



8670DIG

Digital Air Machine

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 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:

Voltage: 120v, 60Hz
Amperage: (1) 10 amp service required for Digital Air.

Weight: 80lbs with packaging

Air specifications:

Compressor: Thomas 120vac@60hz, ¾ hp twin head

Timer: Excel control panel, coin or free vend.

NOTE: “UNIT INTENDED FOR COMMERCIAL USE ONLY”

Duty cycle: 4 minutes run time- max
4 minutes off time

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:

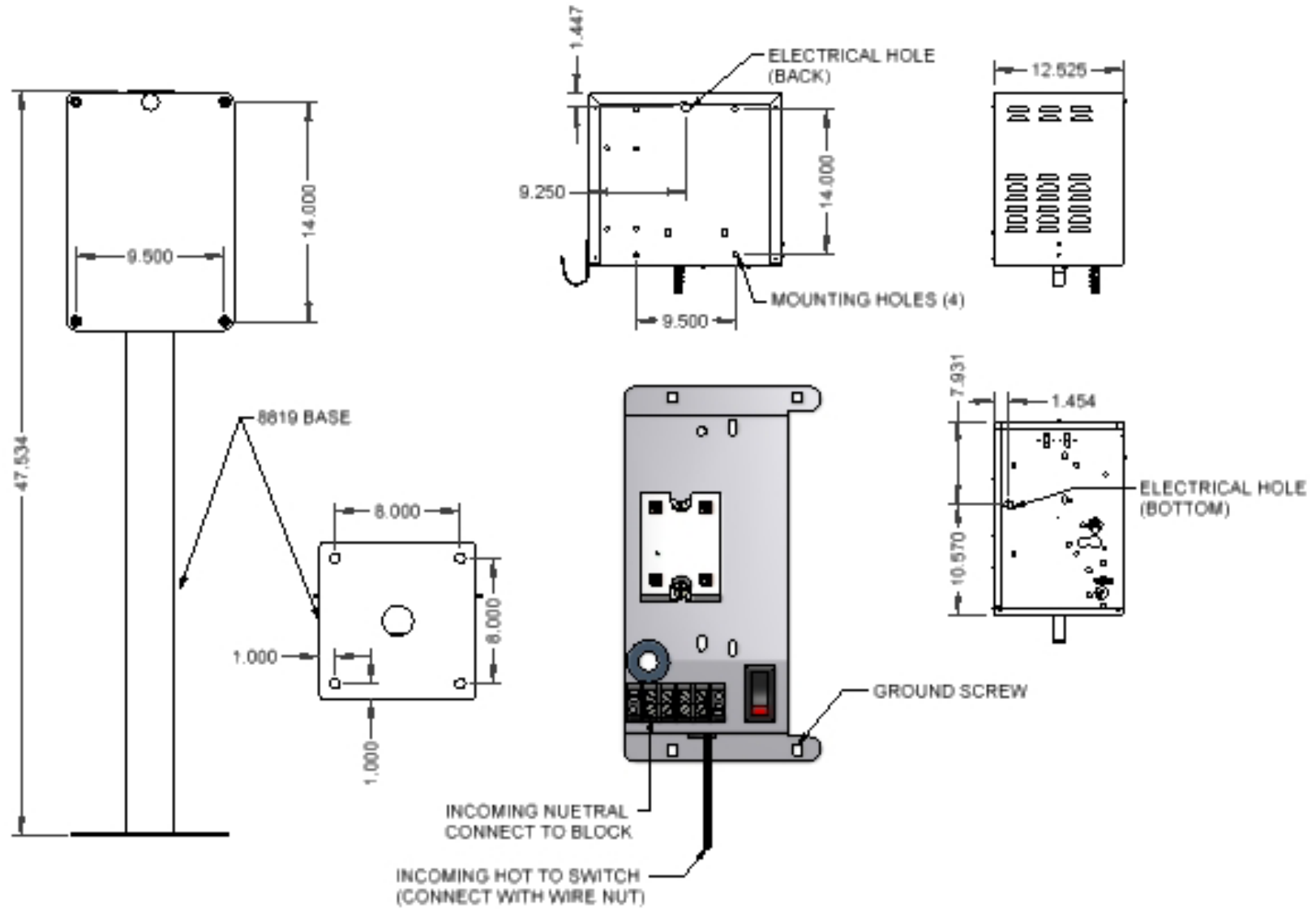
- Use only as described in manual. Use only manufactures recommended attachments.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Never use air nozzle for anything other than for its intended use.
- Make sure power is disconnected from unit when servicing.

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 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.
- Unit must be level for proper operation.
- See next page for bolt pattern.

AIR MACHINE MOUNTING & WIRING (W/ COLUMN OR WALL MOUNT)



Changing settings: quick method

Free vend or pay mode, number of coins, time per coin, and compressor mode.

1. Turn unit off.
2. Hold coin switch lever in the down position.
3. Turn unit on.
4. Units display "t4."
5. Release coin mechanism switch lever.
6. Press " i " button.
7. Units displays No PU (Number of pulses)
8. Press i Button to continue
9. Unit displays a two digit number. This is the minimum number of coins to make the unit works for the programmed time. "00" unit is free air, 01 for 1 coin, 02 for two coins, etc. Adjust by using + or – buttons.

10. Press i button to continue: Unit display Dur (duration or amount of time per coin).
11. Press i button to continue
Adjust by using + or – buttons. Example: For 4 minutes of vend time for \$ 0.75 – using the plus or minus button set the duration to 80. This means 80 second per coin (Quarter) for a total of 240 seconds or 4 minutes running time.
(note: this parameter will not show up if the unit is set to free vend, "00", in the previous step).

12. Press i button to continue: Unit now displays COnn
Press i button to continue: Choose compressor operation mode: "no," "cont," "denn" -- "cont" is recommended.
13. Press i button to continue.
14. Unit now displays "End"

Turn unit off and on. Now it has the new parameters.

Counter:

To access the counter:

In normal operation mode, press i button and just after the beep press the minus button.

This unit has two counters:

The first one is a non-resetable 8 digit number shown in two steps: CnH 0000 and the CnL 0000.

When pay air mode the counter shows the number of coins put through the machine (not the number of vends).

When free air mode the counter shows the number of vends.

A second counter (Pay air only) is optional displayed just after the coins counter. "CFr". It is a 4 digit number which counts the number of remote activation.

Changing settings – advanced programming.

Before beginning, most domestic applications will require "PSI" at the gauge and on the display. These are the default setting on the machine, but make sure this is not inadvertently change these settings to "BAR" unless desired.

1. Turn power switch to off.
Hold coin switch lever in the down position.
2. Turn power switch to on, and wait for first audible "beep."
Just after first "beep" press ("+") button followed by the ("-") button. "Prtr" is shown on the display.
(if Prtr is not displayed, turn unit off and try again)



3. Release the coin switch lever and press "i" button once, "T-4" blinks on display and will then disappear.



4. "1 Un" is now shown on the display.
At this step, set the pressure unit for the gauge.
PSI or bars are the options. LEAVE AT PSI for most applications.

Press "i" button to continue

5. "PSI" is the default and is shown on the display

Press "i" button to continue



6. "2 Un" is now shown on the display.



Press “i” button to continue

7. “PSI” is shown on the display. If not, use the (+) to select **PSI**.

Press “i” button to continue



8. “dE” is now shown on the display.
At this step, set the default tire pressure, value which is factory set at 32 PSI.

Press “i” button to continue.



9. Use “+” and “-” to change the value from 32.

Press “i” button to continue

10. “LS” is now shown on the display.
At this step, set the maximum pressure value.

Press “i” button to continue.



11. The default value is 70 PSI. Use “+” or “-” buttons to adjust pressure if desired.

Press “i” button to continue

12. “n°PU” is shown on the display. This represents the number of coin pulses to activate the machine.

Press “i” button to continue



13. 00 is for free vend, 01 for one coin, 02 for two coins, and so on.

Press “i” button to continue



14. “Dur” is now shown on the display which represents the amount of time per coin in seconds. **If machine is set to “00” free vend, this option will not be present.** Continue and set time per coin using “-“ or “+” buttons.

Press “i” button to continue

15. “Conn” is now shown

Press “i” button to confirm



16. “cont” is shown on the display. Leave this as is.

Press “i” button to confirm



17. **“End” is shown on the display,**
It indicates the setup is finished.
Turn tire gauge off.

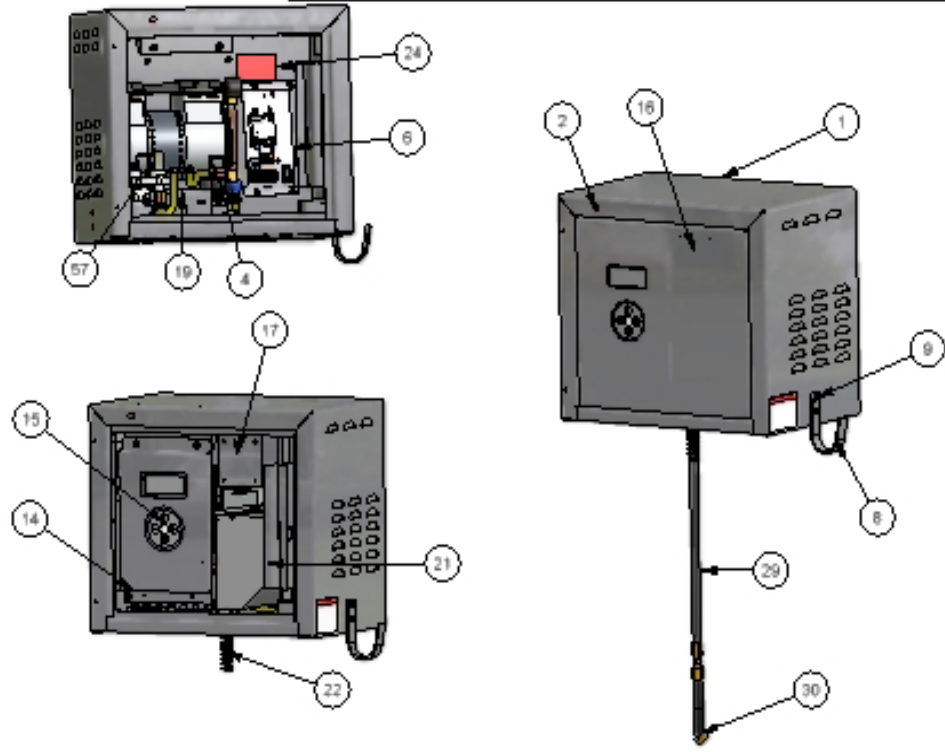



Next time the tire gauge is on, it will work with the new settings

PART NO. **8670-DIG**

BILL OF MATERIALS			
ITEM	PART NUMBER	DESCRIPTION	QTY
79	5601D4	1/4-20 x 3/4 HHCS-SS	1
80	5684D2	1/2" DIA. HOSE CLAMP	1
81	5671B4	CAPS, VINYL TP-9 .30 X 1" BROWN	2
82	1079-3	GASKET, RUBBER SEAL	60"
82	5640D1	1/4-20 x 1/2 PHIL PAN HEAD SCREW	2
83	6113	TERMINAL, FORK BLUE	4
84	5901D7	WIRE NUT, GREY IDEAL #22G	2
85	5901D4	WIRE NUT, ORANGE IDEAL #16G	1
86	5943D3220	WIRE, BLK 14G	22"
87	5943D3229	WIRE, WHT 14G	12"
88	5902D1	TERMINAL, RING BLUE #14-16	2
89	3049	1/4" ID GOODYEAR GORRILLA 500PSI	41"
84	5600D6	90 DEG. NPT STREET ELBOW	1
86	5590D62	CAPACITOR, 4.7uf 250VDC	1
87	8764	DECAL, DANGER EXPLOSION	1
90	56670DIG	ASSEMBLY WIRING DIAGRAM	X
86	5606D1	#10 SAE WASHER	4

BILL OF MATERIALS			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	8659-3W-3	WELDMENT, AIR MACHINE, JEA	1
2	8673-9	NEON LIGHT, RED, 18IN. BLK	1
3	8155	LOCK ASSY	1
4	5639D9	ISOLATION MNT, 30 DUR NEOPRENE, 1/4-20	4
5	9859	3/4 HP TWIN HEAD THOMAS COMPRESSOR	1
6	8673DIG	TIMER ASSEMBLY- DIGITAL AIR	1
7	5611D2	NUT, 10-24 UNC KEPP- ZINC	4
8	8678	HOSE HANGER	1
9	5631d1	1/4-20 SCREW, ONE-WAY HEAD	2
10	8036	NUT, 1/4-20 UNC KEPS	9
11	5601D8	1/4-20 x 3/8 HHCS-ZINC PLATED	7
12	5600D2	5-16-18 x .75 CARR BOLT	2
13	5603D5	1/4 Std NC Nylock Nut	3
14	8670-20W	CNTRL HEAD MOUNT BRKT W/LDMNT	1
15	8670-19	DIGITAL AIR CNTRL PAN, EXCEL TIRE	1
16	9870W-1	DIGITAL AIR MACH DOOR WELDMENT	1
17	8124B001	COIN ACCEPTOR, IMONEX	1
19	8670-8	COMPRESSOR MOUNT	1
21	8773-A	CUST. JBT BOX PAINTED	1
22	8549	FLEX STRAIN RELIEF	1
23	5603D2	1/4 Std NC Nylock Nut	2
24	8182	DECAL, "DISCONNECT POWER"	1
25	8659-75	LOCK BAR AIR EXPRESS	1
26	8157	NUT, #6-32 KEPP NUT STAINLESS	4
27	8687	HOLE PLUG - 1/2"	1
28	8687.1	HOLE PLUG - 3/4"	1
29	8532-25	AIR HOSE ASSY, 1/4" X 25'	1
30	8533-13	DIGITAL AIR CHUCK, EXCEL TIRE	1
53	5603D1	10 Std NC Nylock Nut	8
57	7122-DIG	AIR SOLENOID, EXCEL TIRE W/MNT BRKT	1
60	8430-9AKIT	DIGITAL AIR DECAL	1
61	8670-12W	STOP BRACKET ASSY	1
62	5639D2	RUBBER GROMMET	1
63	6301-3	COPPER PIPE, 1/4NPT BOTH ENDS	1
64	5613D3	3 WAY MANIFOLD, 1/4-20 NPT	1
65	3054	1/4" HOSE BARB X 1/2" MPT	2
66	5627D1	45 DEG. STREET ELBOW	2
67	3054-1	1/4 HOSE BARB, 1/4" NPT FEMALE	3
68	7052-1	CHECK VALVE, 1/4 NPT	1
73	5643D2	SS HOSE CLAMP, 7/16-25/32"	8
75	8596	NUT, 5/16-18 HEX	4
76	8597	5-16 WASHER	4
77	8598	5-16 LOCK WASHER	4
78	5606D21	WASHER, FLAT, 3/4 SAE, ID 13/16	1



TITLE		ASSEMBLY, AIR MACHINE, JEA	
UNSPECIFIED TOLERANCES 1 PL ±.030 2 PL ±.010 3 PL ±.003 ANGLE ±1.0°	MATERIAL		
	SCALE		
	DRAWN BY JOHN F.		
	DATE 8/27/2008	PART NO. 8670-DIG	REV.

REV	NO.	DESCRIPTION	DATE	BY
THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION THEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY J.E. ADAMS INDUSTRIES				

PART NO.

S8670DIG

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BILL OF MATERIAL

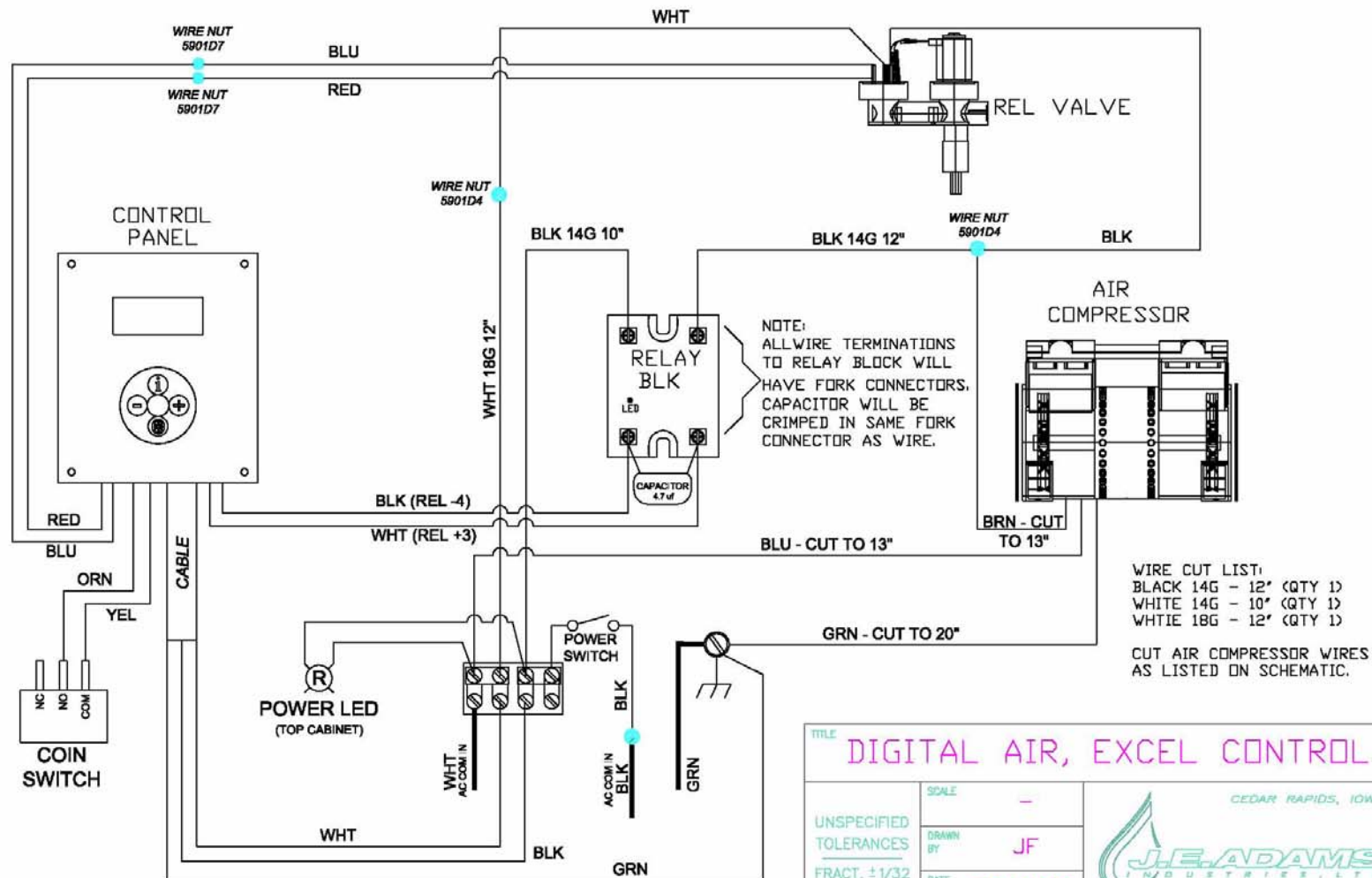
ITEM NO.

PART NO.

DESCRIPTION

QTY.

NOTES:
1) FIELD WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES



TITLE DIGITAL AIR, EXCEL CONTROL

UNSPECIFIED TOLERANCES
FRACT. $\pm 1/32$
2 PL ± 0.020
3 PL ± 0.010
ANGLE $\pm 1.0^\circ$

SCALE -
DRAWN BY JF
DATE 29 JAN 09
REL. FOR PROG.



PART NO. S8670DIG

REV.

REV

NO.

DESCRIPTION

DATE

BY

TROUBLESHOOTING INFORMATION:

STARTS BUT NO PRESSURE	SYSTEM LEAKING	CHECK AIR HOSE FOR LEAKS AND AIR CHUCK. ALSO CHECK FOR LEAKS AROUND COMPRESSOR.
	CHUCK IS CLOGGED	CHECK AIR CHUCK TO MAKE SURE NO DEBRIS IS AIR PATH. ALSO CHECK ORING AROUND AIR CHUCK, IS IT BLOCKING THE AIR PATH.
	PARTS DAMAGED OR WORN OUT.	SLEEVE IN COMPRESSOR MAY BE PITTED OR SCRATCHED UP. PISTON ORING MAY BE WORN OR DAMAGED. DEBRIS IN VALVE PLATE OPENING IS NOT ALLOWING IT TO SHUT. REPAIR KIT MAY BE NEEDED.

MAINTENANCE

- Check air nozzle for signs of wear and abuse. Replace as needed.
- Clean air cabinet as needed with a non abrasive stainless steel cleaner.
- Examine air hose for cuts or wear and replace as needed.
- Every month remove filter from compressor and clean.

