, relay).
	!CAUTION! Component failure	Check key components to isolate failure:
		Timer: Verify proper input voltage. Activate timer. If no output voltage is present when timer should be active, replace timer.
		Relay: Check voltage across the relay coil. If proper voltage is present and relay doesn't engage, or if relay doesn't disengage when voltage is removed, replace relay.
		Coin mech: If using a mechanical coin mech, remove the wires leading to the timer from the coin mech and tap them together one time for each coin necessary to start the timer. If machine starts, replace the coin mech.
		Compressor: Check voltage at compressor. If adequate voltage is present (110-120V), or if compressor is humming without starting, replace with new compressor.
		Solenoids: Verify proper voltage at solenoid when timer and scent gun are activated (be sure to hold down red button on scent gun to activate scent). If proper voltage is present and solenoid is not operating, turn off power to the unit, remove solenoid block, remove coil and piston and check interior of solenoid assembly for debris. Clean if necessary.
Timer giving inaccurate time	Improper timer setup	Reset the timer according to instructions.
Unit runs continuously and will not shut off	Loose wiring	Inspect wiring from coin mech to timer to verify proper connection.
	!CAUTION! Damaged relay	Check voltage at relay coil. If no voltage is present and machine is running, replace relay.
	!CAUTION! Damaged timer/Coin mech	Isolate timer from coin mech. If timer continues to run after the maximum possible timer setting, replace timer. If unit times out and turns off, coin mech may need to be replaced.