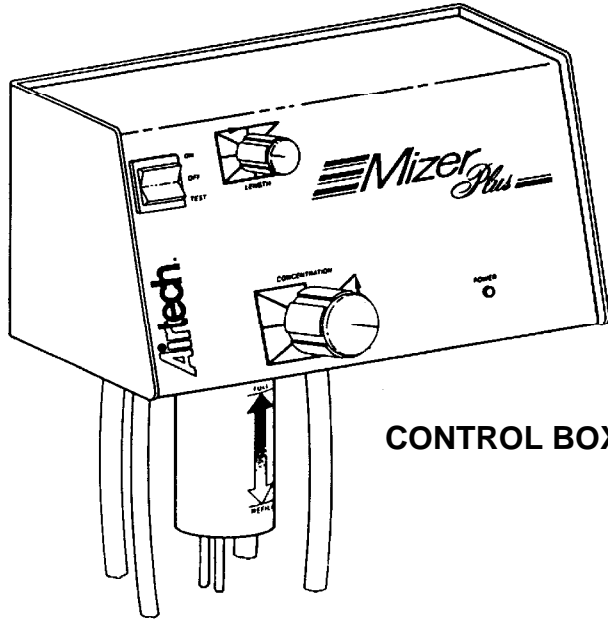
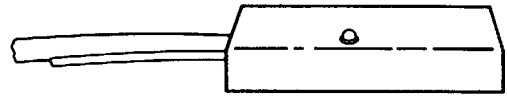


Mizer Plus

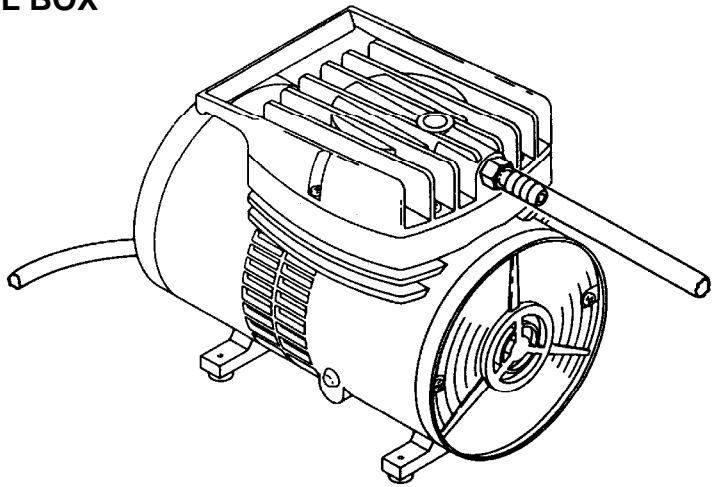
OPERATING INSTRUCTIONS



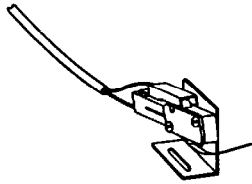
CONTROL BOX



SPRAY BAR



COMPRESSOR



SNAP SWITCH

Airtech®

INTERNATIONAL, INC.

107 Woodwinds Industrial Court, Cary, NC 27511
Telephones: US & Canada 1-800-334-7012
International (919) 467-4521 FAX: 1-888-467-5328
e-mail: airtech@vnet.net

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Congratulations,

You have just purchased one of the most advanced powder spray systems available today.

The pneumatic system and spray bar have been designed as a result of years of testing and customer feedback. Airtech is committed to making the most reliable powder spray system possible. However, **preventive maintenance is the key to keeping your equipment operating properly**. Please read and follow the preventive maintenance section in this manual. With proper care, this system will provide years of trouble free operation.

As always, if you have any questions or comments, please feel free to contact us at 1-800-334-7012 (U.S. and Canada), or 1-919-467-4521 (International).

CAUTION

We strongly recommend the use of AIRTECH Spray Powder in this powder spray system. AIRTECH Spray Powder is FDA approved, and specially formulated to resist static electricity by minimizing powder from collecting inside of hoses and connectors. All AIRTECH Spray Powder is individually packaged in 5 oz. bags to prevent moisture contamination. Contaminated powder will lead to clumping and uneven powder spraying.

Use of inferior quality powders or coated powders may void the system warranty described on page 11 of this manual.

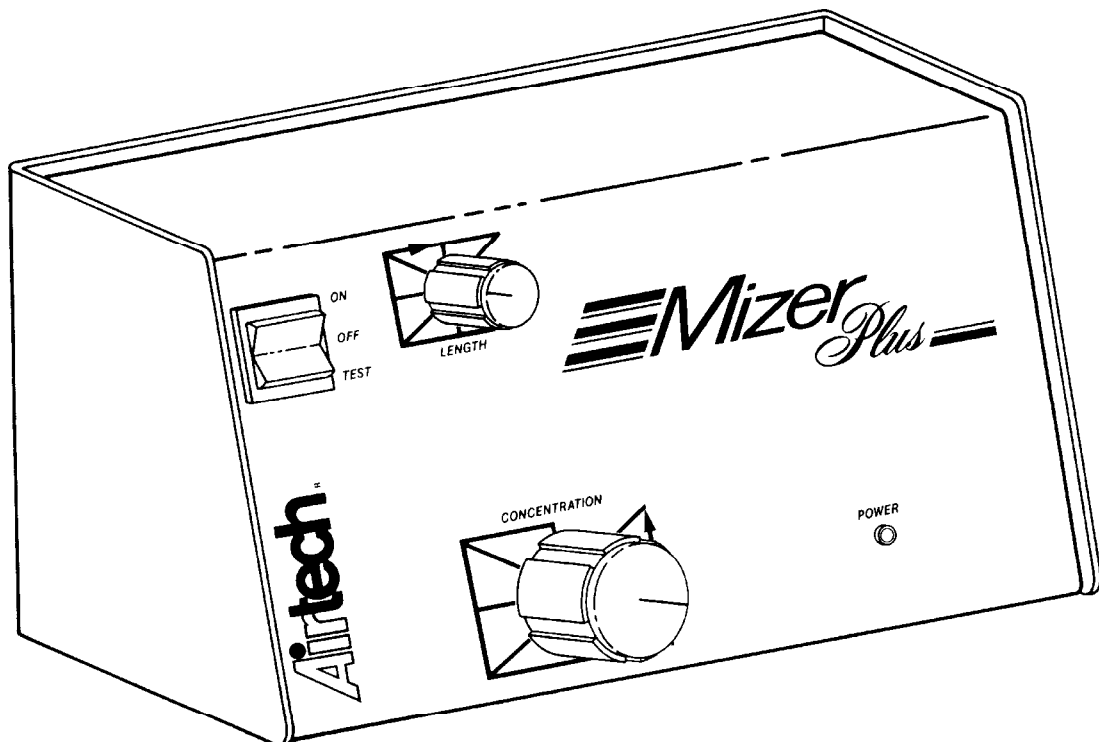
CONTROL BOX CONTROLS

Power Switch - On/Off/Test - Activates the powder spray. Powder will spray only if the press is on impression, and the length control knob is "ON". The test mode activates the powder spray for 7 seconds allowing the operator to set "CONCENTRATION" without the press being on impression.

Length Control - Adjusts the duration or length of powder spray onto each sheet of paper.

Concentration Control - Adjusts the concentration or amount of powder delivered to the sheet throughout the preset length of spray.

Power Indicator - Light strobes when power is on and PC board is functioning. The light is solid when the powder spray is in operation.



MIZER PLUS CONTROL BOX

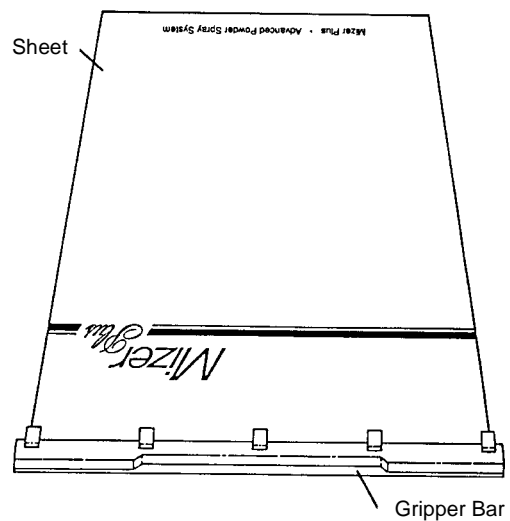
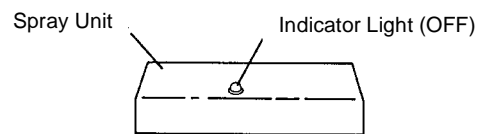
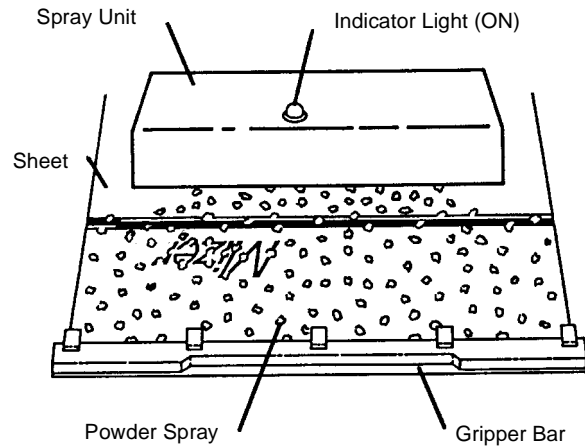
CHAIN DELIVERY

Explanation of Operation

The Mizer Plus is an on-off type powdering system that sprays powder only when the press is on impression. The system is triggered to begin spraying powder when the lead edge of the printed sheet reaches the spray bar.

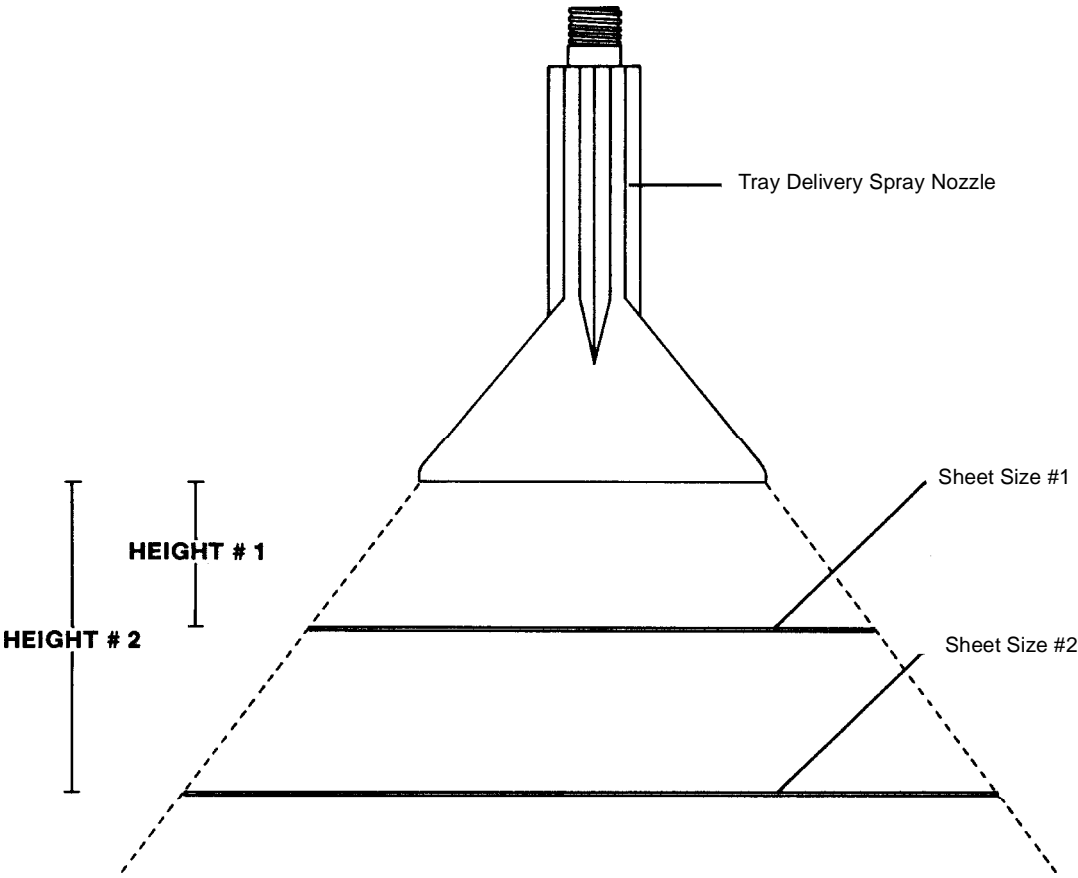
The powder nozzles are designed to spray an even mist of powder across the entire width of the paper as it passes under the spray bar. The Mizer Plus also provides fingertip control of the length of powder sprayed, allowing the operator to spray any fraction of a sheet or any size sheet encountered. This feature helps to eliminate wasteful powder overspray and mess.

Note: The Mizer Plus is equipped with "Auto-Speed-Sensing". This senses changes in press speed during a run and automatically adjusts the length control to maintain the desired length of spray originally set.



TRAY DELIVERY

Tray delivery units function in the same manner as the chain delivery units, except attention must be given to the spray nozzle position. Maneuver the flexible neck so that the nozzle is positioned approximately one inch from the tail and directly over the center of the sheet when the delivery bin is set to paper sheet size. Nozzle height will vary according to the width of paper being printed, as illustrated below.



NOZZLE HEIGHT ADJUSTMENT FOR TRAY DELIVERY

FILLING THE POWDER JAR

Remove the powder container by unscrewing the plastic jar counterclockwise (CCW) and lowering it until it clears the “I-tube”.

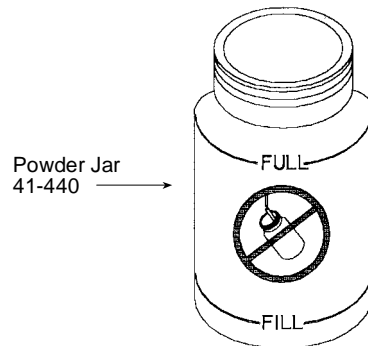
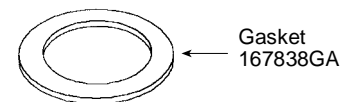
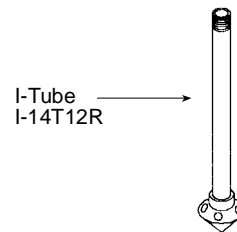
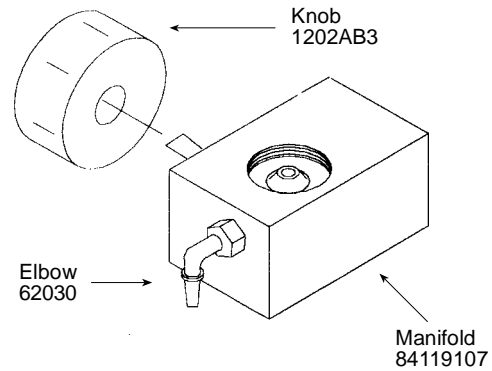
Carefully fill the powder jar with powder leaving approximately 1-1/2 inch space from the top of the jar to the top of the powder.

Important: Do Not overfill the jar. During operation, the powder is continuously aerated and space must be left in the container for the proper mixture of powder and air to take place.

Wipe excess powder from the top rim of the jar and replace by turning clockwise (CW) until it seals snugly against the rubber gasket.

Refill when the container is approximately 4/5 empty. Do not allow excess powder to build up around the rubber gasket or jar threads.

Note: We strongly recommend the use of AIRTECH Spray Powder in this powder spray system.



POWDER JAR ASSEMBLY

OPERATING PROCEDURES Powder Phase

Push the power switch to the "ON" position.

Turn the length control knob (CCW) until it stops.

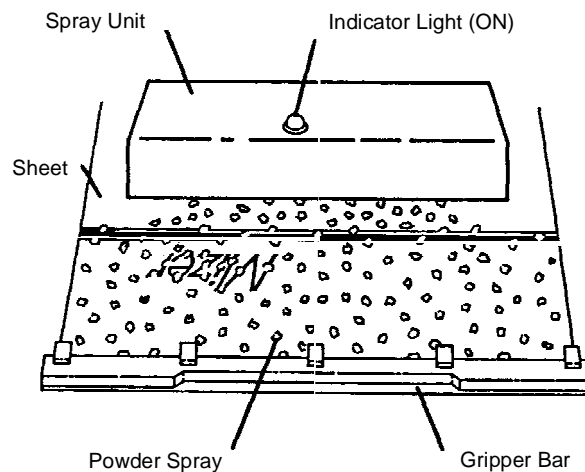
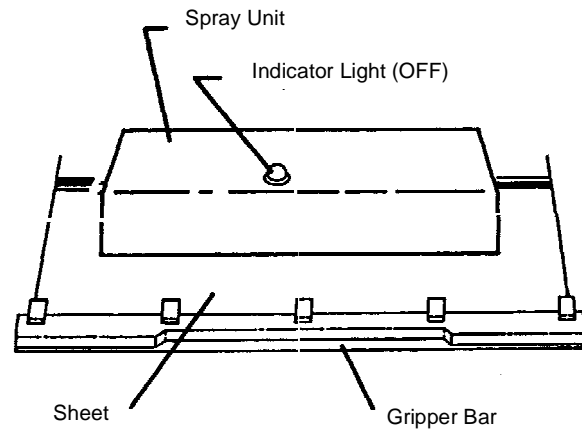
Note: This unit is equipped with "Automatic Compressor Shut Off" feature. The compressor will only operate if the press is on impression or if the "TEST" button is depressed.

By using the test button, the system will spray powder for approximately 7 seconds, allowing the operator to set the powder "CONCENTRATION" adjustment.

Start the press and begin feeding paper.

While watching the powder indicator light on the spray bar, adjust the "LENGTH" control (CW) gradually until the powder indicator light turns off just as the tail edge of the sheet (or portion of the sheet you wish to spray) passes under the spray bar.

Adjust the "CONCENTRATION" knob to the desired powder density per each powder spray cycle.



At this point, the system automatically begins spraying powder as the leading edge of each sheet reaches the spray bar, as indicated by the powder indicator light. The system can now be adjusted for the concentration of powder delivered to each sheet and the area covered with powder.

Note: The Mizer Plus is equipped with “Automatic Speed Sensing”. This senses changes in press speed during a run and automatically adjusts the length control to maintain the desired length of spray originally set.

Note: Press must be at operating speed for the powder to be properly timed with the sheet.

To derive maximum benefit from your Mizer Plus Spray System, give careful attention to the powder concentration adjustment.

It is preferable to use the lightest powder application possible to eliminate your offsetting problem.

Heavy powder applications can cause problems in running subsequent colors or with after press operations, and very heavy powder applications may render the job unusable.

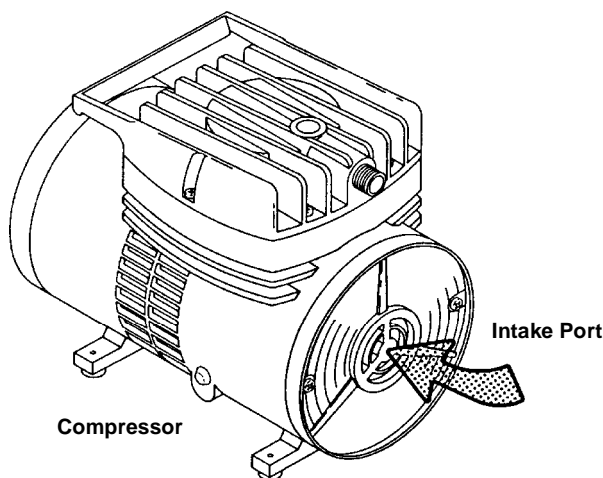
We recommend Airtech medium grade “Non-Offset” spray powder with a particle size of 20-23 microns.* Available in single serving packets.

* 1 micron equals 1/1000 millimeter.

Preventive Maintenance

The Mizer Plus Spray System is designed for years of trouble free operation. However, to maximize the benefits of your system, follow these simple procedures:

1. **Do not turn the powder “CONCENTRATION” knob past the normal stopping place.**
2. Do not allow lubricants/solvents to drip down onto the control box or the spray bar.
3. If the powder becomes contaminated, discard and wipe the inside of the powder jar with a clean dry cloth.

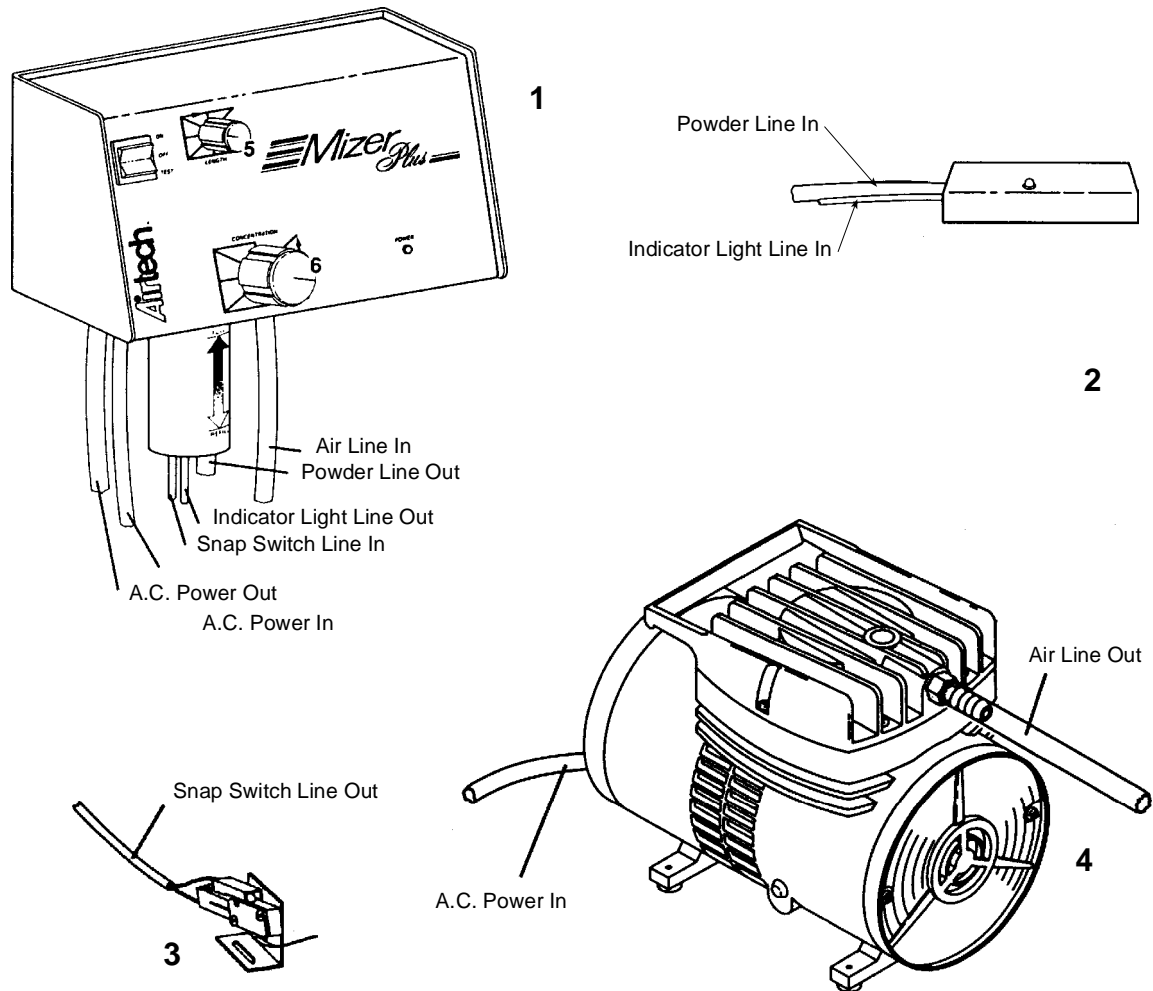


4. Never use damp “clumpy” powder in your Mizer Plus. (We recommend Airtech medium grade “non-offset” spray powder, available in “single serving” packets).
5. Periodically, blow pressurized air through the intake port on the compressor.

SHOULD YOUR SYSTEM BECOME CLOGGED

1. Disconnect the vinyl powder tube to the spray bar and blow pressurized air through the nozzle. (40 psi max. dry air only).
2. **Carefully** remove the “I-tube” from the manifold of the powder jar assembly (see illustration, page 5). Clear tube by applying air pressure at the tube hole and manifold orifice.

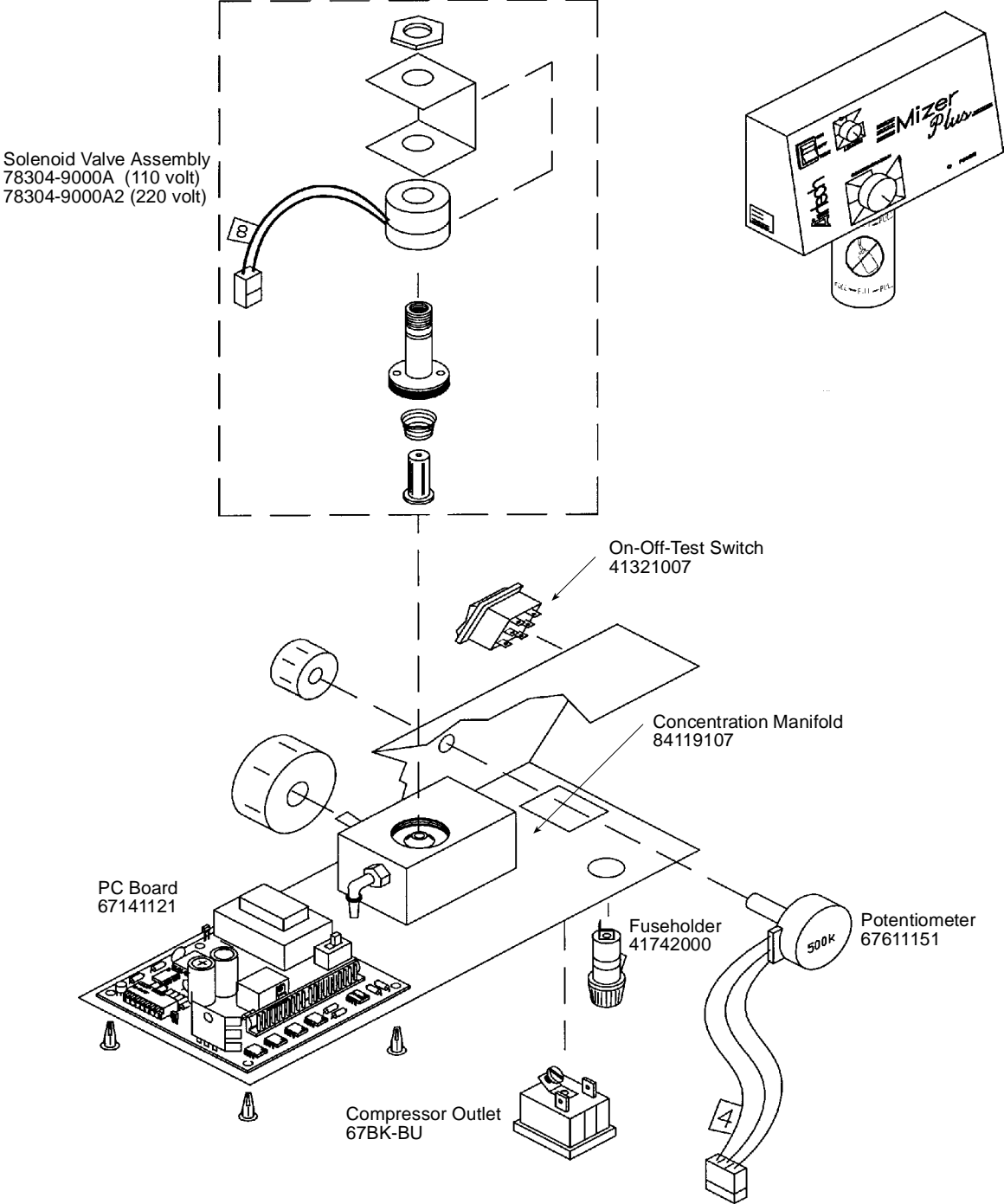
MIZER PLUS SYSTEM



PARTS LIST Complete System

Listed	Description	Part Number
1	Control Box	(Indicate Mizer Plus serial # and press model)
2	Spray Bar	(Indicate Mizer Plus serial # and press model)
3	Snap Switch Assembly	(Indicate Mizer Plus serial # and press model)
4	Compressor	AA-18T
5	Small Knob	12063
6	Large Knob	1202AB3

CONTROL BOX Exploded View





**Airtech
NON-OFFSET DRY SPRAY POWDER**

**Non-Toxic
Non-Abrasive
Humidity Resistant
F.D.A. Approved
Medium Grade (20-23 micron)**

Recommended for use with all Airtech Spray Systems

**Available in 5 lb. boxes with (16) 5 oz. bags
Contact your dealer or Airtech**

Caution: Use of inferior quality powders or coated powders may void the 18 month system warranty described on page 11 of this manual.