

AIR **KING** of America, Inc.

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SERVICE AND INSTALLATION MANUAL FOR K14 DISPENSING MACHINES



OPENING THE AIR MACHINE

1. Remove the two Medco Plug locks from the machine with the keys provided. Rotate the lock counter clockwise until you hear a click, pull the locks completely out.
2. Use the 5/16 black allen wrench provided for you to loosen the bolts where the locks were, turning bolts counter clockwise. When the bolts are loose open the door.

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, OR INJURY

1. Only the recommended manufacturer's attachments should be used on the air machine.
2. Do not handle the air machine with wet hands.
3. Use the air machine only as described in the manual.
4. Do not put any objects into the opening of the air machine.
5. Do not use the air machine in areas where flammable liquids may be present.

WARNING: AIR COMPRESSORS

1. Over inflation may be dangerous. Please consult your vehicle owner's manual for proper inflation.

DANGER: THIS AIR MACHINE CONTAINS EQUIPMENT THAT TENDS TO PRODUCE ARCS AND SPARKS THAT CAN CAUSE AN EXPLOSION.

This air machine must be located 18 inches above grade and at least 25 feet or more from a dispenser.

This air machine operates on 110 volt as single phase, three wire electrical power. This air machine 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 unit.

All servicing other than basic maintenance should be performed by qualified Service' people.

SAVE THESE SAFETY INSTRUCTIONS

INTRODUCTION

American Products Inc. Air dispensing machines are manufactured in a variety of configurations to meet diverse customer needs. This manual has been prepared to aid service personal in installing, diagnosing and repairing American Products Inc. equipment.

In general they are supplied in seven models

- | | |
|-------------|---|
| 1. K14-A | Self-contained unit (supplied with a compressor $\frac{3}{4}$ h.p.) |
| 2. K14-9 | Remote unit (operates off a remote compressor already installed) |
| 3. K14-AW | Same as K14-A models but equipped with a water application. |
| 4. K14-9 AW | Same as K14-9 Remote unit is equipped with water application. |

The cabinets for the models listed above are made out of 10 and 14 gauge regular steel and are painted with high quality powder coat paint or are made out of a polished stainless steel.

Model number will identify units through the rest of the manual.

Each of the basic models comes with a variety of optional features

1. Models can be set up for free operation or coin operation.
2. Cut resistant hose.
3. Permanent stand.
4. Single reel assemblies made of stainless steel or regular steel with stainless steel front.
5. Dual reel assemblies made of stainless steel or regular steel with stainless steel front.
6. Multi pulse timer for multi coin use.
7. JB 7 Lock Box for coin box security.

Technical Support

Our technical support staff is available at 1-800-542-3336 during normal business hours to answer any questions regarding machine operations, components, or spare parts. When calling for technical support it is extremely helpful to have the serial number and machine model number readily available.

SERVICE AND WARRANTY

WARRANTY STARTS FROM DATE OF INVOICING

- 1) Air Compressors are warranted from defects in materials and workmanship for 1 ½ year.
- 2) Multi coin timers are warranted from defects in materials and workmanship for one year.
- 3) All other parts of the unit are warranted for 30 days.
- 4) Warranty covers parts and materials only, warranty does not include Labor, freight costs of any kind.
- 5) If unit or parts are returned to the factory at the customers expense, there will be no charge for labor.
- 6) Vandalism or misuse of equipment, or tampering is not covered under warranty.
- 7) No returns or charges will be accepted without a prior R.G.A. (returned goods authorization)

GENERAL SPECIFICATIONS

K14-A

- A. Equipped with the following:
1. High Quality ¾ H.P. Industrial Type Compressor
 2. Standard 25 foot black cut-resistant air hose, Air Gauge and 10" Whip
- B. Powder Painted Cabinet Construction:
1. Cabinet is constructed of heavy duty 10 & 14 gauge steel
- C. Stainless Steel Cabinet Construction:
1. Cabinet is constructed of heavy duty 10 & 14 gauge stainless steel

K14-9

- A. Has the same features as the K14-A, but has no compressor. The K14-9 model has 110 volt solenoid valve for use with a compressor already installed at the location.
- B. Comes equipped with a regulator valve. The recommended setting for the regulator valve connected to the solenoid valve is 60 psi. This valve has been preset for your convenience.

NOTE: If units are equipped with water they will have an additional 25 foot hose with a water faucet and 110 volt solenoid valve for water operation. K14-9AW unit will have two solenoid valves.

Model	Compressor HP	PSI Max	Electrical Rating	Amps	CFM Open
K14-A	¾ HP	120 lbs	110 V 60 HZ	13 amps	4.7
K14-A/W	¾ HP	120 lbs	110 V 60 HZ	13 amps	4.7
K14-9	Your Compressor	Your Compressor	Your Compressor	N/A	N/A

ELECTRICAL REQUIREMENTS

K14-750 Model Elctrical Requirements are:

- A. 110 Volts AC Current
- B. 20 Amp Circuit Breaker
- C. 60 HZ Single Phase

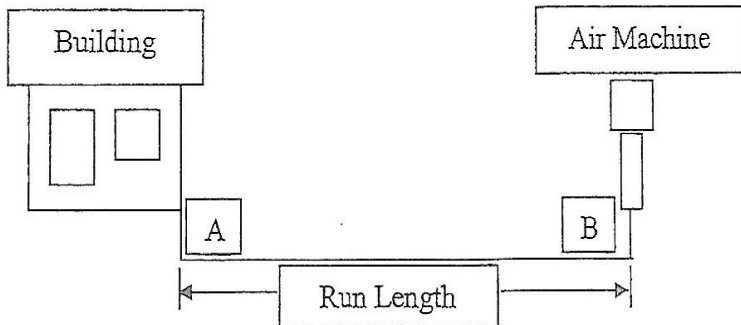
K14-9 Remote Air Model Electrical Requirements are:

- A. 110 Volts AC Current
- B. 20 Amp Circuit Breaker
- C. 60 HZ Single Phase

K14- AW (Air & Water) Model Electrical Requirements are:

- A. 110 Volts AC Current
- B. 20 Amp Circuit Breaker
- C. 60 HZ Single Phase

The use of the recommended wire size is required for proper operation of all models. See the wire size guide below.



Note: Run Length should be the length from the Breaker inside the building to the Air Machine outside of the building.

Copper Wire Size –Min AWG No. A-B Run Length in Feet (See Note on Run Length)

Air King Model #	0 to 25 ft	0 to 50 ft	0 to 100 ft	0 to 150 Ft	0 to 200 ft
K14-750	12 GA	10 GA	8 GA	6 GA	4 GA
K14-500	12 GA	10 GA	8 GA	6 GA	4 GA
K-14-750 AW	12 GA	10 GA	8 GA	6 GA	4 GA
K-14-9	12 GA	12 GA	12 GA	10 GA	10 GA

MACHINE IDENTIFICATION & SERIAL NUMBER

The Model Number and Serial Number appear on inside the machine label, bearing the Air King of America, Inc. name.

OPERATING INSTRUCTIONS

To operate K14-A coin models follow these instructions:

- A. Insert correct amount of coin or coins into money slot on left hand side of the machine. The machine will then start.
- B. Take hoses off of hose hanger or out of reel assembly place end of hose on valve stem of tire. You will have to hold the end of the hose on to the valve stem.
- C. Depress handle on air gauge and begin to fill tire. To check air pressure in the tire leave hose end on valve stem and let up on handle of gauge. The gauge will pop out showing the air pressure in the tire.

To operate K14-A free models follow these instructions:

- A. Depress button once on the machine and it is ready for use. Repeat steps A & B as you did for the coin operated model.

To operate K14-9 Remote air coin models follow these instructions:

- A. Insert correct amount of coin or coins into money slot on left-hand side of machine and machine is ready for use. Repeat steps A & B as you did for K14-A models.

To operate K14-9 Remote air free models follow these instructions:

- A. Depress button once on machine and machine is ready for use. Repeat steps A & B as you did for the K14-A models.

For maximum protection from electrical shock test the unit at least once a month.

BASIC MAINTENANCE

This part of the manual is designed to help with some basic maintenance tips for your Air King air machine. The machine is basically maintenance free but there are a few things you should do to keep it this way.

1. Clean the felt filters in the compressor at least every six months. In an environment where it is quite dirty you may want to clean them more often.
Note: This is only on air machines equipped with compressors.
2. Check the machine for loose wires connections and loose bolts once every two months. You may want to check this more often if your machine gets a lot of heavy use.
3. Lubricate Plug locks at least once every two months. Refer to the parts identification pages in the manual to locate these parts on your machine.
4. Make sure the coin box in your air machine is either bolted or padlocked to the coin box sleeve on the door of your air machine. If this is not done the coin box could vibrate out and could cause damage to your compressor.
5. To keep your air machine looking like new you should wax it with car wax once a year. This is on powder painted units. On stainless steel units you can use a stainless steel cleaner.

AIR MACHINE TIMERS

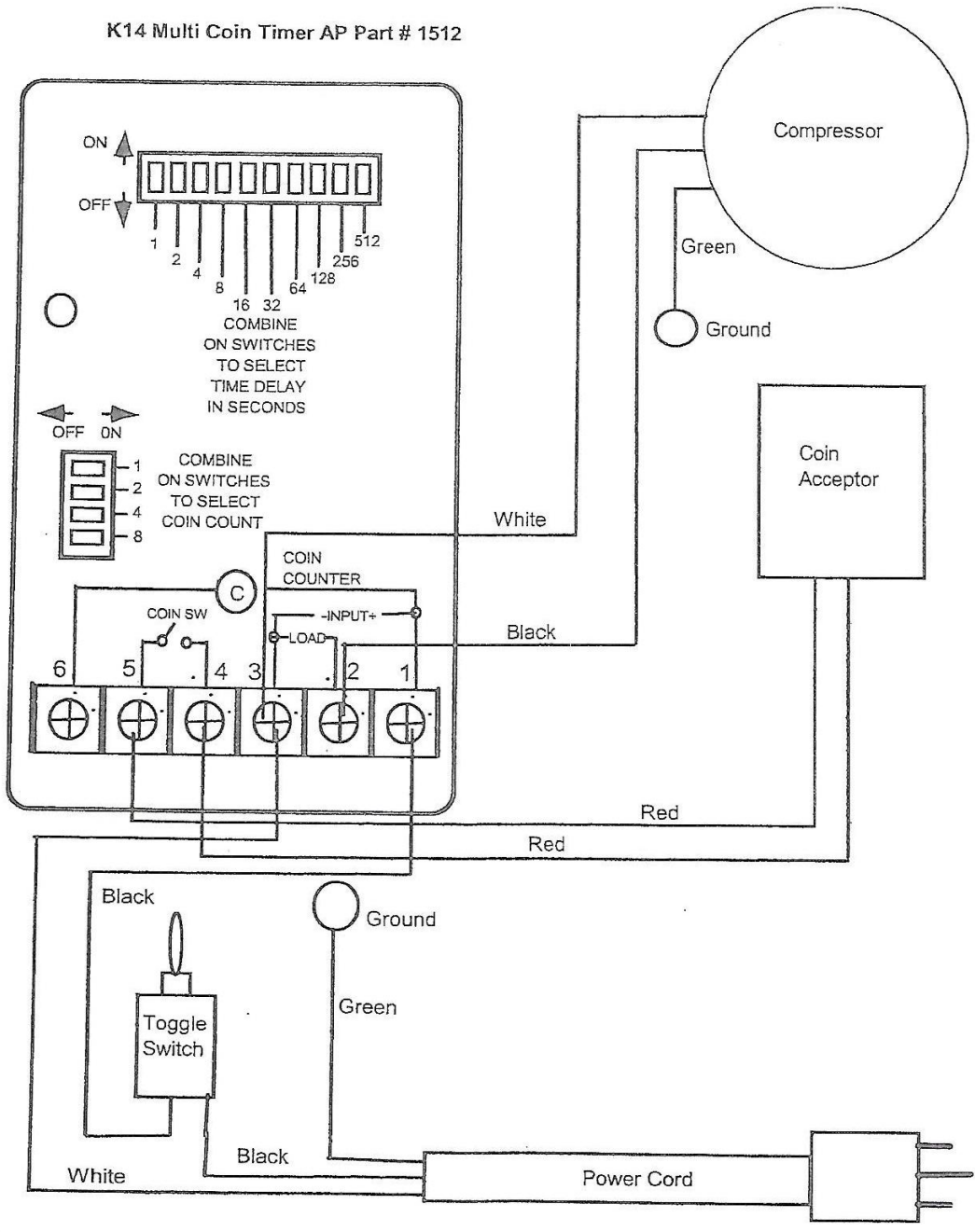
Air King of America, Inc. air machines models K4-A, K14-9 and K14-AW may be equipped with two different types of timers.

1. Timer Multi Coin Infitec ASCR540

Features Include:

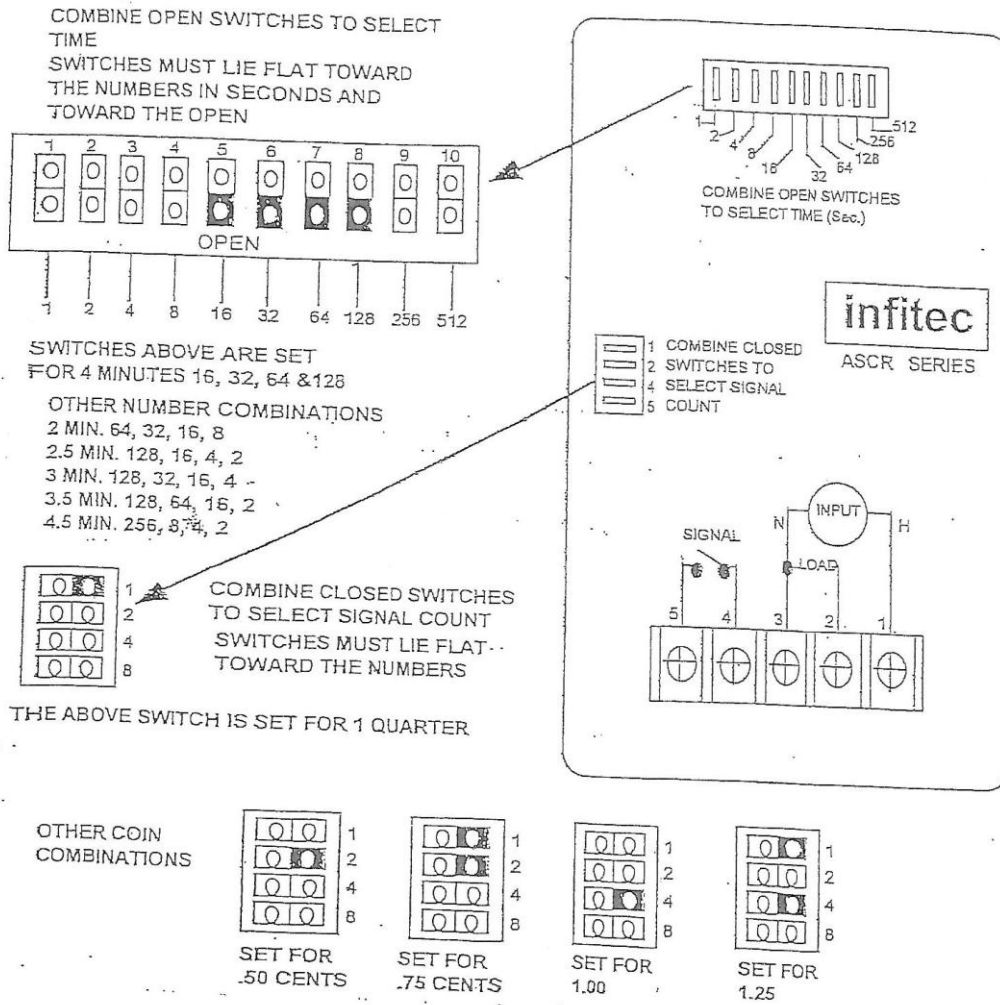
- A. Adjustable time
- B. Single or Multi Coin start
- C Low Voltage to coin switch
- D. Air King' Part #1512

WIRING DIAGRAM FOR TIMER 1512

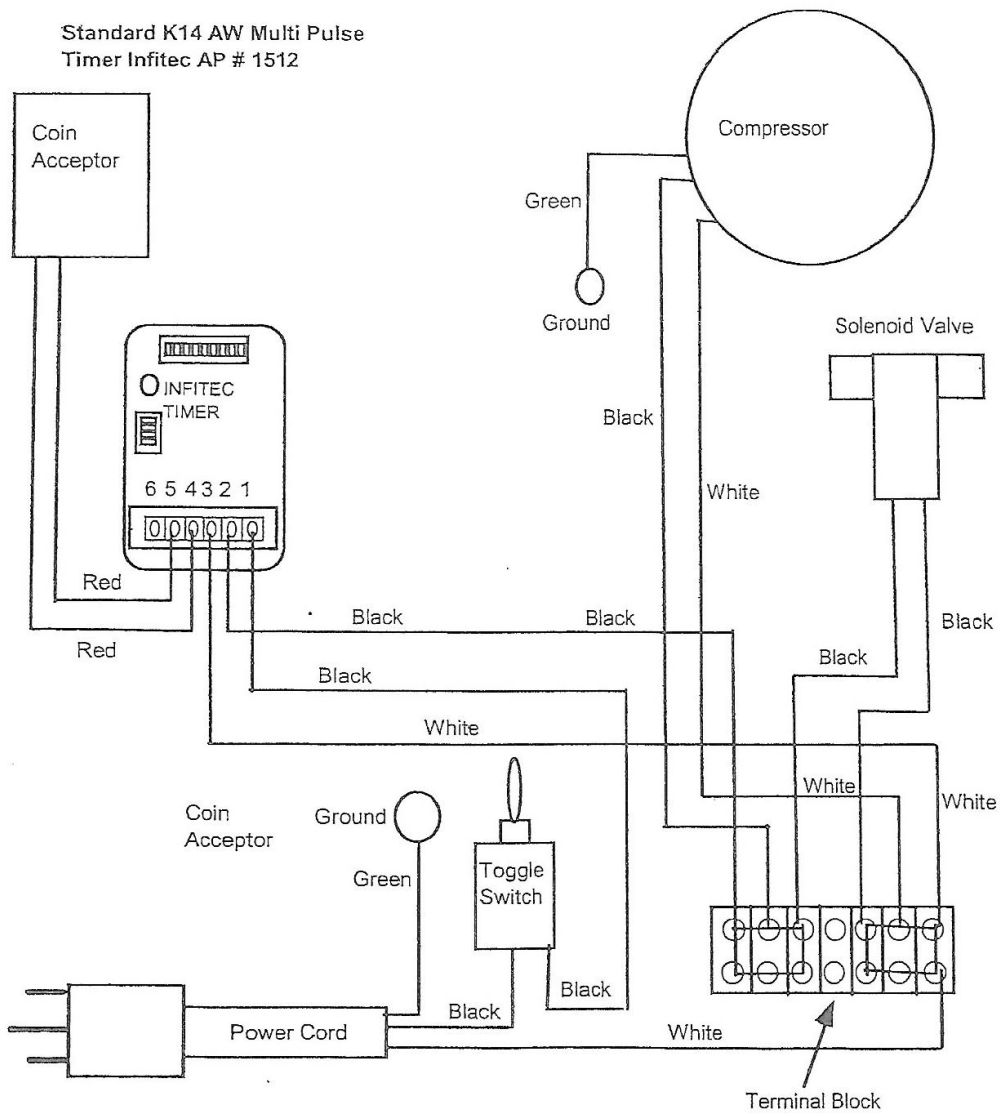


SETTING DIAGRAM FOR TIMER 1512

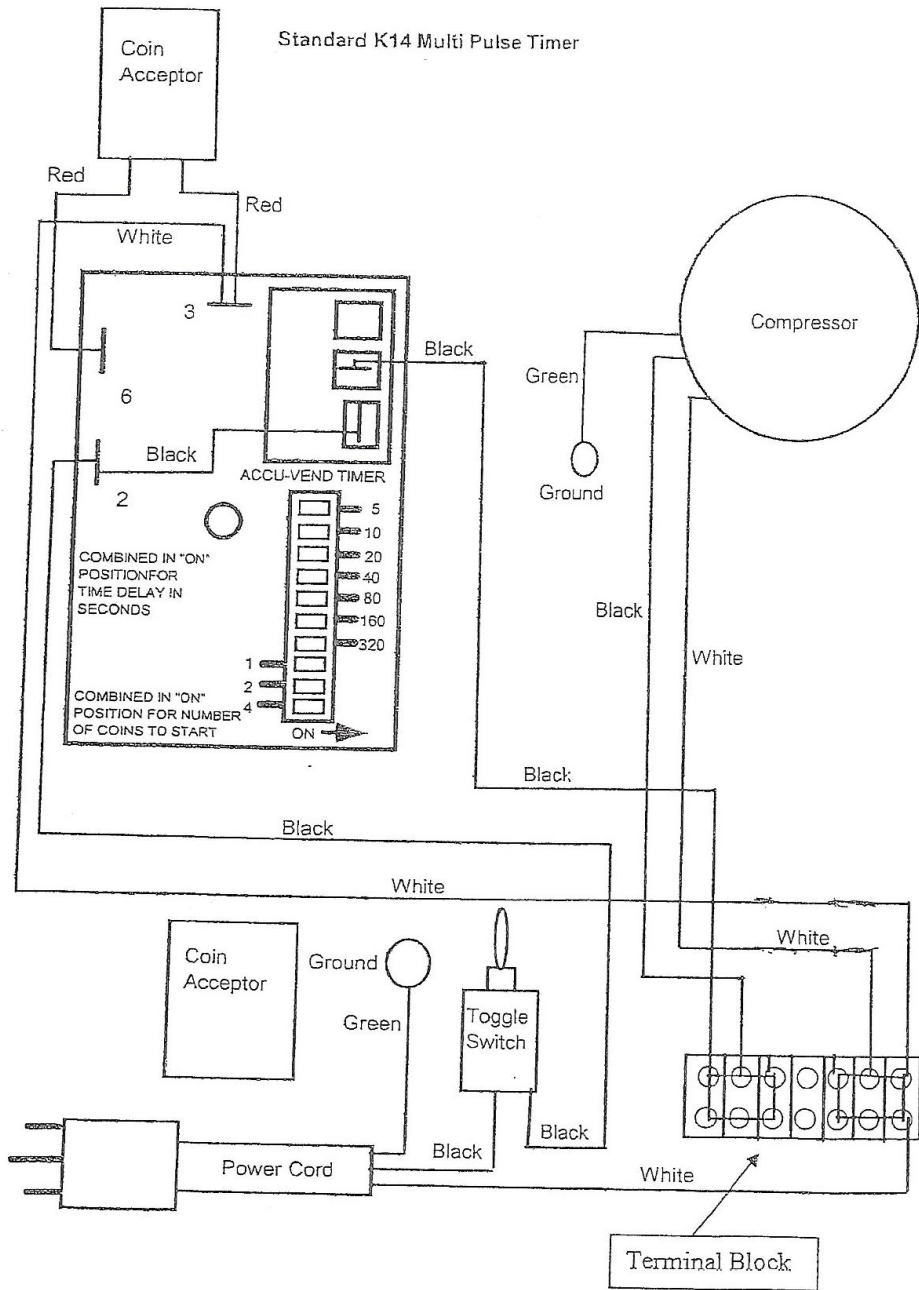
Timer AP Part # 1512 multi pulse Infitec ASCR 540. To adjust time and coins follow directions below:



WIRING DIAGRAM FOR K14- AW 1512 TIMER



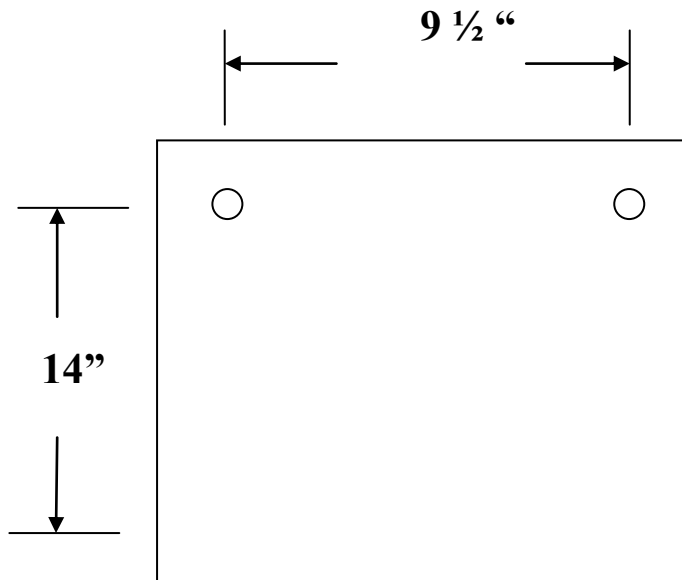
Wiring Diagram for a K14- AW 1511 Timer



AIR MACHINE INSTALLATION & MOUNTING

Mounting air machine to cement or brick wall:

1. Before mounting install a six inch piece of carpet or weather stripping approximately $\frac{1}{4}$ " thick in the center of the back of the machine.
This will help reduce noise and vibration of the machine.
recommend that the machine not be mounted on a metal wall.
2. Drill $\frac{1}{2}$ inch hole in the wall for wall fasteners.
3. Insert fastener into hole flush with wall.
4. Position unit over fasteners.
5. Insert lag screws fitted with lock washers and flat washer into fastener.
6. Start all four lag screws before tightening securely.
7. See page 6 for electrical requirements.
8. See Diagram Below.

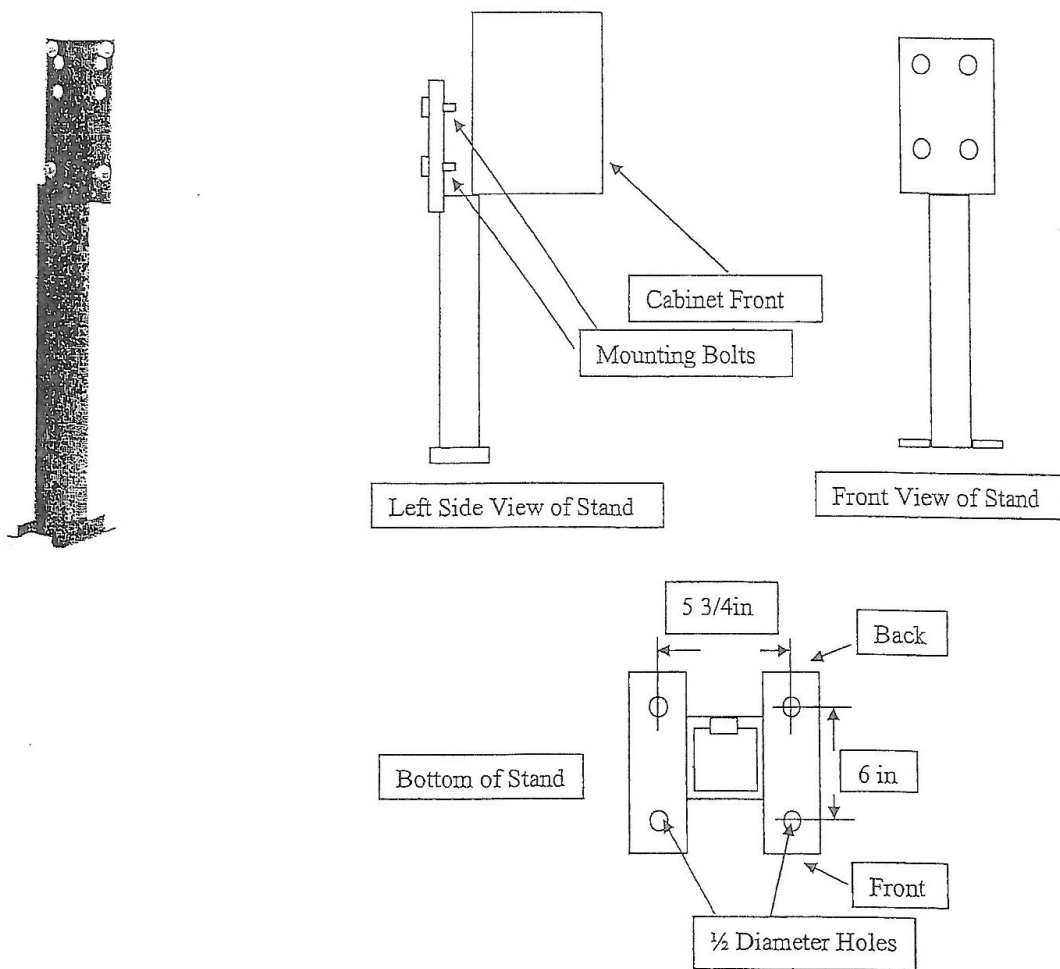


Back of the Machine

AIR MACHINE INSTALLATION & MOUNTING cont.

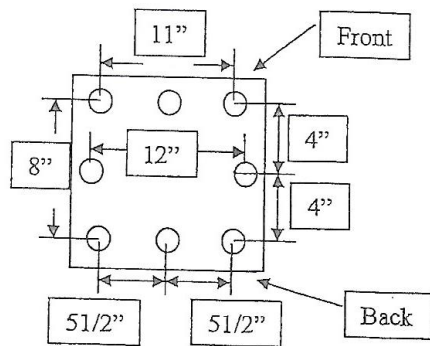
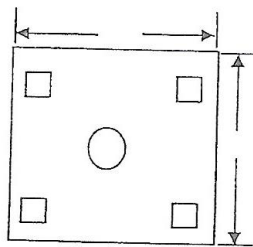
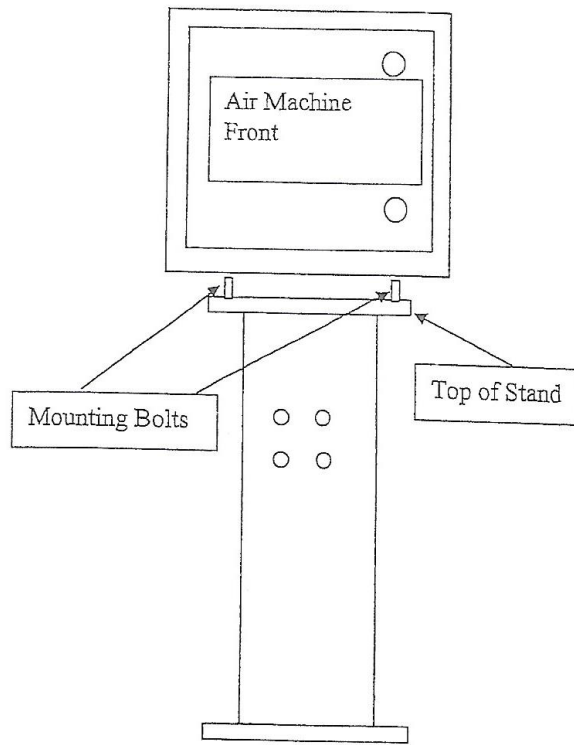
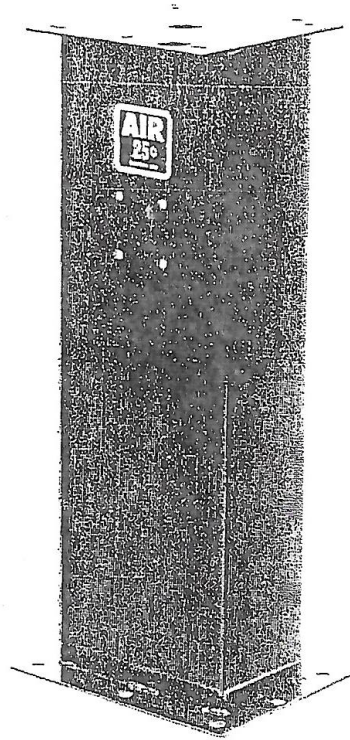
The air machine can be mounted on a permanent stand, a vault ready stand or a single or dual reel assembly cabinet. All three stands can be mounted to present concrete at the site, or a pad can be poured to mount them. See diagram below for mounting.

1020 Stand



AIR MACHINES INSTALLATION & MOUNTING cont.

1023 Vault Ready Stand



TROUBLE SHOOTING

This part of the manual was designed to help you with any minor problems or repairs you may have with your *AIR KING* air machine.

Problem: Air machine will not start:

- A. Check the circuit breaker in building, if the breaker in the building has not kicked out, go out to the machine and do the following.
1. Extremely wet or humid weather conditions may affect machine operations. Shut breaker off in building, dry out machine. Spray all wire connections with a contact cleaner to protect them from moisture.
 2. Check for jammed coins in coin acceptor. Clean coins out if jammed.
 3. Check coin switch on coin acceptor for bent or broken activation wire. If bent, straighten wire if broken, replace wire.
 4. Take two red wires off of coin switch and touch directly together for how many coins you have it set for (ie. if machine is set for .50 touch wires together two times) If machine starts you need to replace coin switch
- B. If Breaker in building has kicked out.

1. Reset breaker, try and restart machine.
2. If machine does not start you may have a bad or weak breaker. Replace breaker and try to restart machine.
3. If machine still does not start you may have a short, or you may have too much of a load running off of the same line. The air machine should have its own separate 20 amp breaker. The size of the wire to run the machine depends on how many feet it is from the breaker to the machine. Refer to the wire size guide on page 5 in this manual for the required size.

Problem: Air Machine vibrating excessively:

- A. Possible installation problem or compressor problem.
1. If after the unit has been installed and the machine vibrates excessively. Check to make sure the bolts holding the compressor are still tight. If the machine is mounted on a wall be sure it is mounted flush and tight against the wall. A six inch square piece of padding is recommended to be placed in the center of the machine before mounting. If the machine is still vibrating excessively call American Products Inc. for service.